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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

TO-15

INVENTORY SHEET

Work Order #: 1510593

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Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	11/11/15
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1510593

Work Order Summary

CLIENT:	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577	**BILL TO:**	Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577
PHONE:	(914) 251-0400	**P.O. #**	
FAX:		**PROJECT #**	BMS VI
DATE RECEIVED:	10/30/2015	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	11/04/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B30SSV-1102715	TO-15	4.1 "Hg	14.9 psi
02A	B30SSV-2102715	TO-15	3.9 "Hg	14.6 psi
03A	B30SSV-3102815	TO-15	4.7 "Hg	14.8 psi
04A	B30SSV-4102715	TO-15	3.7 "Hg	14.7 psi
05A	B30SSV-4D102715	TO-15	5.1 "Hg	14.8 psi
06A	B42SSV-1102815	TO-15	3.5 "Hg	14.9 psi
07A	B42SSV-2102815	TO-15	5.3 "Hg	14.9 psi
08A	B42SSV-3102815	TO-15	3.3 "Hg	15.1 psi
09A	Lab Blank	TO-15	NA	NA
09B	Lab Blank	TO-15	NA	NA
10A	CCV	TO-15	NA	NA
10B	CCV	TO-15	NA	NA
11A	LCS	TO-15	NA	NA
11AA	LCSD	TO-15	NA	NA
11B	LCS	TO-15	NA	NA
11BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 11/04/15

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704343-14-7, UT NELAP CA009332014-5, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2014, Expiration date: 10/17/2015.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
Anderson Mulholland & Associates, Inc.
Workorder# 1510593

Eight 1 Liter Summa Canister (100% Certified) samples were received on October 30, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

The Chain of Custody (COC) information for sample B42SSV-1102815 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request 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.

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.

Dilution was performed on sample B30SSV-1102715 due to the presence of high level target species.

Dilution was performed on sample B42SSV-2102815 due to the presence of high level non-target species.

Dilution was performed on sample B30SSV-2102715 due to matrix interference.

Definition of Data Qualifying Flags

Eight 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.

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)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
B30SSV-1102715	1510593-01A	10/27/2015	10/30/2015	NA	7	11/ 3/2015	NA	Good
B30SSV-2102715	1510593-02A	10/27/2015	10/30/2015	NA	7	11/ 3/2015	NA	Good
B30SSV-3102815	1510593-03A	10/28/2015	10/30/2015	NA	5	11/ 2/2015	NA	Good
B30SSV-4102715	1510593-04A	10/27/2015	10/30/2015	NA	6	11/ 2/2015	NA	Good
B30SSV-4D102715	1510593-05A	10/27/2015	10/30/2015	NA	6	11/ 2/2015	NA	Good
B42SSV-1102815	1510593-06A	10/28/2015	10/30/2015	NA	5	11/ 2/2015	NA	Good
B42SSV-2102815	1510593-07A	10/28/2015	10/30/2015	NA	5	11/ 2/2015	NA	Good
B42SSV-3102815	1510593-08A	10/28/2015	10/30/2015	NA	5	11/ 2/2015	NA	Good
Lab Blank	1510593-09A	NA	NA	NA	NA	11/ 2/2015	NA	Good
Lab Blank	1510593-09B	NA	NA	NA	NA	11/ 3/2015	NA	Good
CCV	1510593-10A	NA	NA	NA	NA	11/ 2/2015	NA	Good
CCV	1510593-10B	NA	NA	NA	NA	11/ 3/2015	NA	Good
LCS	1510593-11A	NA	NA	NA	NA	11/ 2/2015	NA	Good
LCSD	1510593-11AA	NA	NA	NA	NA	11/ 2/2015	NA	Good
LCS	1510593-11B	NA	NA	NA	NA	11/ 3/2015	NA	Good
LCSD	1510593-11BB	NA	NA	NA	NA	11/ 3/2015	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B30SSV-1102715

Lab ID#: 1510593-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1200	600 J	4100	2100 J
Cyclohexane	1200	640 J	4000	2200 J
Benzene	1200	540 J	3700	1700 J
Ethyl Benzene	1200	64000	5000	280000
m,p-Xylene	1200	700000	5000	3000000
o-Xylene	1200	14000	5000	59000
Cumene	1200	260 J	5700	1300 J

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Client Sample ID: B30SSV-1102715

Lab ID#: 1510593-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110306**	**Date of Collection:**	**10/27/15 6:01:00 PM**
Dil. Factor:	**233**	**Date of Analysis:**	**11/3/15 11:55 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1200	Not Detected	5800	Not Detected
Freon 114	1200	Not Detected	8100	Not Detected
Chloromethane	4700	Not Detected	9600	Not Detected
Vinyl Chloride	1200	Not Detected	3000	Not Detected
1,3-Butadiene	1200	Not Detected	2600	Not Detected
Bromomethane	1200	Not Detected	4500	Not Detected
Chloroethane	4700	Not Detected	12000	Not Detected
Freon 11	1200	Not Detected	6500	Not Detected
Ethanol	4700	Not Detected	8800	Not Detected
Freon 113	1200	Not Detected	8900	Not Detected
1,1-Dichloroethene	1200	Not Detected	4600	Not Detected
Acetone	4700	Not Detected	11000	Not Detected
2-Propanol	4700	Not Detected	11000	Not Detected
Carbon Disulfide	1200	Not Detected	3600	Not Detected
3-Chloropropene	4700	Not Detected	14000	Not Detected
Methylene Chloride	1200	Not Detected	4000	Not Detected
Methyl tert-butyl ether	1200	Not Detected	4200	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected
Hexane	1200	600 J	4100	2100 J
1,1-Dichloroethane	1200	Not Detected	4700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4700	Not Detected	14000	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected
Tetrahydrofuran	1200	Not Detected	3400	Not Detected
Chloroform	1200	Not Detected	5700	Not Detected
1,1,1-Trichloroethane	1200	Not Detected	6400	Not Detected
Cyclohexane	1200	640 J	4000	2200 J
Carbon Tetrachloride	1200	Not Detected	7300	Not Detected
2,2,4-Trimethylpentane	1200	Not Detected	5400	Not Detected
Benzene	1200	540 J	3700	1700 J
1,2-Dichloroethane	1200	Not Detected	4700	Not Detected
Heptane	1200	Not Detected	4800	Not Detected
Trichloroethene	1200	Not Detected	6300	Not Detected
1,2-Dichloropropane	1200	Not Detected	5400	Not Detected
1,4-Dioxane	4700	Not Detected	17000	Not Detected
Bromodichloromethane	1200	Not Detected	7800	Not Detected
cis-1,3-Dichloropropene	1200	Not Detected	5300	Not Detected
4-Methyl-2-pentanone	1200	Not Detected	4800	Not Detected
Toluene	1200	Not Detected	4400	Not Detected
trans-1,3-Dichloropropene	1200	Not Detected	5300	Not Detected
1,1,2-Trichloroethane	1200	Not Detected	6400	Not Detected
Tetrachloroethene	1200	Not Detected	7900	Not Detected
2-Hexanone	4700	Not Detected	19000	Not Detected

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Client Sample ID: B30SSV-1102715

Lab ID#: 1510593-01A

EPA METHOD TO-15 GC/MS

File Name:	**14110306**	**Date of Collection:**	**10/27/15 6:01:00 PM**
Dil. Factor:	**233**	**Date of Analysis:**	**11/3/15 11:55 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1200	Not Detected	9900	Not Detected
1,2-Dibromoethane (EDB)	1200	Not Detected	9000	Not Detected
Chlorobenzene	1200	Not Detected	5400	Not Detected
Ethyl Benzene	1200	64000	5000	280000
m,p-Xylene	1200	700000	5000	3000000
o-Xylene	1200	14000	5000	59000
Styrene	1200	Not Detected	5000	Not Detected
Bromoform	1200	Not Detected	12000	Not Detected
Cumene	1200	260 J	5700	1300 J
1,1,2,2-Tetrachloroethane	1200	Not Detected	8000	Not Detected
Propylbenzene	1200	Not Detected	5700	Not Detected
4-Ethyltoluene	1200	Not Detected	5700	Not Detected
1,3,5-Trimethylbenzene	1200	Not Detected	5700	Not Detected
1,2,4-Trimethylbenzene	1200	Not Detected	5700	Not Detected
1,3-Dichlorobenzene	1200	Not Detected	7000	Not Detected
1,4-Dichlorobenzene	1200	Not Detected	7000	Not Detected
alpha-Chlorotoluene	1200	Not Detected	6000	Not Detected
1,2-Dichlorobenzene	1200	Not Detected	7000	Not Detected
1,2,4-Trichlorobenzene	4700	Not Detected	34000	Not Detected
Hexachlorobutadiene	4700	Not Detected	50000	Not Detected
Naphthalene	4700	Not Detected	24000	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/03nov15.b/14110306.d
Lab Smp Id: 1510593-01A
Inj Date : 03-NOV-2015 11:55
Operator : mjs Inst ID: msd14.i
Smp Info : 0.5ml #34158
Misc Info : 4.1"Hg->14.9psi
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/03nov15.b/14550910a.m
Meth Date : 03-Nov-2015 13:39 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1
Dil Factor: 233.00000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	233.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	48845	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	38982			48.38- 108.38	79.81
4.739	4.739 (1.000)	49	80979			122.49- 182.49	165.79
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	223738	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	36851			0.00- 47.28	16.47
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	184666	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	123285			33.96- 93.96	66.76
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	83756	389.258	389.26	80.00- 120.00	100.00(a)
5.382	5.382 (1.136)	67	42697			22.50- 82.50	50.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	237010	400.120	400.12	80.00- 120.00	100.00(a)
7.621	7.621 (1.304)	70	26589			0.00- 42.36	11.22
7.621	7.621 (1.304)	100	149174			36.13- 96.13	62.94
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	103851	392.627	392.63	80.00- 120.00	100.00(a)
10.937	10.951 (1.114)	95	149085			113.45- 173.45	143.56
10.951	10.951 (1.115)	176	99708			68.10- 128.10	96.01
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	1014	2.55827	596.08	80.00- 120.00	100.00(a)
3.577	3.577 (0.755)	43	530			29.53- 89.53	52.31
0.000	3.577 (0.000)	86	0			0.00- 47.08	0.00
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	940	2.76111	643.34	80.00- 120.00	100.00(a)
4.921	4.921 (1.038)	56	1504			89.66- 149.66	160.03
4.921	4.921 (1.038)	41	633			35.66- 95.66	67.42
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	1690	2.31251	538.81	80.00- 120.00	100.00(a)
5.354	5.354 (0.916)	77	319			0.00- 54.57	18.92
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	93119	276.677	64466	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	308074			302.14- 362.14	330.84
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	1217494	2984.99	695500	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	2602226			180.25- 240.25	213.74
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	22350	58.3207	13589	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	50303			199.46- 259.46	225.07
175 Cumene					CAS #: 98-82-8		
10.769	10.783 (1.097)	105	1323	1.10801	258.17	80.00- 120.00	100.00(a)
10.769	10.783 (1.097)	120	245			0.00- 55.22	18.53
10.783	10.783 (1.098)	51	146			0.00- 41.79	11.11

QC Flag Legend

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

Report Date: 04-Nov-2015 07:42

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14110306.d
Lab Smp Id: 1510593-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 4.1"Hg->14.9psi

Calibration Date: 03-NOV-2015
Calibration Time: 08:55

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52541	31525	73557	48845	-7.03
123 1,4-Difluorobenze	234761	140857	328665	223738	-4.70
163 Chlorobenzene-d5	193804	116282	271326	184666	-4.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 04-Nov-2015 07:42

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 03nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-01A
Level: LOW
Operator: mjs
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 4.1"Hg->14.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	389.26	97.31	70-130
$ 146 Toluene-d8	400.00	400.12	100.03	70-130
$ 177 4-Bromofluorobenze	400.00	392.63	98.16	70-130

Data File: /chem/msd14.i/03nov15.b/14110306.d

Page 1

Date : 03-NOV-2015 11:55

Client ID:

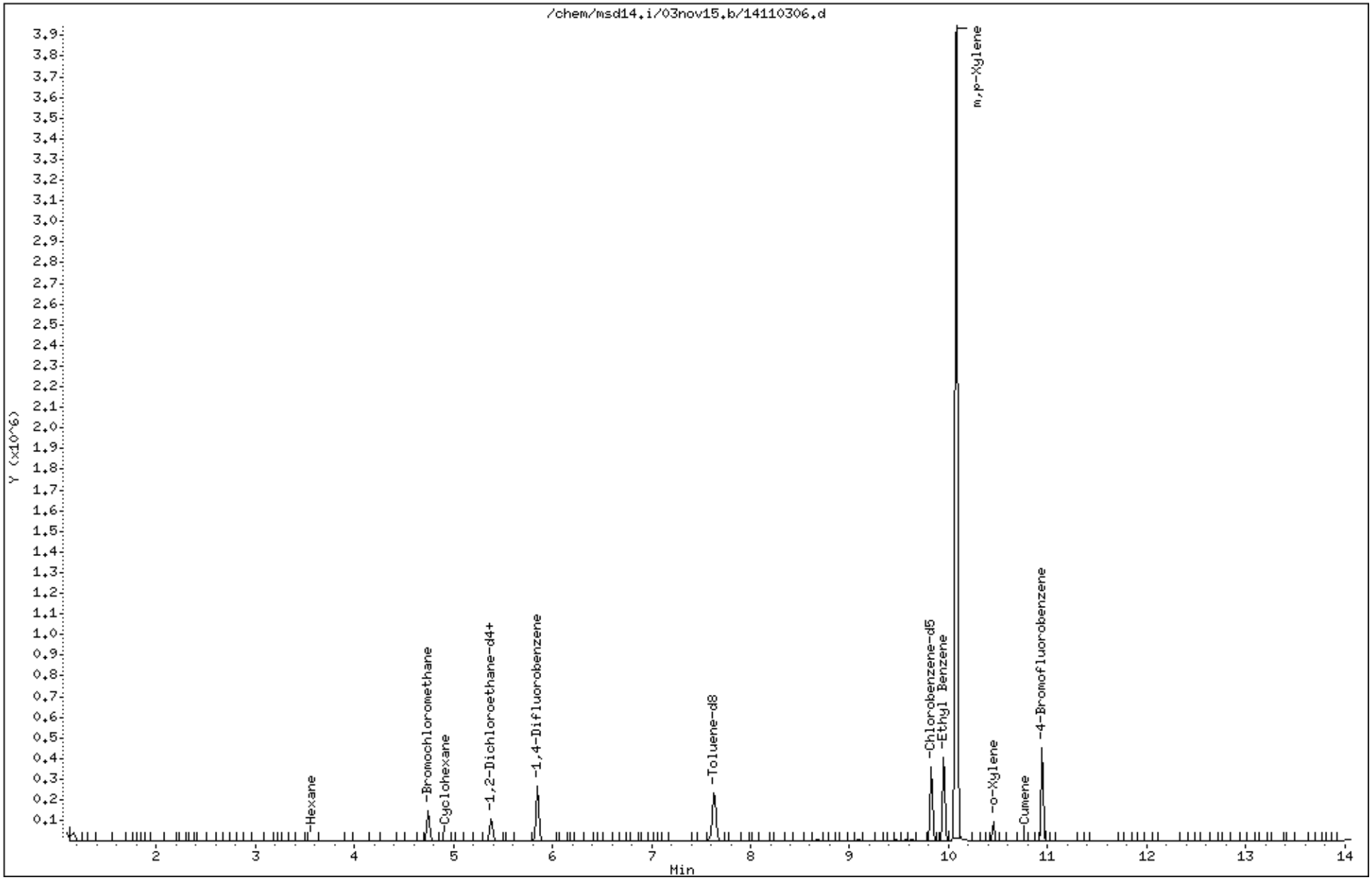
Instrument: msd14.i

Sample Info: 0.5ml #34158

Operator: mjs

Column phase: RTX-624

Column diameter: 0.18



Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

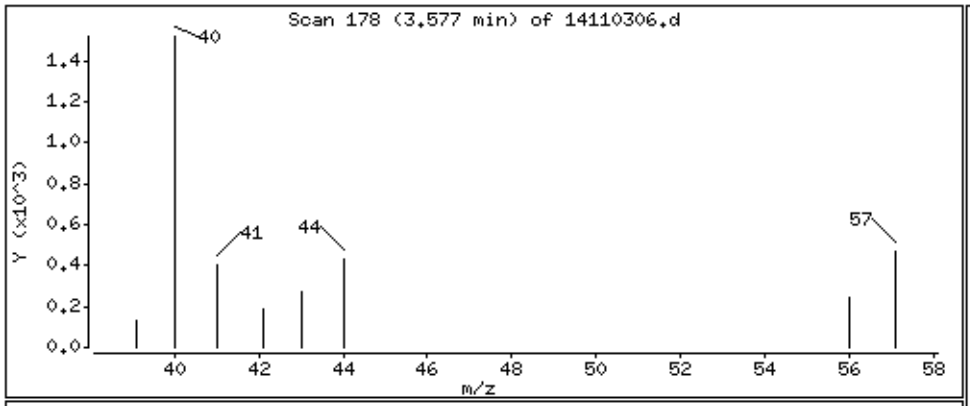
Operator: mjs

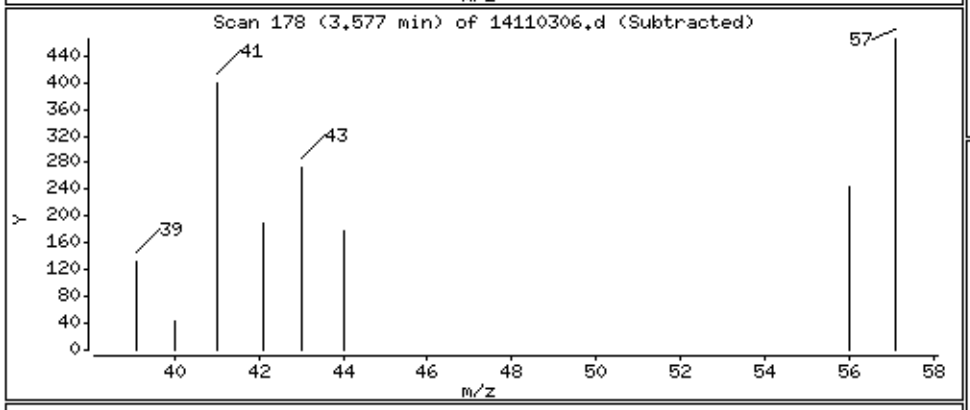
Column phase: RTX-624

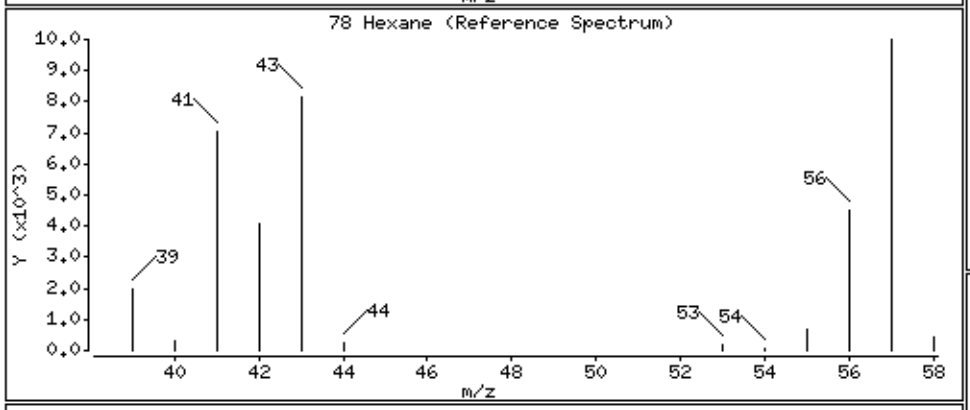
Column diameter: 0.18

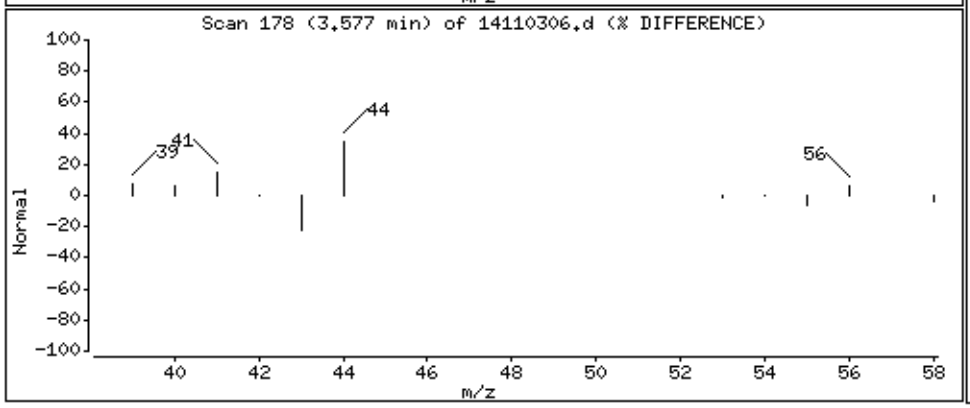
78 Hexane

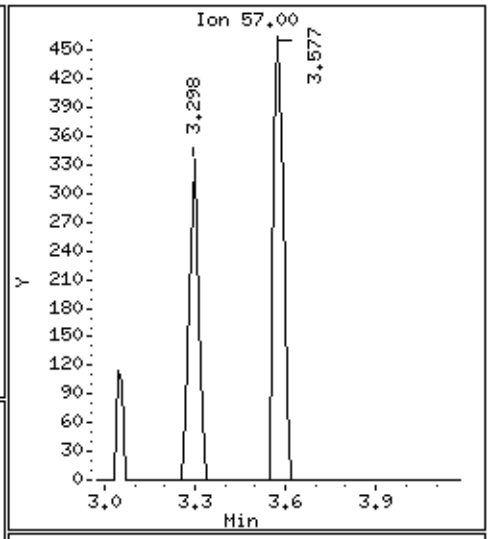
Concentration: 596.08 PPBV

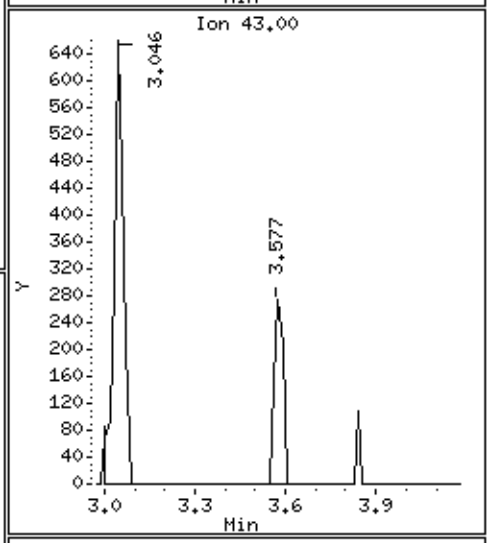


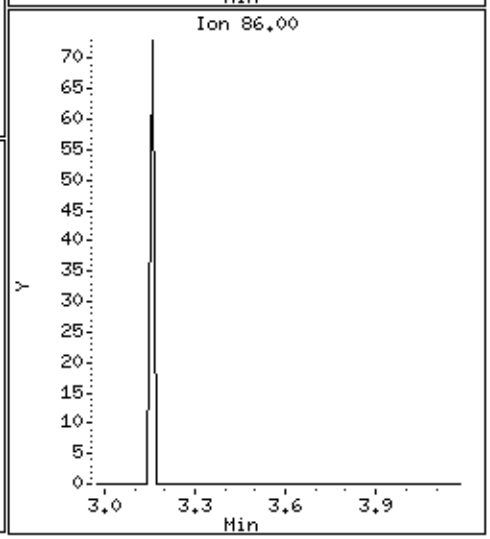












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

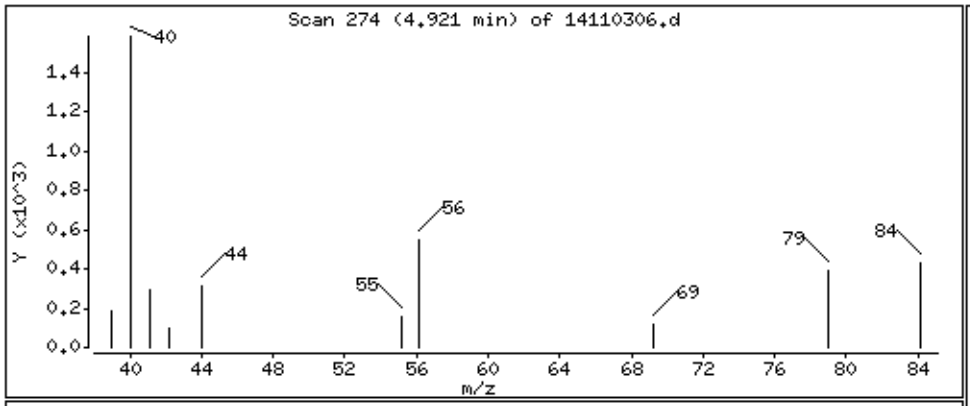
Operator: mjs

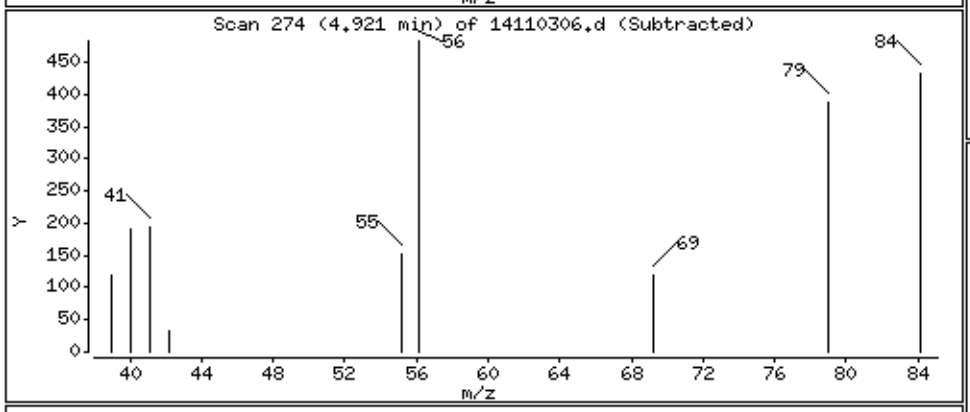
Column phase: RTX-624

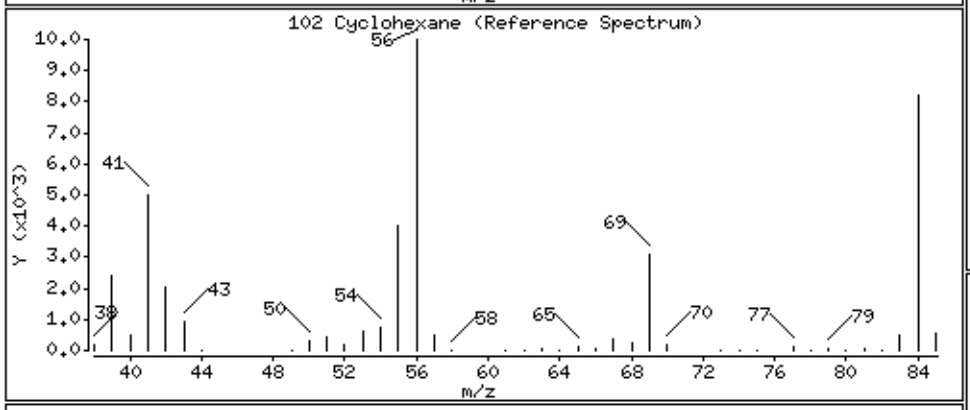
Column diameter: 0.18

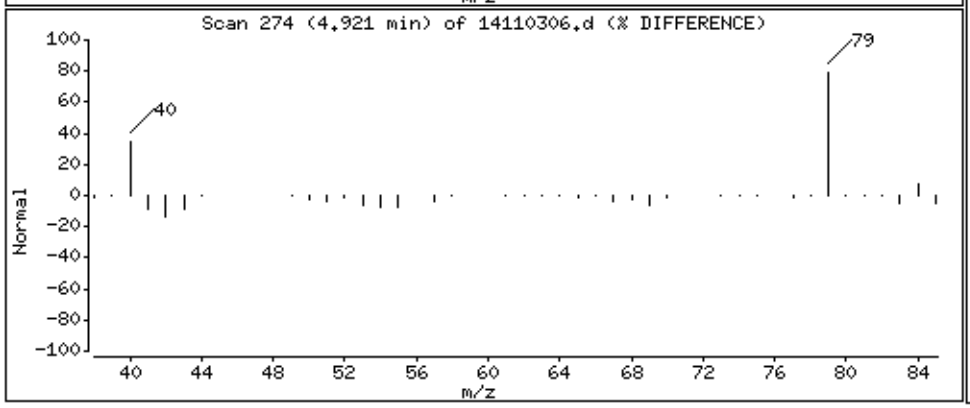
102 Cyclohexane

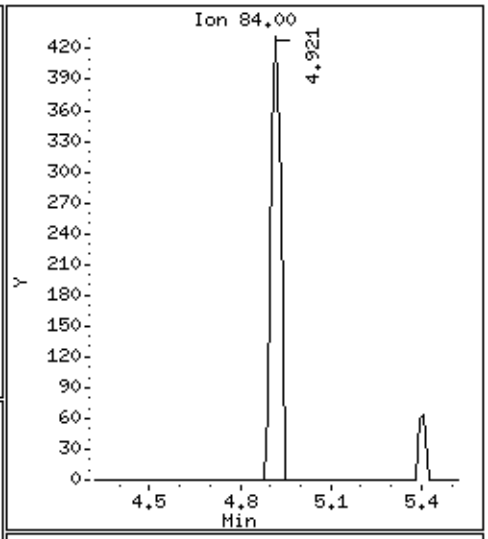
Concentration: 643.34 PPBV

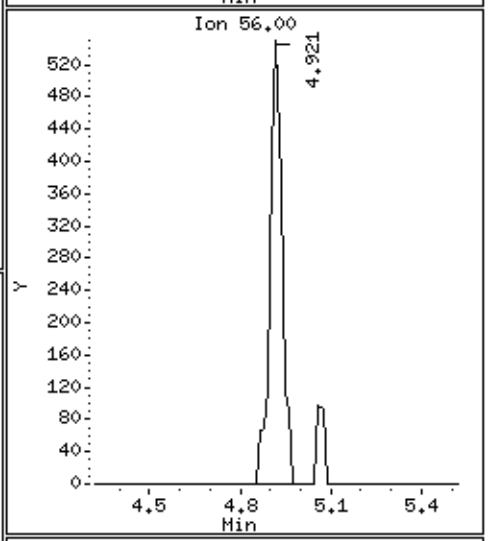


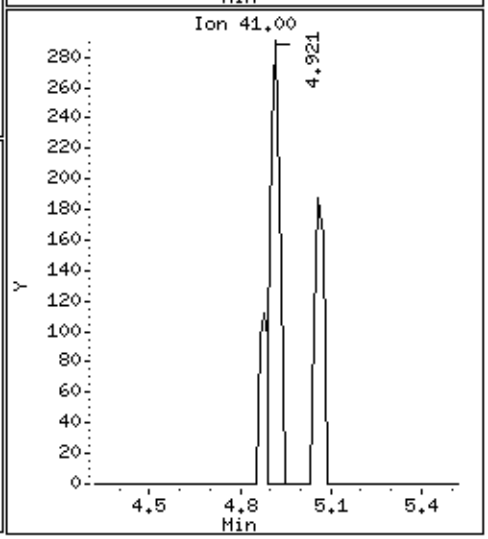












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

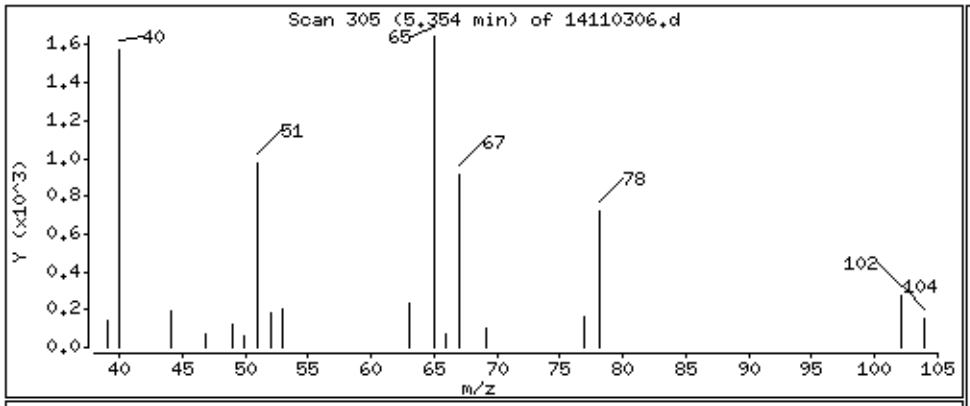
Operator: mjs

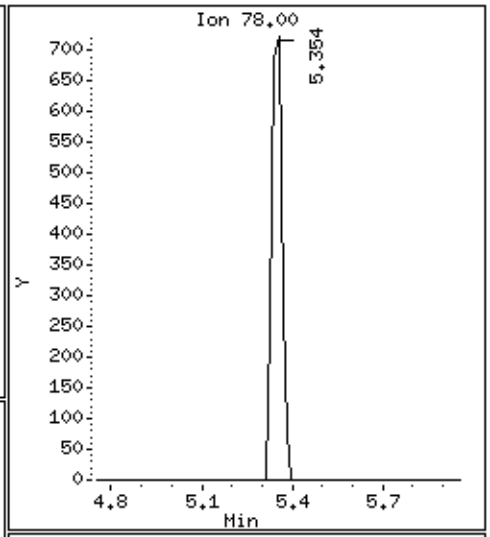
Column phase: RTX-624

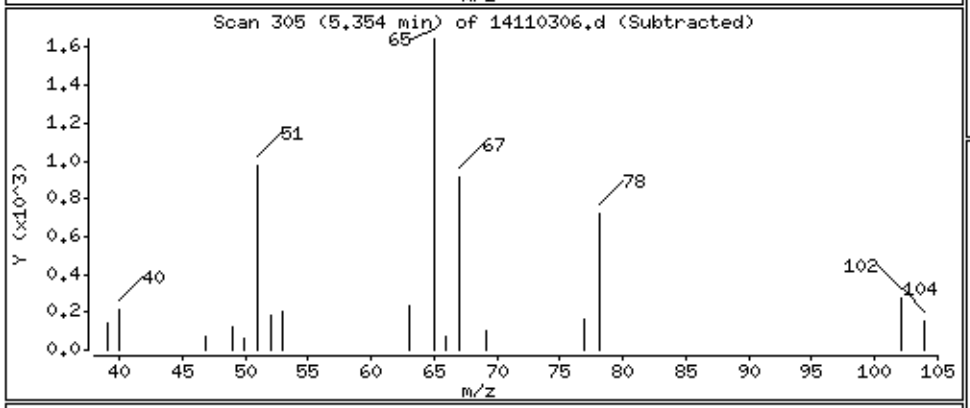
Column diameter: 0.18

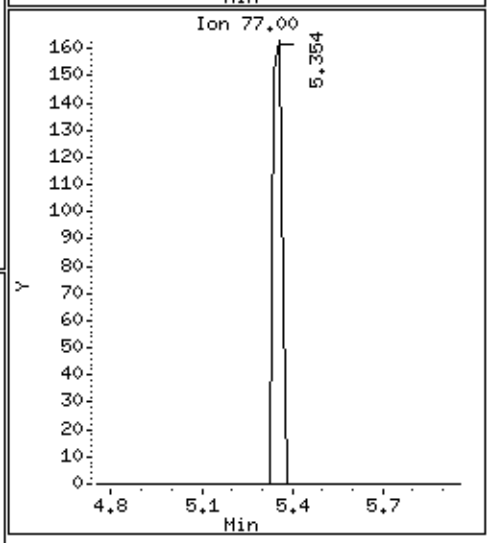
116 Benzene

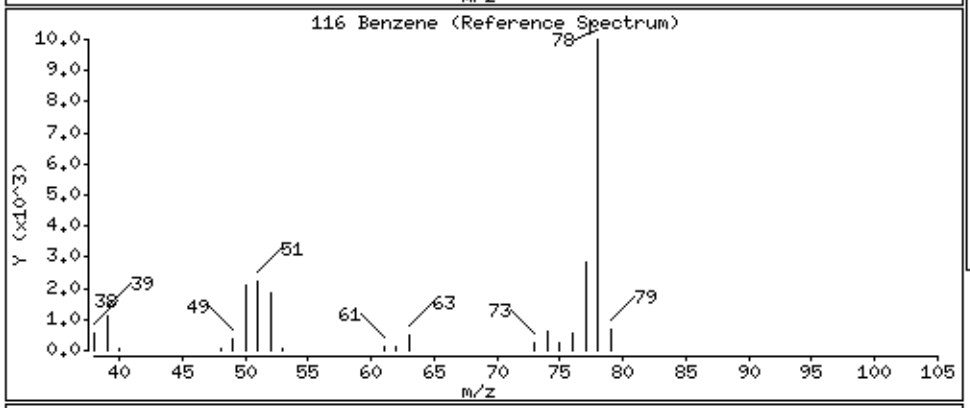
Concentration: 538.81 PPBV

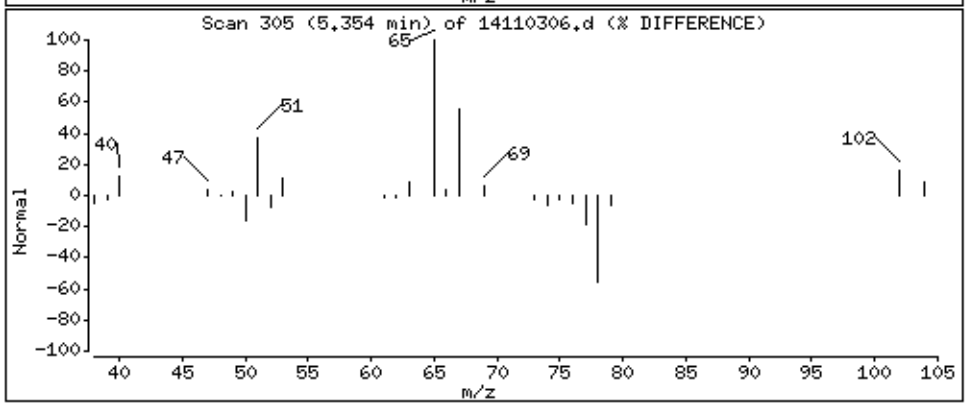












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

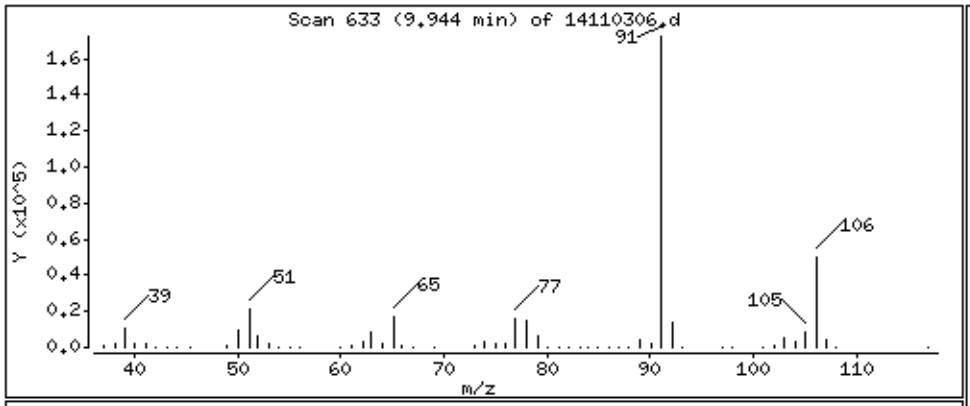
Operator: mjs

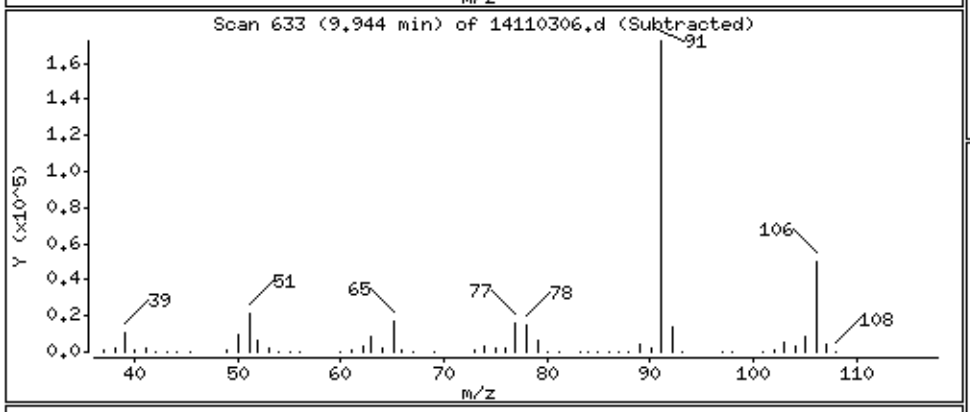
Column phase: RTX-624

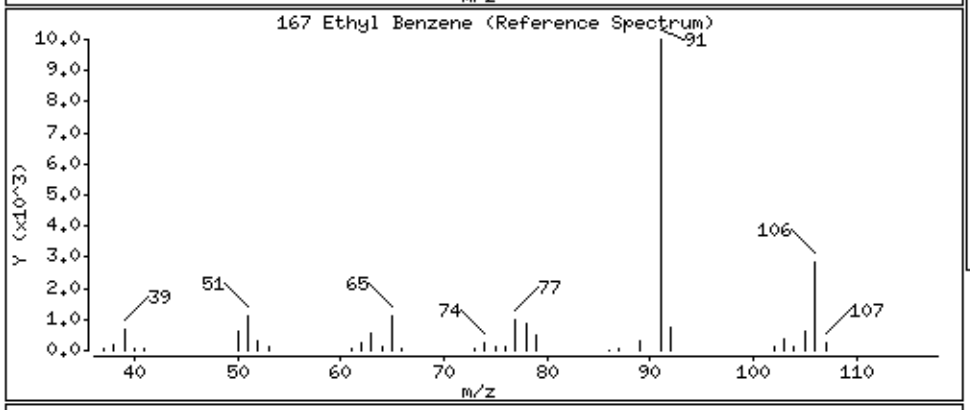
Column diameter: 0.18

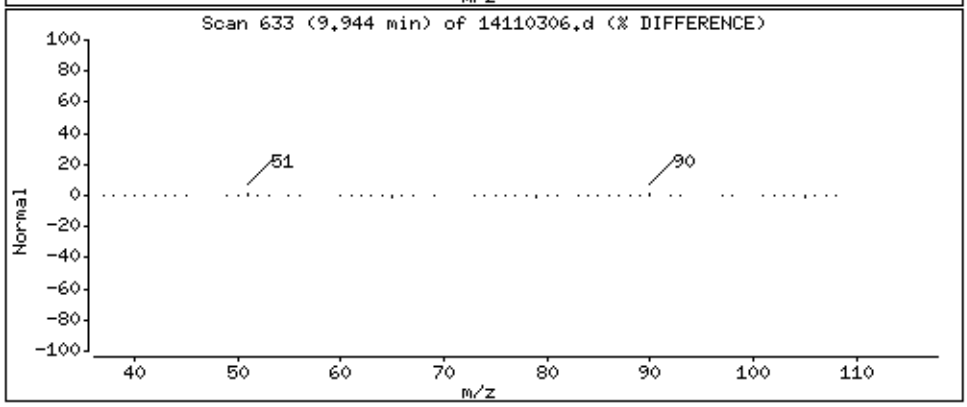
167 Ethyl Benzene

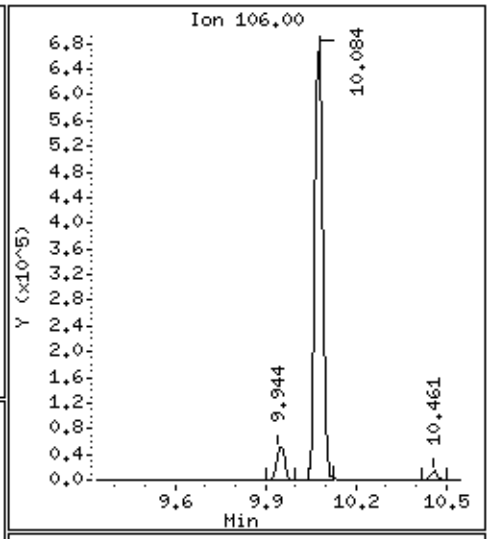
Concentration: 64466 PPBV

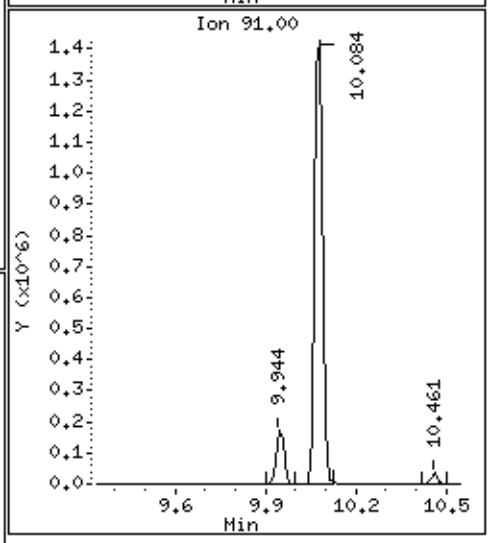












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

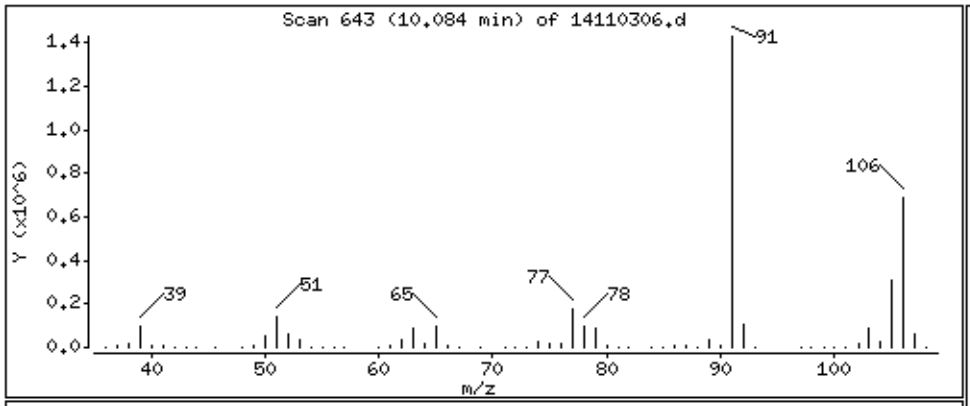
Operator: mjs

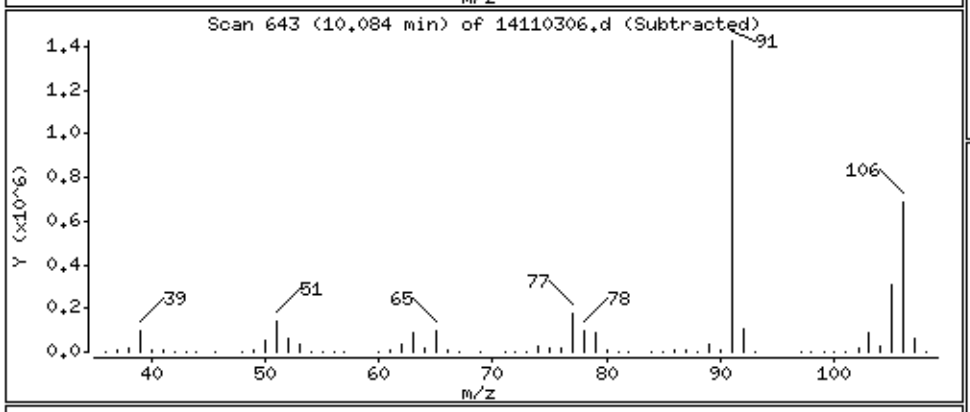
Column phase: RTX-624

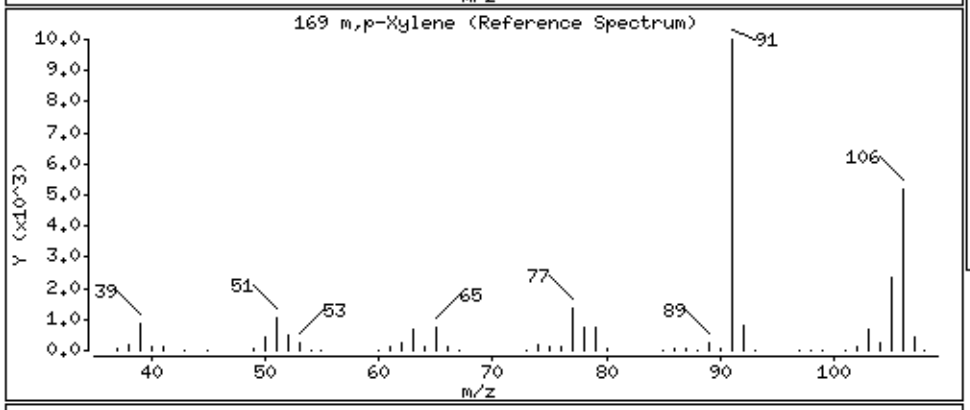
Column diameter: 0.18

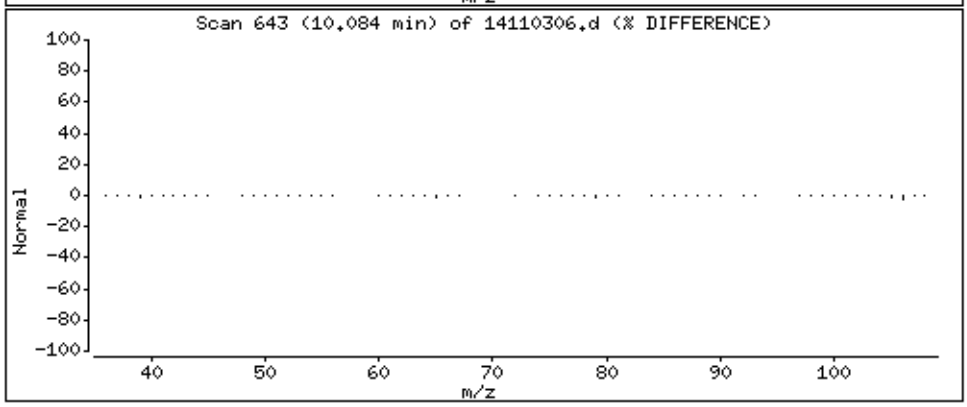
169 m,p-Xylene

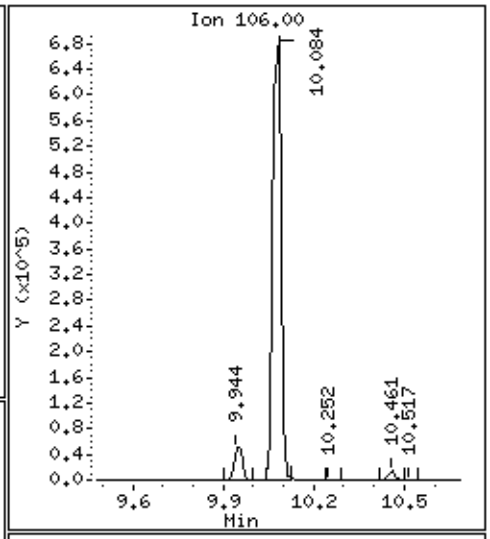
Concentration: 695500 PPBV

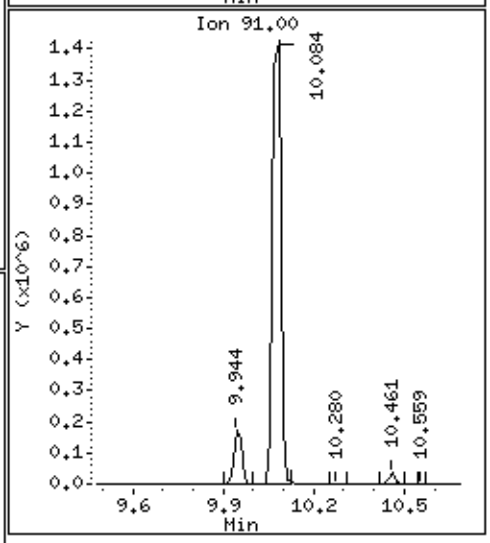












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

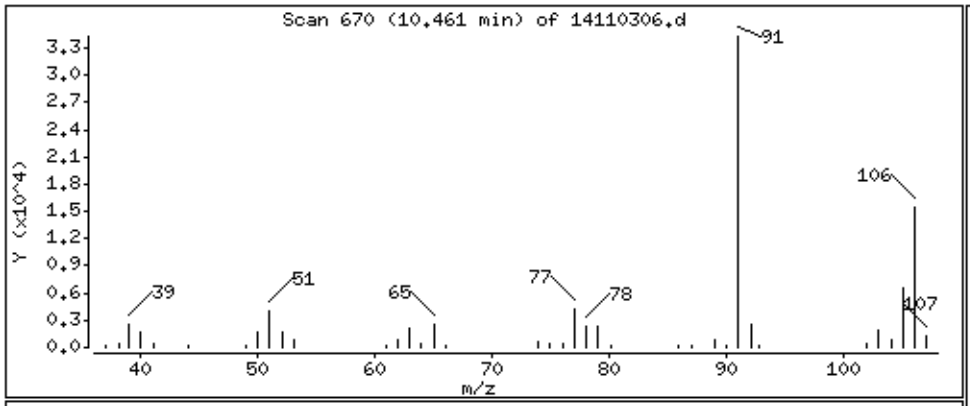
Operator: mjs

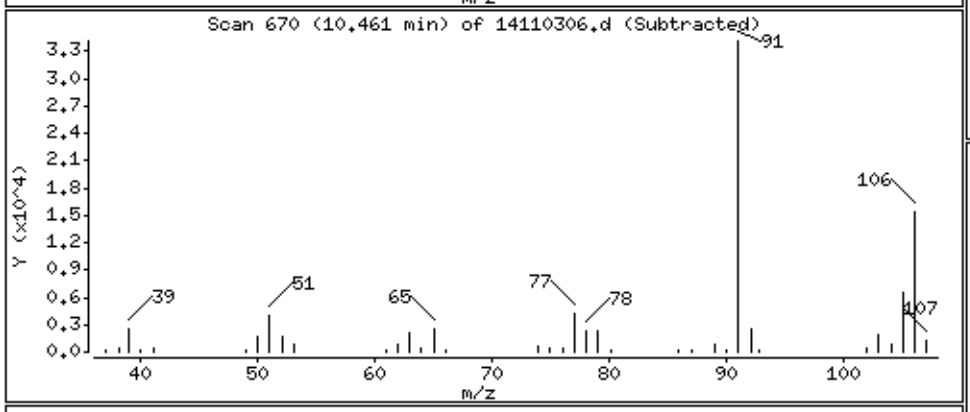
Column phase: RTX-624

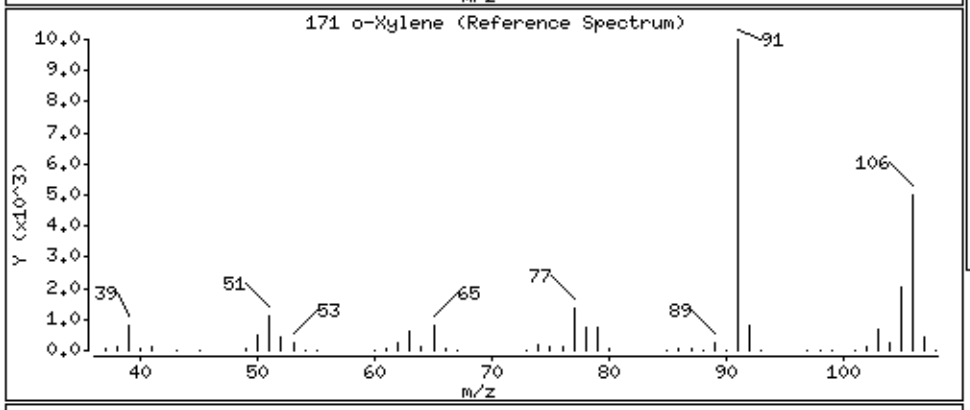
Column diameter: 0.18

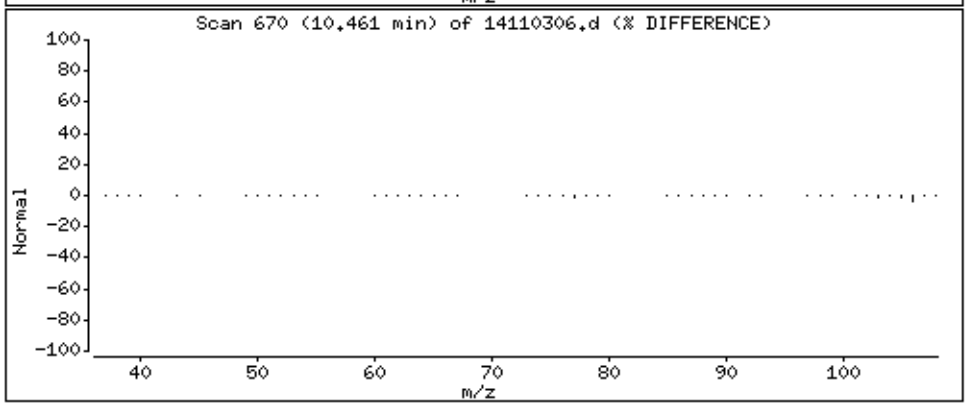
171 o-Xylene

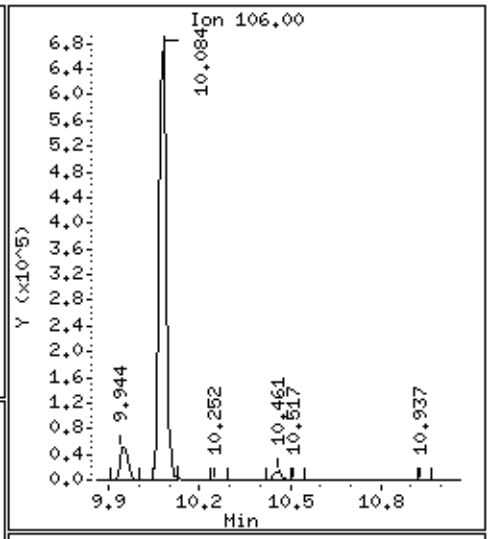
Concentration: 13589 PPBV

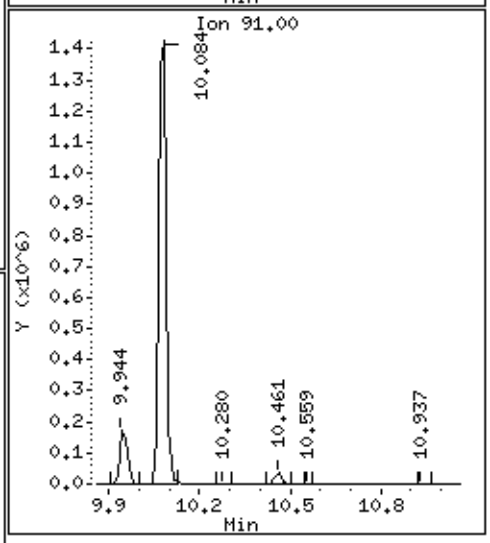












Data File: /chem/msd14.i/03nov15.b/14110306.d

Date : 03-NOV-2015 11:55

Client ID:

Instrument: msd14.i

Sample Info: 0.5ml #34158

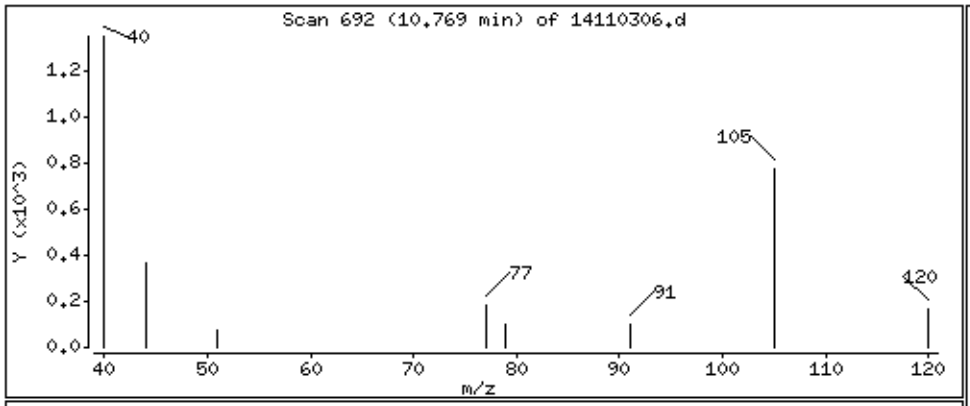
Operator: mjs

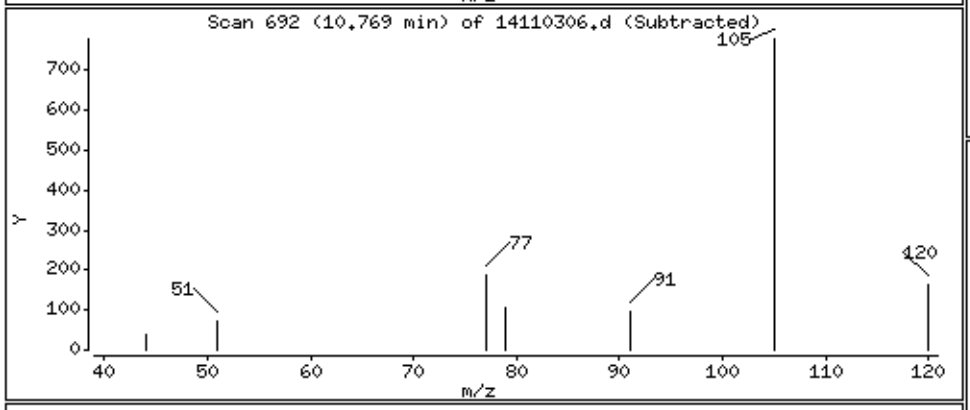
Column phase: RTX-624

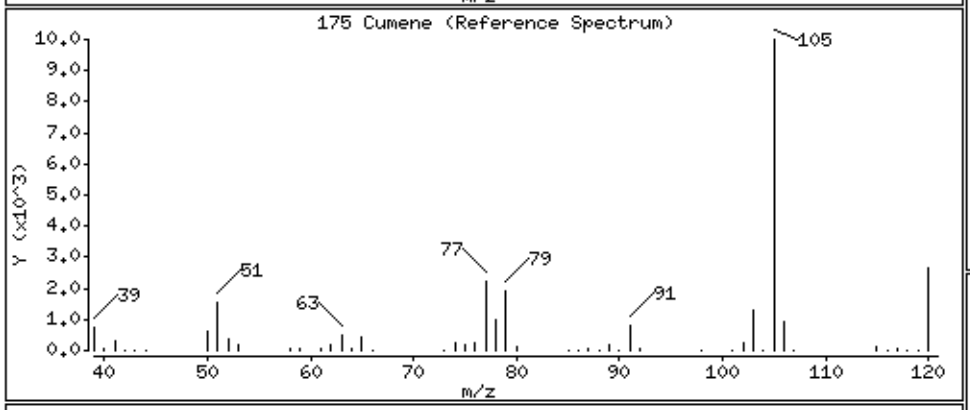
Column diameter: 0.18

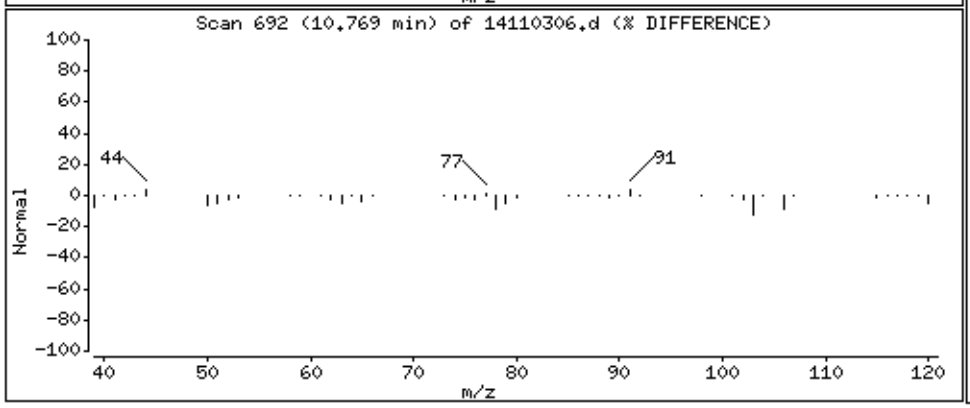
175 Cumene

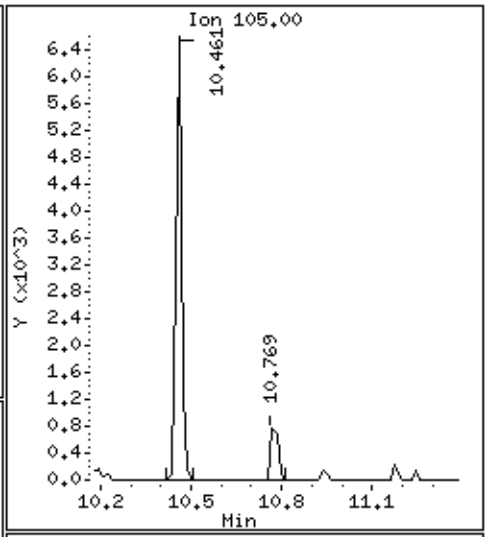
Concentration: 258.17 PPBV

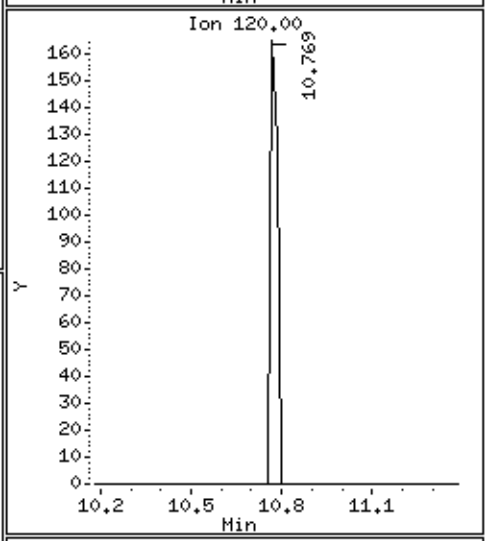


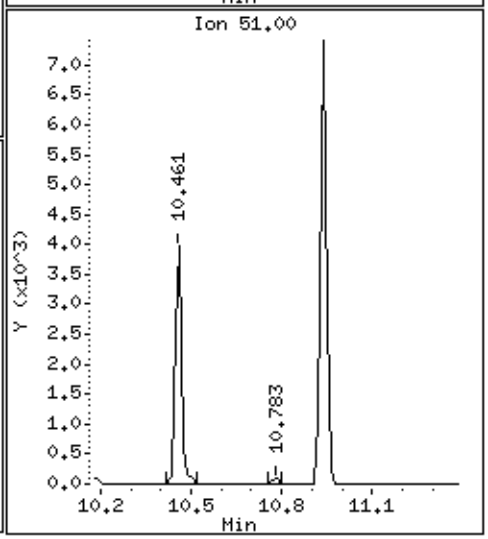












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B30SSV-2102715

Lab ID#: 1510593-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	18	40	34	75
Acetone	46	19 J	110	46 J
2-Propanol	18	9.8 J	45	24 J
Carbon Disulfide	18	2.8 J	57	8.6 J
Methyl tert-butyl ether	4.6	1.2 J	16	4.4 J
Hexane	4.6	18	16	64
2-Butanone (Methyl Ethyl Ketone)	18	3.5 J	54	10 J
cis-1,2-Dichloroethene	4.6	2.2 J	18	8.8 J
2,2,4-Trimethylpentane	4.6	26	21	120
Benzene	4.6	60	15	190
Heptane	4.6	4.2 J	19	17 J
Trichloroethene	4.6	1.4 J	25	7.7 J
4-Methyl-2-pentanone	4.6	1.6 J	19	6.7 J
Toluene	4.6	2.4 J	17	9.1 J
Chlorobenzene	4.6	2.8 J	21	13 J
Ethyl Benzene	4.6	3.2 J	20	14 J
m,p-Xylene	4.6	8.6	20	37
o-Xylene	4.6	3.0 J	20	13 J
Cumene	4.6	1.4 J	22	7.1 J

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Client Sample ID: B30SSV-2102715

Lab ID#: 1510593-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110227**	**Date of Collection:**	**10/27/15 3:53:00 PM**
Dil. Factor:	**9.16**	**Date of Analysis:**	**11/3/15 01:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.6	Not Detected	23	Not Detected
Freon 114	4.6	Not Detected	32	Not Detected
Chloromethane	46	Not Detected	94	Not Detected
Vinyl Chloride	4.6	Not Detected	12	Not Detected
1,3-Butadiene	4.6	Not Detected	10	Not Detected
Bromomethane	46	Not Detected	180	Not Detected
Chloroethane	18	Not Detected	48	Not Detected
Freon 11	4.6	Not Detected	26	Not Detected
Ethanol	18	40	34	75
Freon 113	4.6	Not Detected	35	Not Detected
1,1-Dichloroethene	4.6	Not Detected	18	Not Detected
Acetone	46	19 J	110	46 J
2-Propanol	18	9.8 J	45	24 J
Carbon Disulfide	18	2.8 J	57	8.6 J
3-Chloropropene	18	Not Detected	57	Not Detected
Methylene Chloride	46	Not Detected	160	Not Detected
Methyl tert-butyl ether	4.6	1.2 J	16	4.4 J
trans-1,2-Dichloroethene	4.6	Not Detected	18	Not Detected
Hexane	4.6	18	16	64
1,1-Dichloroethane	4.6	Not Detected	18	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18	3.5 J	54	10 J
cis-1,2-Dichloroethene	4.6	2.2 J	18	8.8 J
Tetrahydrofuran	4.6	Not Detected	14	Not Detected
Chloroform	4.6	Not Detected	22	Not Detected
1,1,1-Trichloroethane	4.6	Not Detected	25	Not Detected
Cyclohexane	4.6	Not Detected	16	Not Detected
Carbon Tetrachloride	4.6	Not Detected	29	Not Detected
2,2,4-Trimethylpentane	4.6	26	21	120
Benzene	4.6	60	15	190
1,2-Dichloroethane	4.6	Not Detected	18	Not Detected
Heptane	4.6	4.2 J	19	17 J
Trichloroethene	4.6	1.4 J	25	7.7 J
1,2-Dichloropropane	4.6	Not Detected	21	Not Detected
1,4-Dioxane	18	Not Detected	66	Not Detected
Bromodichloromethane	4.6	Not Detected	31	Not Detected
cis-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
4-Methyl-2-pentanone	4.6	1.6 J	19	6.7 J
Toluene	4.6	2.4 J	17	9.1 J
trans-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
1,1,2-Trichloroethane	4.6	Not Detected	25	Not Detected
Tetrachloroethene	4.6	Not Detected	31	Not Detected
2-Hexanone	18	Not Detected	75	Not Detected

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Client Sample ID: B30SSV-2102715

Lab ID#: 1510593-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110227**	**Date of Collection:**	**10/27/15 3:53:00 PM**
Dil. Factor:	**9.16**	**Date of Analysis:**	**11/3/15 01:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	4.6	Not Detected	39	Not Detected
1,2-Dibromoethane (EDB)	4.6	Not Detected	35	Not Detected
Chlorobenzene	4.6	2.8 J	21	13 J
Ethyl Benzene	4.6	3.2 J	20	14 J
m,p-Xylene	4.6	8.6	20	37
o-Xylene	4.6	3.0 J	20	13 J
Styrene	4.6	Not Detected	20	Not Detected
Bromoform	4.6	Not Detected	47	Not Detected
Cumene	4.6	1.4 J	22	7.1 J
1,1,2,2-Tetrachloroethane	4.6	Not Detected	31	Not Detected
Propylbenzene	4.6	Not Detected	22	Not Detected
4-Ethyltoluene	4.6	Not Detected	22	Not Detected
1,3,5-Trimethylbenzene	4.6	Not Detected	22	Not Detected
1,2,4-Trimethylbenzene	4.6	Not Detected	22	Not Detected
1,3-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,4-Dichlorobenzene	4.6	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.6	Not Detected	24	Not Detected
1,2-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	18	Not Detected	140	Not Detected
Hexachlorobutadiene	18	Not Detected	200	Not Detected
Naphthalene	9.2	Not Detected	48	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110227.d
Lab Smp Id: 1510593-02A
Inj Date : 03-NOV-2015 01:08
Operator : js Inst ID: msd3.i
Smp Info : 50ml 1L2742
Misc Info : 3.9 Hg->14.6 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 11
Dil Factor: 9.16000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	9.16000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	102848	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	78672			42.88- 102.88	76.49
5.592	5.592 (1.000)	49	290785			207.65- 267.65	282.73
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	445989	25.0000		80.00- 120.00	100.00
6.488	6.474 (1.000)	88	74469			0.00- 45.78	16.70
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	437072	25.0000		80.00- 120.00	100.00
8.942	8.934 (1.000)	82	467754			26.67- 86.67	107.02
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	237094	26.3872	26.387	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	105727			22.68- 82.68	44.59

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.702	7.702	(1.187)	98	480287	25.0861	25.086	80.00- 120.00	100.00
7.702	7.702	(1.187)	70	61143			0.00- 41.75	12.73
7.702	7.702	(1.187)	100	312695			34.13- 94.13	65.11
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
9.930	9.923	(1.111)	174	262927	24.3559	24.356	80.00- 120.00	100.00
9.930	9.923	(1.111)	95	359154			96.73- 156.73	136.60
9.930	9.923	(1.111)	176	252591			65.47- 125.47	96.07
42 Ethanol						CAS #: 64-17-5		
3.074	3.074	(0.550)	45	11608	4.36129	39.949	80.00- 120.00	100.00
3.074	3.074	(0.550)	43	2093			0.00- 51.11	18.03
3.074	3.060	(0.550)	46	5198			10.70- 70.70	44.78
52 Acetone						CAS #: 67-64-1		
3.563	3.549	(0.637)	58	5982	2.11341	19.359	80.00- 120.00	100.00(a)
3.563	3.549	(0.637)	43	25948			351.83- 411.83	433.72
56 Carbon Disulfide						CAS #: 75-15-0		
3.633	3.633	(0.650)	76	3145	0.30290	2.774	80.00- 120.00	100.00(a)
57 2-Propanol						CAS #: 67-63-0		
3.731	3.717	(0.667)	45	12808	1.06968	9.798	80.00- 120.00	100.00(a)
3.731	3.717	(0.667)	43	2264			0.00- 48.10	17.68
3.703	3.717	(0.662)	59	819			0.00- 33.34	6.40
72 Methyl tert-butyl ether						CAS #: 1634-04-4		
4.277	4.277	(0.765)	73	1687	0.13436	1.231	80.00- 120.00	100.00(a)
4.319	4.277	(0.772)	57	476			2.00- 62.00	28.21
4.319	4.263	(0.772)	41	1232			3.65- 63.65	73.03
78 Hexane						CAS #: 110-54-3		
4.501	4.501	(0.805)	57	19249	1.98709	18.202	80.00- 120.00	100.00
4.501	4.501	(0.805)	43	15170			44.95- 104.95	78.81
4.515	4.501	(0.807)	86	2894			0.00- 40.12	15.04
91 cis-1,2-Dichloroethene						CAS #: 156-59-2		
5.368	5.368	(0.960)	98	693	0.24209	2.218	80.00- 120.00	100.00(a)
5.368	5.368	(0.960)	96	2036			121.93- 181.93	293.80
5.368	5.354	(0.960)	61	2515			268.28- 328.28	362.78
92 2-Butanone						CAS #: 78-93-3		
5.410	5.396	(0.967)	72	748	0.38285	3.507	80.00- 120.00	100.00(a)
5.396	5.382	(0.965)	43	5595			717.19- 777.19	747.20
5.396	5.396	(0.965)	57	1179			21.09- 81.09	157.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.082 (1.090)	57	95699	2.85660	26.166	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	40038			2.46- 62.46	41.84
6.082	6.082 (1.088)	41	44343			0.00- 55.56	46.34
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	80482	6.52508	59.770	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	19626			0.00- 54.02	24.39
121 Heptane					CAS #: 142-82-5		
6.264	6.250 (0.965)	71	2153	0.45320	4.151	80.00- 120.00	100.00(a)
6.250	6.250 (0.963)	43	4681			309.54- 369.54	217.35
6.250	6.250 (0.963)	57	1783			143.16- 203.16	82.80
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.678 (1.030)	95	974	0.15687	1.437	80.00- 120.00	100.00(a)
6.685	6.678 (1.030)	130	285			68.86- 128.86	29.31
6.700	6.678 (1.033)	97	1316			32.82- 92.82	135.17
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.631 (1.177)	58	1293	0.17979	1.647	80.00- 120.00	100.00(a)
7.609	7.631 (1.173)	43	10377			274.73- 334.73	802.31
7.638	7.631 (1.177)	85	114			0.00- 58.76	8.88
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	4491	0.26287	2.408	80.00- 120.00	100.00(a)
7.767	7.760 (1.197)	92	2305			27.05- 87.05	51.33
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	4555	0.30867	2.827	80.00- 120.00	100.00(a)
8.963	8.963 (1.002)	114	425			2.26- 62.26	9.34
8.949	8.963 (1.001)	77	26729			30.55- 90.55	586.77
167 Ethyl Benzene					CAS #: 100-41-4		
9.006	9.006 (1.007)	106	2663	0.35480	3.250	80.00- 120.00	100.00(a)
9.013	9.006 (1.008)	91	13272			294.90- 354.90	498.34
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	8831	0.93660	8.579	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	24035			185.23- 245.23	272.16
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	3024	0.33008	3.024	80.00- 120.00	100.00(a)
9.457	9.450 (1.058)	91	6071			194.61- 254.61	200.75
175 Cumene					CAS #: 98-82-8		
9.744	9.737 (1.090)	105	4579	0.15764	1.444	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
9.751	9.737 (1.091)	120	1039			0.00- 56.11	22.71
9.730	9.737 (1.088)	51	711			0.00- 46.14	15.53

QC Flag Legend

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

Report Date: 04-Nov-2015 08:46

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110227.d
Lab Smp Id: 1510593-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.9 Hg->14.6 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	102848	-6.30
123 1,4-Difluorobenze	462095	277257	646933	445989	-3.49
163 Chlorobenzene-d5	458379	275027	641731	437072	-4.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 04-Nov-2015 08:46

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-02A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.9 Hg->14.6 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.387	105.55	70-130
$ 146 Toluene-d8	25.000	25.086	100.34	70-130
$ 177 4-Bromofluorobenze	25.000	24.356	97.42	70-130

Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

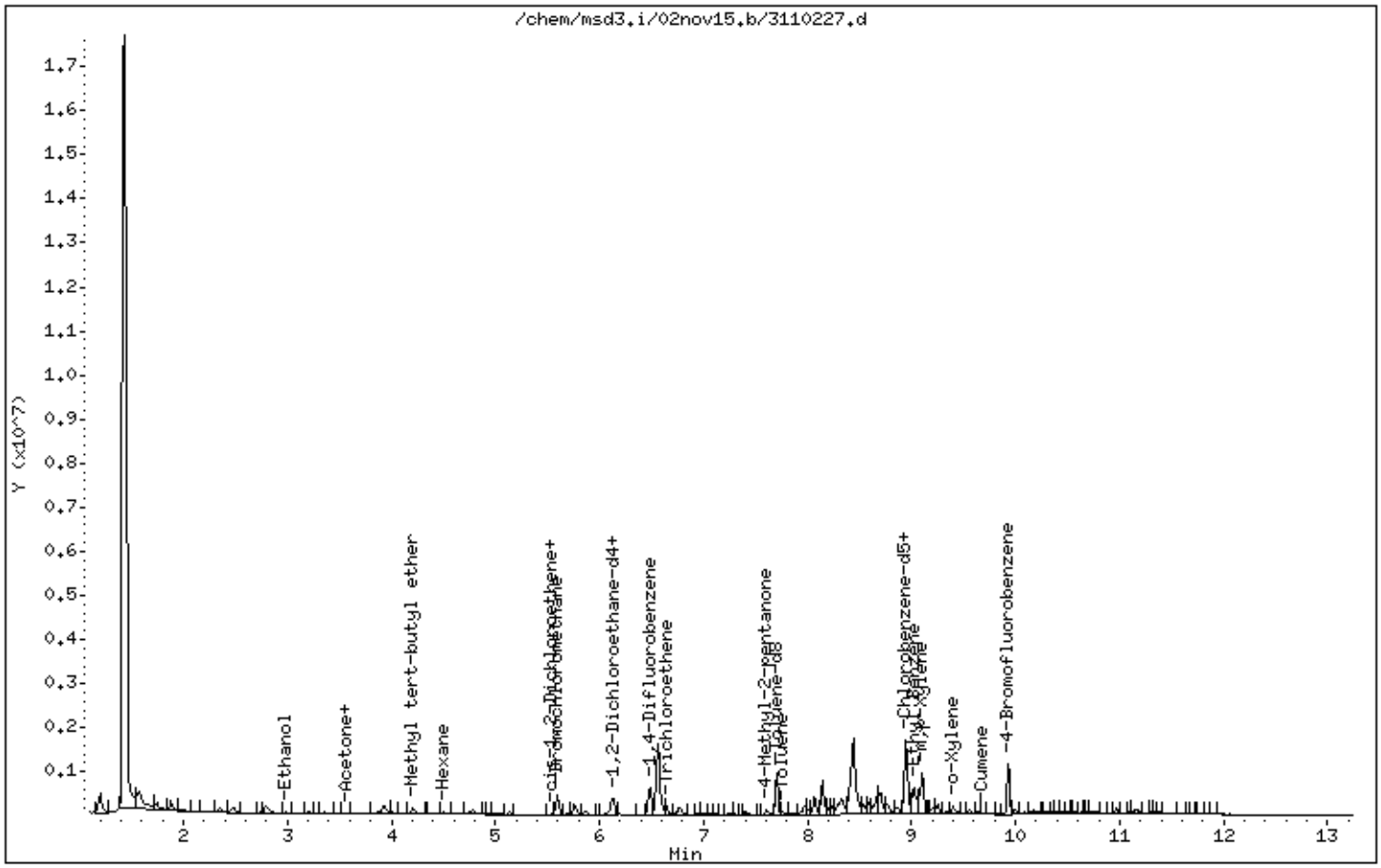
Instrument: msd3.i

Sample Info: 50ml 1L2742

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

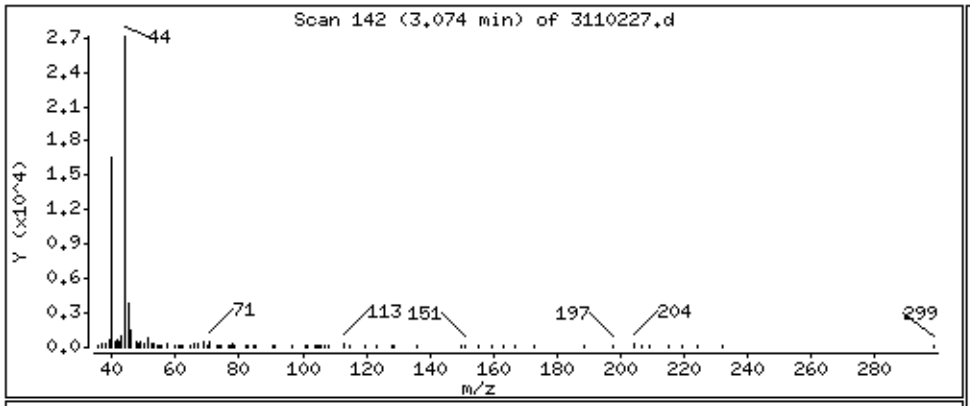
Operator: js

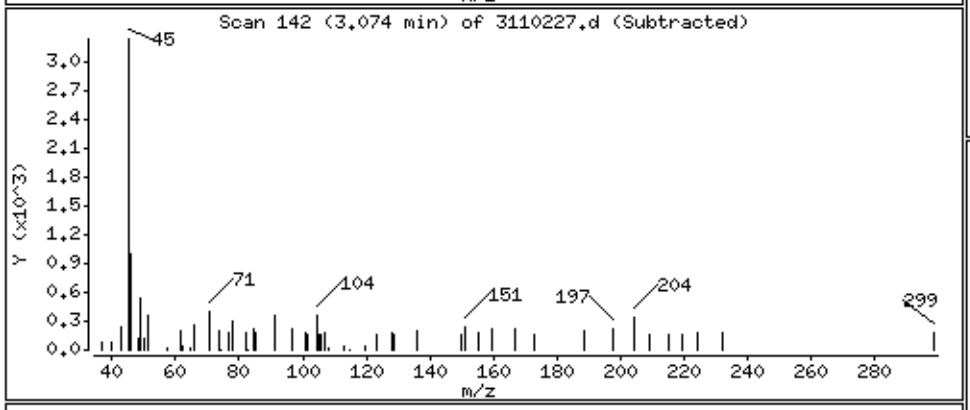
Column phase: RTX-624

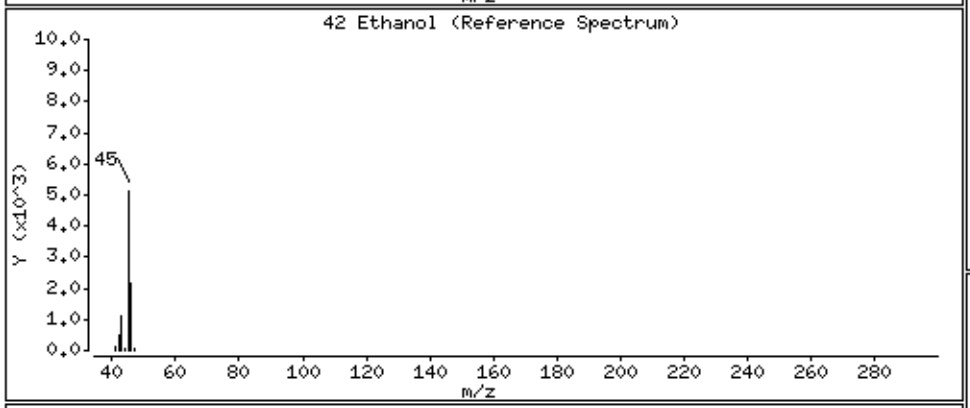
Column diameter: 0.25

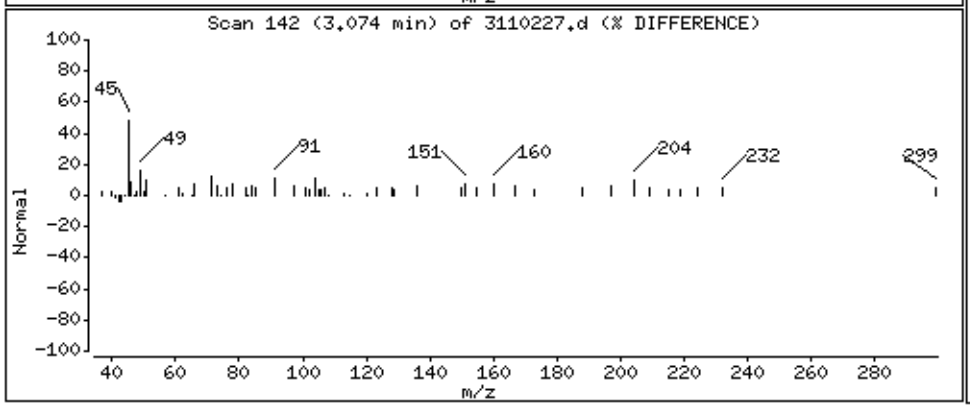
42 Ethanol

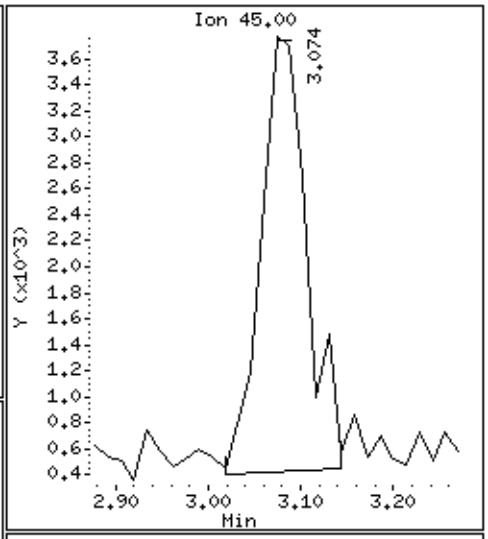
Concentration: 39.949 PPBV

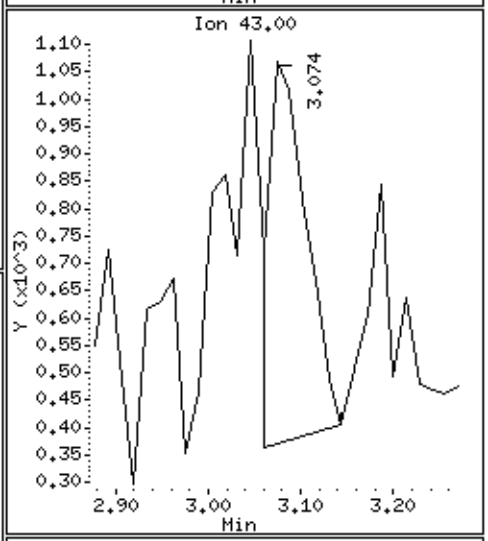


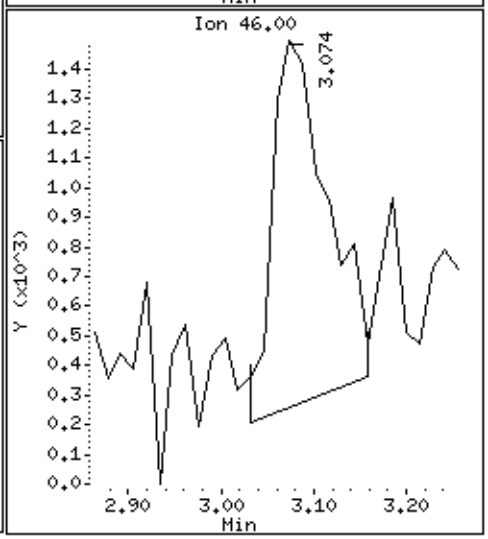












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

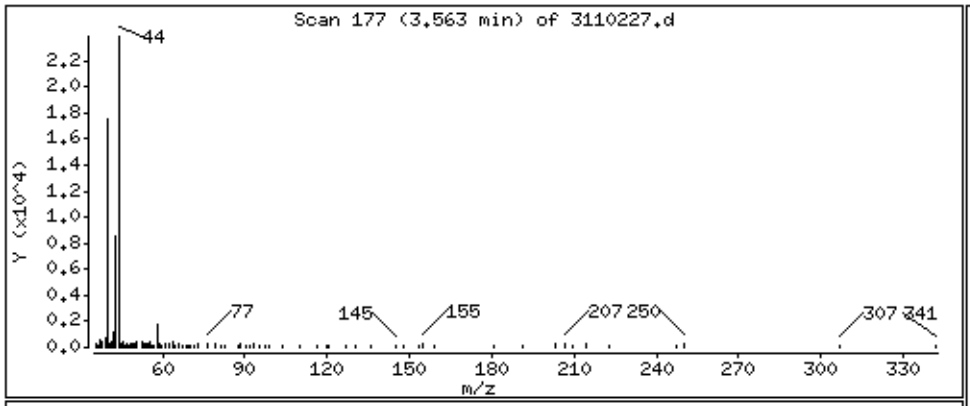
Operator: js

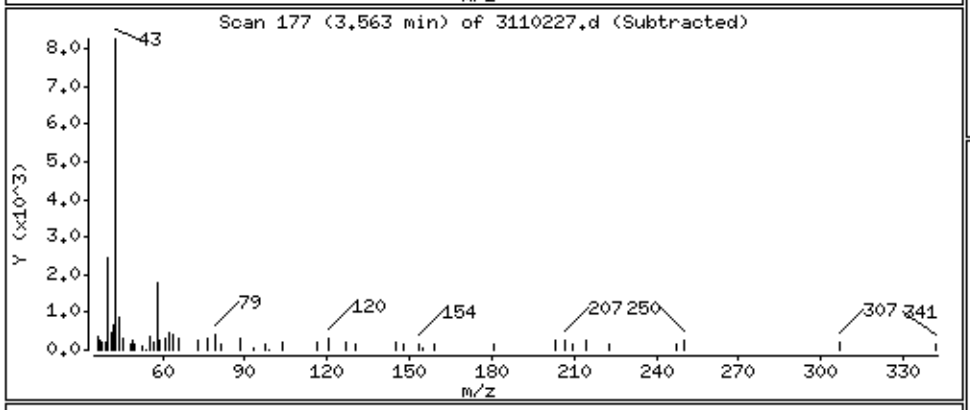
Column phase: RTX-624

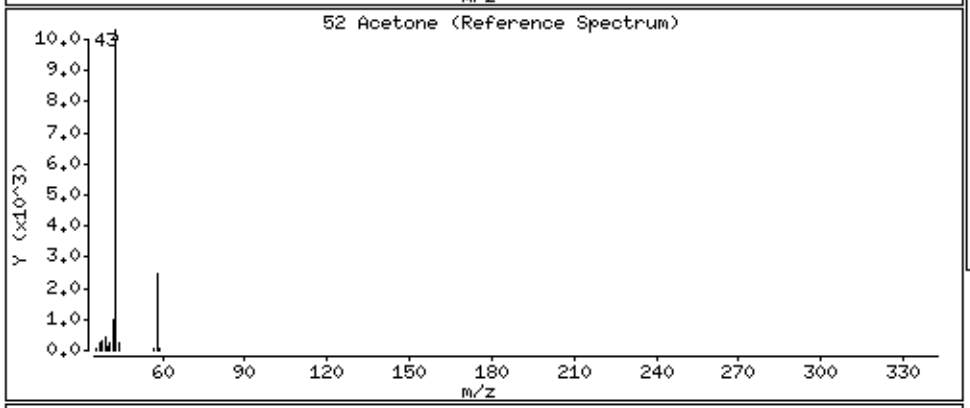
Column diameter: 0.25

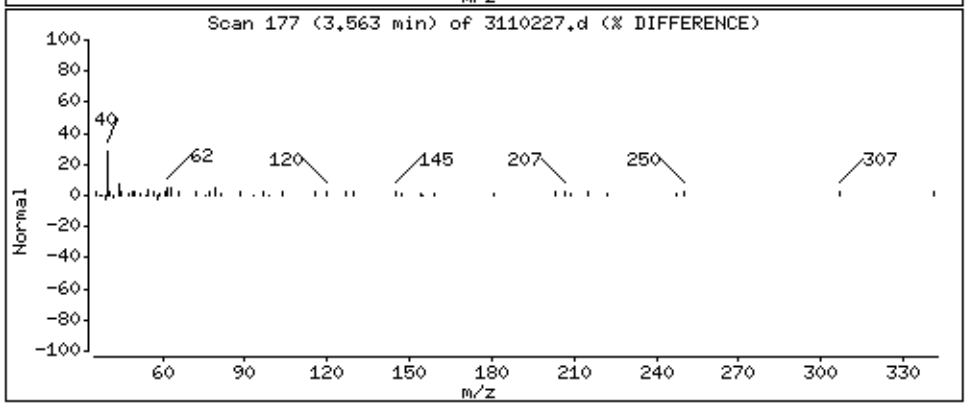
52 Acetone

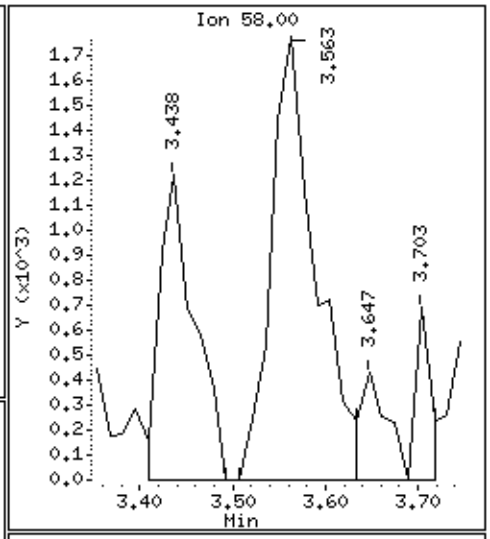
Concentration: 19.359 PPBV

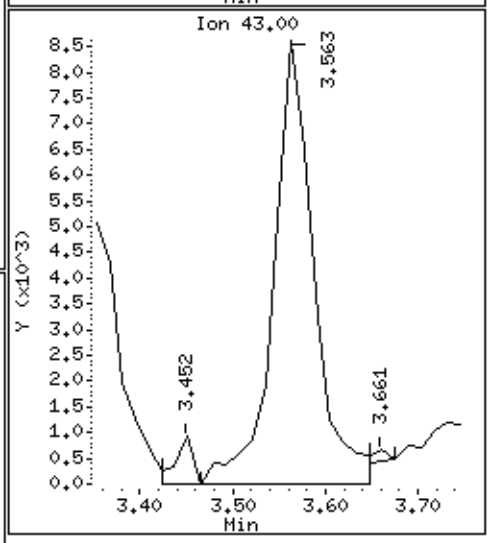












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

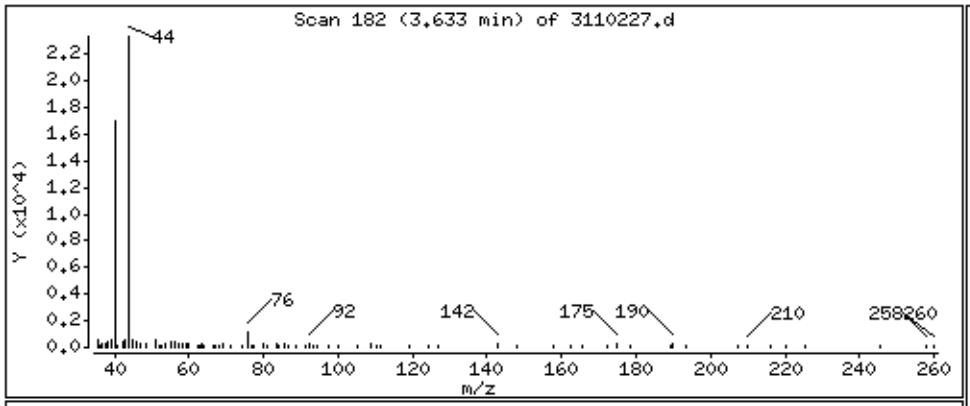
Operator: js

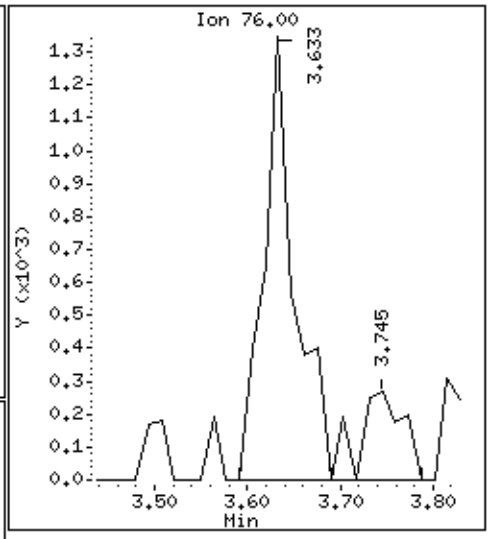
Column phase: RTX-624

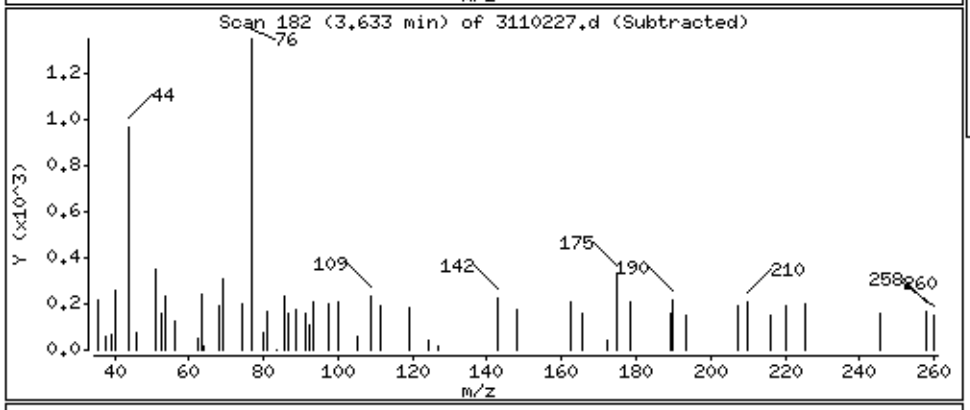
Column diameter: 0.25

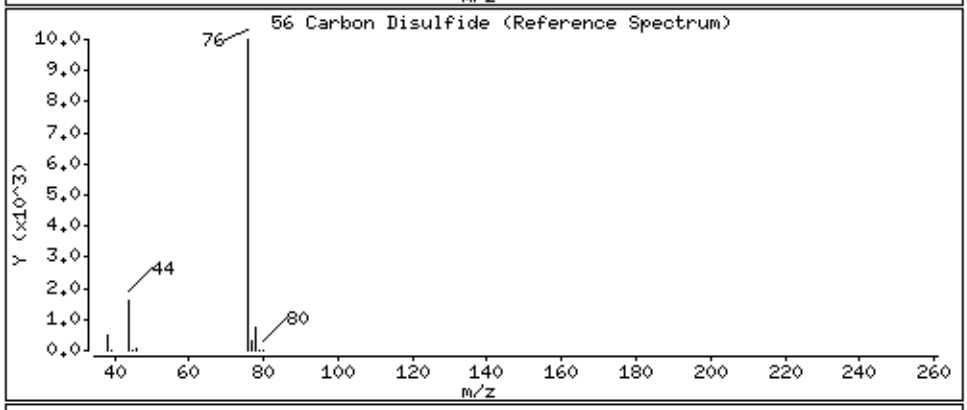
56 Carbon Disulfide

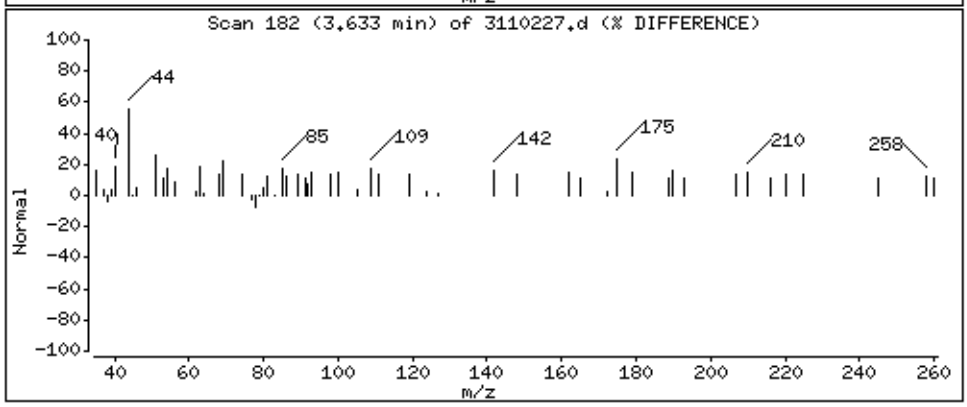
Concentration: 2.774 PPBV











Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

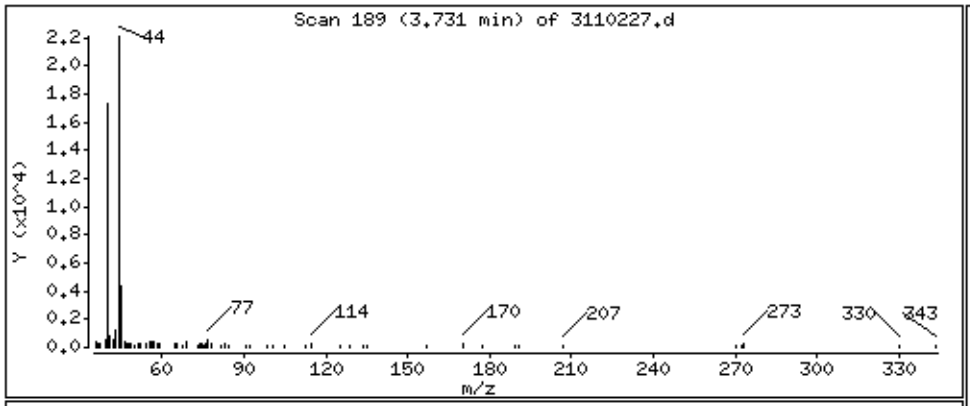
Operator: js

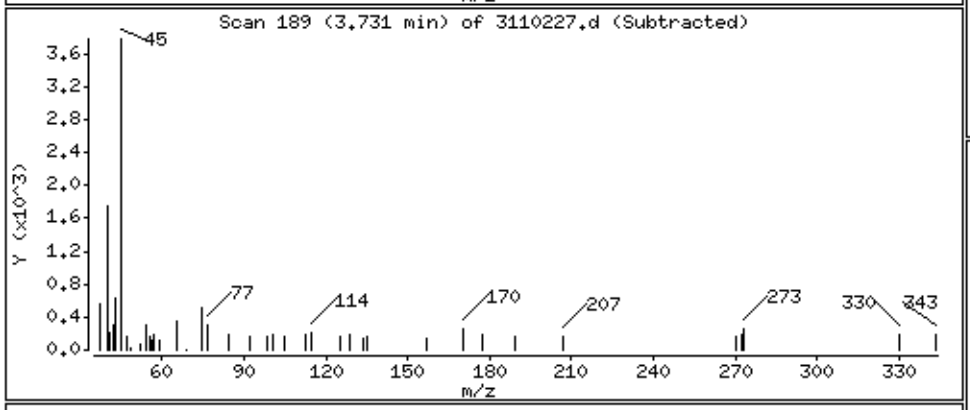
Column phase: RTX-624

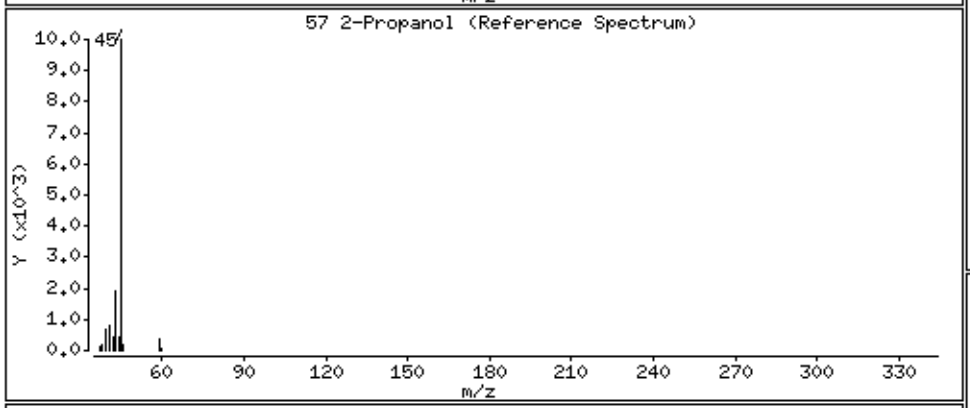
Column diameter: 0.25

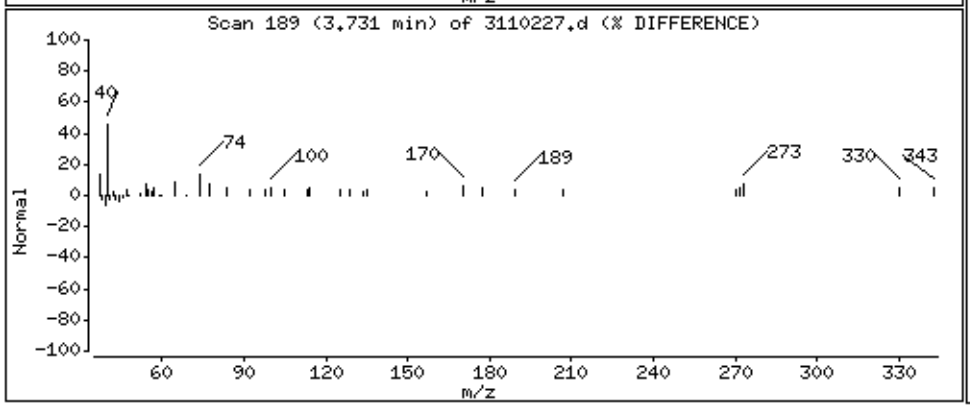
57 2-Propanol

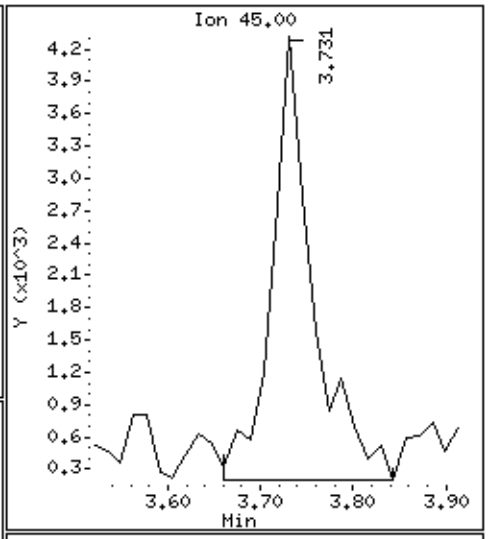
Concentration: 9.798 PPBV

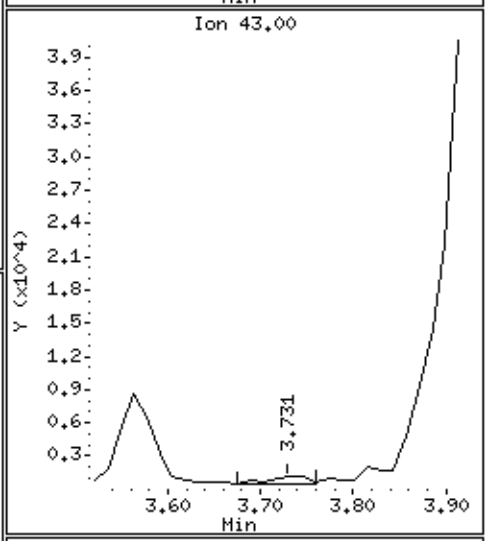


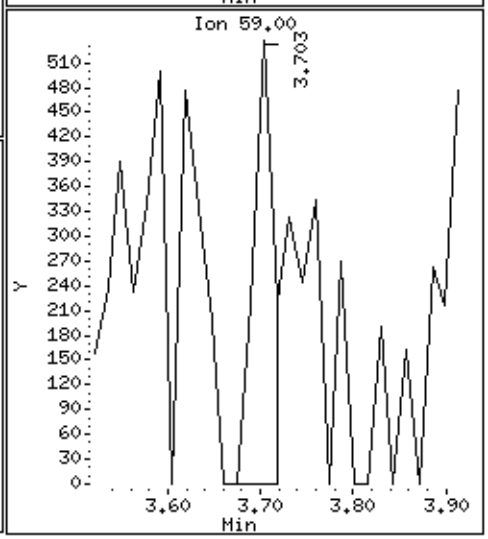












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

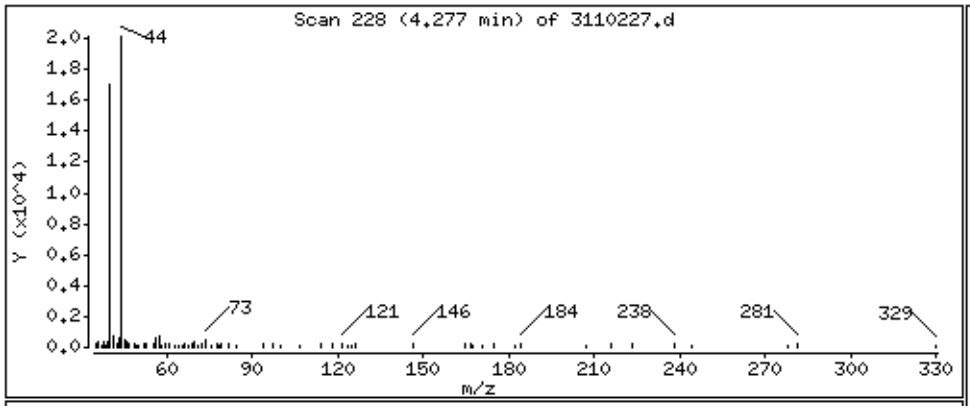
Operator: js

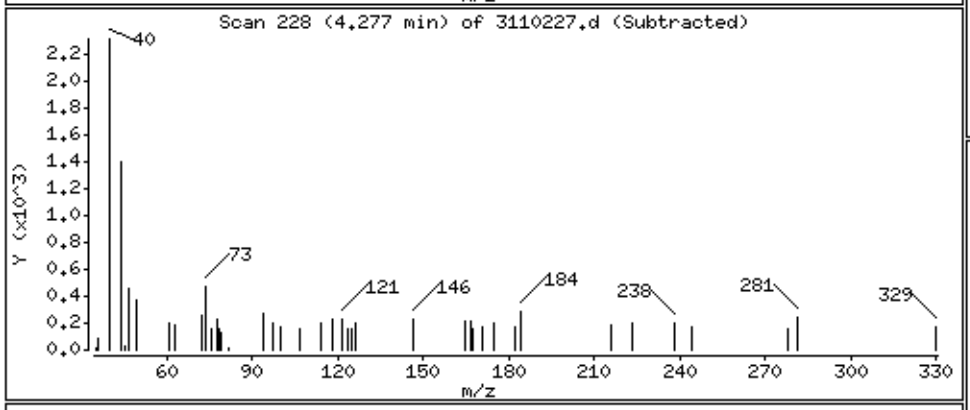
Column phase: RTX-624

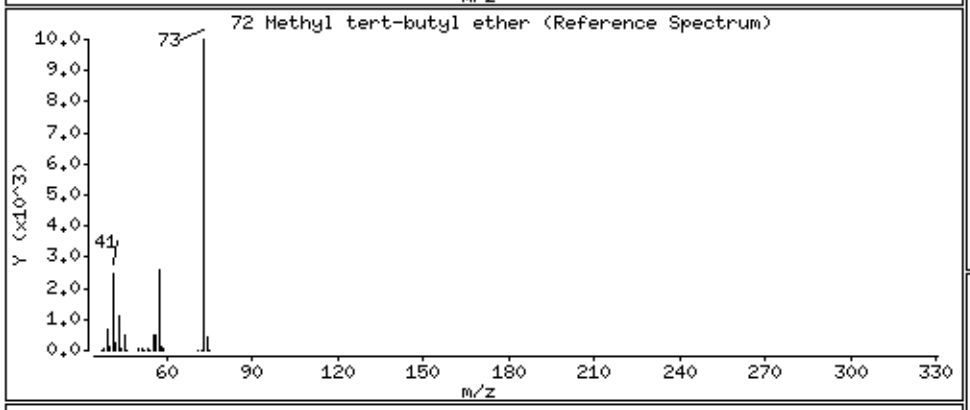
Column diameter: 0.25

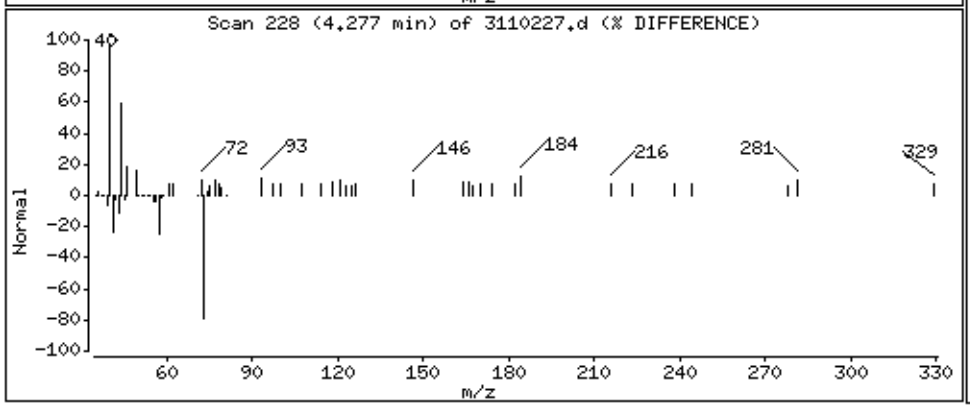
72 Methyl tert-butyl ether

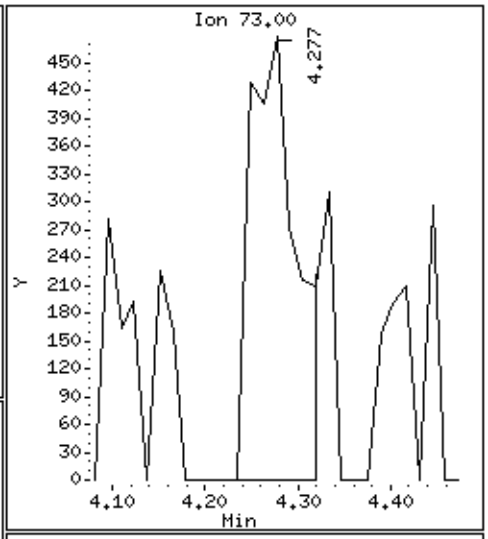
Concentration: 1.231 PPBV

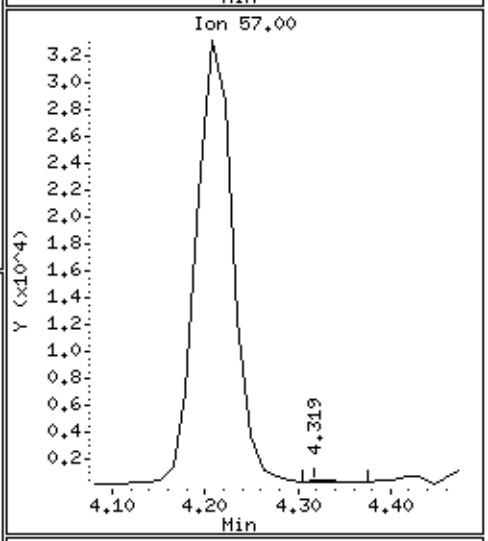


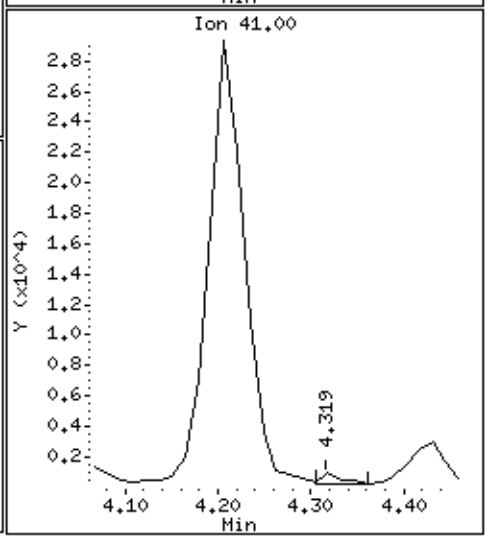












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

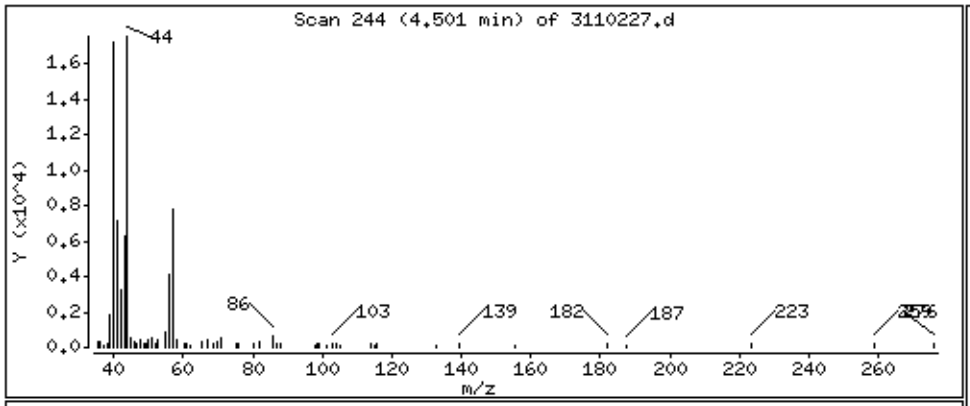
Operator: js

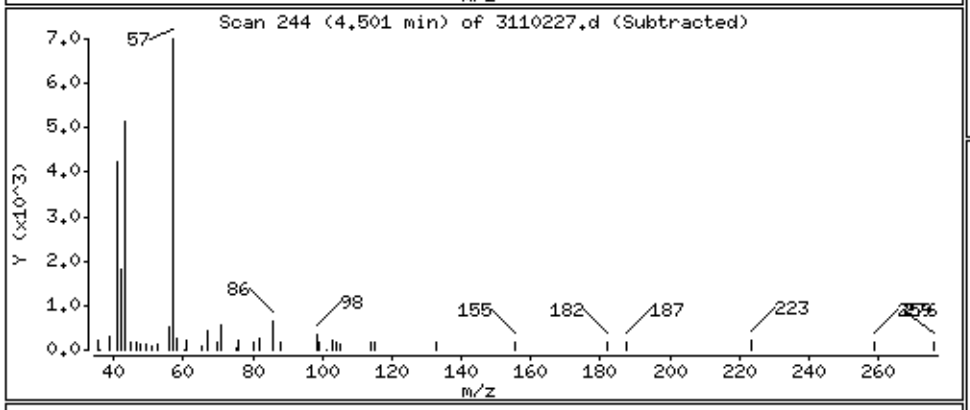
Column phase: RTX-624

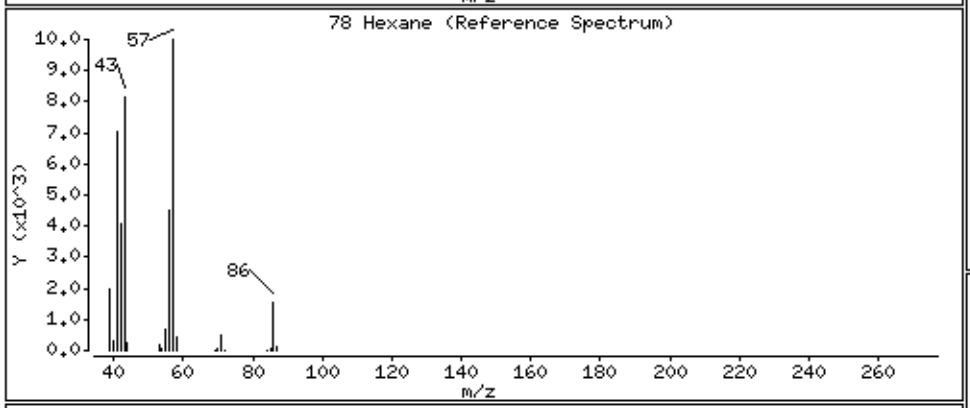
Column diameter: 0.25

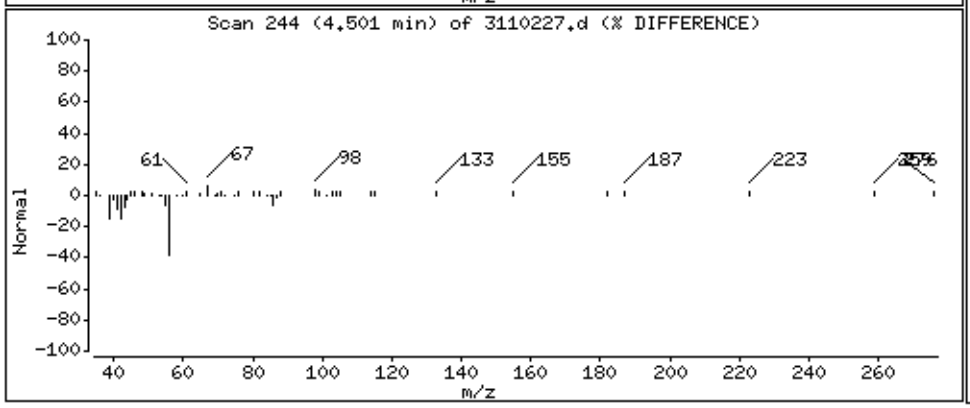
78 Hexane

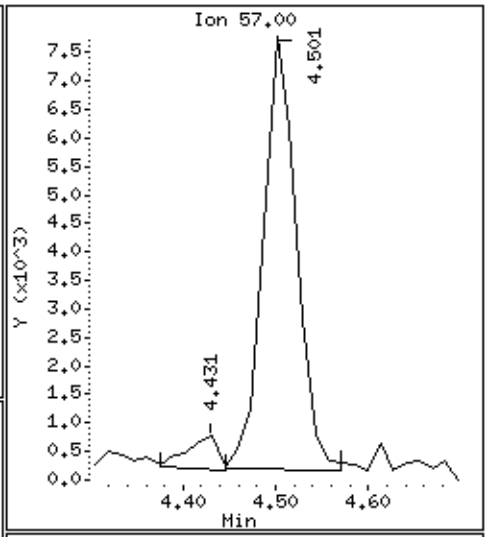
Concentration: 18.202 PPBV

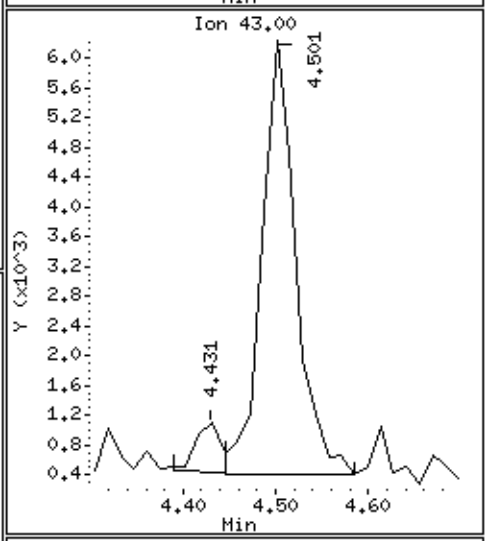


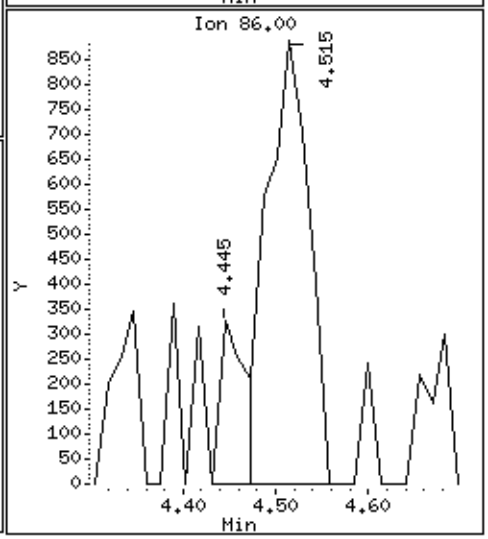












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

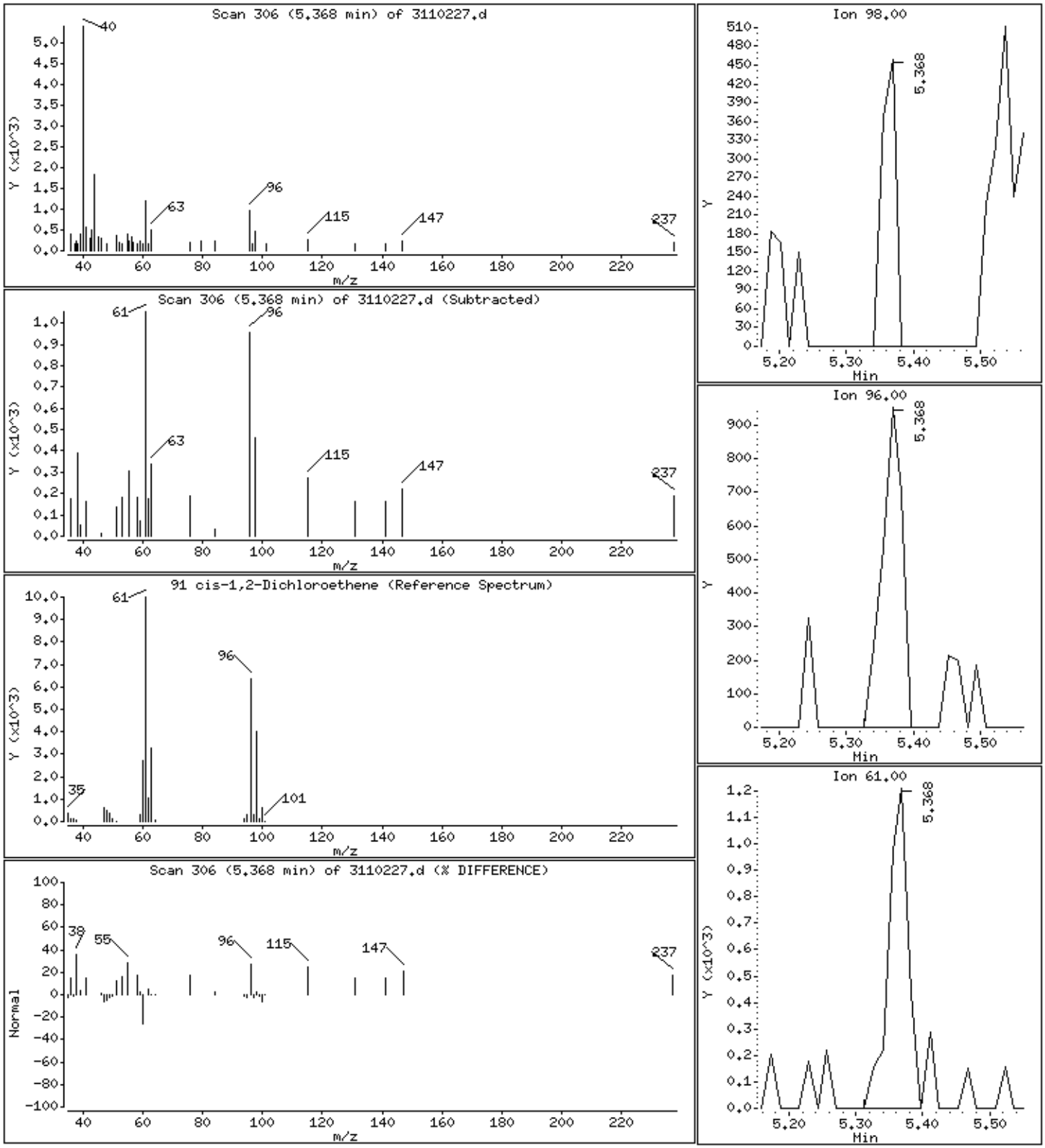
Operator: js

Column phase: RTX-624

Column diameter: 0.25

91 cis-1,2-Dichloroethene

Concentration: 2.218 PPBV



Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

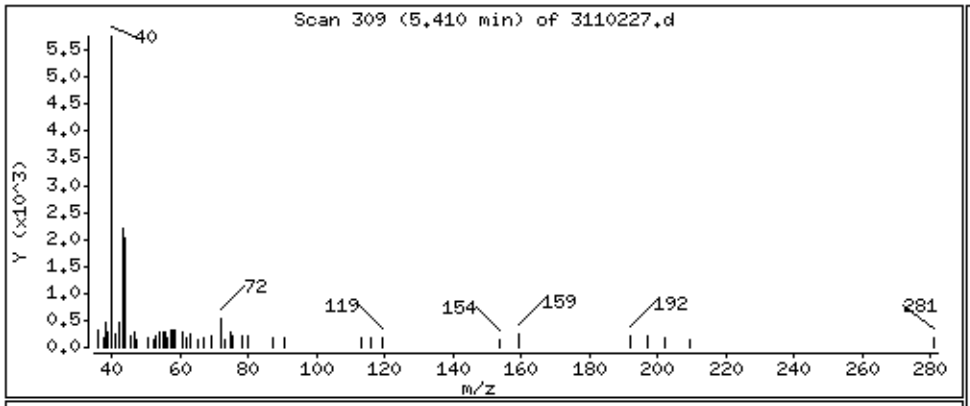
Operator: js

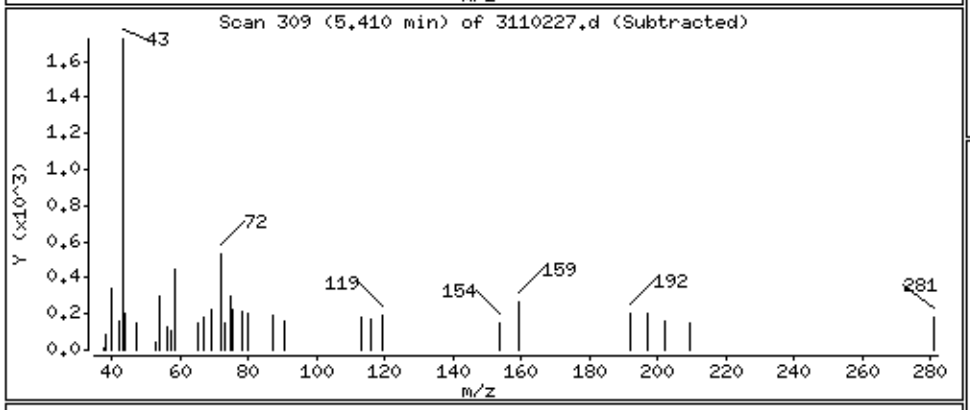
Column phase: RTX-624

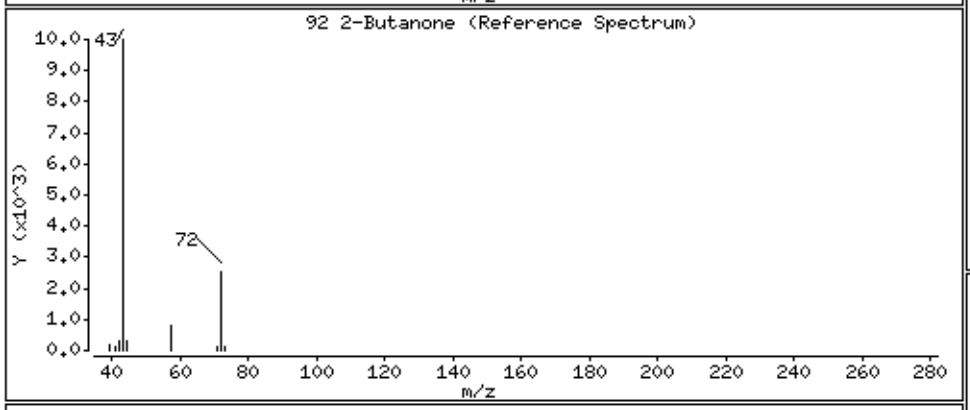
Column diameter: 0.25

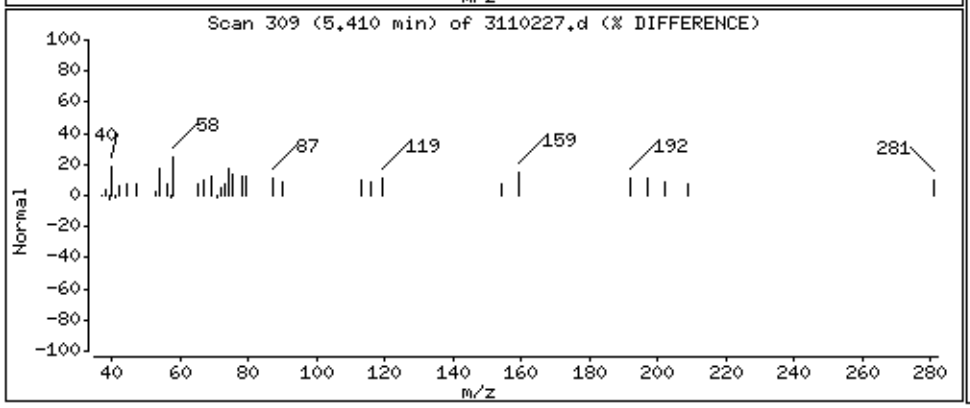
92 2-Butanone

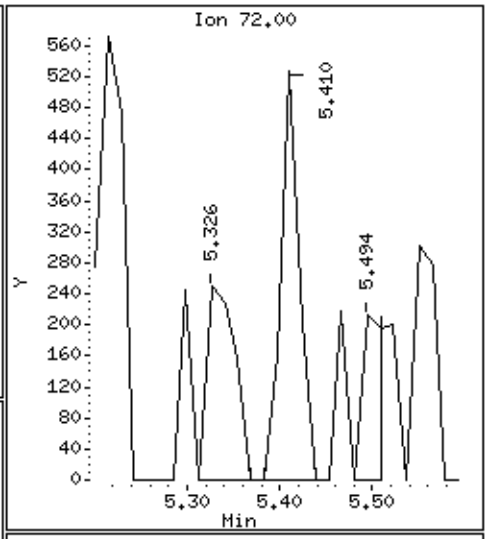
Concentration: 3.507 PPBV

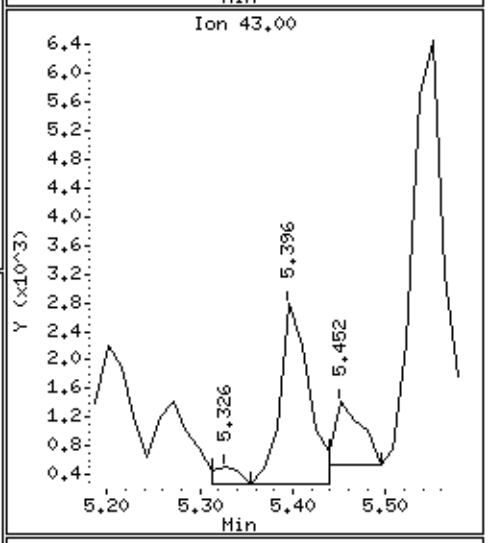


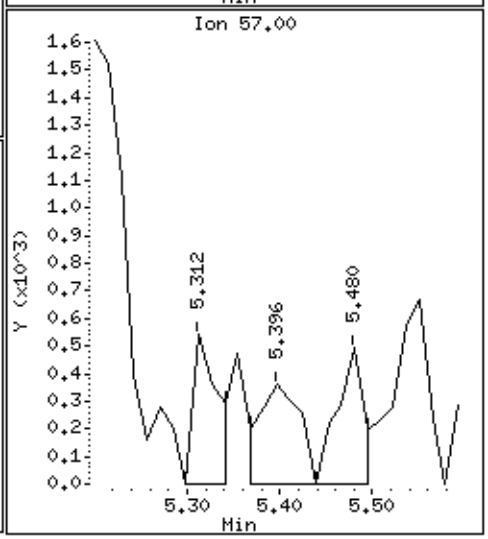












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

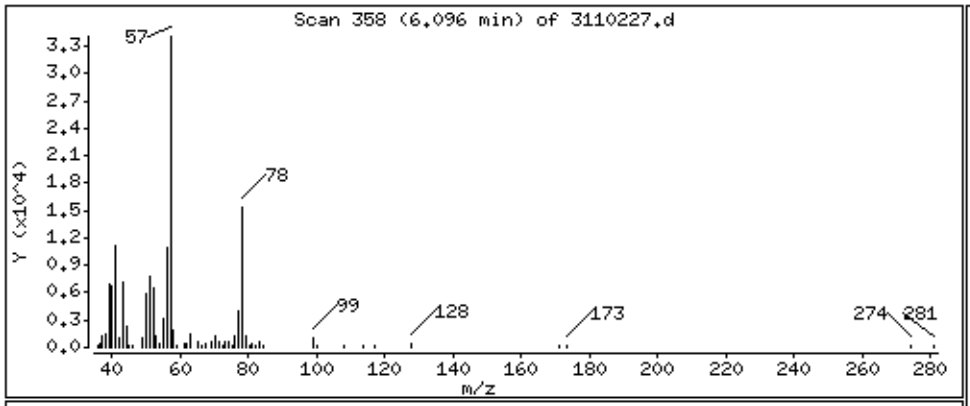
Operator: js

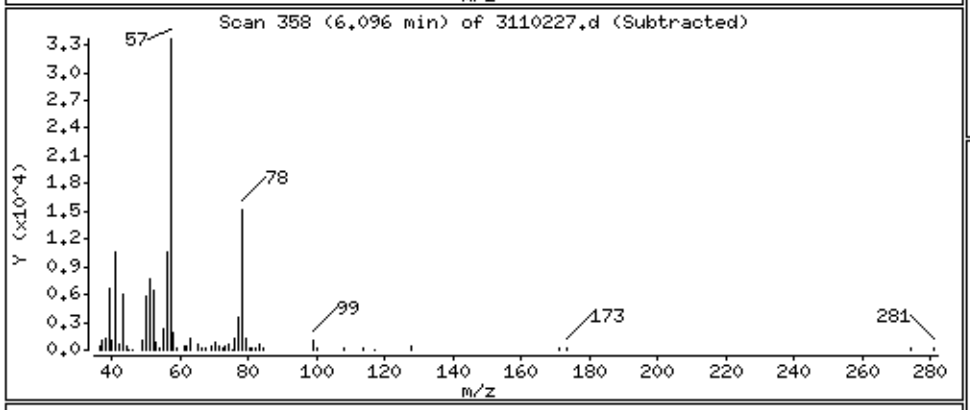
Column phase: RTX-624

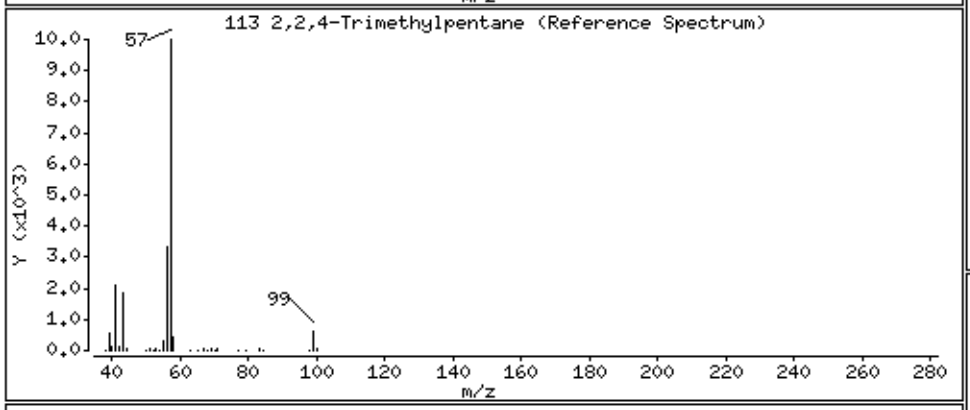
Column diameter: 0.25

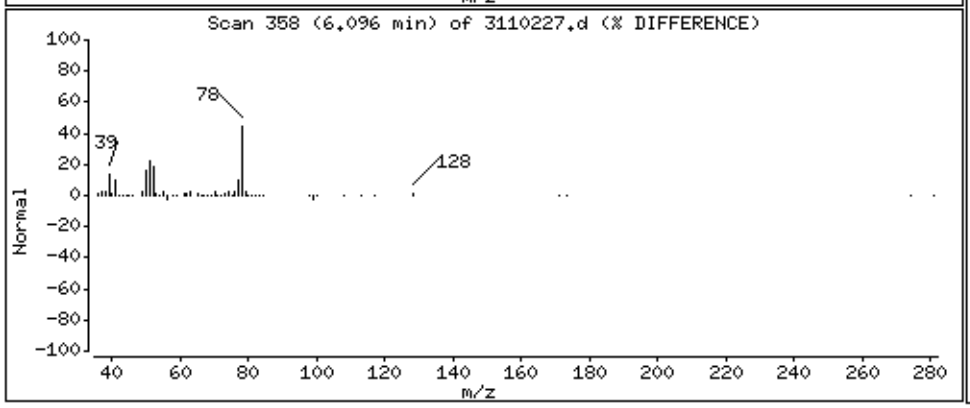
113 2,2,4-Trimethylpentane

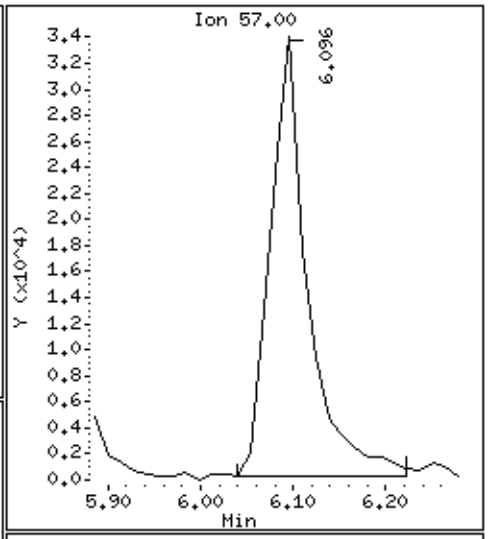
Concentration: 26.166 PPBV

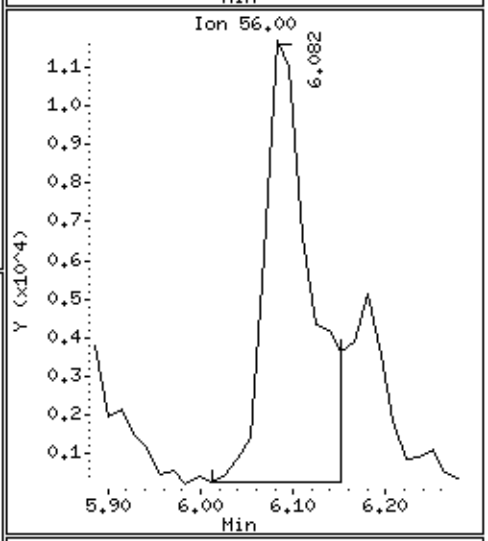


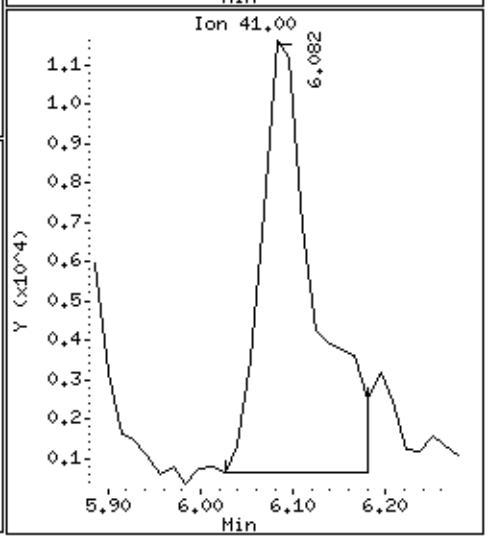












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

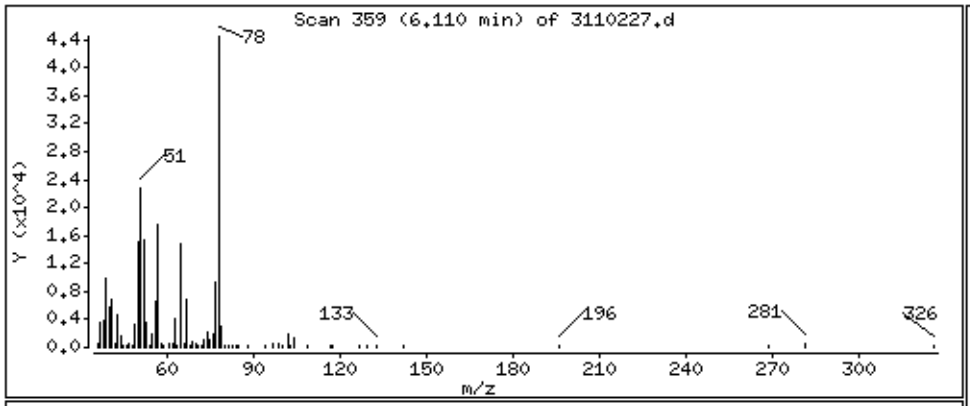
Operator: js

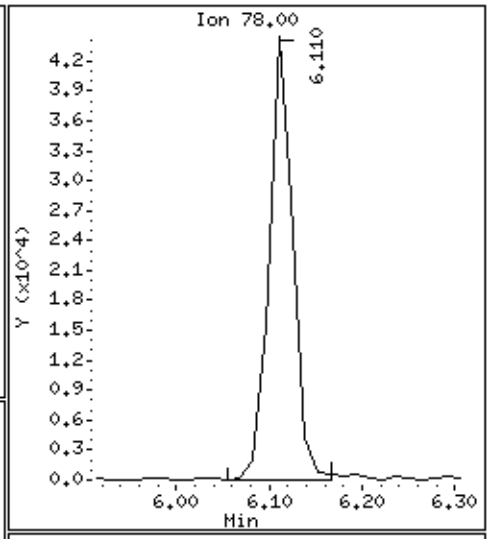
Column phase: RTX-624

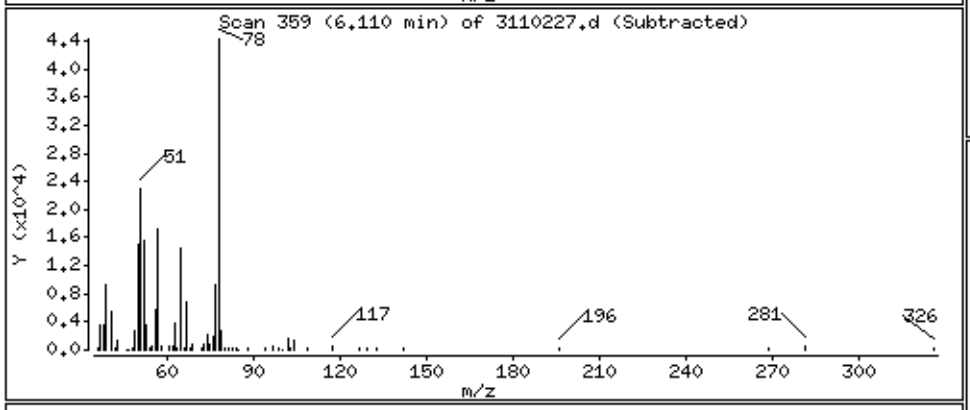
Column diameter: 0.25

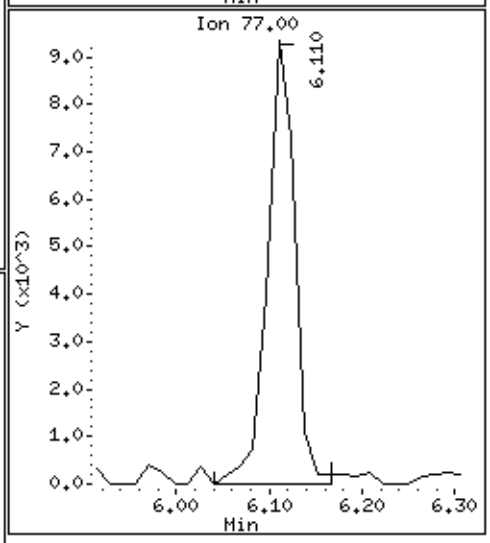
116 Benzene

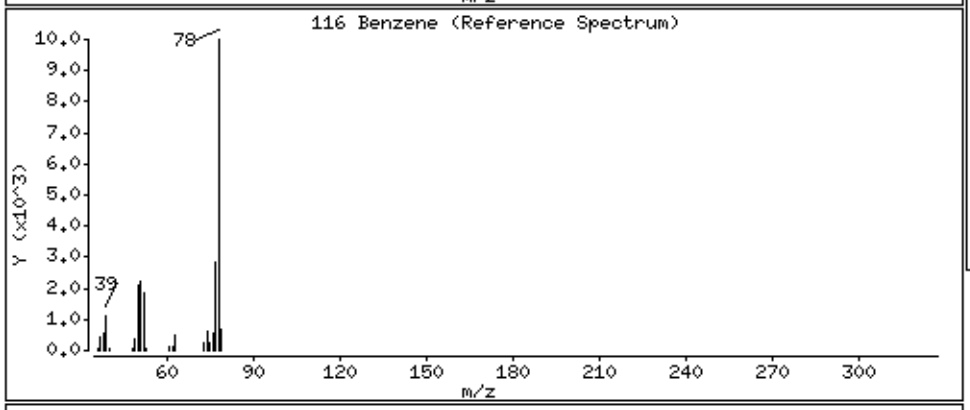
Concentration: 59.770 PPBV

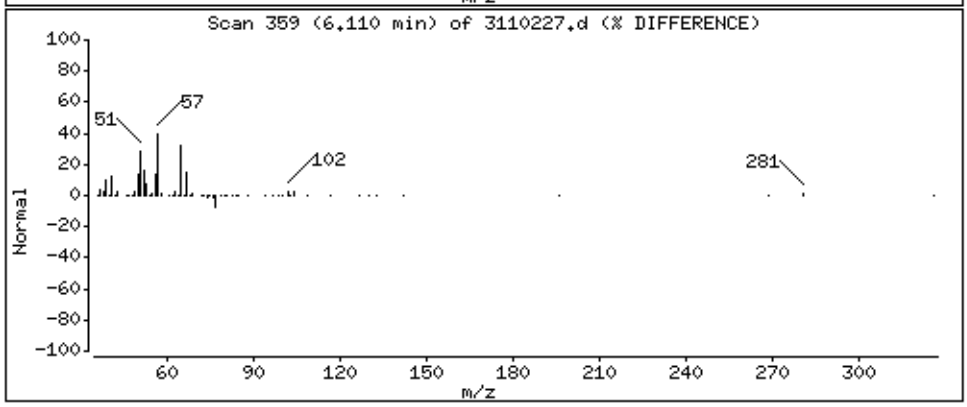












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

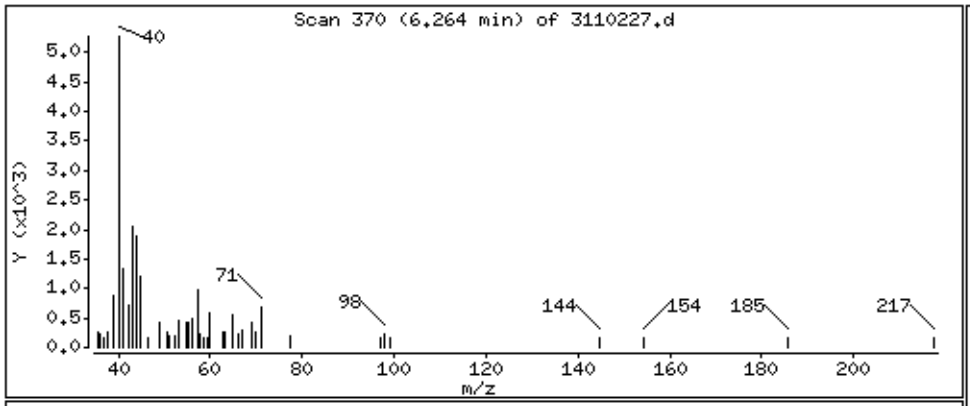
Operator: js

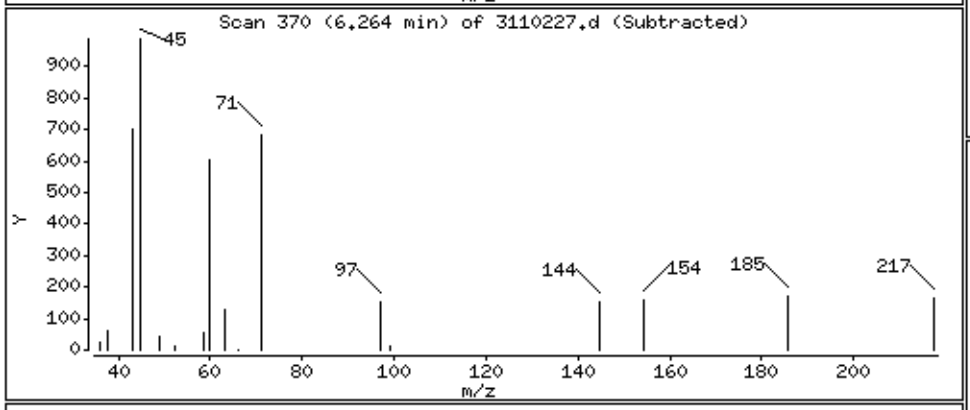
Column phase: RTX-624

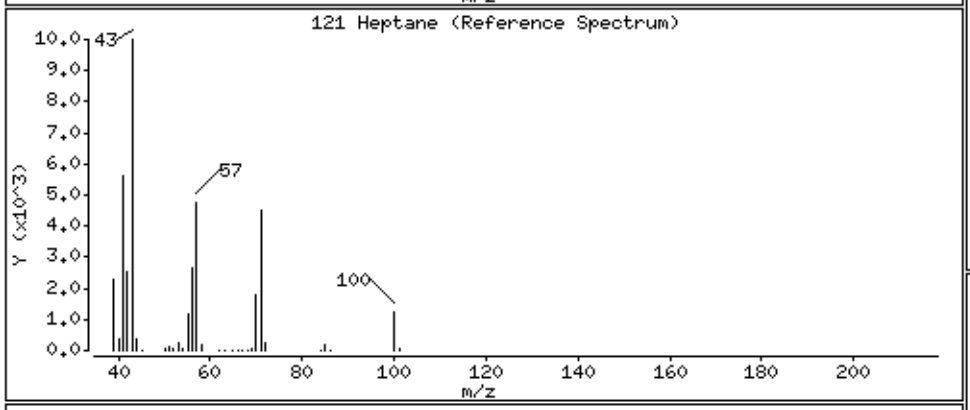
Column diameter: 0.25

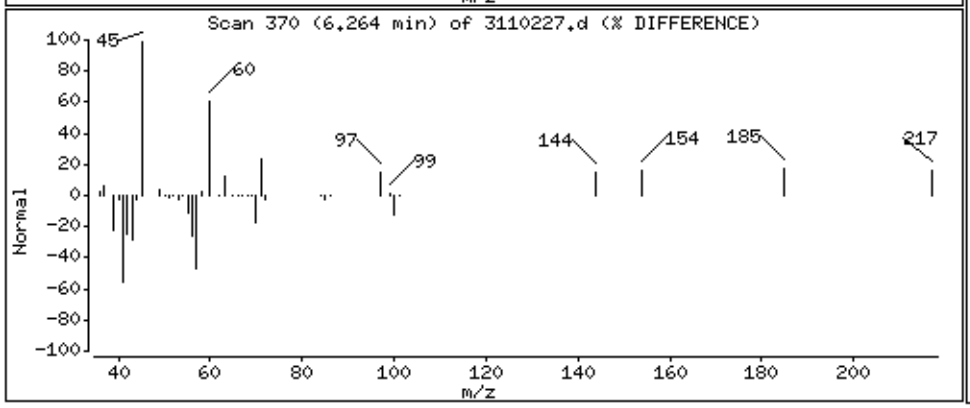
121 Heptane

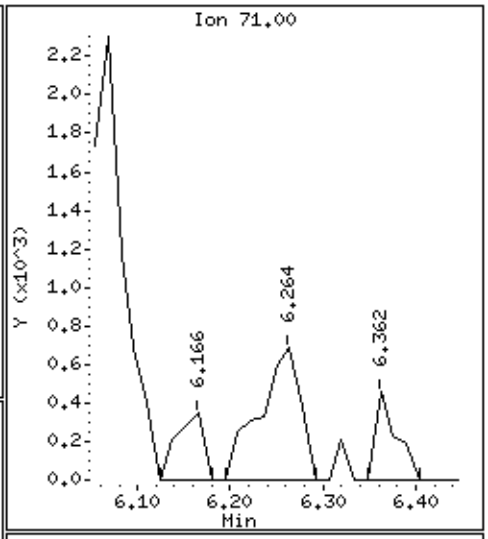
Concentration: 4.151 PPBV

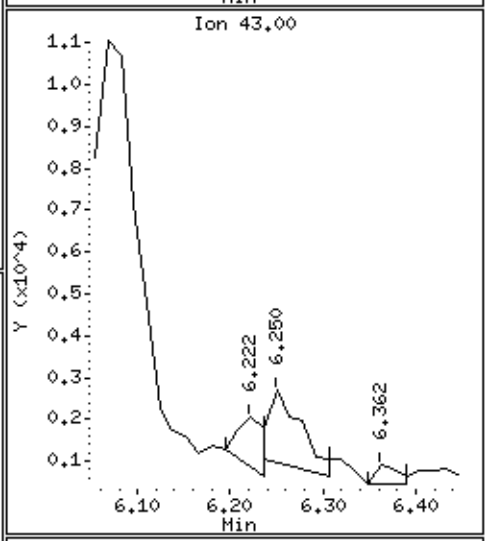


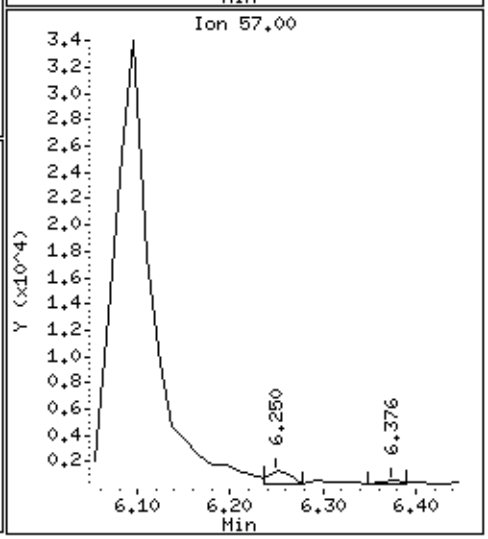












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

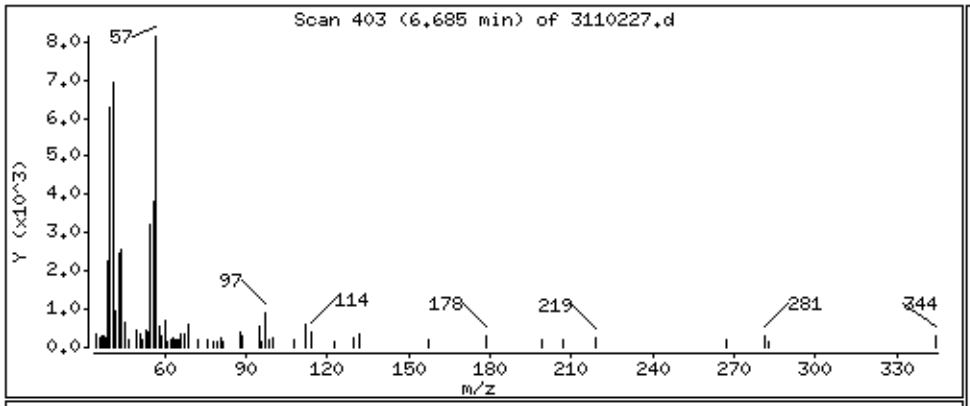
Operator: js

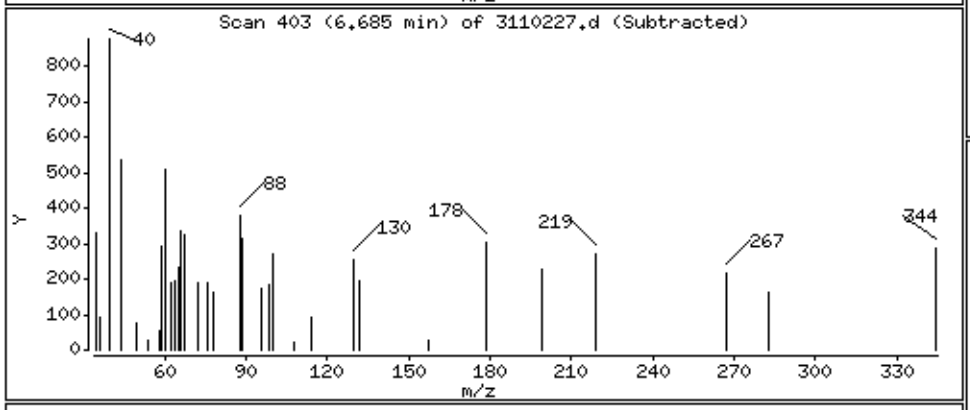
Column phase: RTX-624

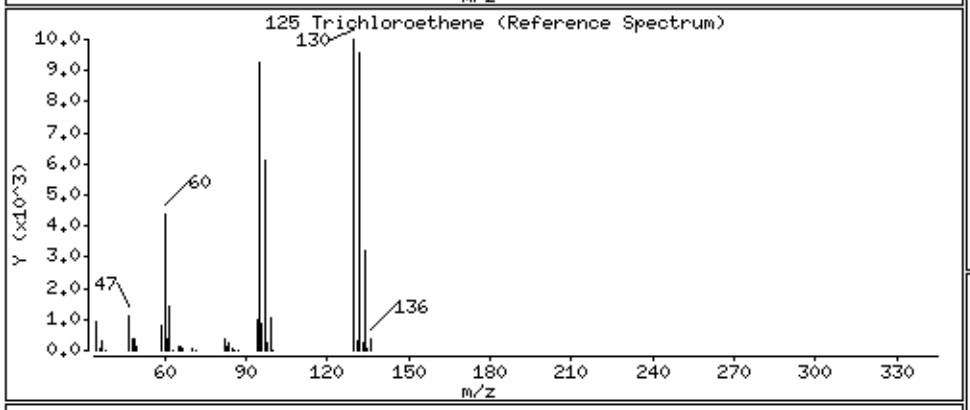
Column diameter: 0.25

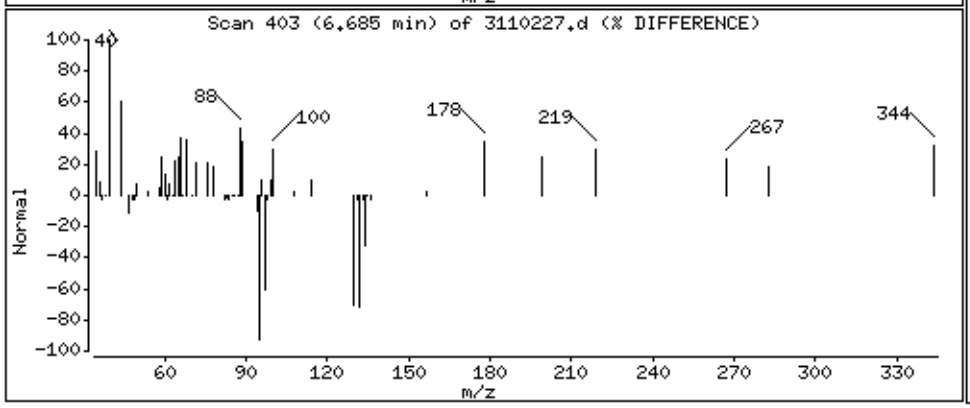
125 Trichloroethene

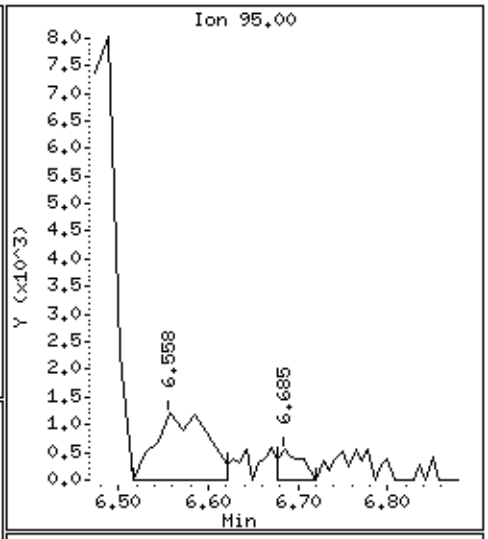
Concentration: 1.437 PPBV

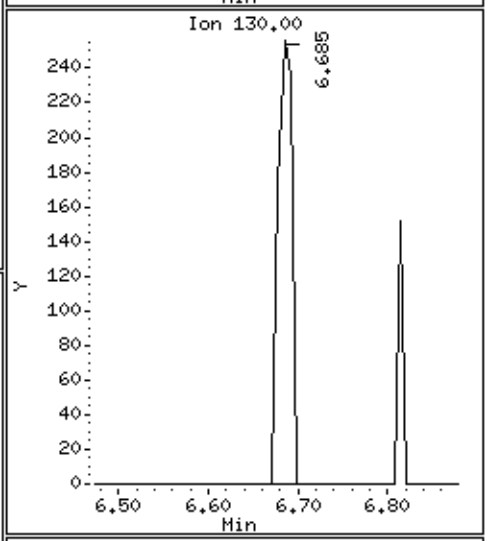


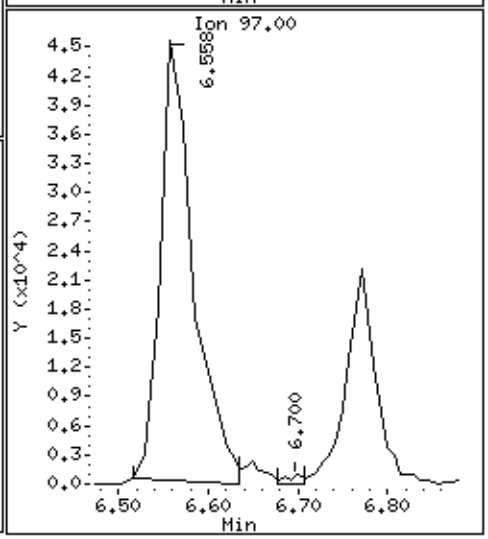












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

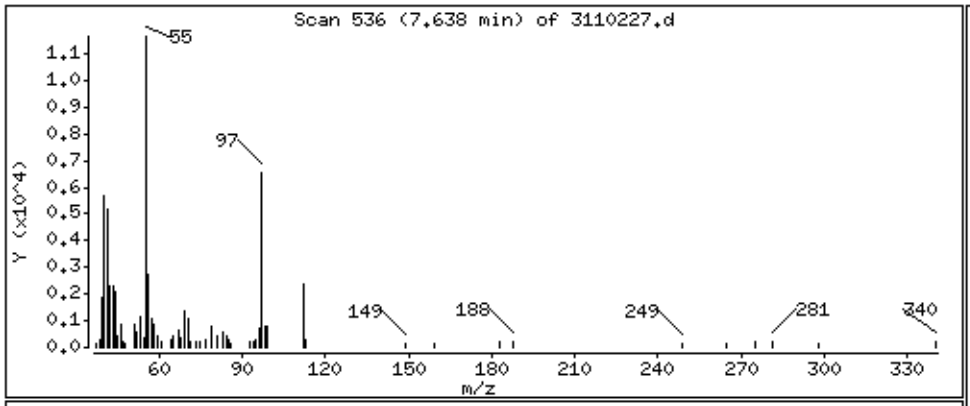
Operator: js

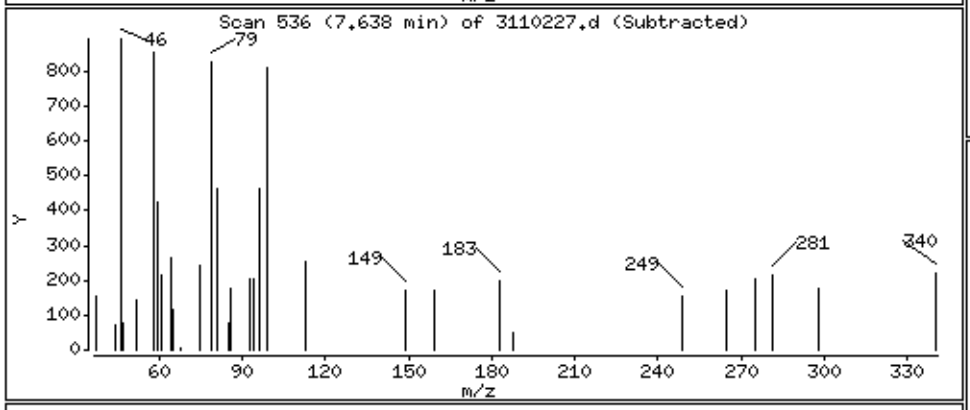
Column phase: RTX-624

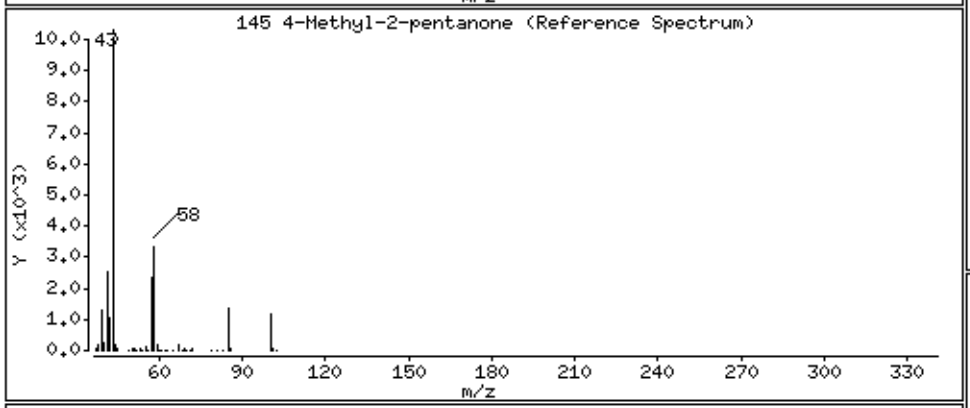
Column diameter: 0.25

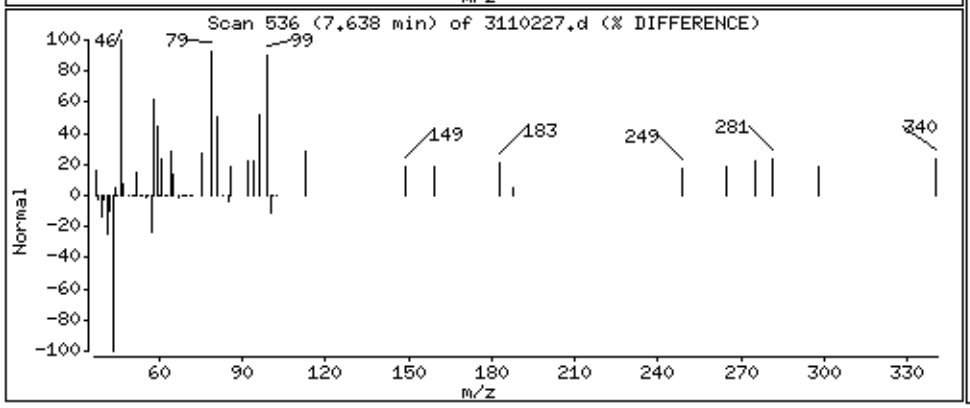
145 4-Methyl-2-pentanone

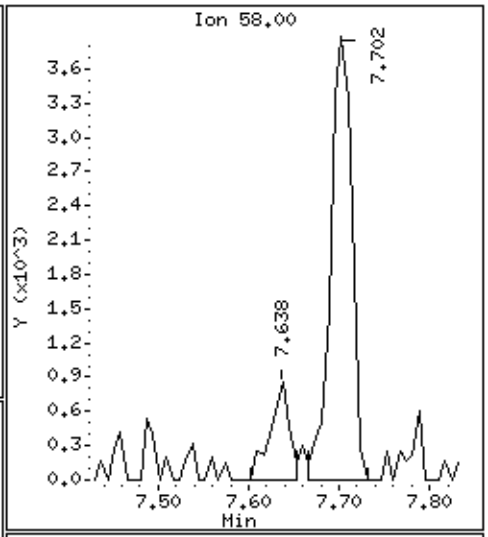
Concentration: 1.647 PPBV

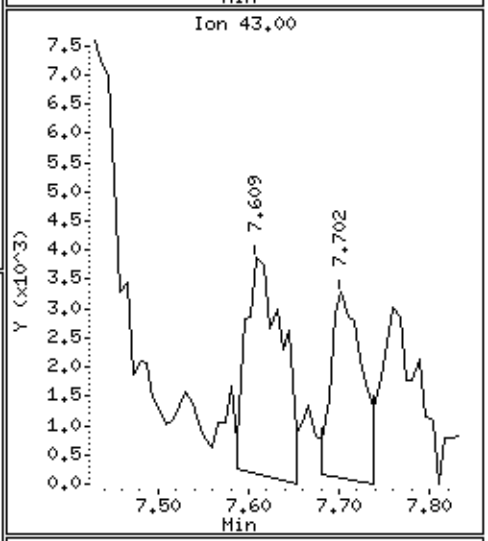


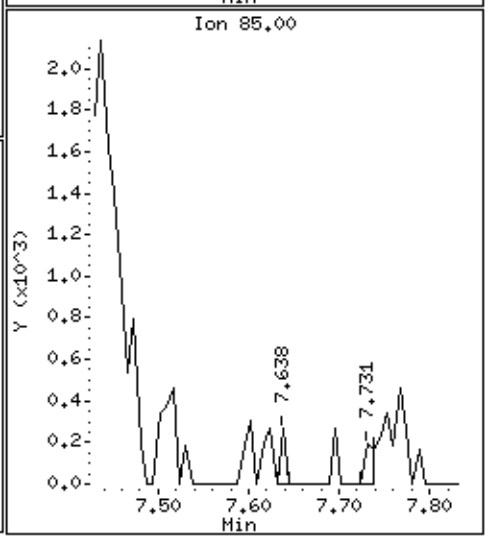












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

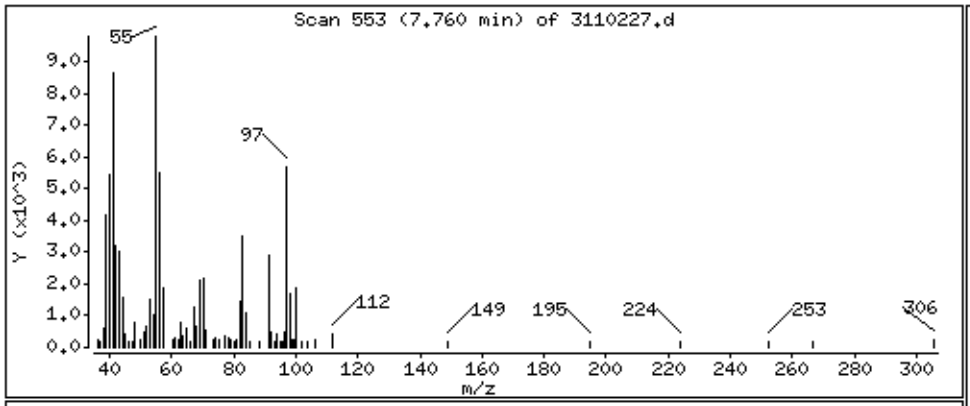
Operator: js

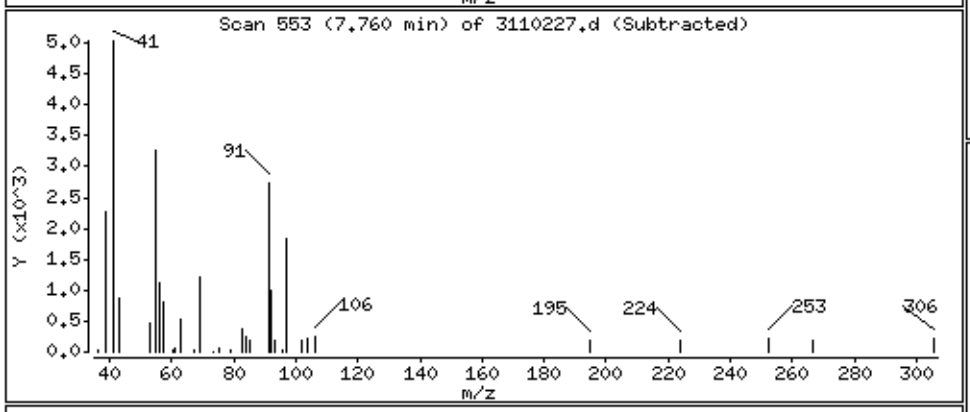
Column phase: RTX-624

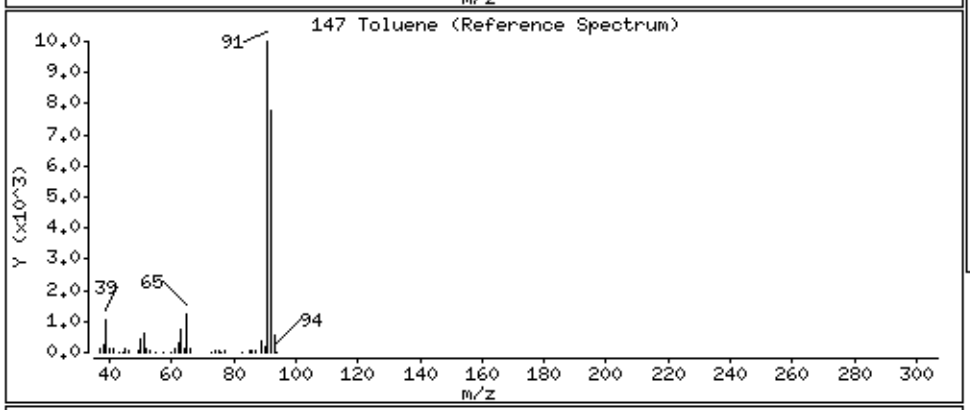
Column diameter: 0.25

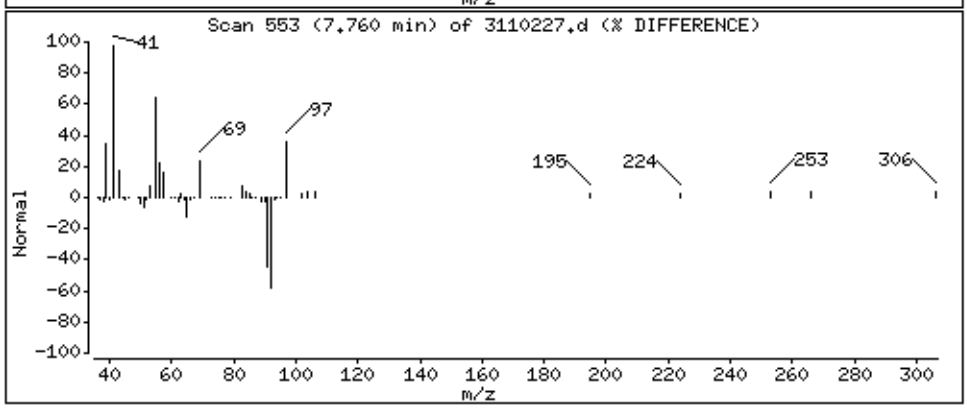
147 Toluene

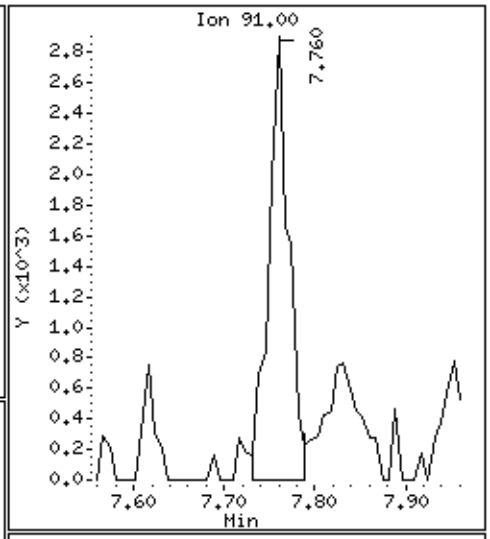
Concentration: 2.408 PPBV

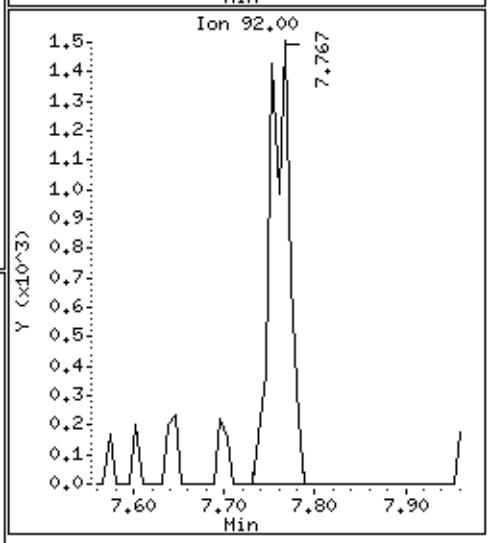












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

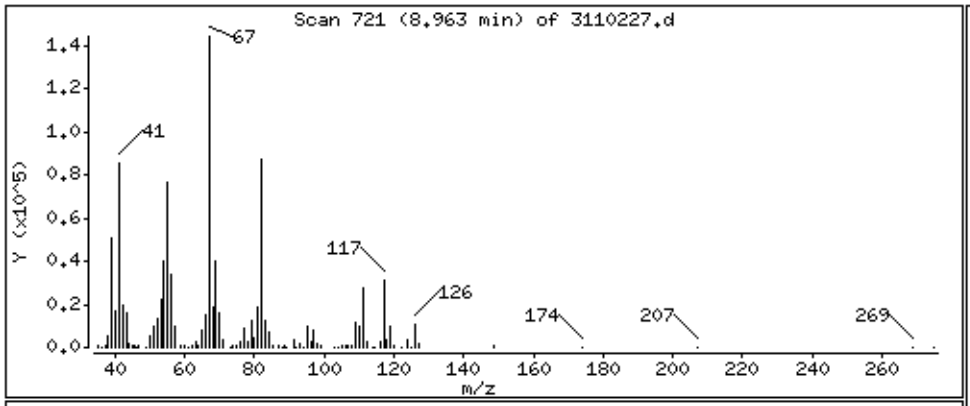
Operator: js

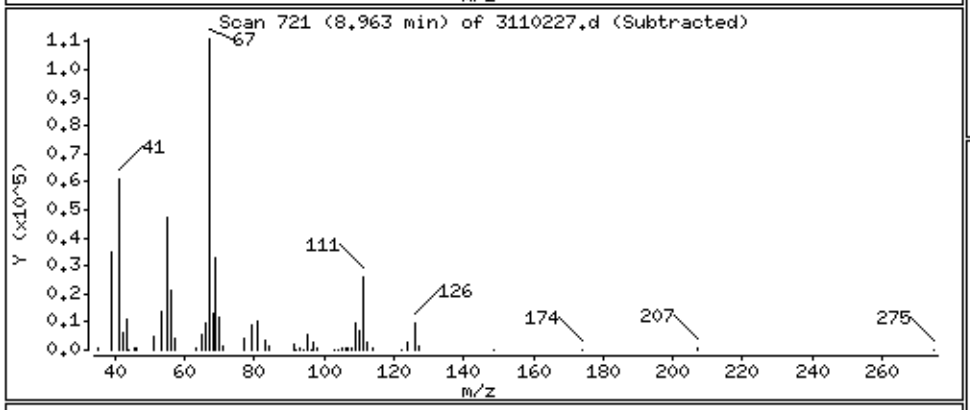
Column phase: RTX-624

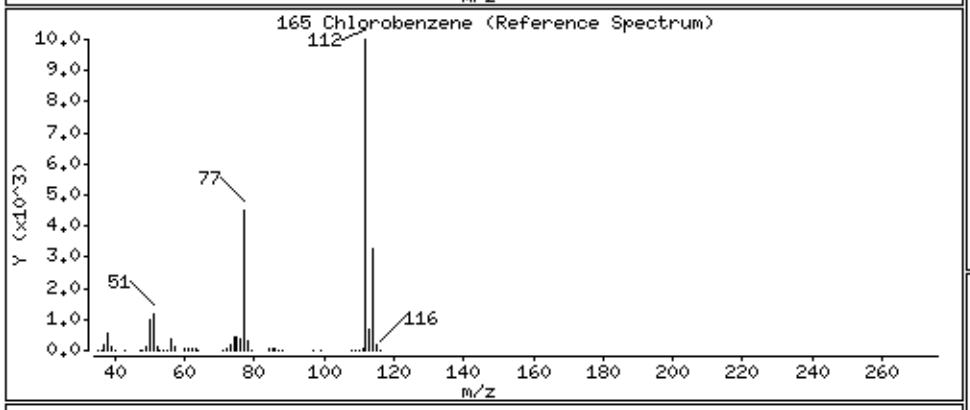
Column diameter: 0.25

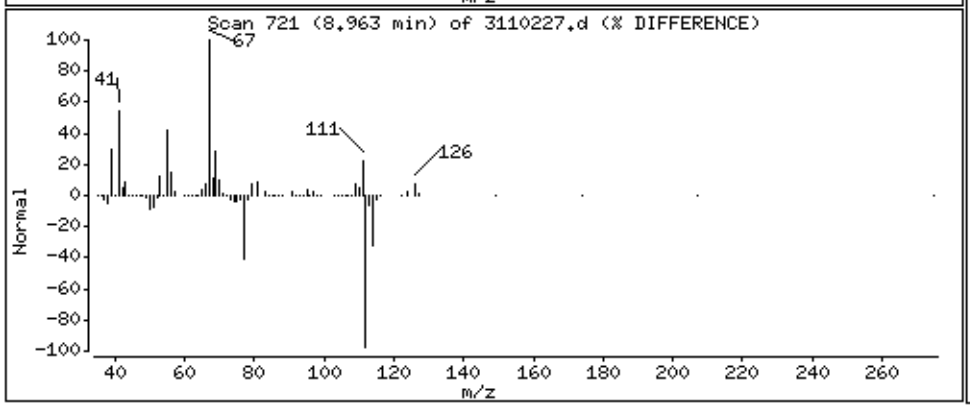
165 Chlorobenzene

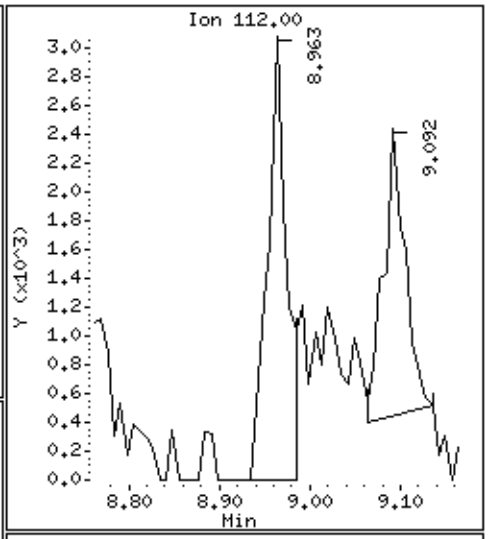
Concentration: 2.827 PPBV

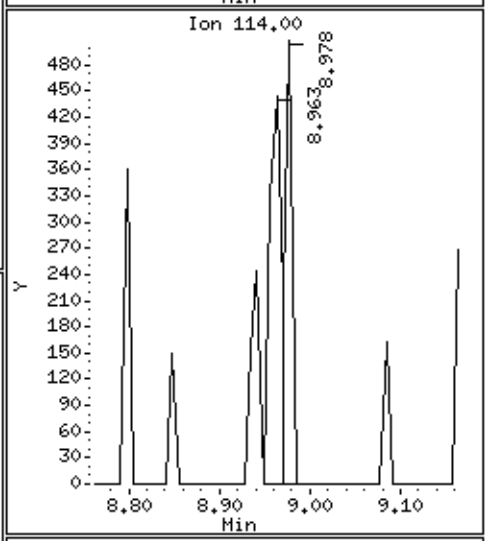


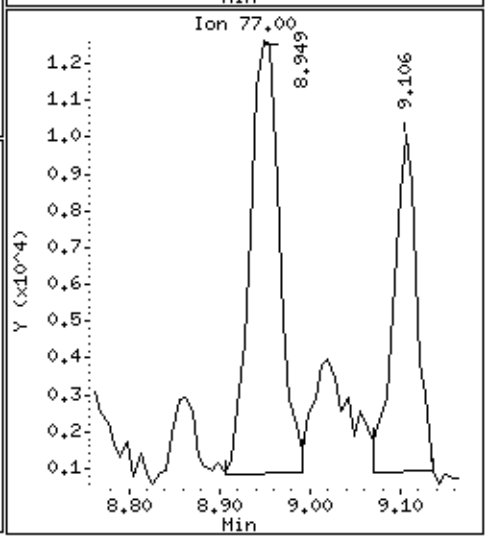












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

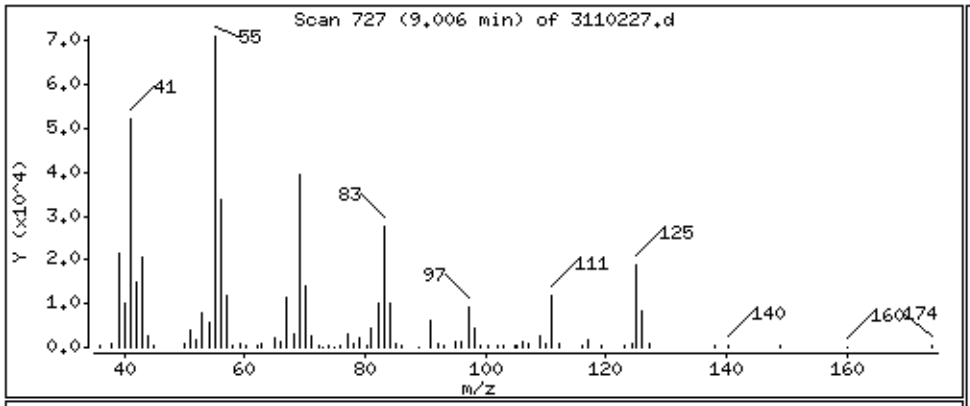
Operator: js

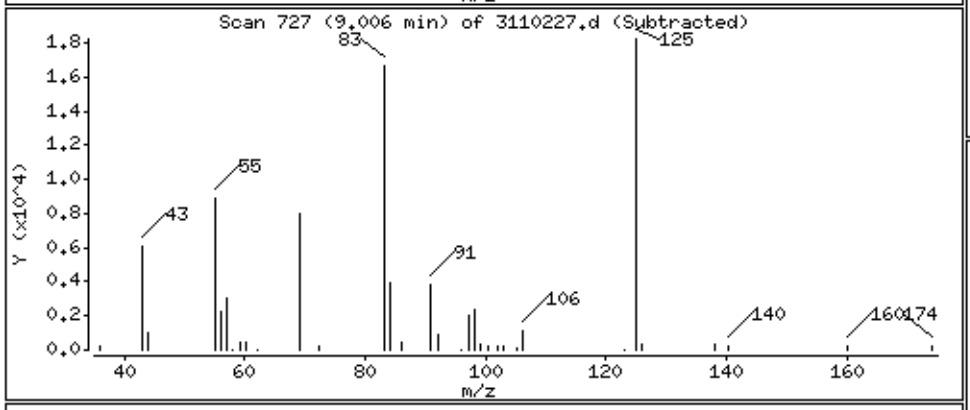
Column phase: RTX-624

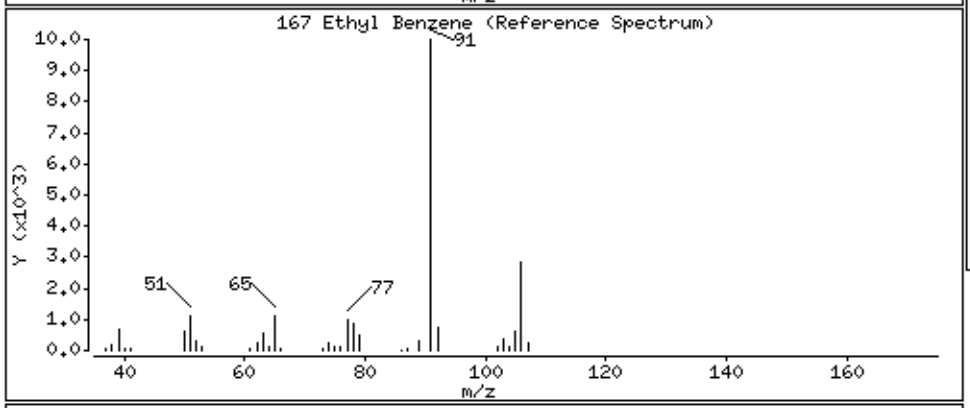
Column diameter: 0.25

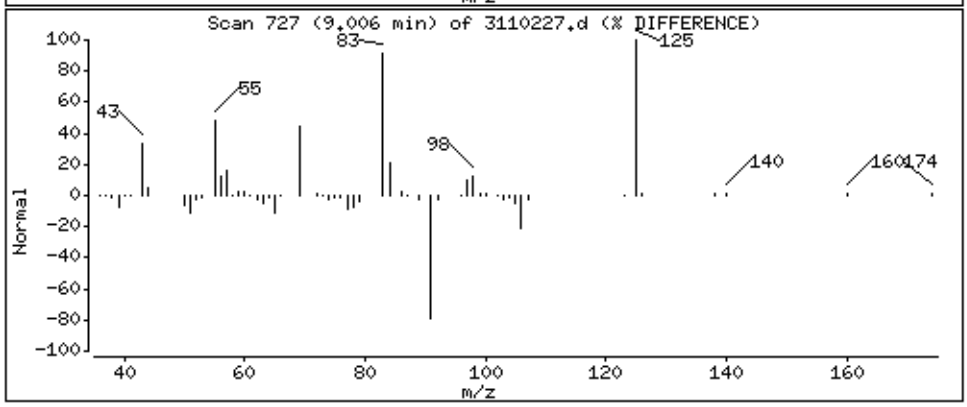
167 Ethyl Benzene

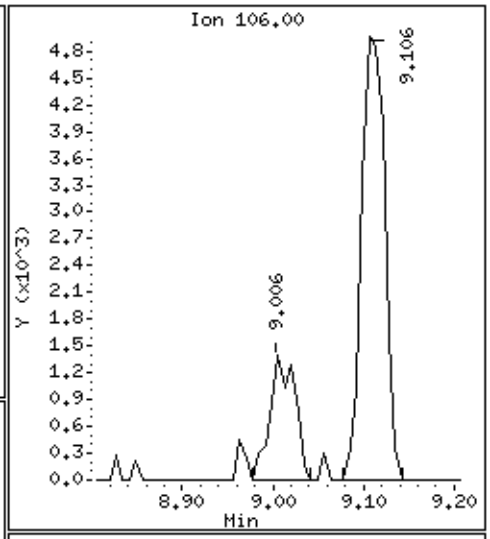
Concentration: 3.250 PPBV

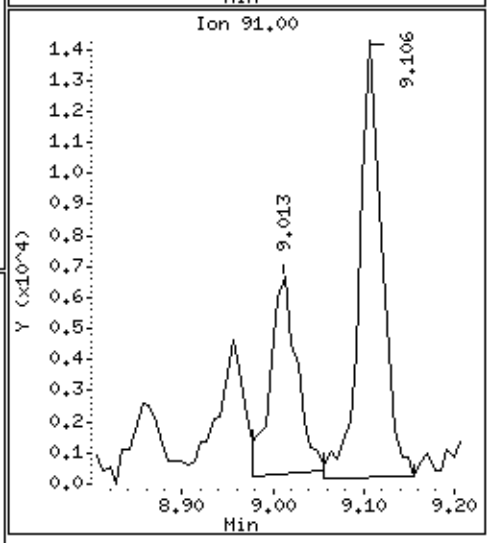












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

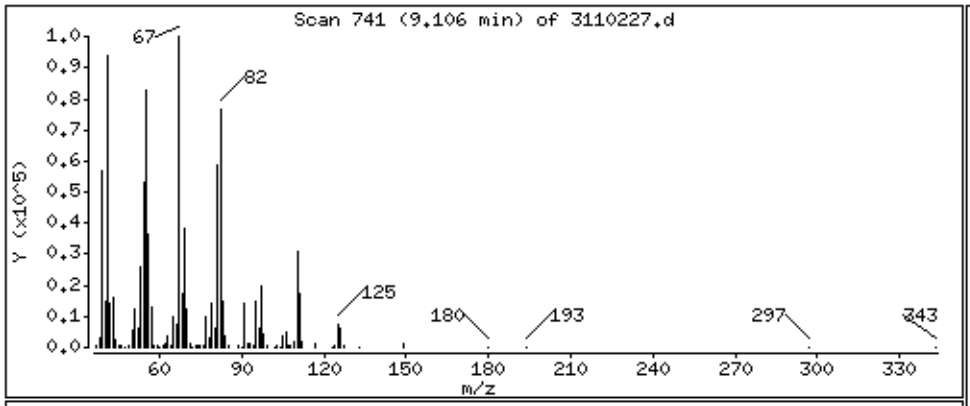
Operator: js

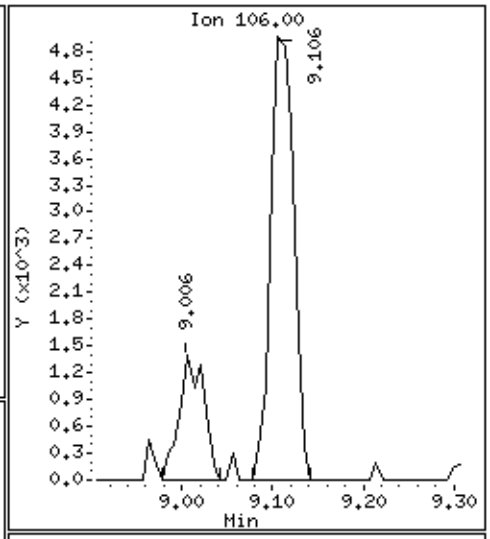
Column phase: RTX-624

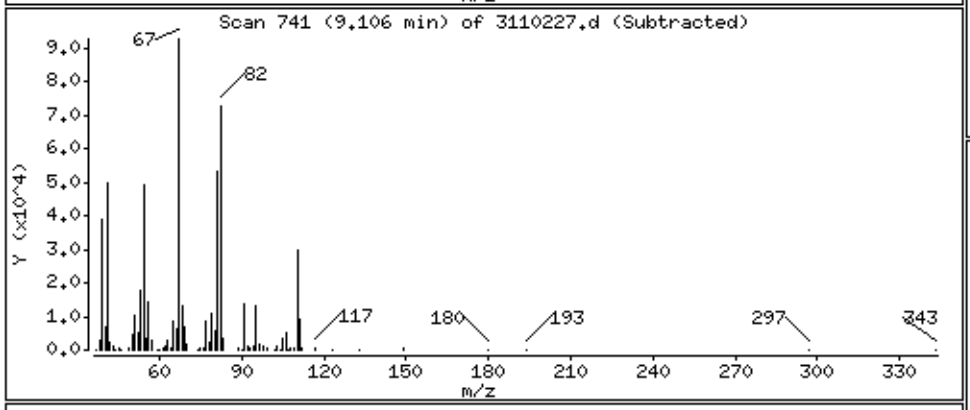
Column diameter: 0.25

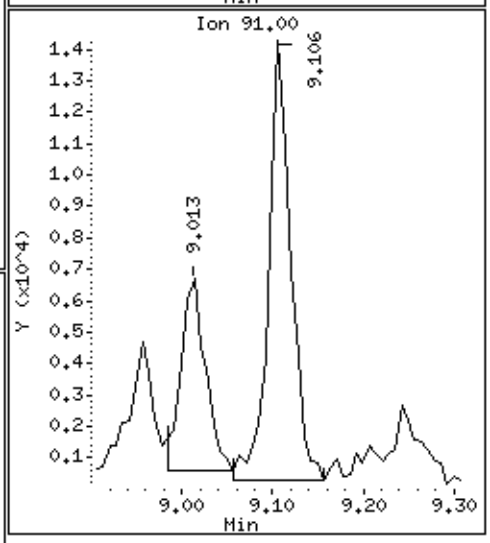
169 m,p-Xylene

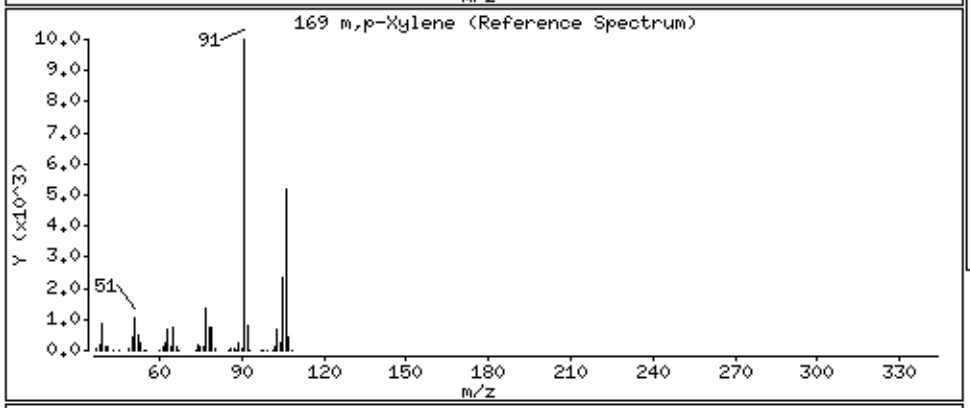
Concentration: 8.579 PPBV

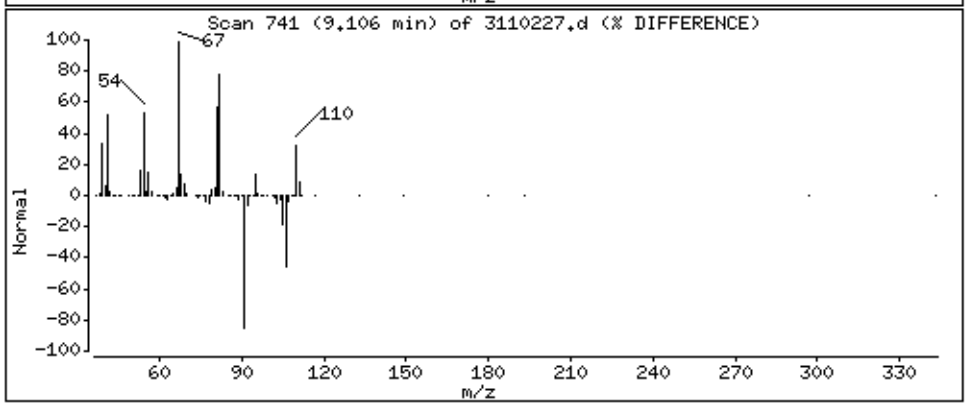












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

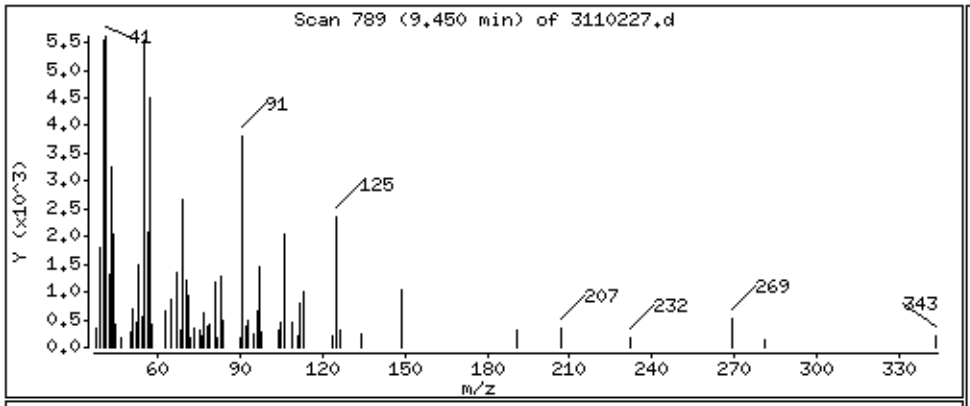
Operator: js

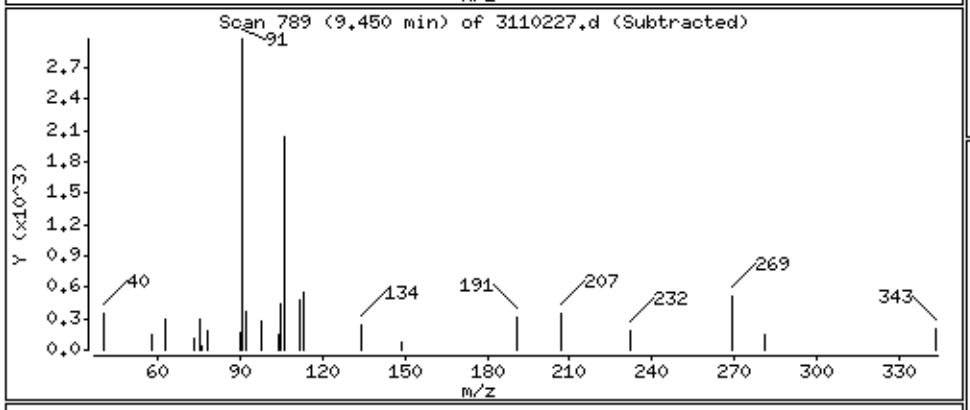
Column phase: RTX-624

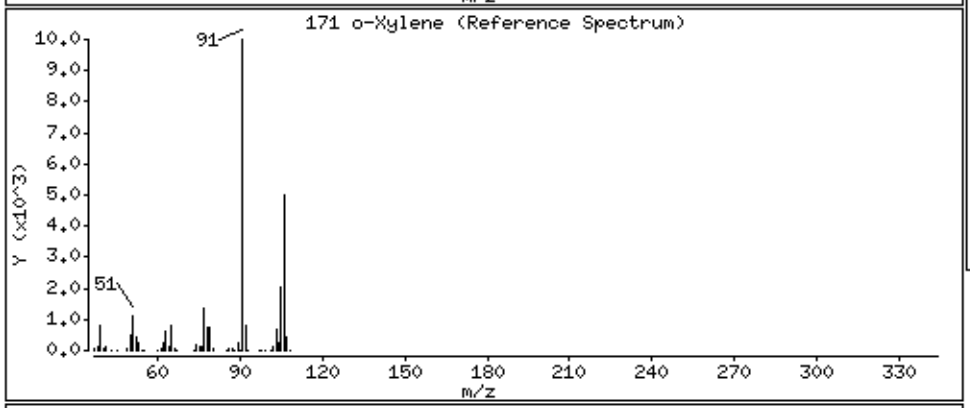
Column diameter: 0.25

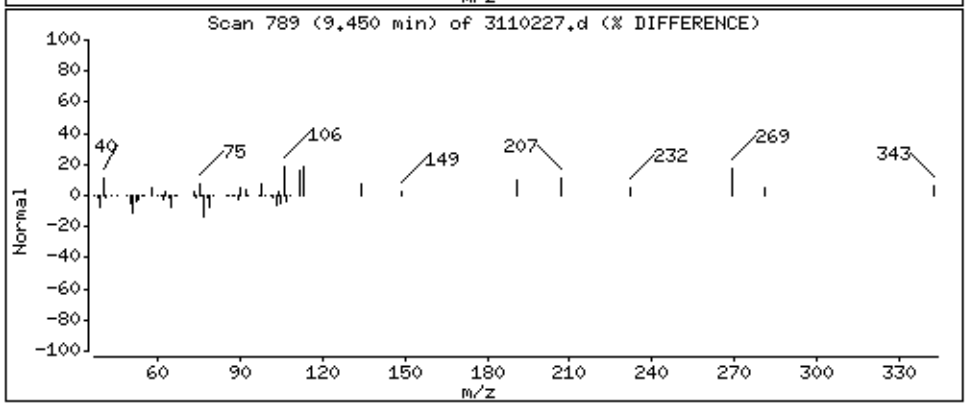
171 o-Xylene

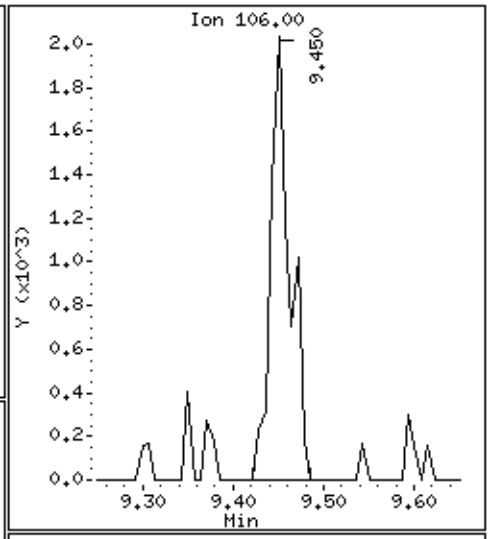
Concentration: 3.024 PPBV

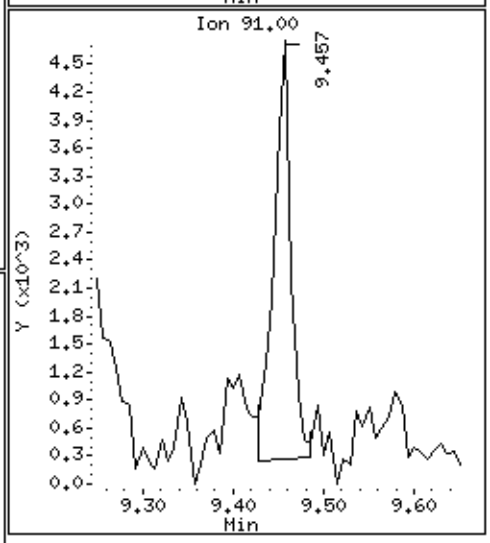












Data File: /chem/msd3.i/02nov15.b/3110227.d

Date : 03-NOV-2015 01:08

Client ID:

Instrument: msd3.i

Sample Info: 50ml 1L2742

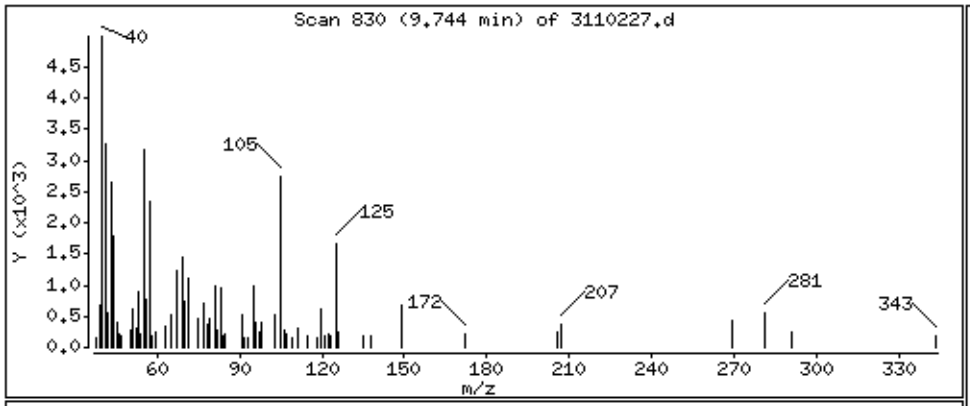
Operator: js

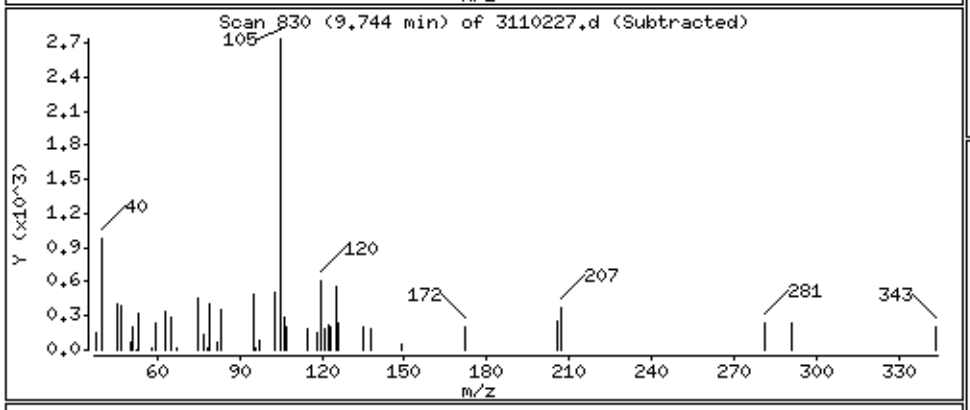
Column phase: RTX-624

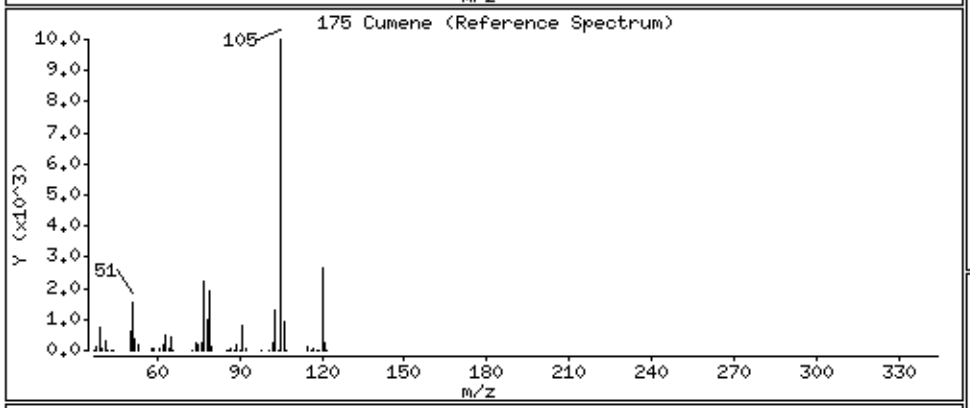
Column diameter: 0.25

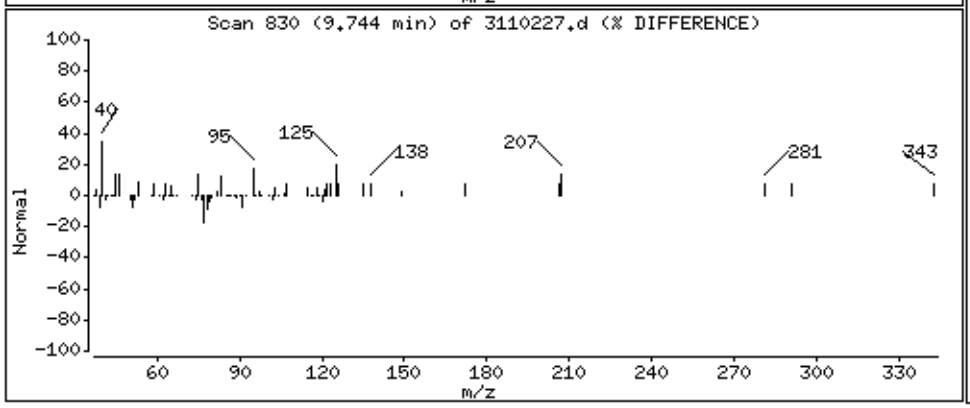
175 Cumene

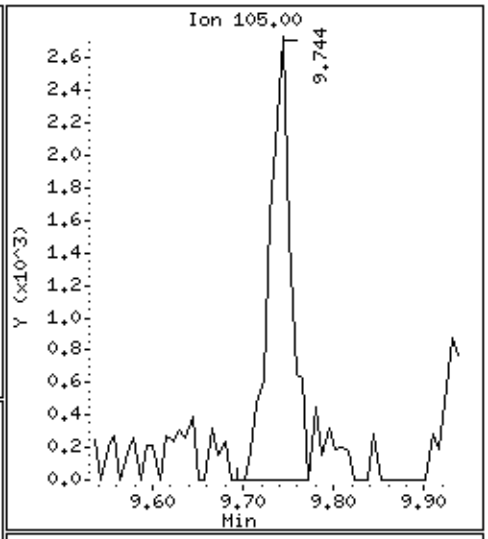
Concentration: 1.444 PPBV

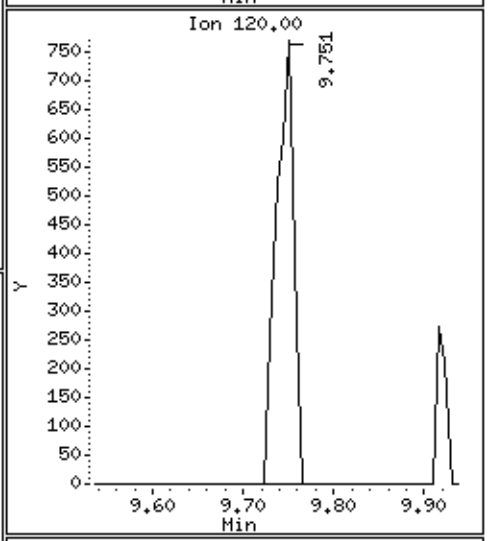


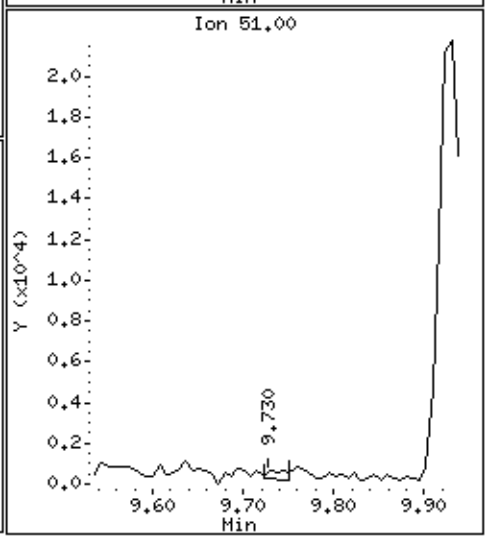












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B30SSV-3102815

Lab ID#: 1510593-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.37 J	5.9	1.8 J
Ethanol	4.8	23	9.0	43
Freon 113	1.2	0.21 J	9.1	1.6 J
Acetone	12	24	28	57
2-Propanol	4.8	9.6	12	24
Carbon Disulfide	4.8	0.70 J	15	2.2 J
Methylene Chloride	12	1.3 J	41	4.5 J
Methyl tert-butyl ether	1.2	0.22 J	4.3	0.80 J
Hexane	1.2	0.98 J	4.2	3.4 J
2-Butanone (Methyl Ethyl Ketone)	4.8	6.0	14	18
Tetrahydrofuran	1.2	0.98 J	3.5	2.9 J
Cyclohexane	1.2	6.0	4.1	21
2,2,4-Trimethylpentane	1.2	0.68 J	5.6	3.2 J
Benzene	1.2	1.4	3.8	4.3
Heptane	1.2	0.96 J	4.9	3.9 J
Trichloroethene	1.2	0.43 J	6.4	2.3 J
1,4-Dioxane	4.8	0.94 J	17	3.4 J
4-Methyl-2-pentanone	1.2	0.98 J	4.9	4.0 J
Toluene	1.2	0.96 J	4.5	3.6 J
Tetrachloroethene	1.2	0.48 J	8.1	3.2 J
2-Hexanone	4.8	2.7 J	19	11 J
m,p-Xylene	1.2	0.79 J	5.2	3.4 J
o-Xylene	1.2	0.36 J	5.2	1.6 J
1,1,2,2-Tetrachloroethane	1.2	0.25 J	8.2	1.7 J
1,2,4-Trimethylbenzene	1.2	0.31 J	5.8	1.5 J
Naphthalene	2.4	0.12 J	12	0.62 J

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Client Sample ID: B30SSV-3102815

Lab ID#: 1510593-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110219**	**Date of Collection:**	**10/28/15 12:31:00 P**
Dil. Factor:	**2.38**	**Date of Analysis:**	**11/2/15 09:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.37 J	5.9	1.8 J
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	23	9.0	43
Freon 113	1.2	0.21 J	9.1	1.6 J
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	12	24	28	57
2-Propanol	4.8	9.6	12	24
Carbon Disulfide	4.8	0.70 J	15	2.2 J
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	1.3 J	41	4.5 J
Methyl tert-butyl ether	1.2	0.22 J	4.3	0.80 J
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	0.98 J	4.2	3.4 J
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	6.0	14	18
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	0.98 J	3.5	2.9 J
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	6.0	4.1	21
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	0.68 J	5.6	3.2 J
Benzene	1.2	1.4	3.8	4.3
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	0.96 J	4.9	3.9 J
Trichloroethene	1.2	0.43 J	6.4	2.3 J
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	0.94 J	17	3.4 J
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	0.98 J	4.9	4.0 J
Toluene	1.2	0.96 J	4.5	3.6 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	0.48 J	8.1	3.2 J
2-Hexanone	4.8	2.7 J	19	11 J

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Client Sample ID: B30SSV-3102815

Lab ID#: 1510593-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110219**	**Date of Collection:**	**10/28/15 12:31:00 P**
Dil. Factor:	**2.38**	**Date of Analysis:**	**11/2/15 09:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	0.79 J	5.2	3.4 J
o-Xylene	1.2	0.36 J	5.2	1.6 J
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	0.25 J	8.2	1.7 J
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	0.31 J	5.8	1.5 J
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected
Naphthalene	2.4	0.12 J	12	0.62 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	113	70-130
1,2-Dichloroethane-d4	124	70-130
4-Bromofluorobenzene	93	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110219.d
Lab Smp Id: 1510593-03A
Inj Date : 02-NOV-2015 21:42
Operator : js Inst ID: msd3.i
Smp Info : 200ml 1L1808
Misc Info : 4.7 Hg->14.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 4
Dil Factor: 2.38000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.38000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	93665	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	76386			42.88- 102.88	81.55
5.592	5.592 (1.000)	49	272369			207.65- 267.65	290.79
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	407518	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	65312			0.00- 45.78	16.03
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	464437	25.0000		80.00- 120.00	100.00
8.935	8.934 (1.000)	82	288850			26.67- 86.67	62.19
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	254225	31.0677	31.068	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	113224			22.68- 82.68	44.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	494723	28.2795	28.279	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	60155			0.00- 41.75	12.16
7.702	7.702 (1.187)	100	323196			34.13- 94.13	65.33
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	266454	23.2283	23.228	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	360061			96.73- 156.73	135.13
9.923	9.923 (1.110)	176	253320			65.47- 125.47	95.07
11 Freon 12					CAS #: 75-71-8		
1.619	1.605 (0.289)	85	1523	0.15562	0.3704	80.00- 120.00	100.00(a)
1.591	1.605 (0.284)	87	1333			2.62- 62.62	87.59
42 Ethanol					CAS #: 64-17-5		
3.102	3.074 (0.555)	45	23081	9.52206	22.662	80.00- 120.00	100.00
3.116	3.074 (0.557)	43	4895			0.00- 51.11	21.21
3.102	3.060 (0.555)	46	8108			10.70- 70.70	35.13
49 Freon 113					CAS #: 76-13-1		
3.340	3.368 (0.597)	151	591	0.08870	0.2111	80.00- 120.00	100.00(a)
3.256	3.368 (0.582)	153	297			35.19- 95.19	50.34
3.340	3.368 (0.597)	101	831			88.07- 148.07	140.43
52 Acetone					CAS #: 67-64-1		
3.563	3.549 (0.637)	58	25853	10.0292	23.870	80.00- 120.00	100.00
3.563	3.549 (0.637)	43	101027			351.83- 411.83	390.77
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	2791	0.29516	0.7025	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.759	3.717 (0.672)	45	43996	4.03465	9.602	80.00- 120.00	100.00
3.745	3.717 (0.670)	43	7677			0.00- 48.10	17.45
3.759	3.717 (0.672)	59	2212			0.00- 33.34	5.03
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	4230	0.54531	1.298	80.00- 120.00	100.00(a)
4.039	4.053 (0.722)	84	1004			9.02- 69.02	23.74
4.025	4.053 (0.720)	51	773			0.00- 59.58	18.27
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.291	4.277 (0.767)	73	1060	0.09270	0.2206	80.00- 120.00	100.00(a)
4.263	4.277 (0.762)	57	857			2.00- 62.00	80.89
4.263	4.263 (0.762)	41	1069			3.65- 63.65	100.81

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Hexane						CAS #: 110-54-3		
4.501	4.501	(0.805)	57	3629	0.41135	0.9790	80.00- 120.00	100.00(a)
4.501	4.501	(0.805)	43	3058			44.95- 104.95	84.27
4.487	4.501	(0.802)	86	1299			0.00- 40.12	35.81
92 2-Butanone						CAS #: 78-93-3		
5.410	5.396	(0.967)	72	4468	2.51105	5.976	80.00- 120.00	100.00
5.396	5.382	(0.965)	43	26397			717.19- 777.19	590.76
5.396	5.396	(0.965)	57	3290			21.09- 81.09	73.65
99 Tetrahydrofuran						CAS #: 109-99-9		
5.606	5.592	(1.002)	42	3252	0.41305	0.9830	80.00- 120.00	100.00(a)
5.592	5.592	(1.000)	71	1274			0.00- 49.93	39.18
5.606	5.592	(1.002)	72	915			0.00- 50.49	28.13
102 Cyclohexane						CAS #: 110-82-7		
5.760	5.760	(1.030)	84	12888	2.53288	6.028	80.00- 120.00	100.00
5.760	5.760	(1.030)	56	30839			165.55- 225.55	239.27
5.760	5.760	(1.030)	41	20082			88.39- 148.39	155.81
113 2,2,4-Trimethylpentane						CAS #: 540-84-1		
6.082	6.082	(1.088)	57	8715	0.28565	0.6798	80.00- 120.00	100.00(a)
6.082	6.082	(1.088)	56	3224			2.46- 62.46	37.00
6.082	6.082	(1.088)	41	7498			0.00- 55.56	86.03
116 Benzene						CAS #: 71-43-2		
6.110	6.110	(0.942)	78	6407	0.56849	1.353	80.00- 120.00	100.00
6.110	6.110	(0.942)	77	4027			0.00- 54.02	62.86
121 Heptane						CAS #: 142-82-5		
6.236	6.250	(0.961)	71	1747	0.40245	0.9578	80.00- 120.00	100.00(a)
6.250	6.250	(0.963)	43	5122			309.54- 369.54	293.05
6.264	6.250	(0.965)	57	2777			143.16- 203.16	158.90
125 Trichloroethene						CAS #: 79-01-6		
6.671	6.678	(1.028)	95	1017	0.17926	0.4266	80.00- 120.00	100.00(a)
6.664	6.678	(1.027)	130	241			68.86- 128.86	23.69
6.671	6.678	(1.028)	97	277			32.82- 92.82	27.29
136 1,4-Dioxane						CAS #: 123-91-1		
7.022	7.008	(1.082)	88	1133	0.39741	0.9458	80.00- 120.00	100.00(a)
7.022	7.008	(1.082)	58	907			79.36- 139.36	80.05
7.008	7.008	(1.080)	57	2138			6.63- 66.63	188.66
145 4-Methyl-2-pentanone						CAS #: 108-10-1		
7.631	7.631	(1.176)	58	2708	0.41209	0.9808	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
145 4-Methyl-2-pentanone (continued)							
7.631	7.631 (1.176)	43	5573			274.73- 334.73	205.73
7.624	7.631 (1.175)	85	473			0.00- 58.76	17.46
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	6314	0.40447	0.9626	80.00- 120.00	100.00(a)
7.760	7.760 (1.196)	92	4271			27.05- 87.05	67.65
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	1825	0.20142	0.4794	80.00- 120.00	100.00(a)
8.204	8.197 (0.917)	129	1046			47.11- 107.11	57.34
8.190	8.197 (0.916)	131	1715			43.50- 103.50	93.99
158 2-Hexanone					CAS #: 591-78-6		
8.319	8.318 (0.930)	58	11411	1.13754	2.707	80.00- 120.00	100.00(a)
8.319	8.318 (0.930)	43	24671			189.79- 249.79	216.20
8.326	8.318 (0.931)	100	1291			0.00- 43.05	11.32
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	3341	0.33346	0.7936	80.00- 120.00	100.00(a)
9.106	9.106 (1.018)	91	6915			185.23- 245.23	206.98
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	1483	0.15234	0.3626	80.00- 120.00	100.00(a)
9.450	9.450 (1.057)	91	3409			194.61- 254.61	229.78
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.045	10.052 (1.123)	83	1513	0.10366	0.2467	80.00- 120.00	100.00(a)
10.016	10.052 (1.120)	85	155			34.99- 94.99	10.27
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.561	10.553 (1.181)	105	3520	0.13008	0.3096	80.00- 120.00	100.00(a)
10.553	10.553 (1.180)	120	1982			13.81- 73.81	56.31
228 Naphthalene					CAS #: 91-20-3		
12.960	12.967 (1.449)	128	1869	0.04970	0.1183	80.00- 120.00	100.00(a)
12.967	12.960 (1.450)	127	567			0.00- 42.95	30.34

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110219.d
Lab Smp Id: 1510593-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 4.7 Hg->14.8 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	93665	-14.67
123 1,4-Difluorobenze	462095	277257	646933	407518	-11.81
163 Chlorobenzene-d5	458379	275027	641731	464437	1.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 04-Nov-2015 07:14

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-03A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 4.7 Hg->14.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	31.068	124.27	70-130
$ 146 Toluene-d8	25.000	28.279	113.12	70-130
$ 177 4-Bromofluorobenze	25.000	23.228	92.91	70-130

Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

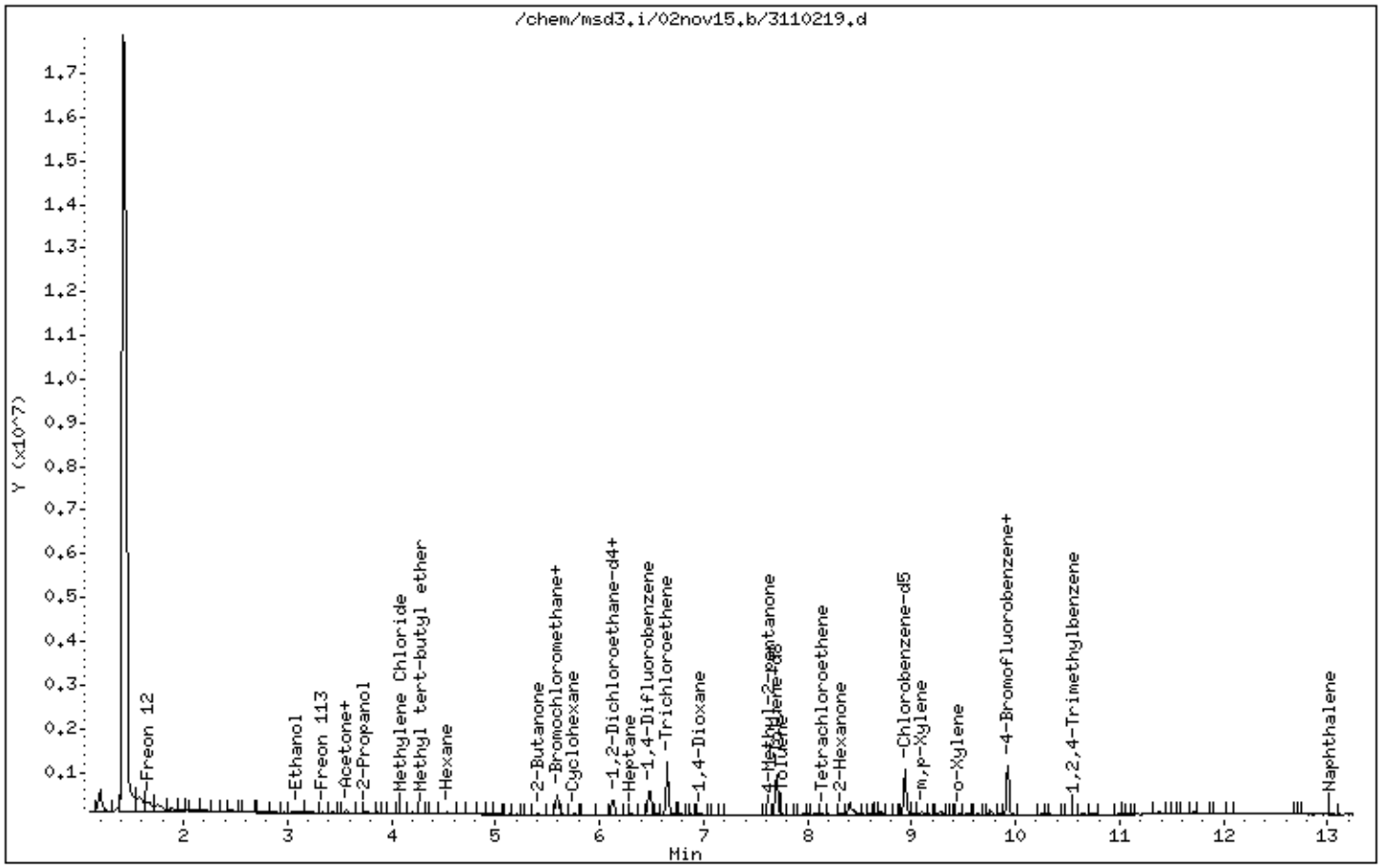
Instrument: msd3.i

Sample Info: 200ml 1L1808

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

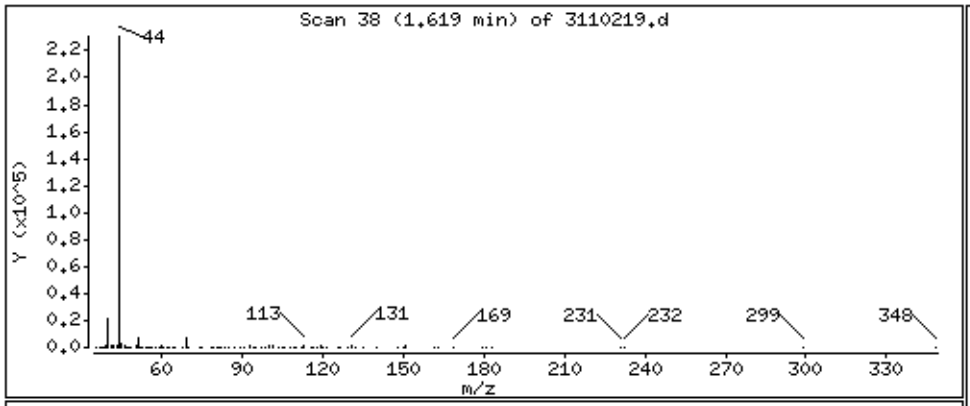
Operator: js

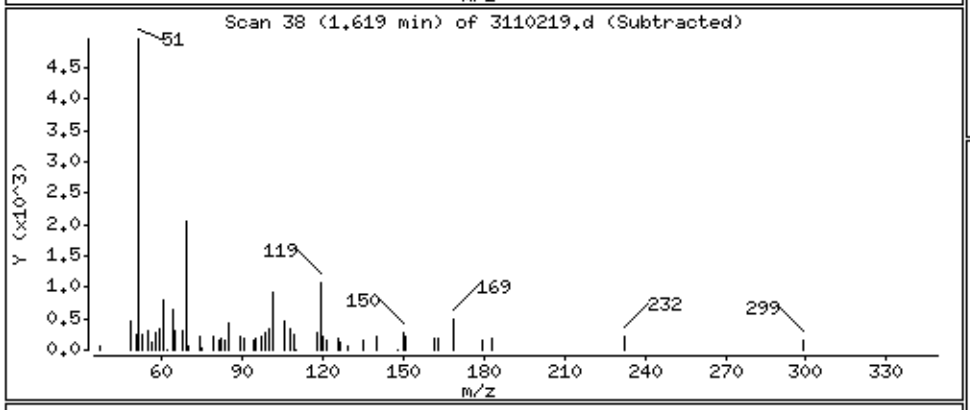
Column phase: RTX-624

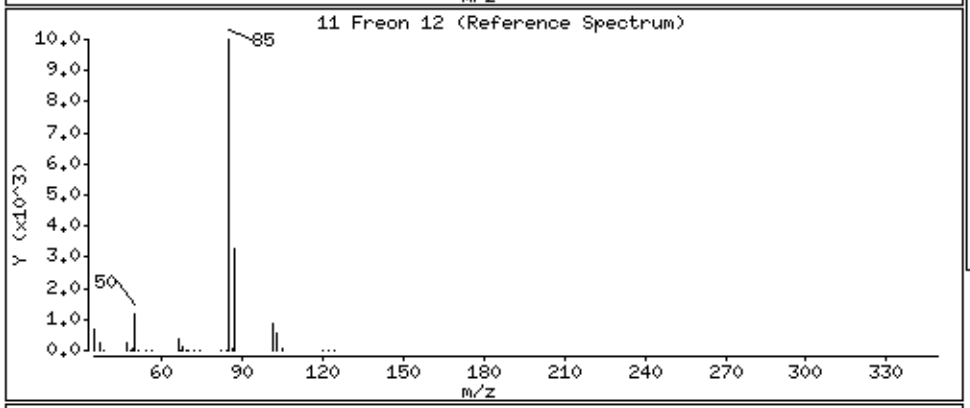
Column diameter: 0.25

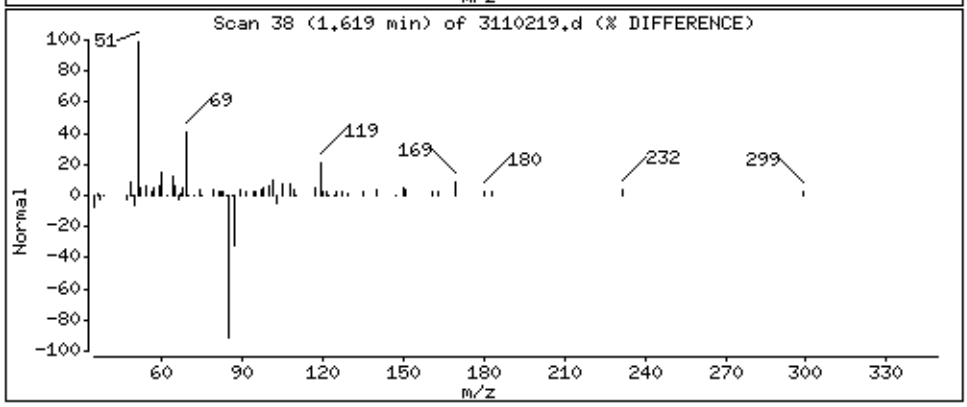
11 Freon 12

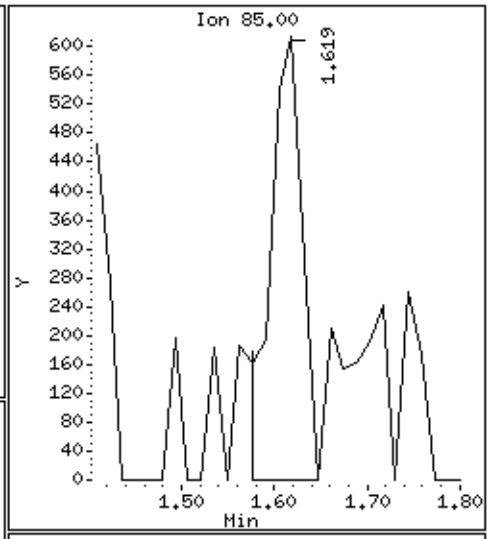
Concentration: 0.3704 PPBV

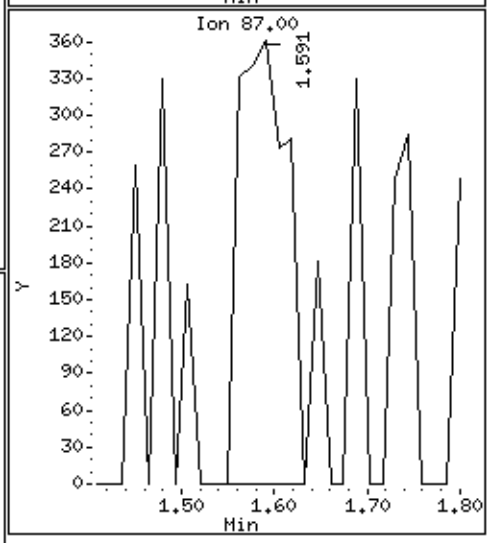












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

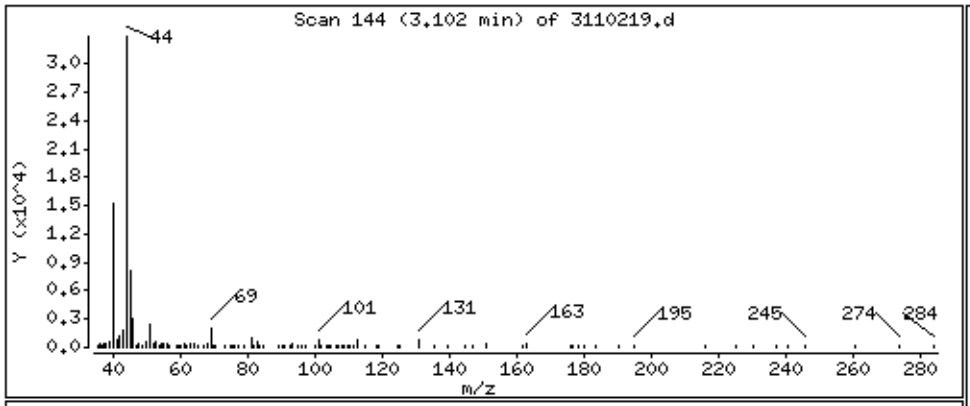
Operator: js

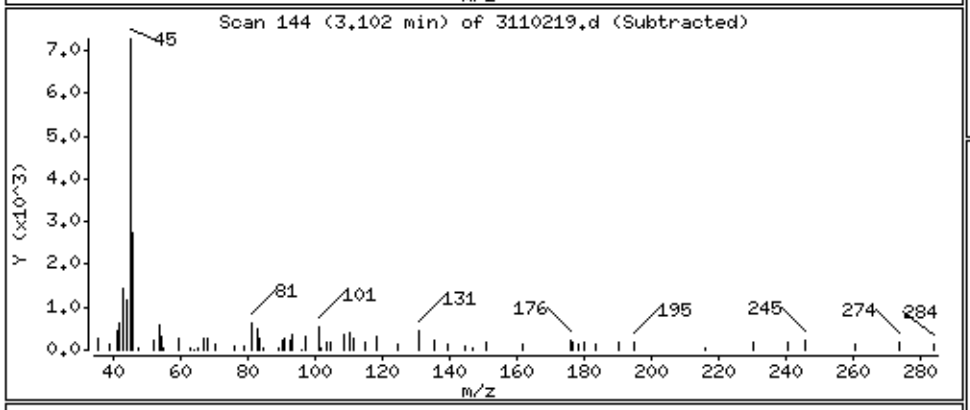
Column phase: RTX-624

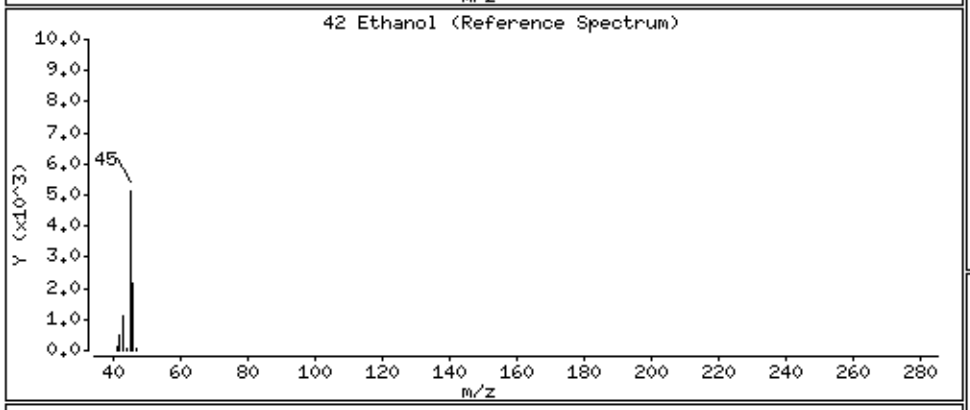
Column diameter: 0.25

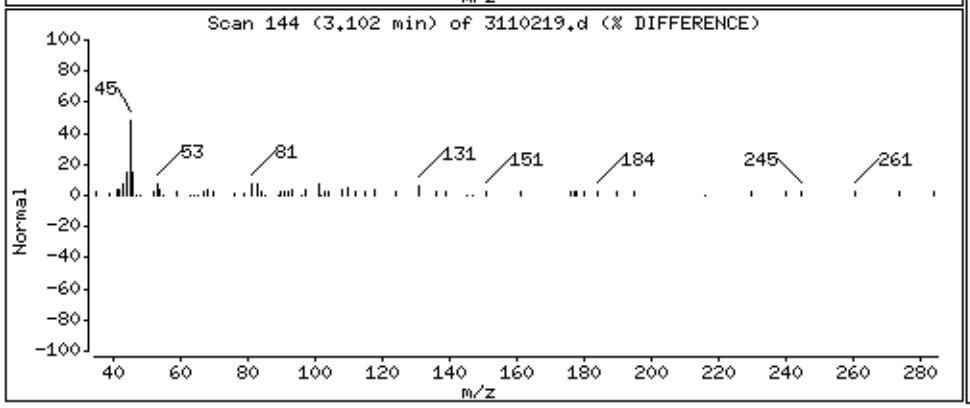
42 Ethanol

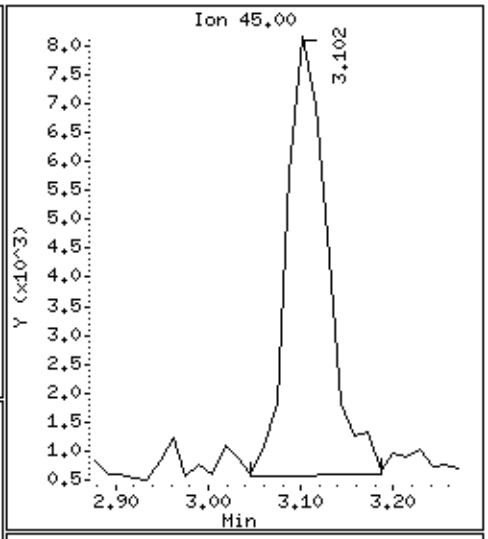
Concentration: 22.662 PPBV

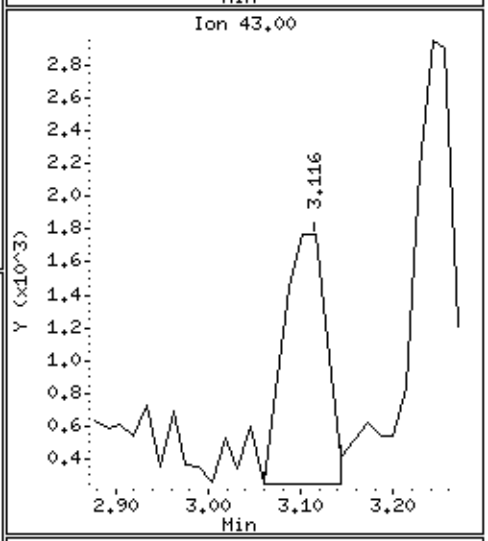


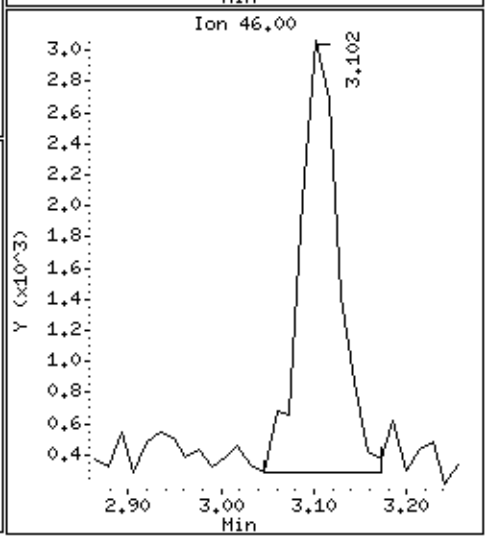












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

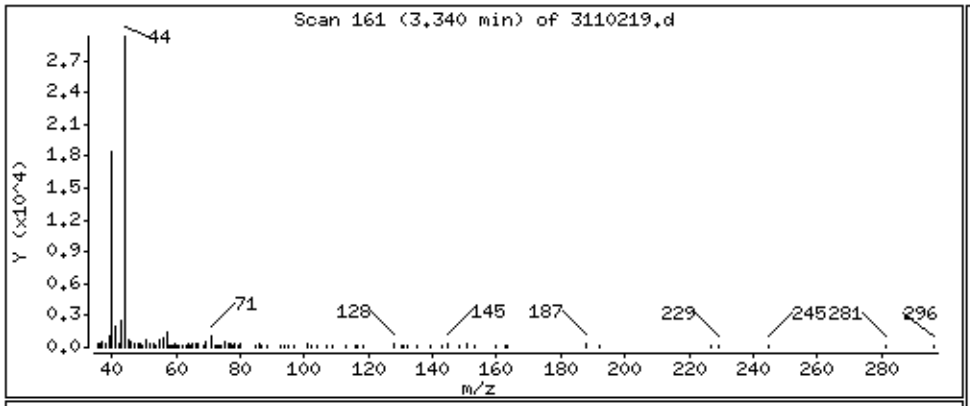
Operator: js

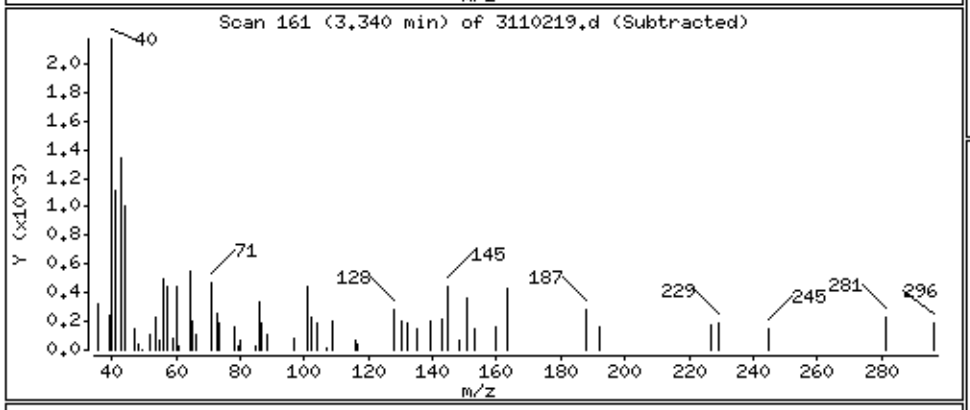
Column phase: RTX-624

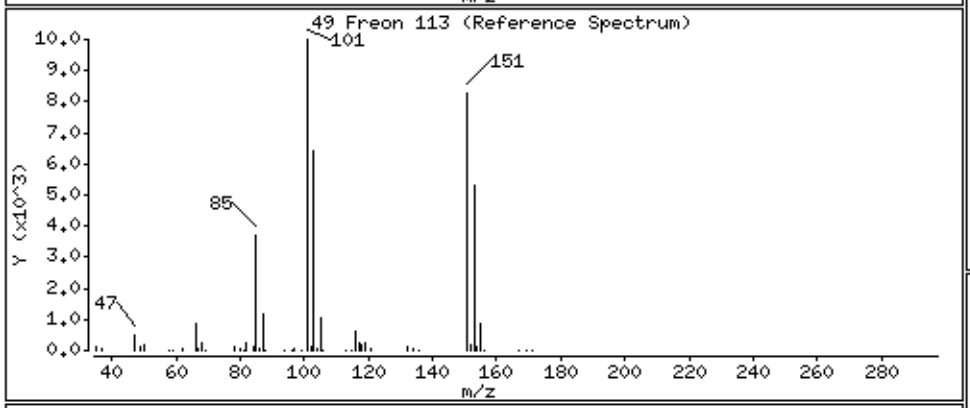
Column diameter: 0.25

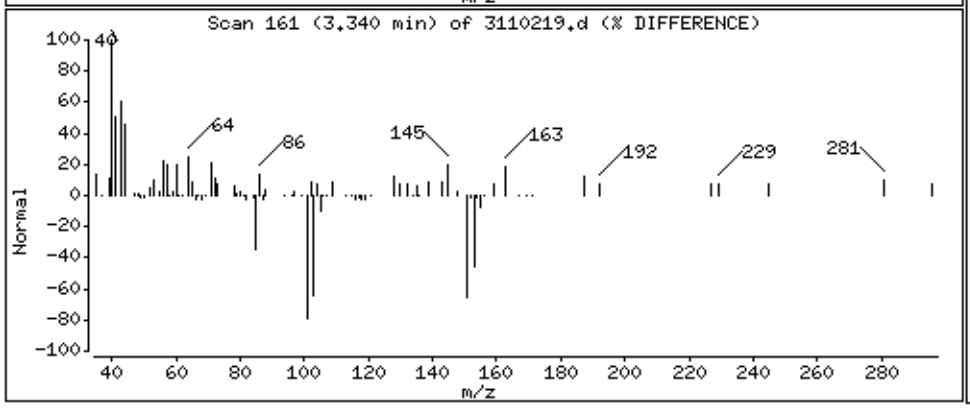
49 Freon 113

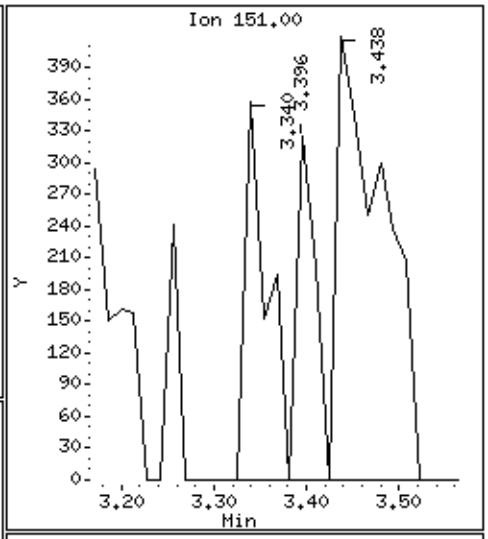
Concentration: 0.2111 PPBV

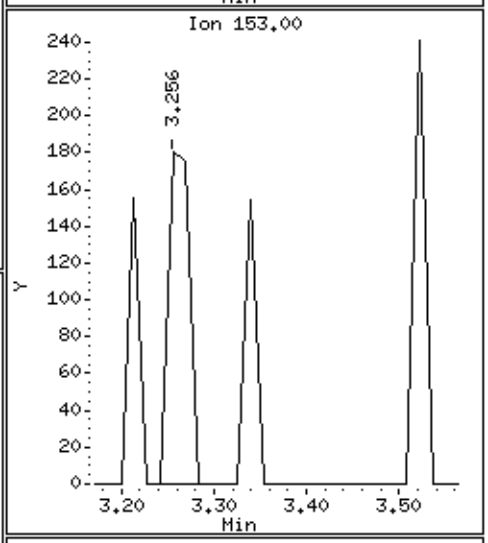


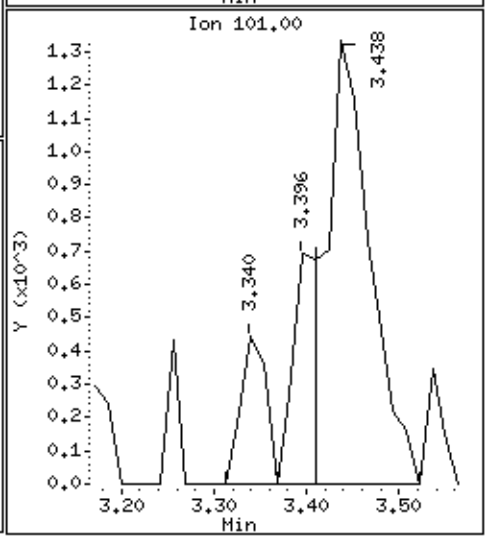












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

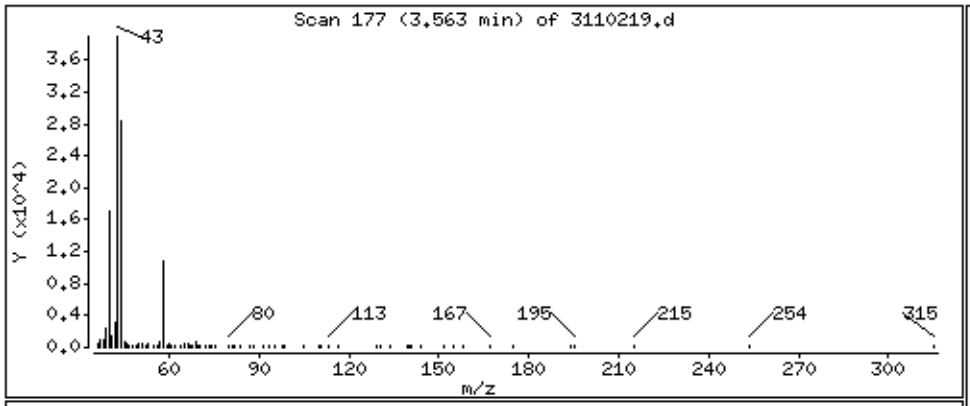
Operator: js

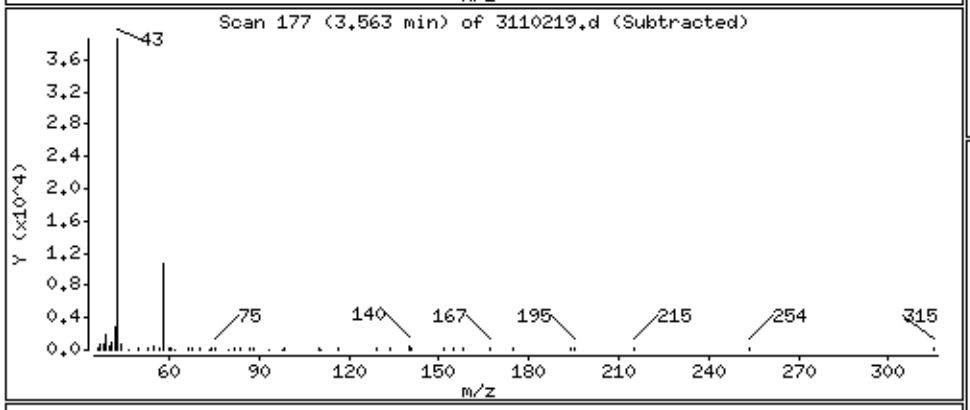
Column phase: RTX-624

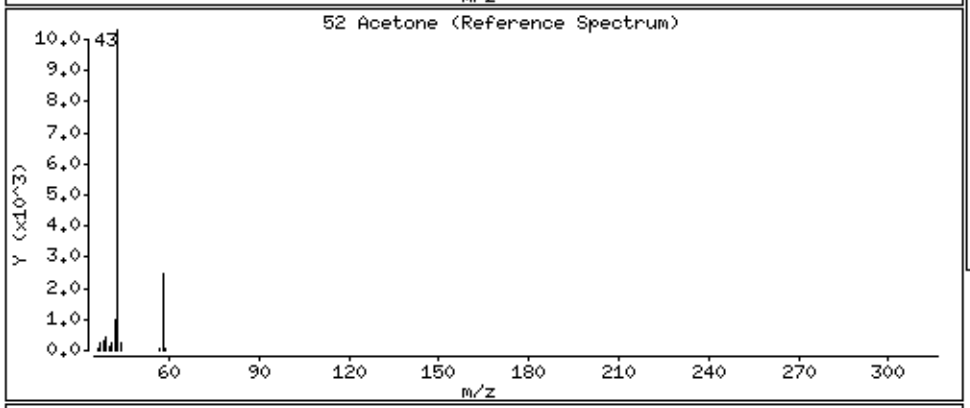
Column diameter: 0.25

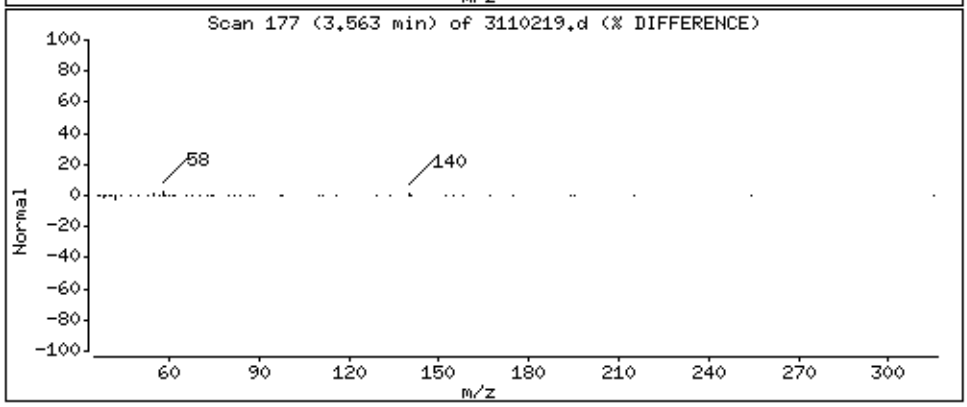
52 Acetone

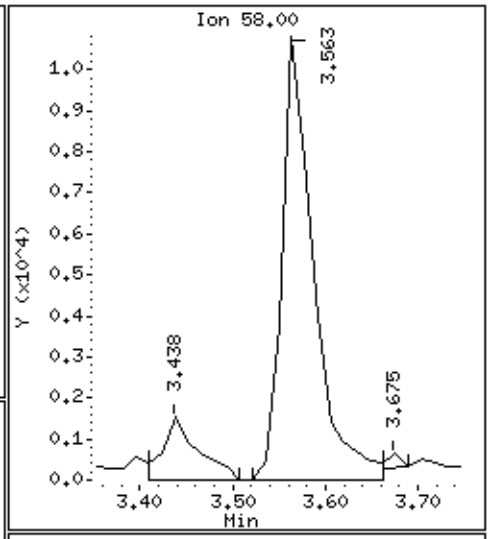
Concentration: 23.870 PPBV

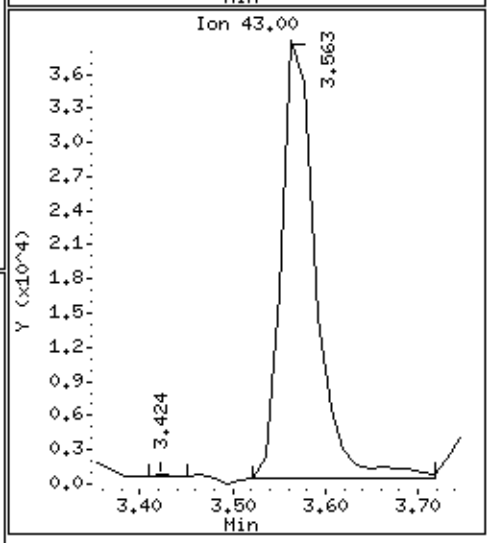












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

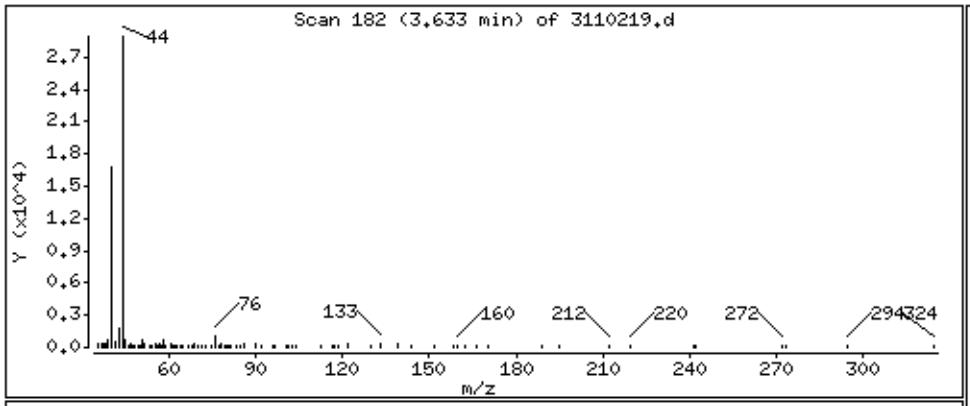
Operator: js

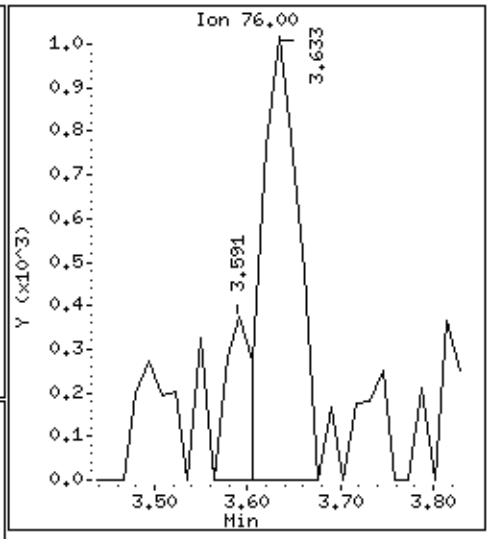
Column phase: RTX-624

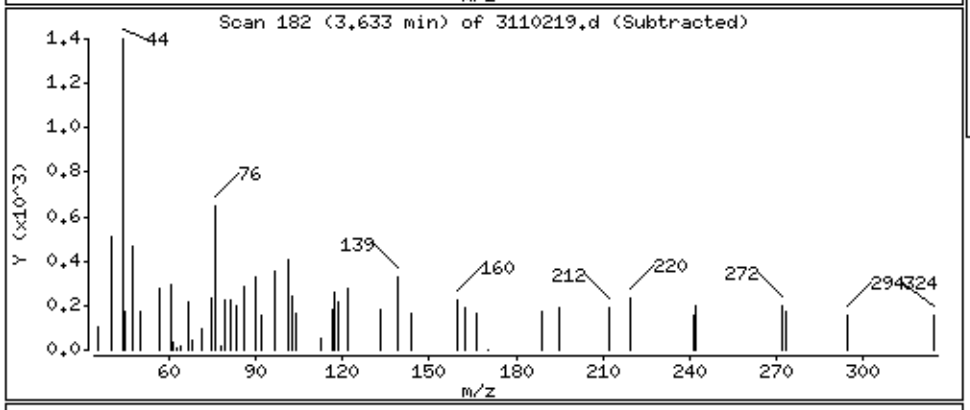
Column diameter: 0.25

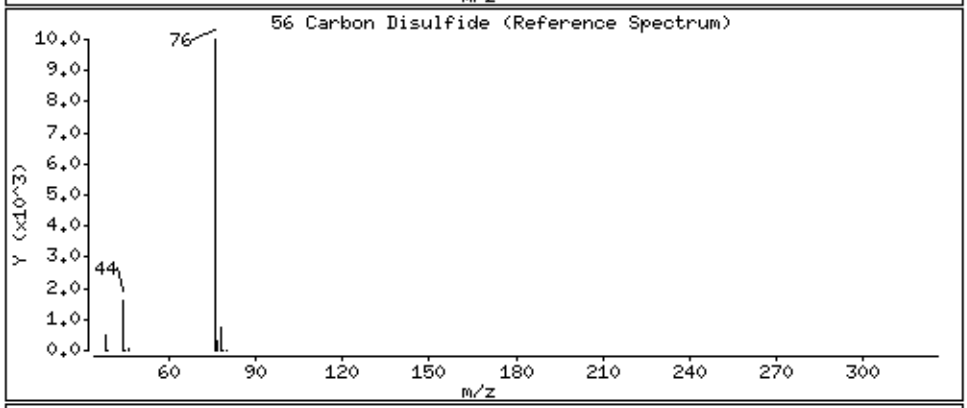
56 Carbon Disulfide

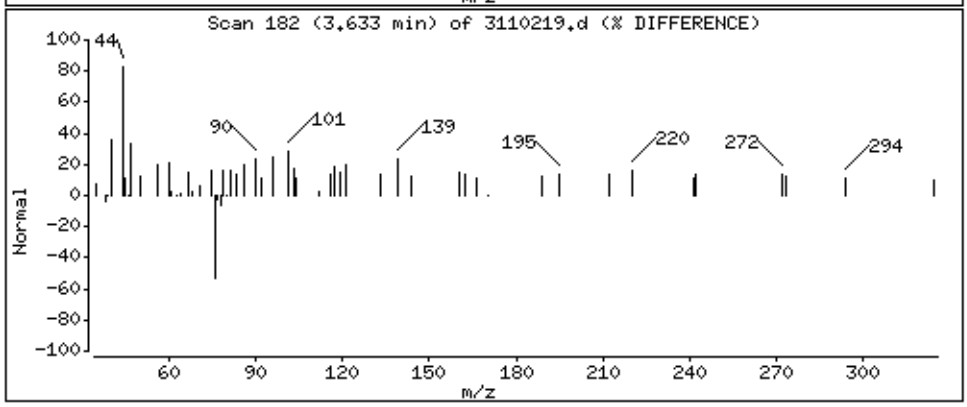
Concentration: 0.7025 PPBV











Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

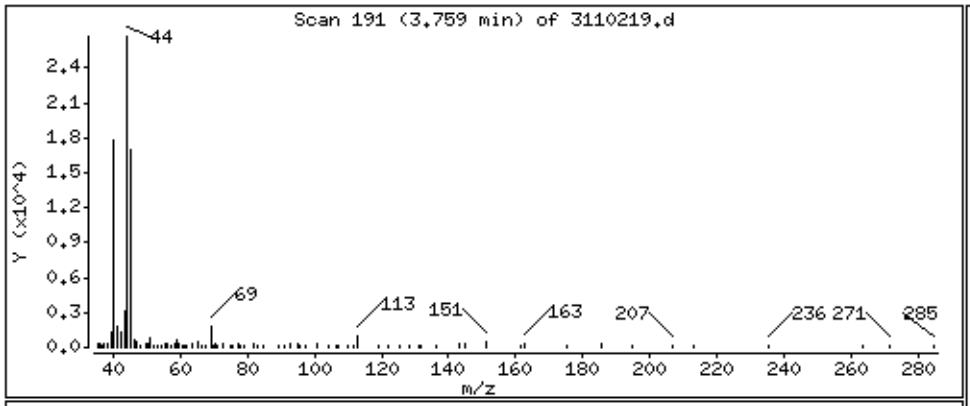
Operator: js

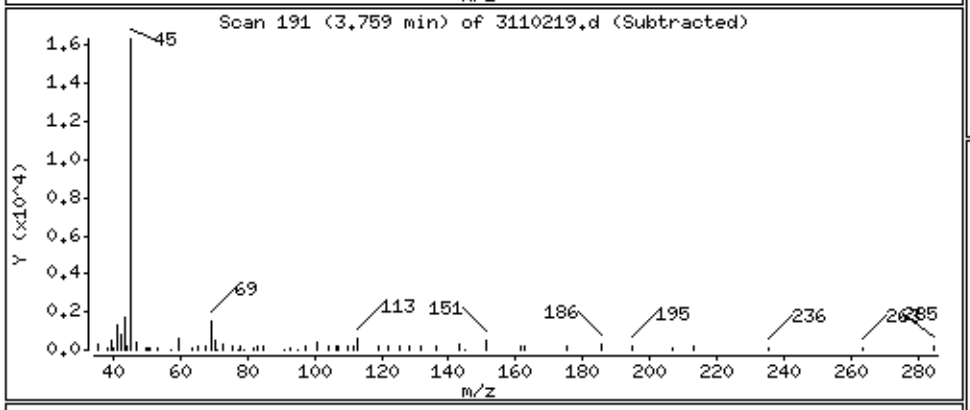
Column phase: RTX-624

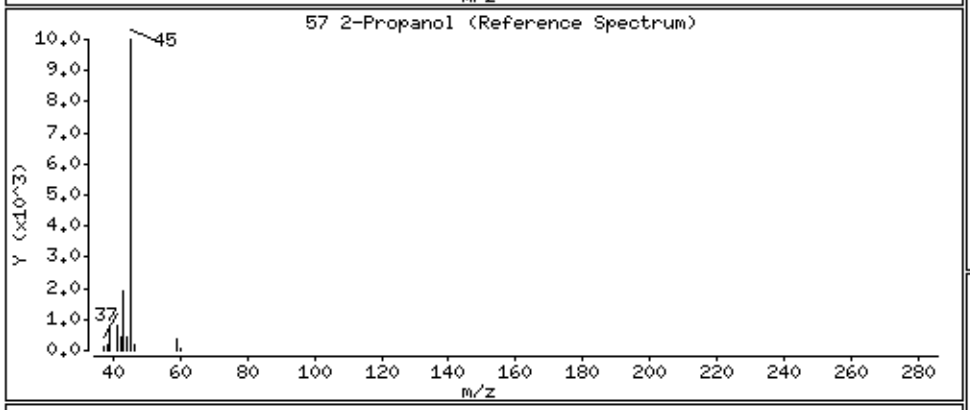
Column diameter: 0.25

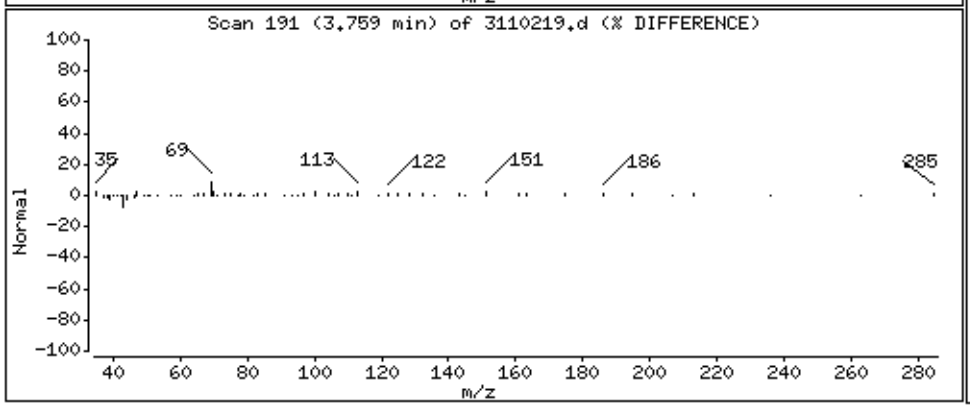
57 2-Propanol

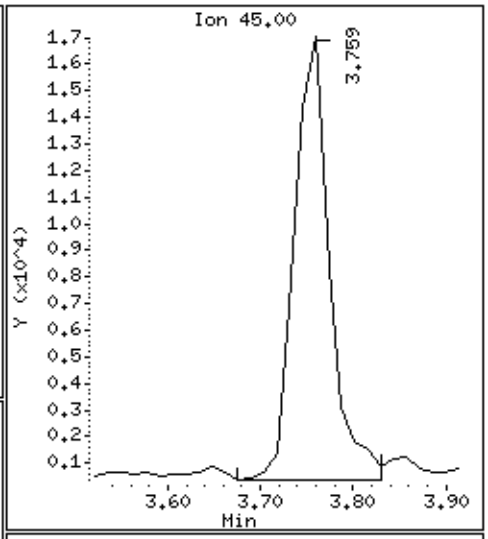
Concentration: 9.602 PPBV

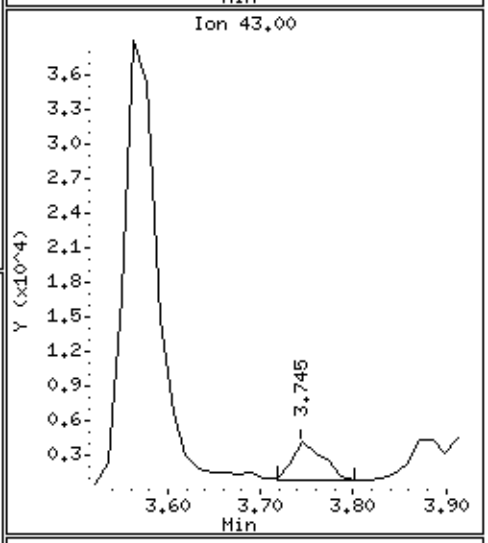


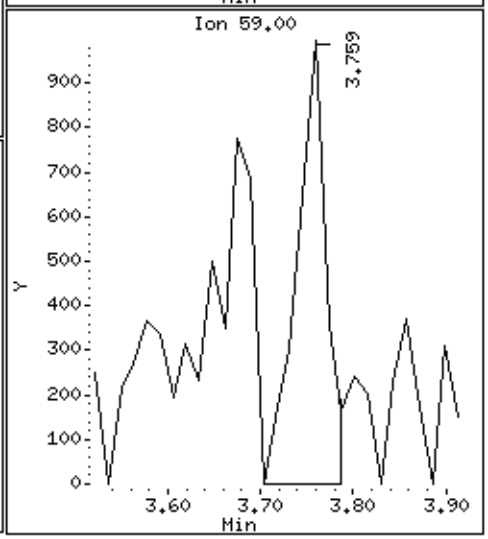












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

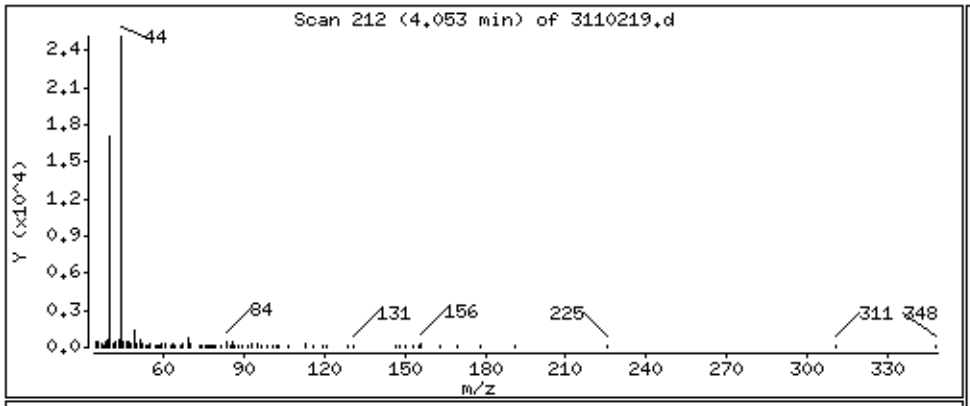
Operator: js

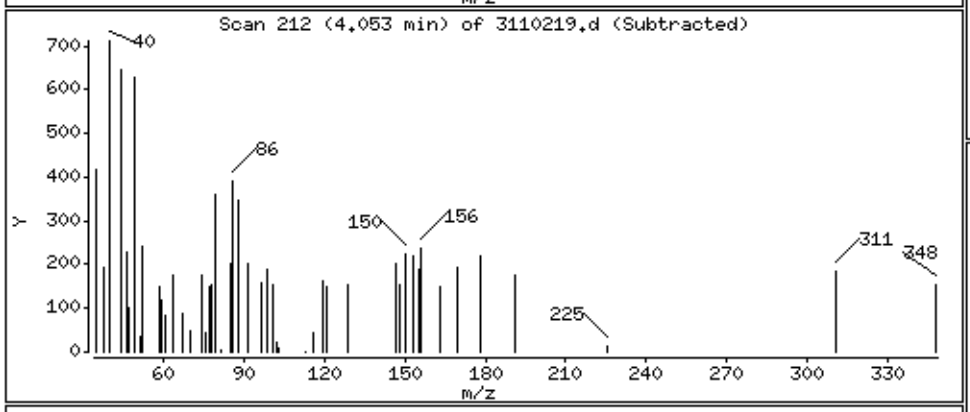
Column phase: RTX-624

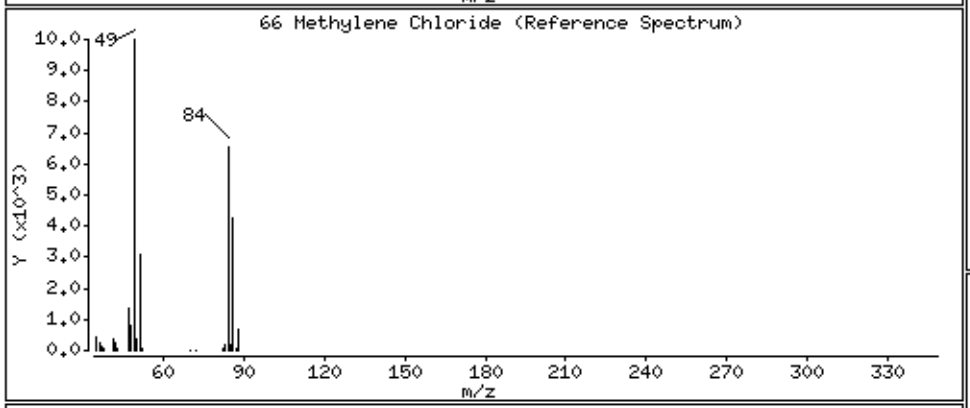
Column diameter: 0.25

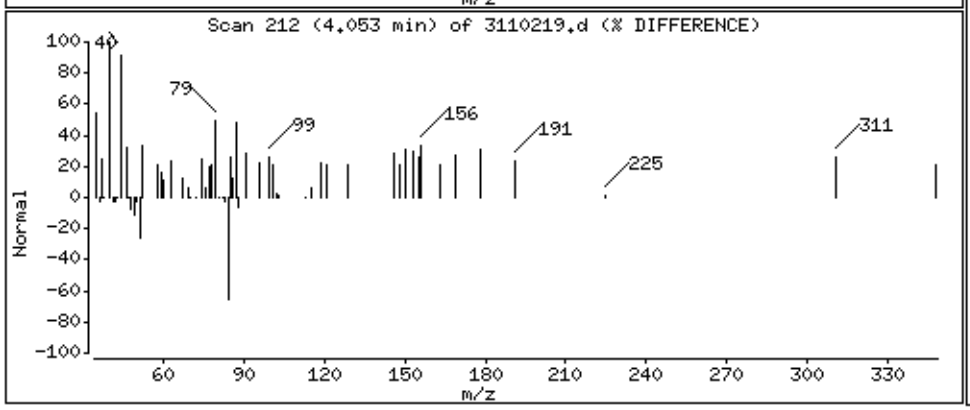
66 Methylene Chloride

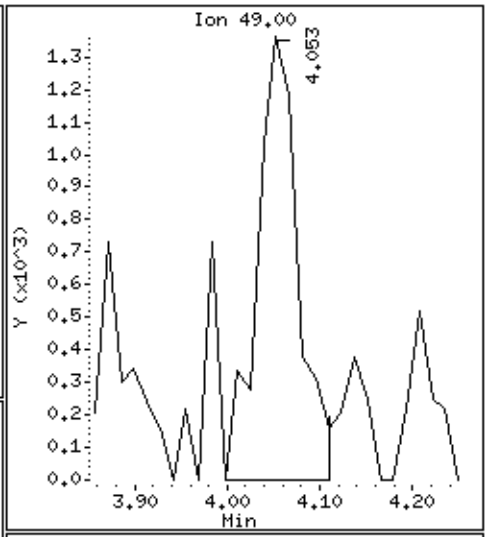
Concentration: 1.298 PPBV

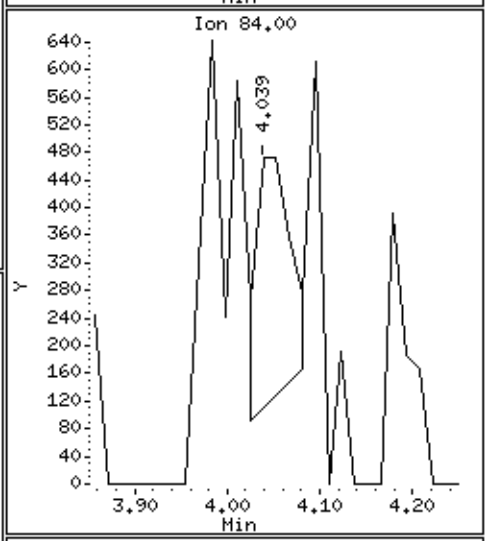


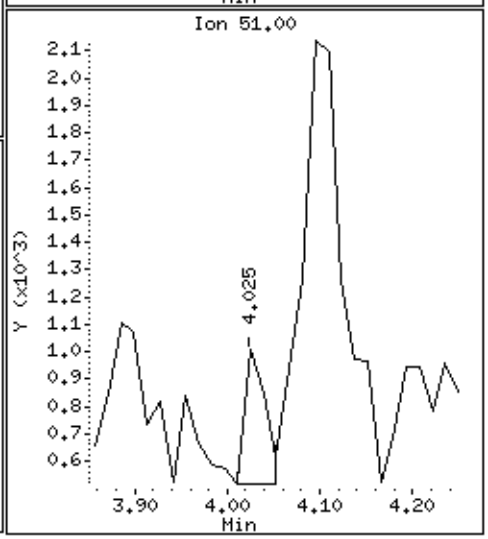












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

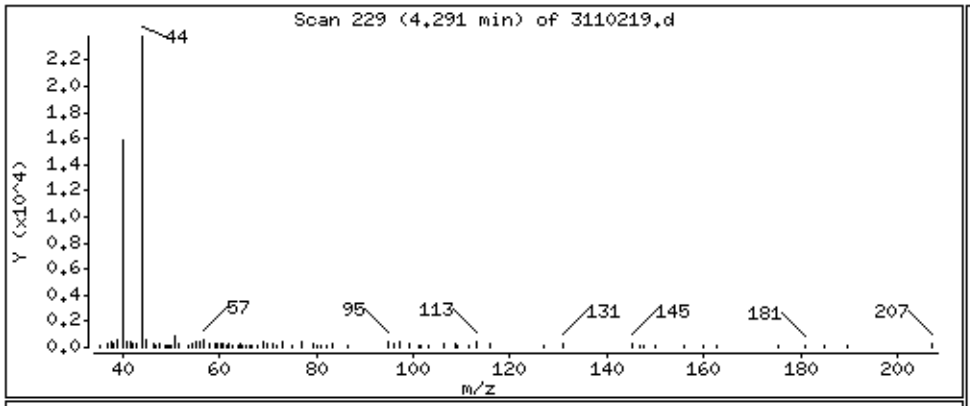
Operator: js

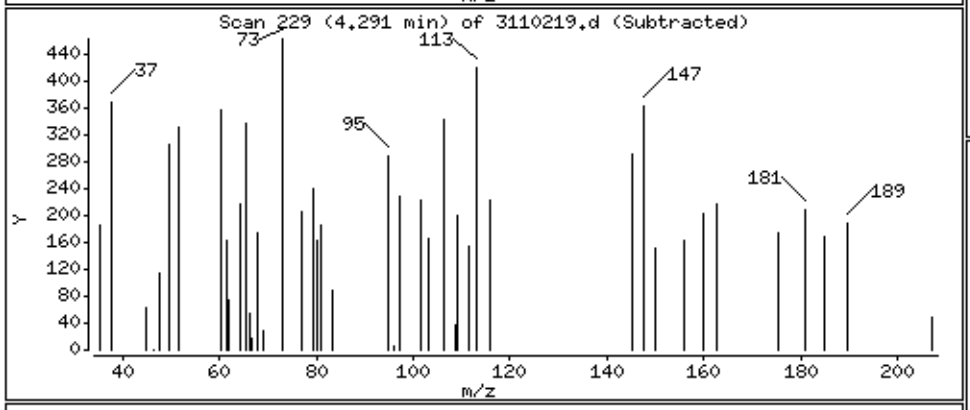
Column phase: RTX-624

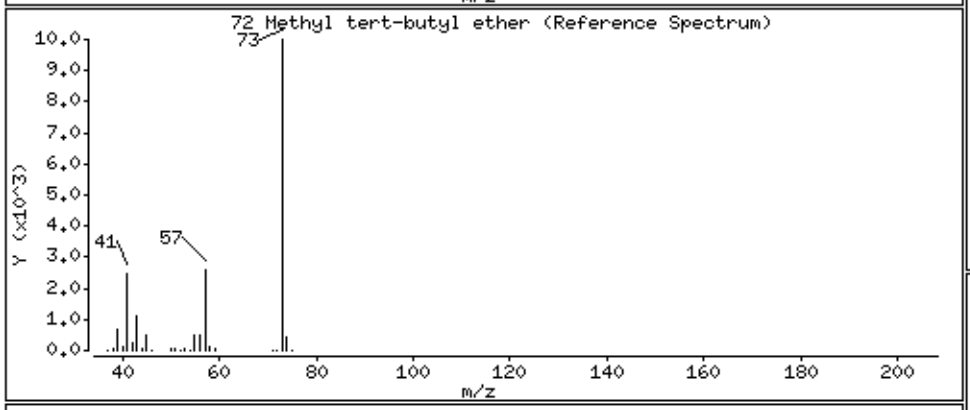
Column diameter: 0.25

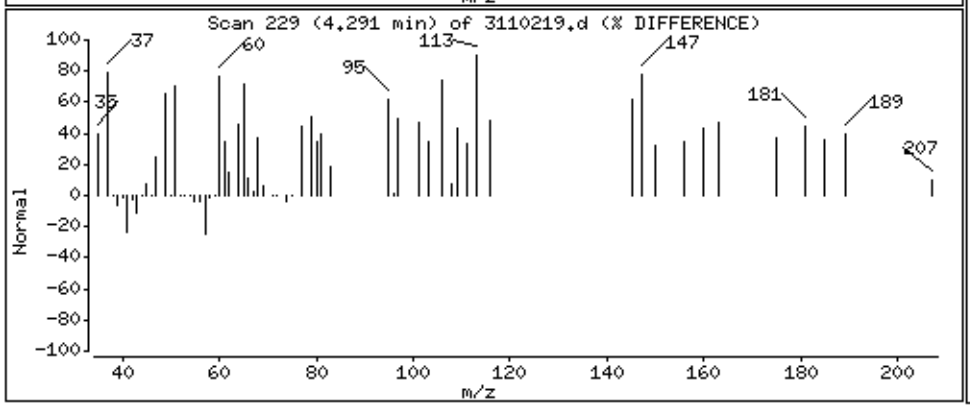
72 Methyl tert-butyl ether

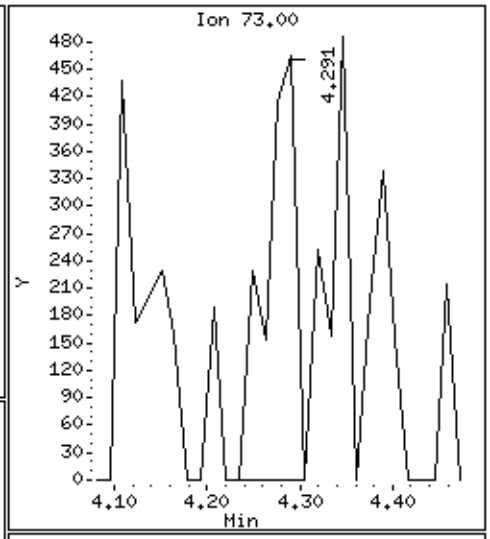
Concentration: 0.2206 PPBV

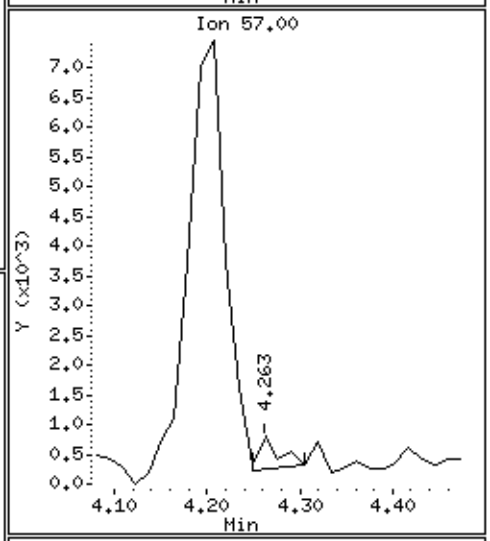


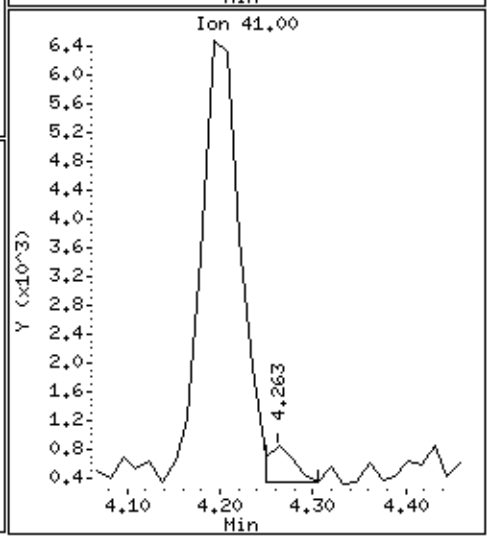












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

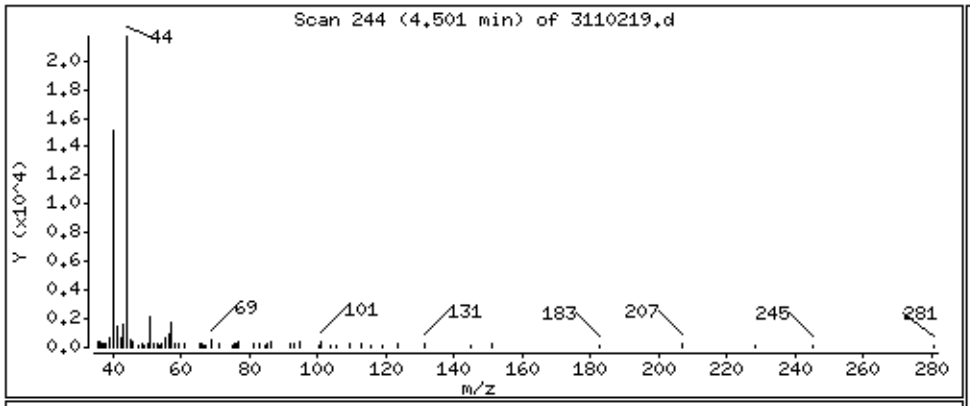
Operator: js

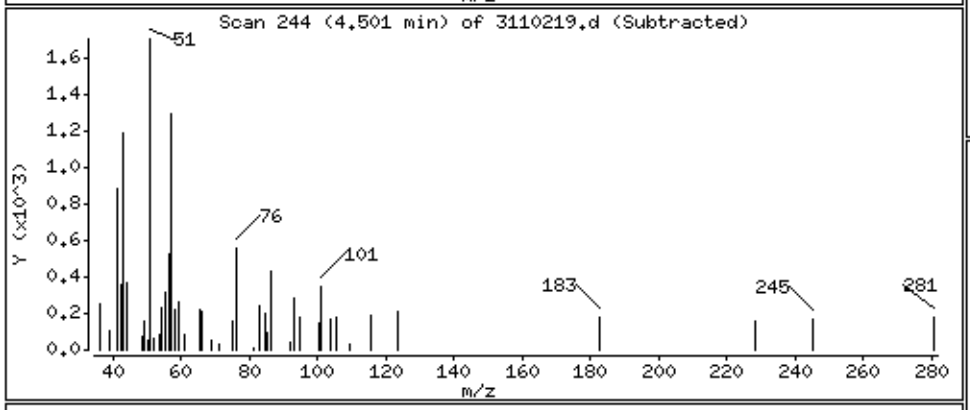
Column phase: RTX-624

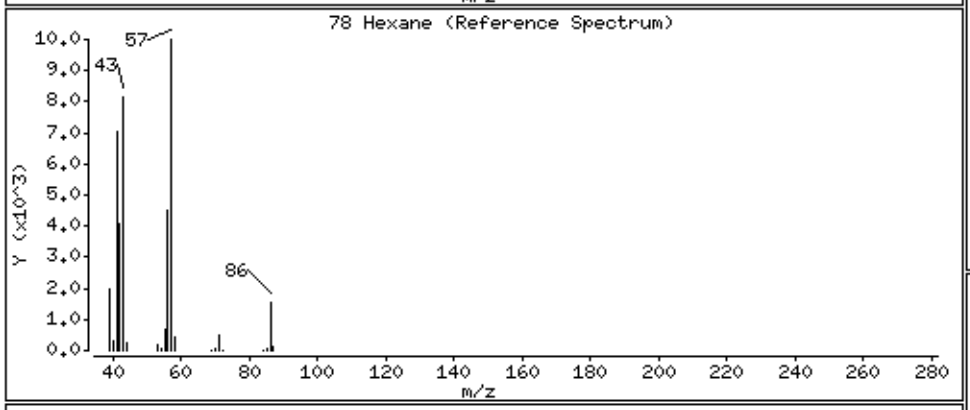
Column diameter: 0.25

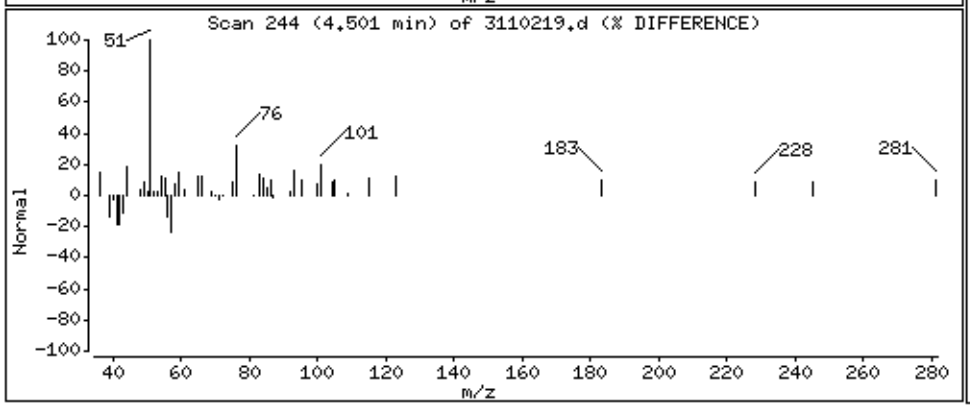
78 Hexane

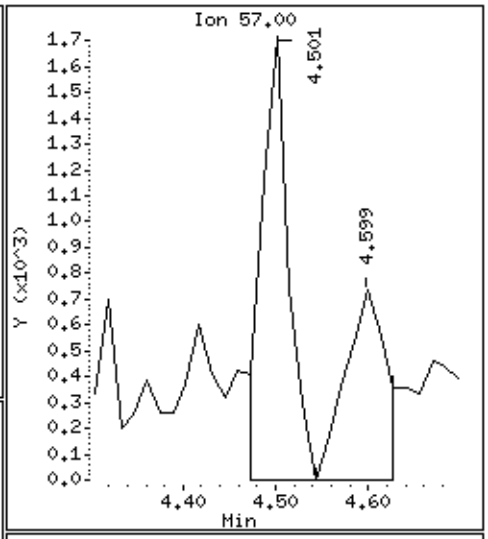
Concentration: 0.9790 PPBV

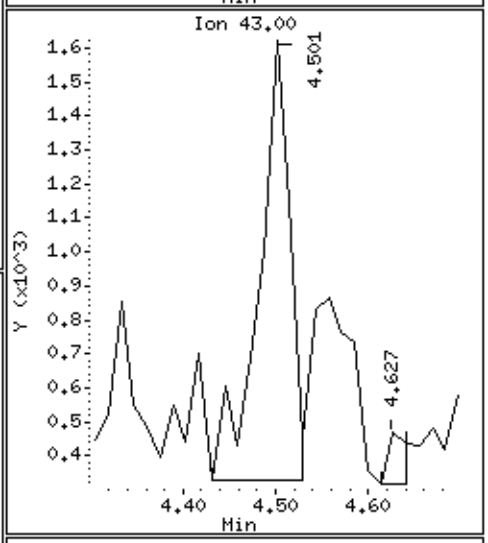


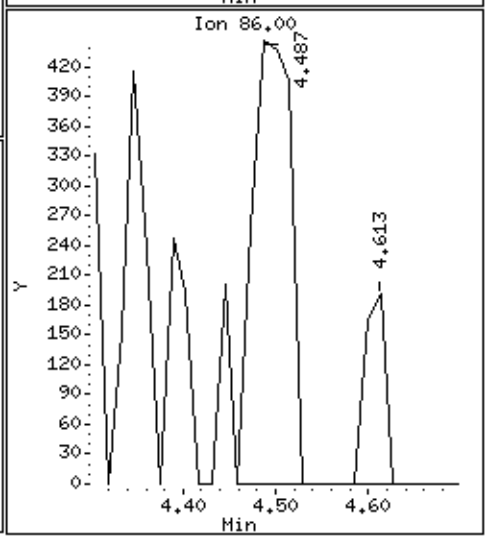












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

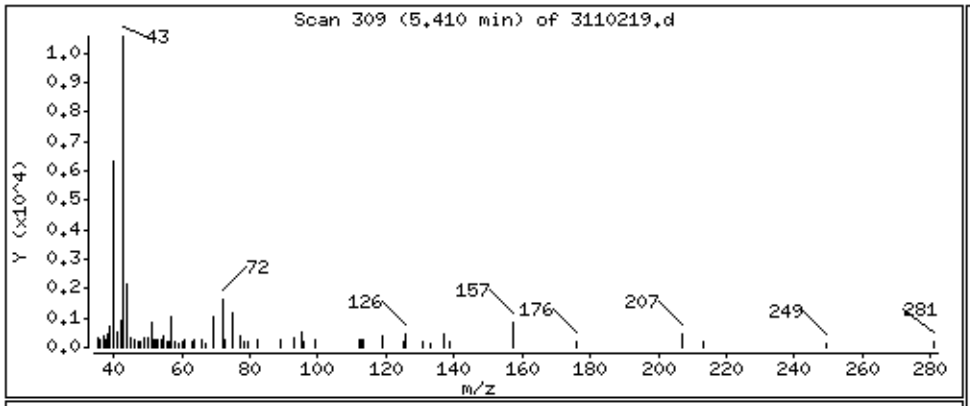
Operator: js

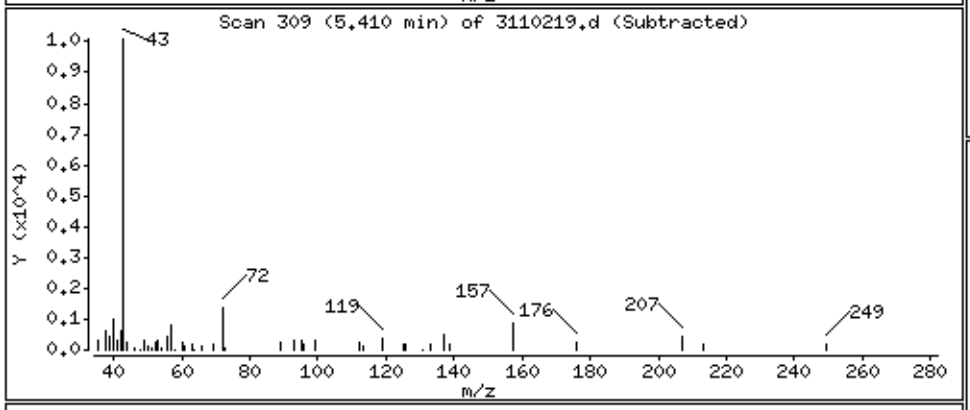
Column phase: RTX-624

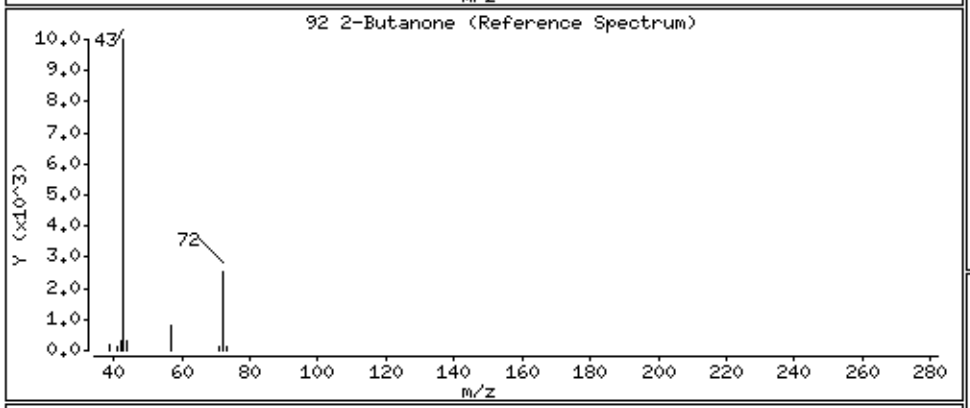
Column diameter: 0.25

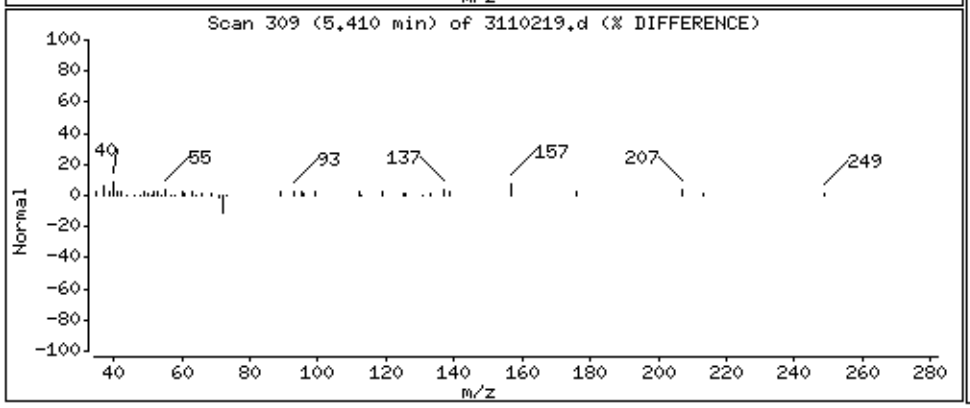
92 2-Butanone

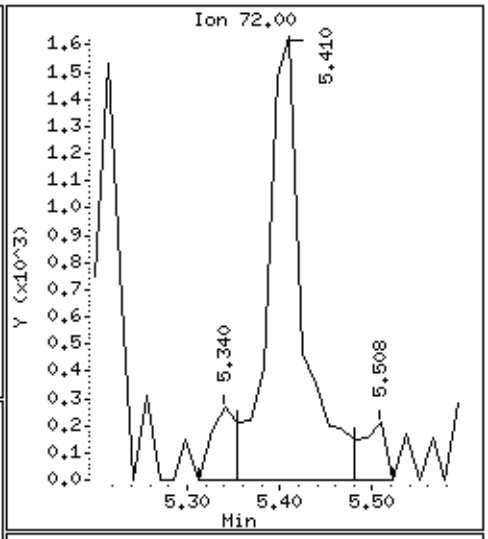
Concentration: 5.976 PPBV

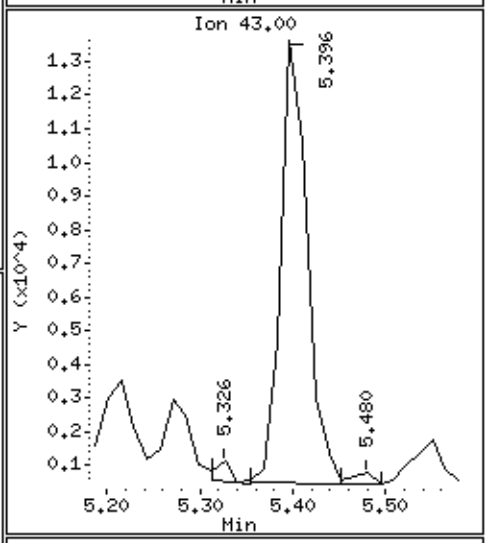


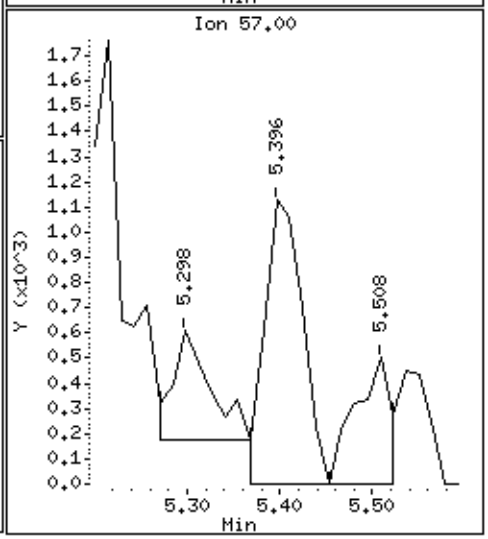












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

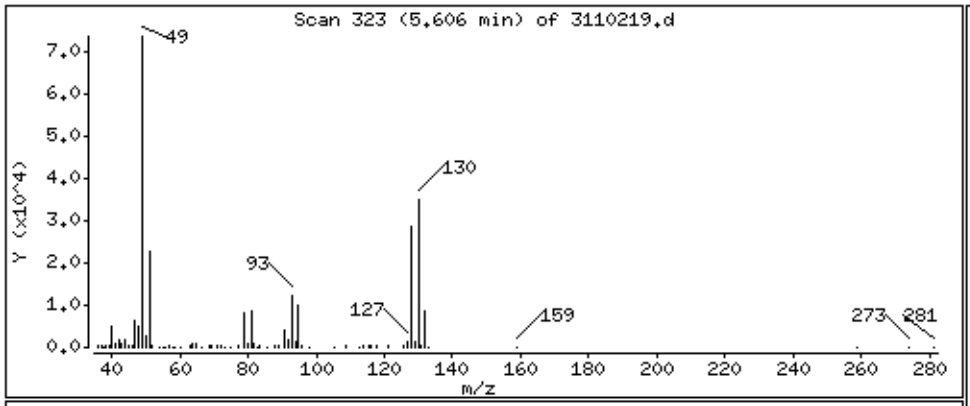
Operator: js

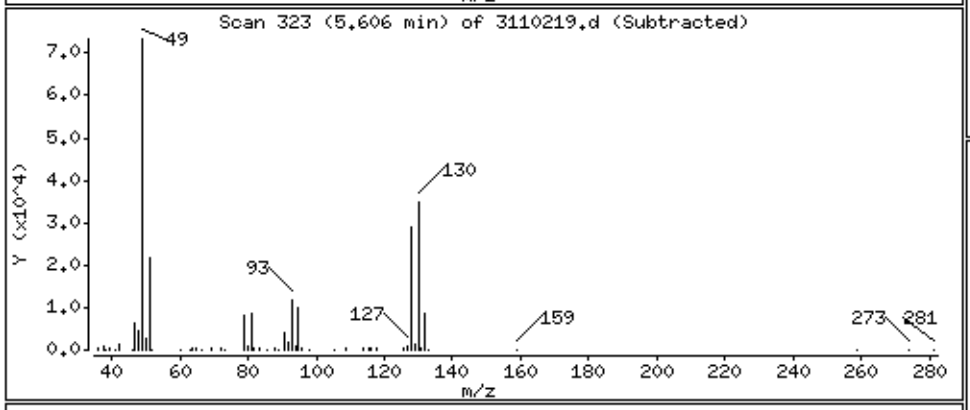
Column phase: RTX-624

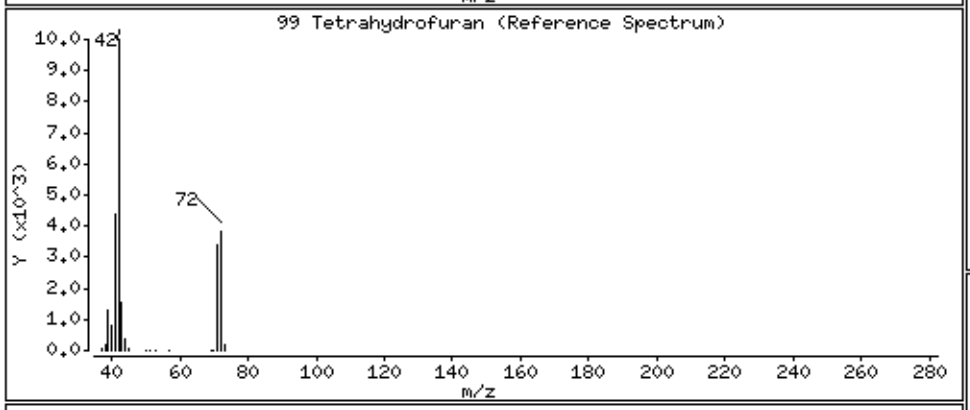
Column diameter: 0.25

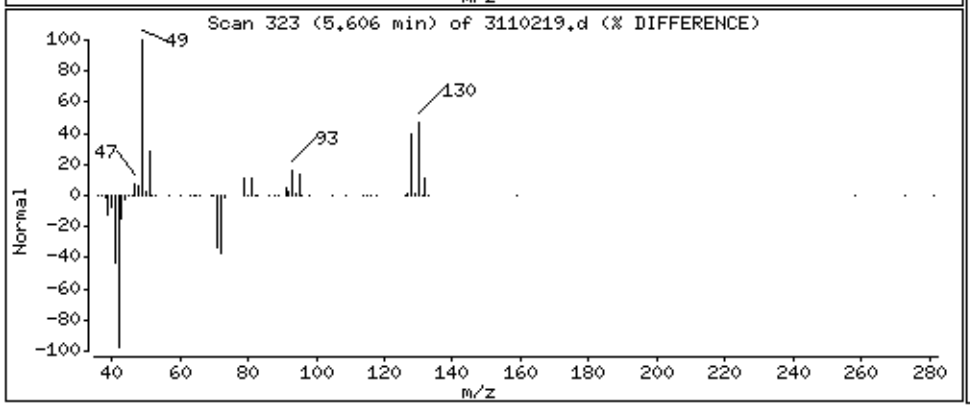
99 Tetrahydrofuran

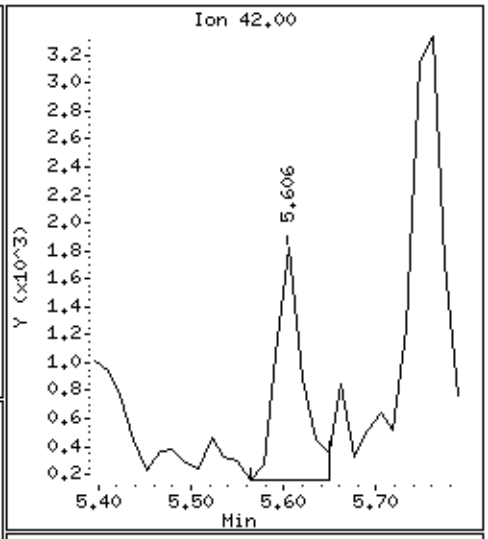
Concentration: 0.9830 PPBV

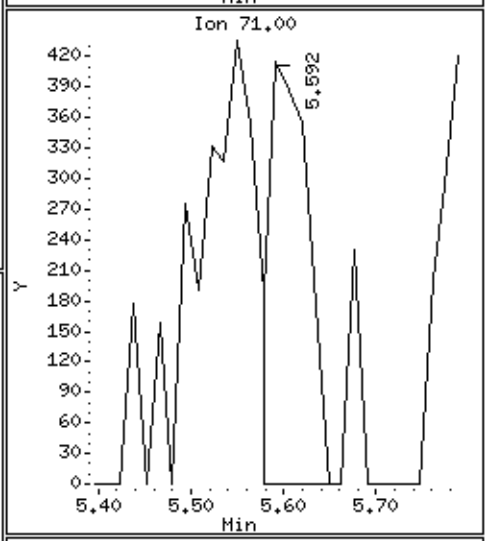


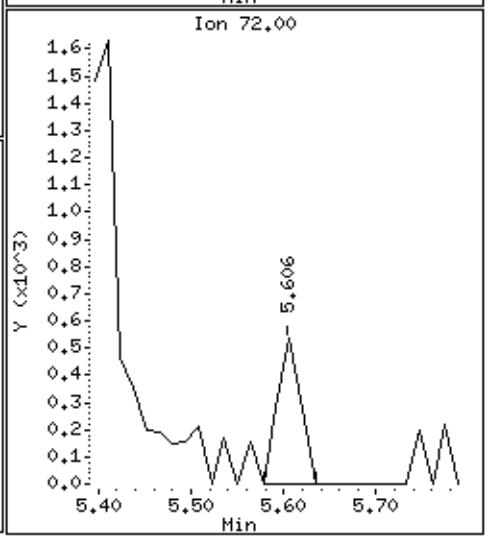












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

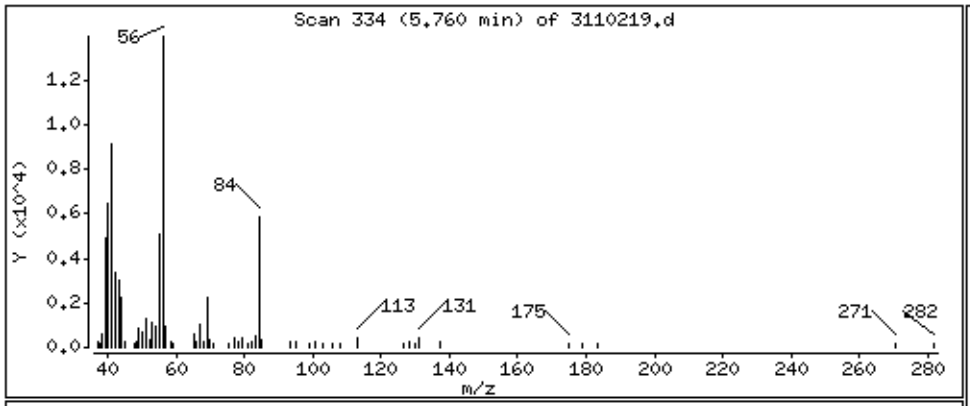
Operator: js

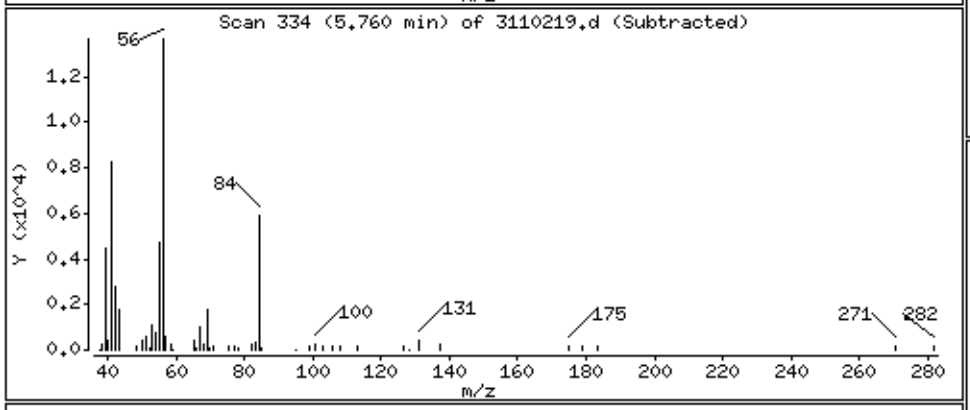
Column phase: RTX-624

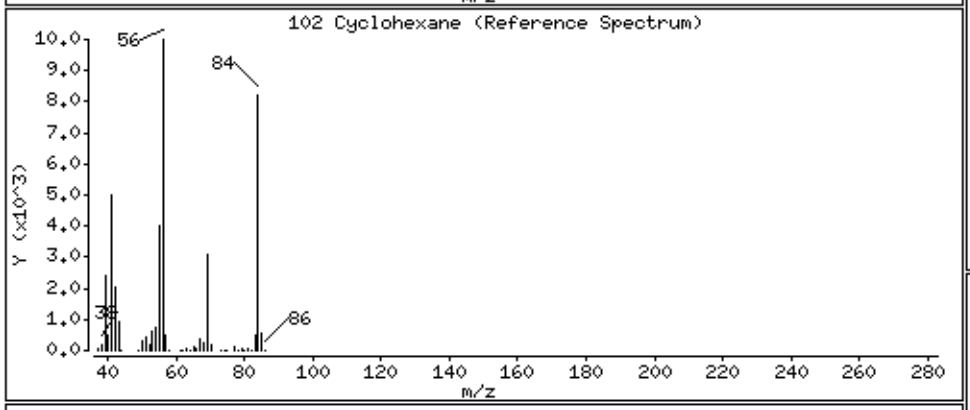
Column diameter: 0.25

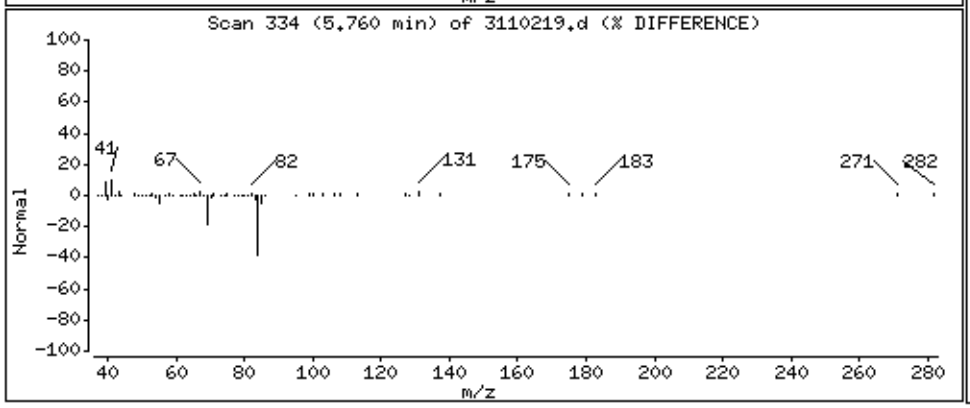
102 Cyclohexane

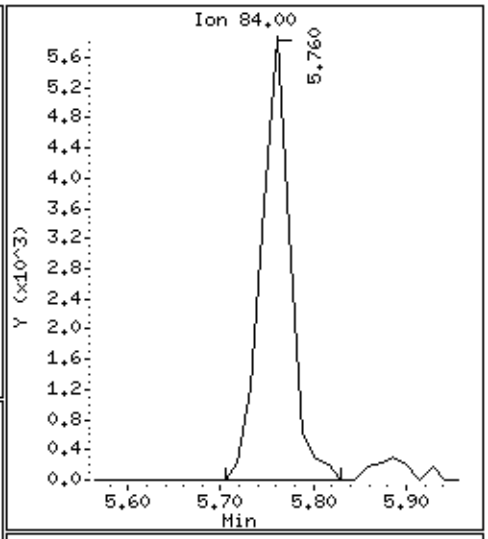
Concentration: 6.028 PPBV

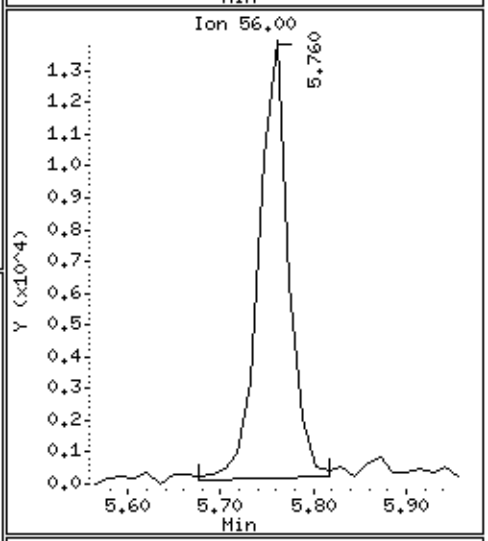


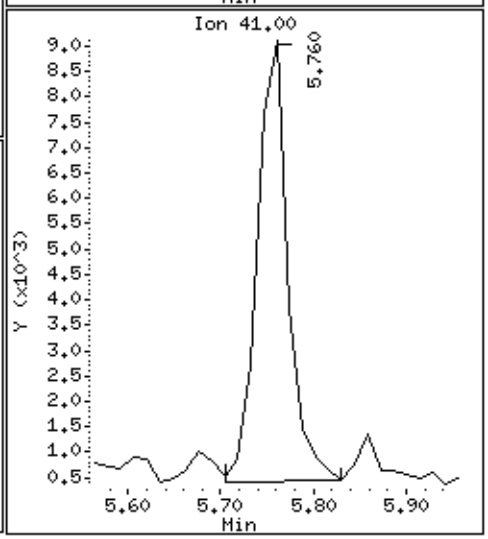












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

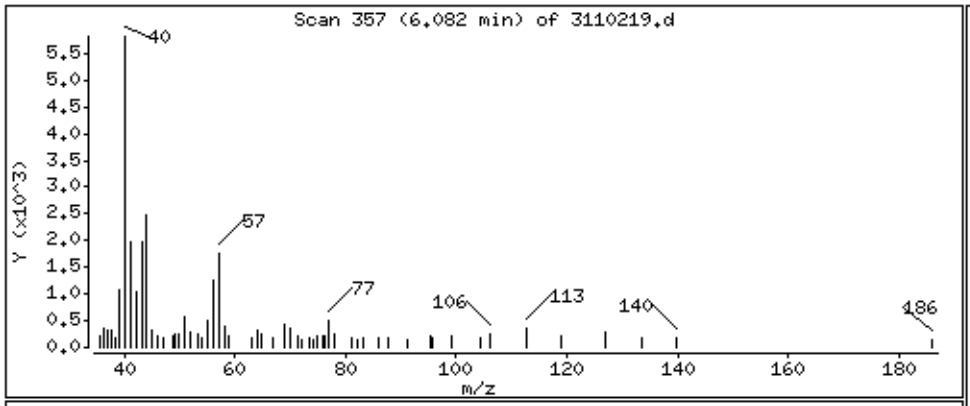
Operator: js

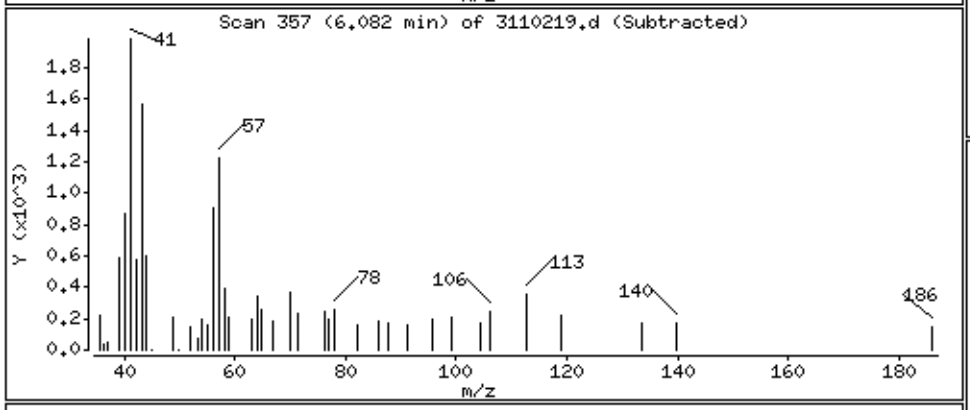
Column phase: RTX-624

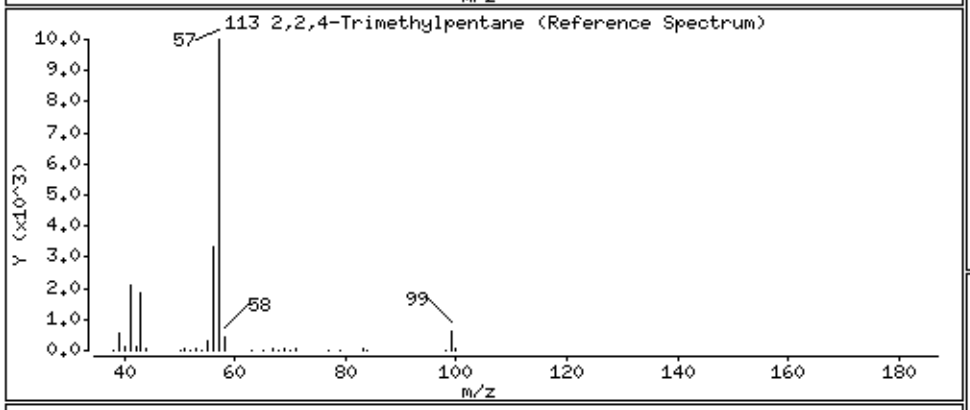
Column diameter: 0.25

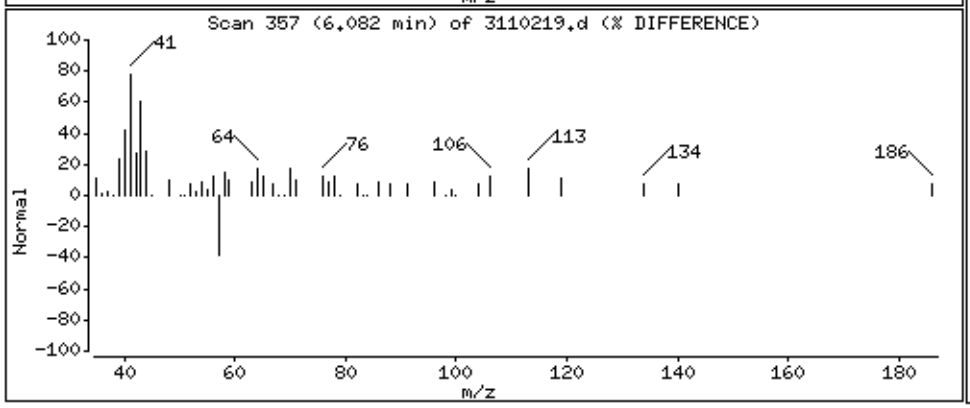
113 2,2,4-Trimethylpentane

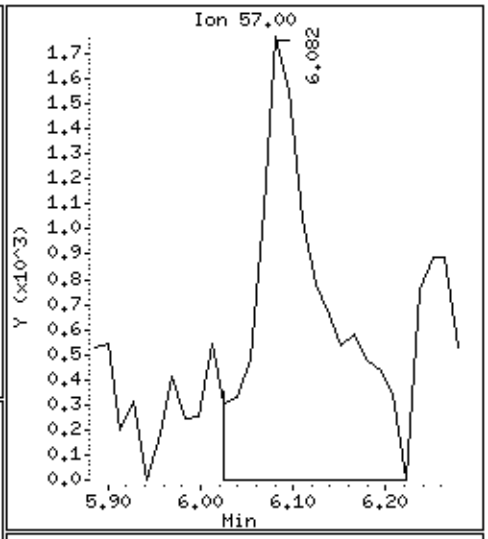
Concentration: 0.6798 PPBV

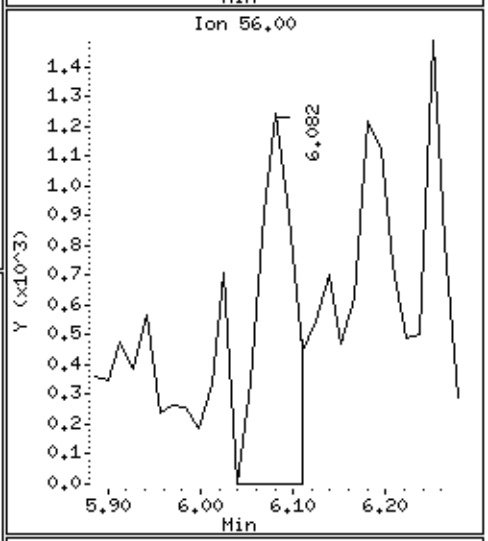


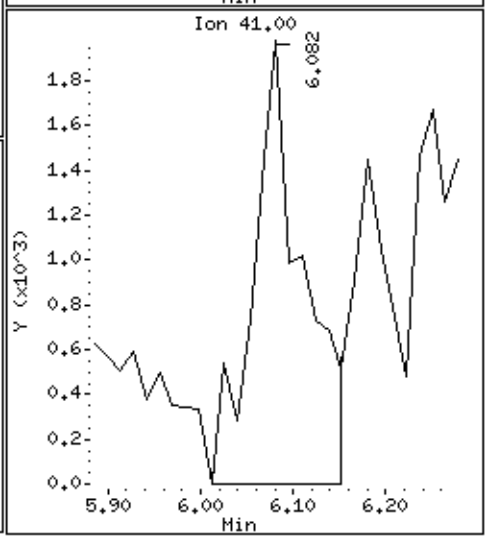












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

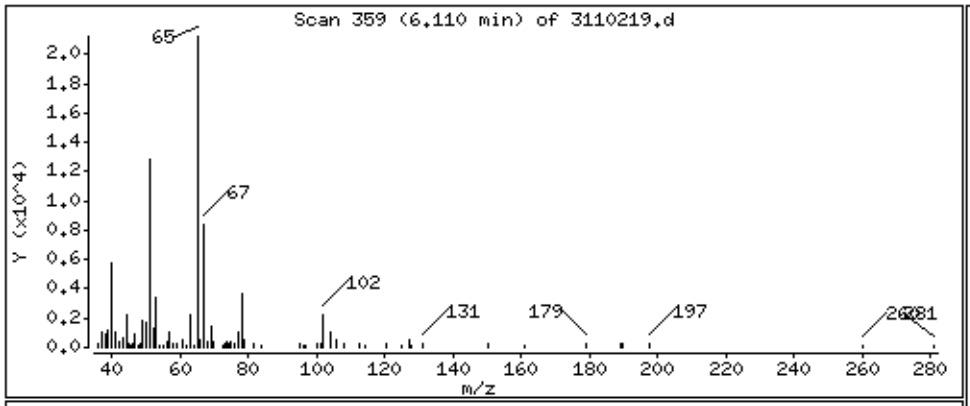
Operator: js

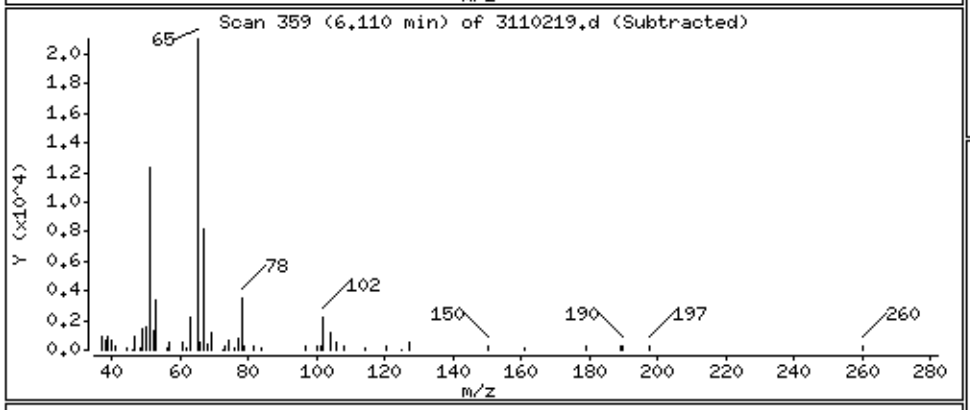
Column phase: RTX-624

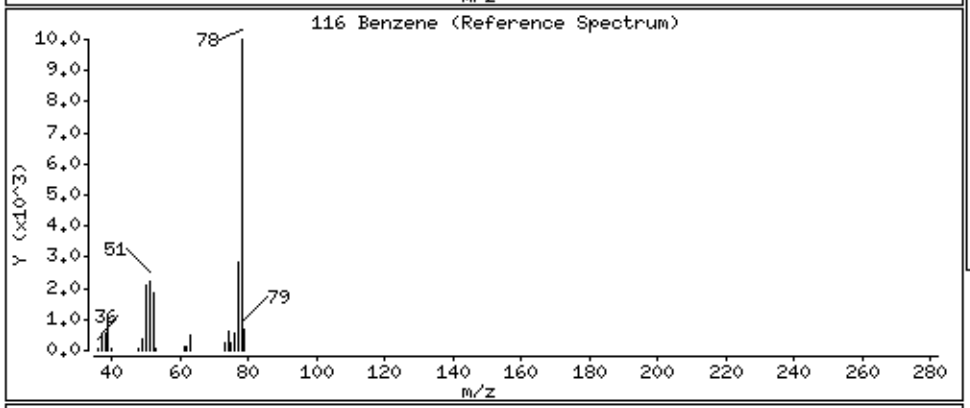
Column diameter: 0.25

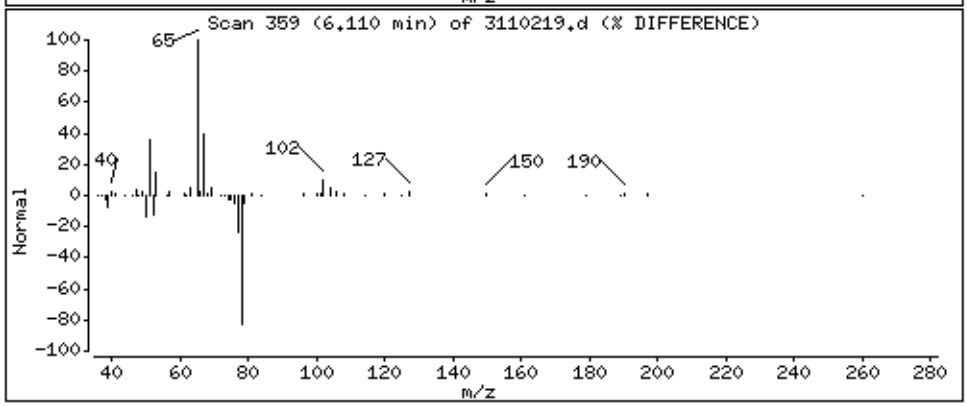
116 Benzene

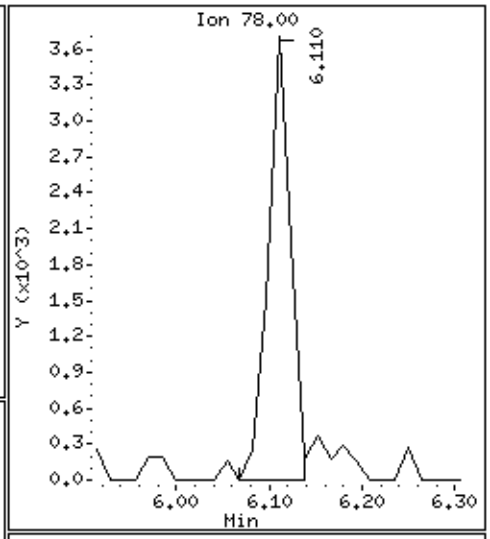
Concentration: 1.353 PPBV

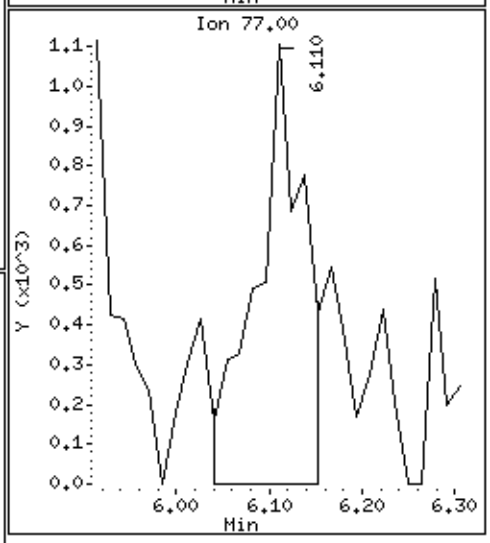












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

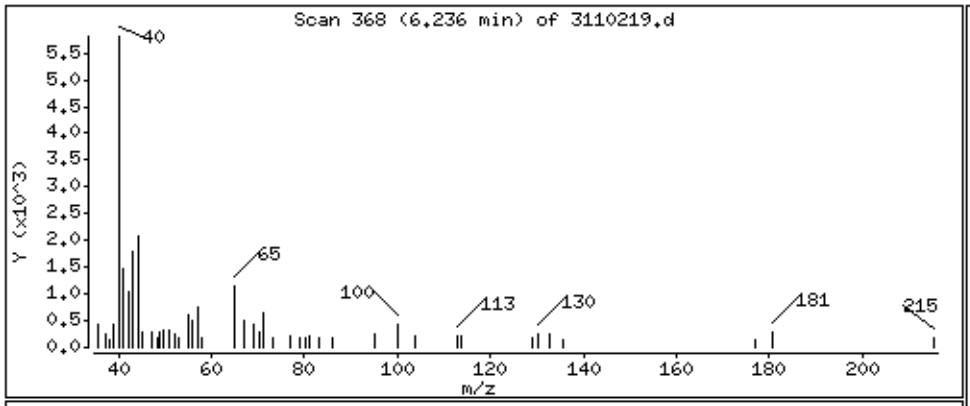
Operator: js

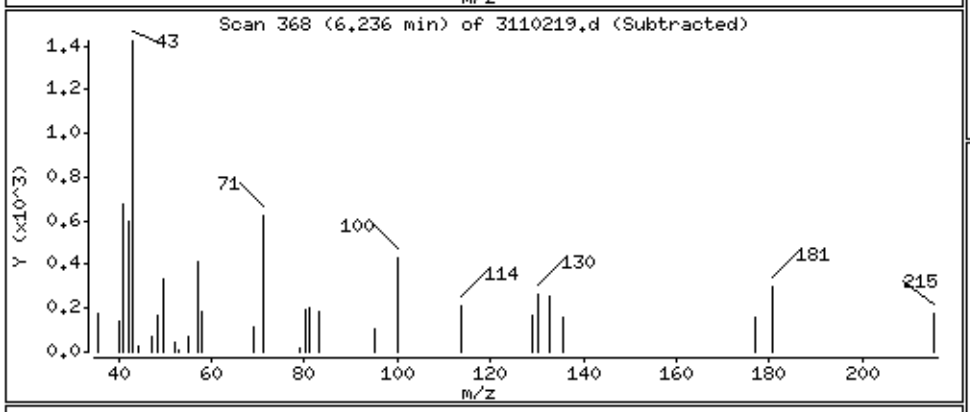
Column phase: RTX-624

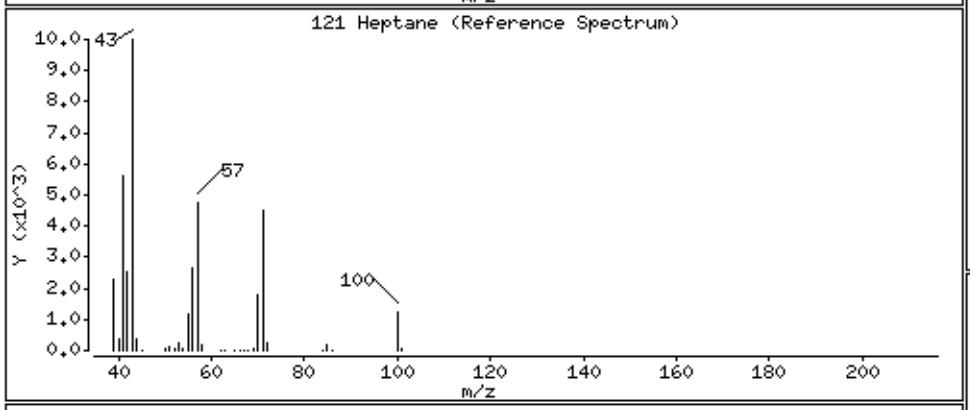
Column diameter: 0.25

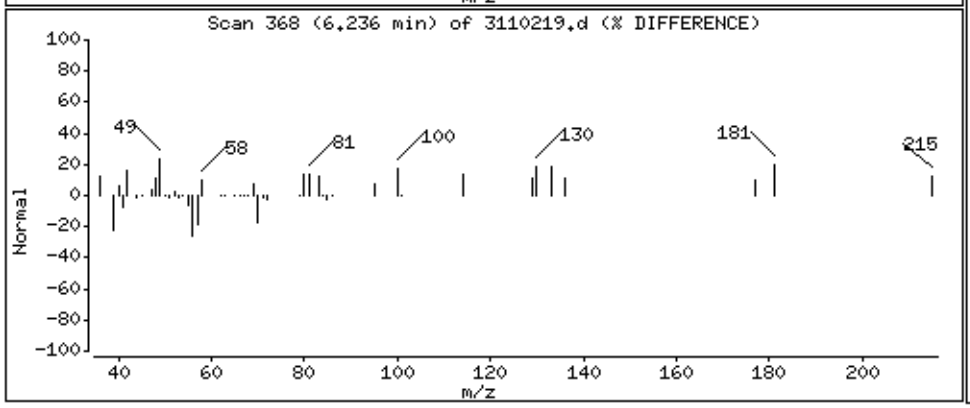
121 Heptane

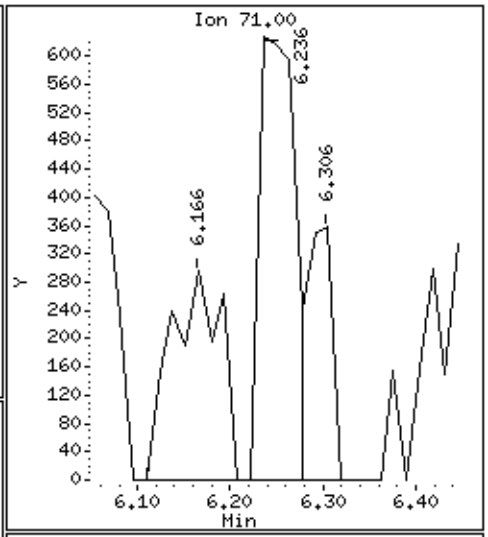
Concentration: 0.9578 PPBV

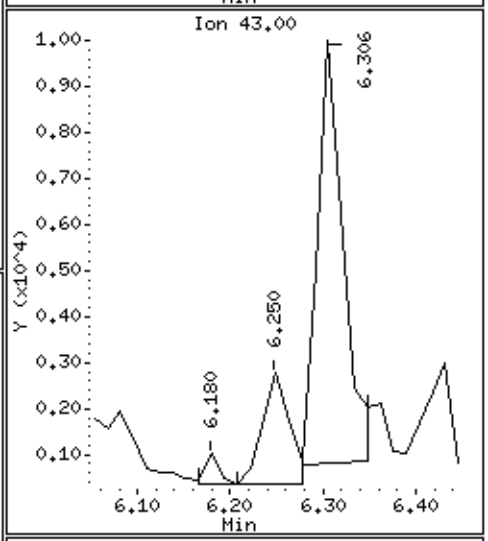


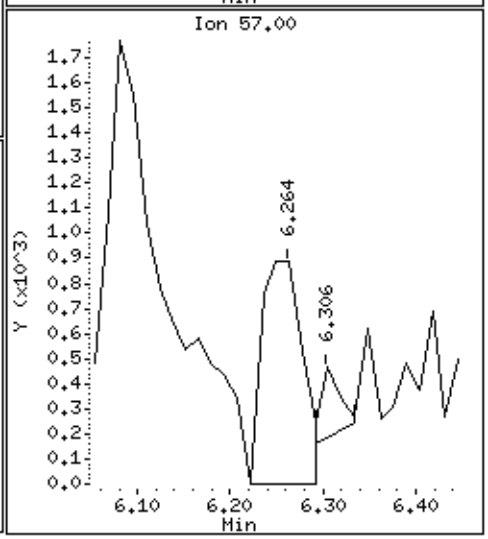












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

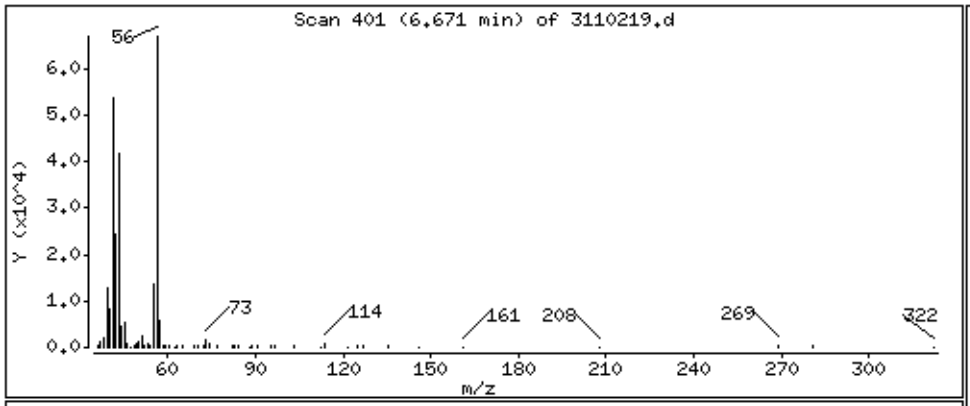
Operator: js

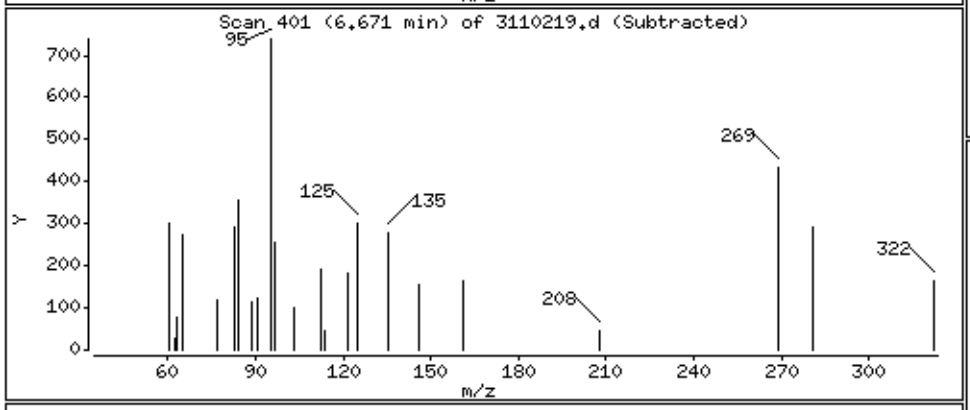
Column phase: RTX-624

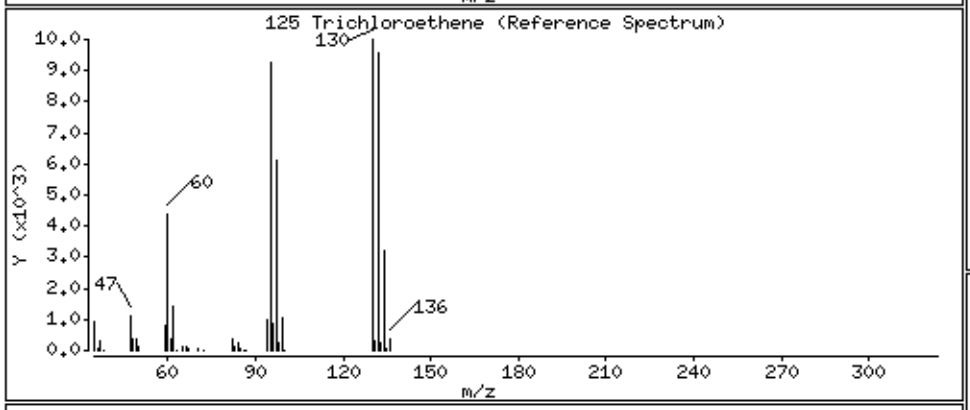
Column diameter: 0.25

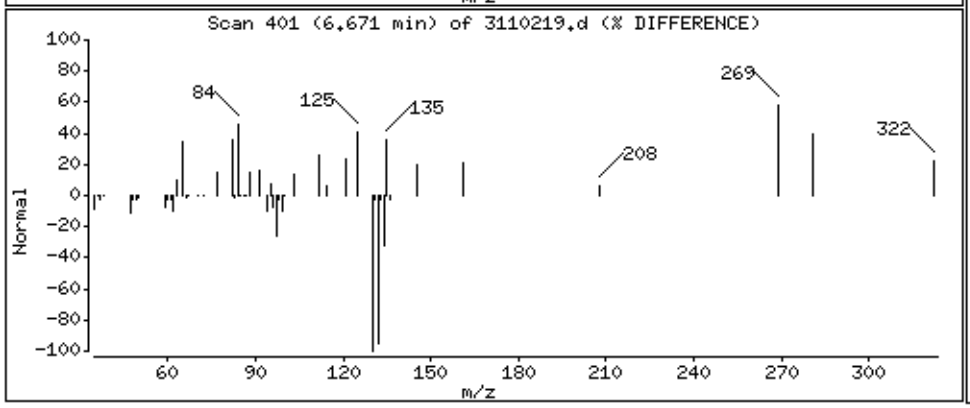
125 Trichloroethene

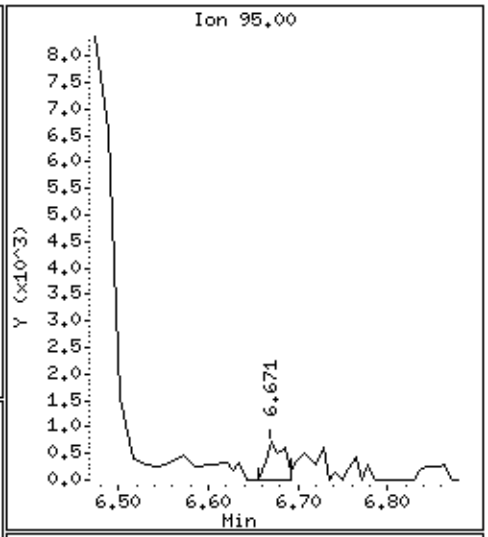
Concentration: 0.4266 PPBV

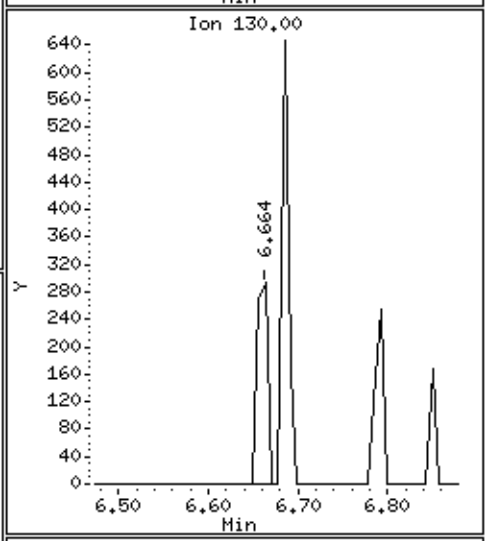


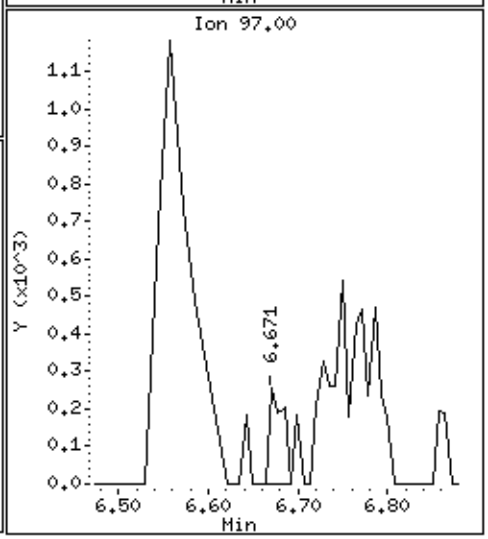












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

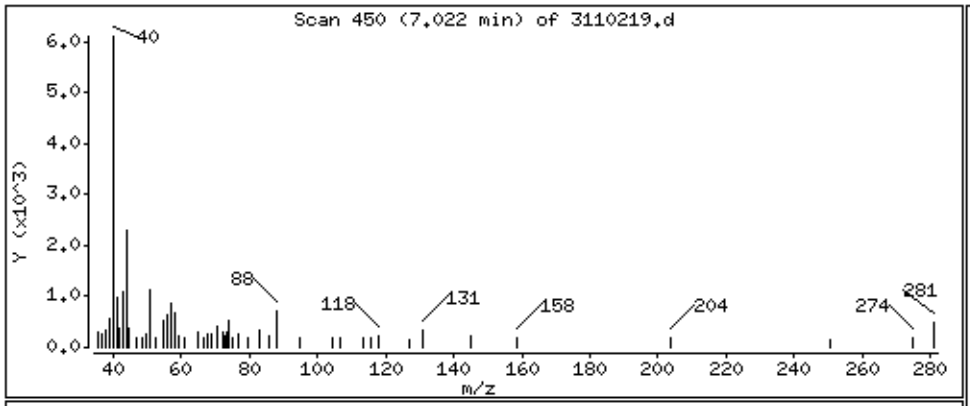
Operator: js

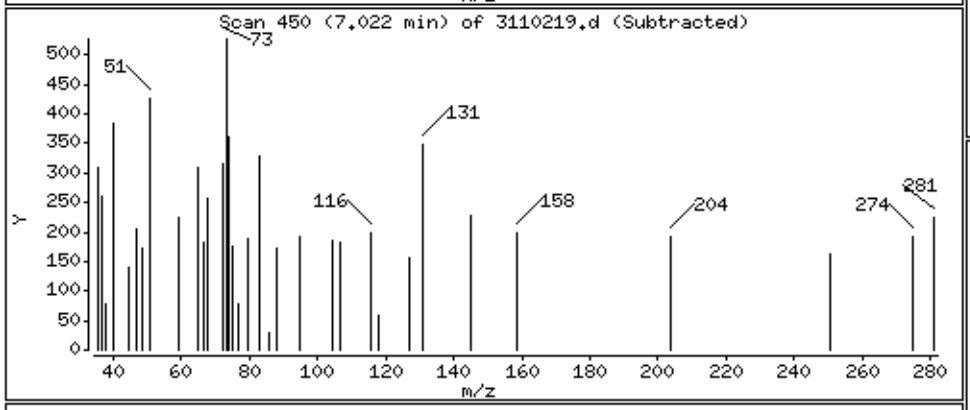
Column phase: RTX-624

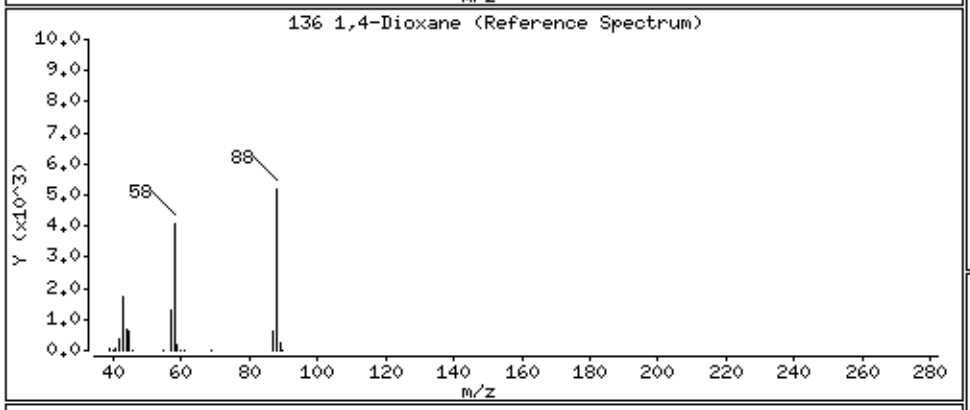
Column diameter: 0.25

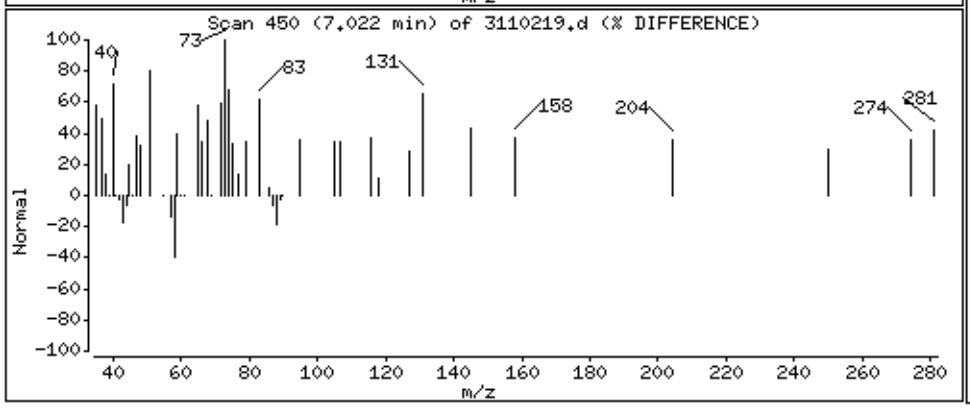
136 1,4-Dioxane

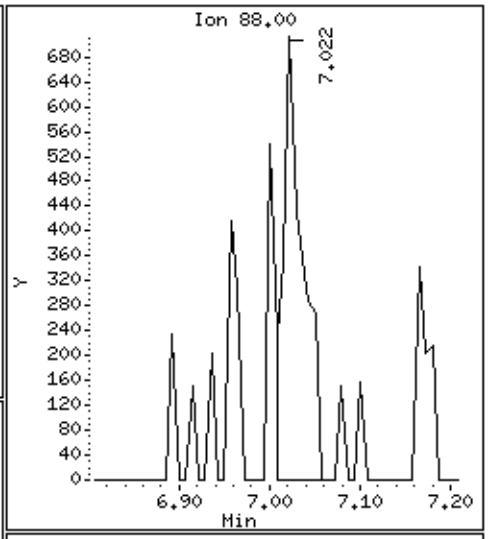
Concentration: 0.9458 PPBV

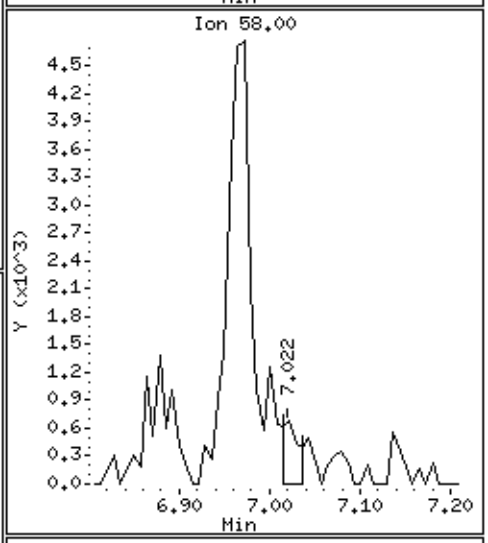


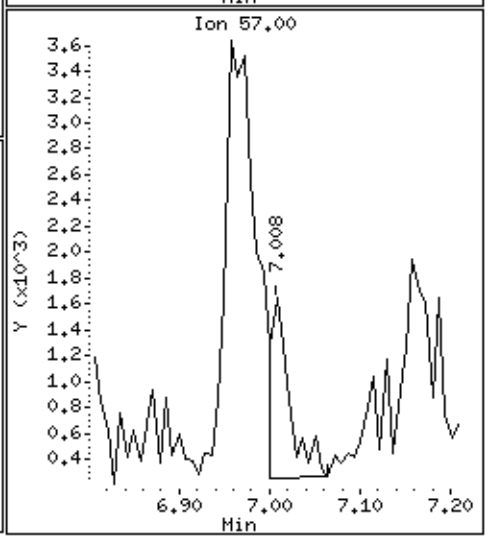












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

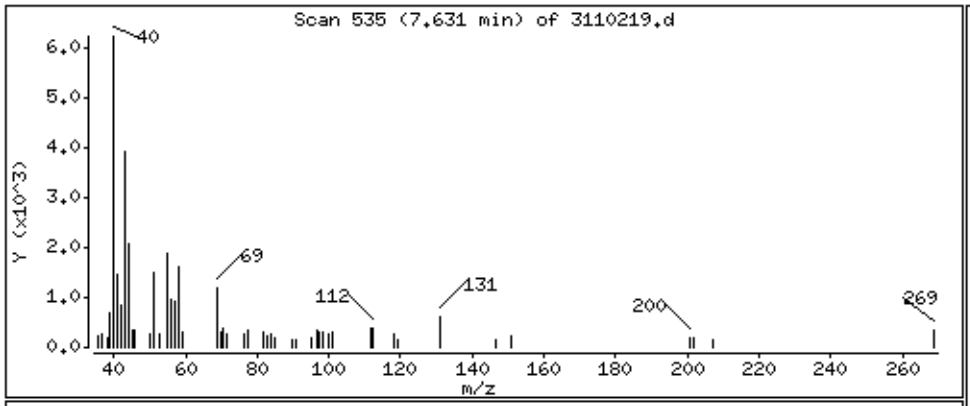
Operator: js

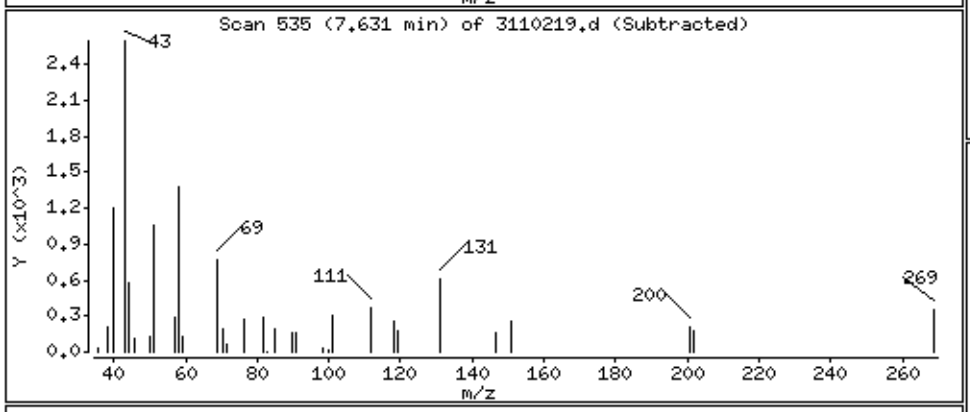
Column phase: RTX-624

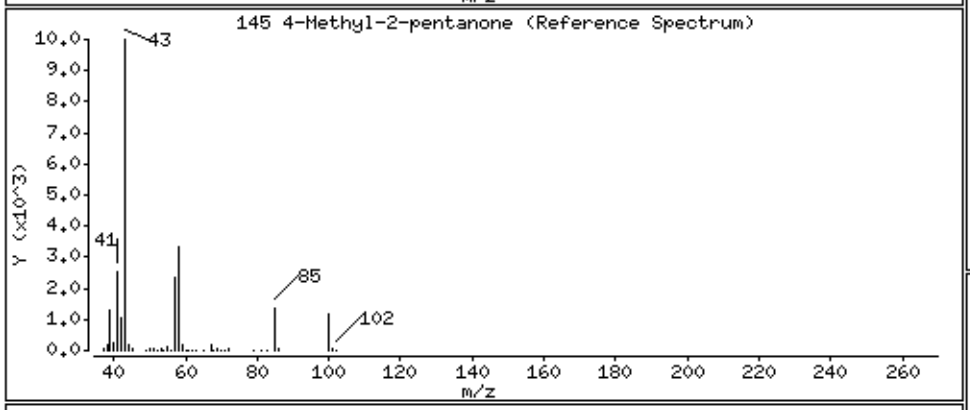
Column diameter: 0.25

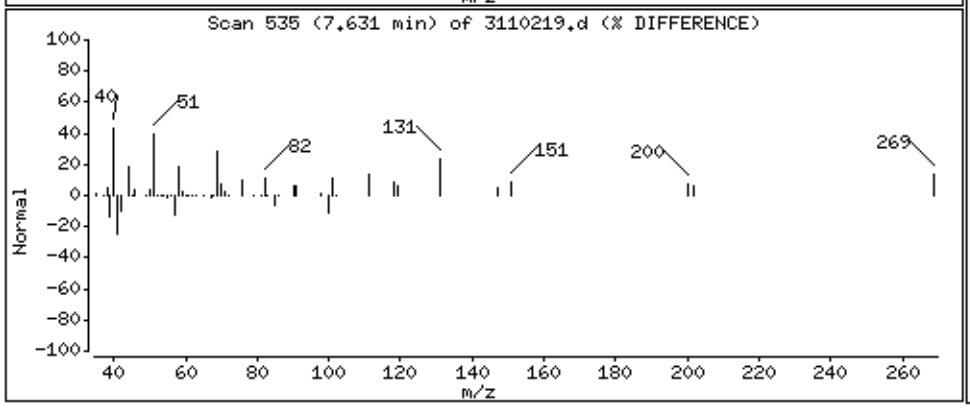
145 4-Methyl-2-pentanone

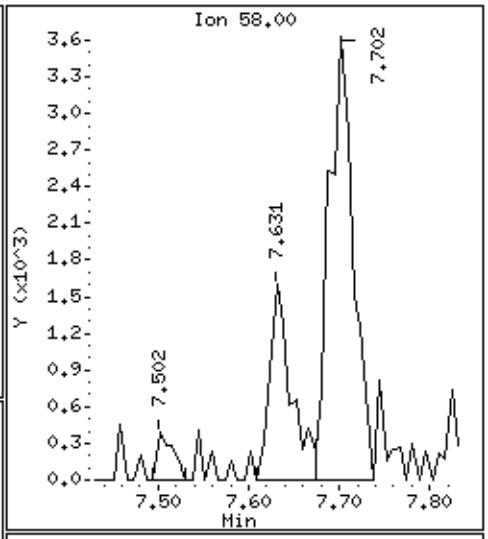
Concentration: 0.9808 PPBV

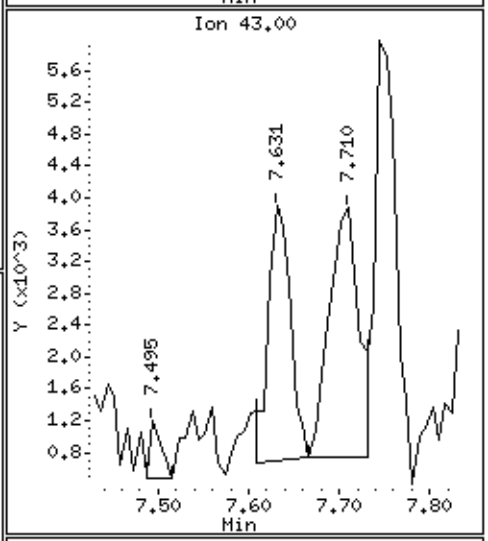


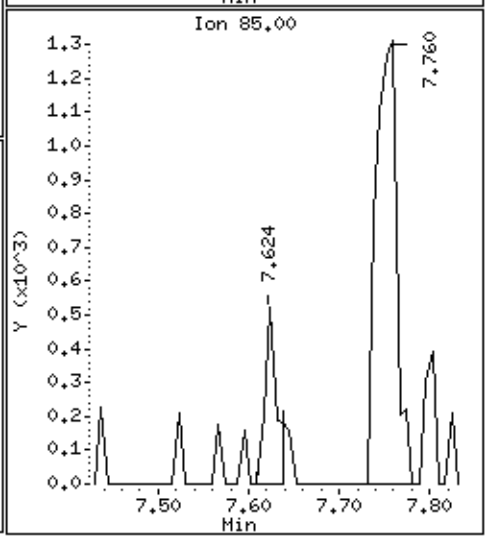












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

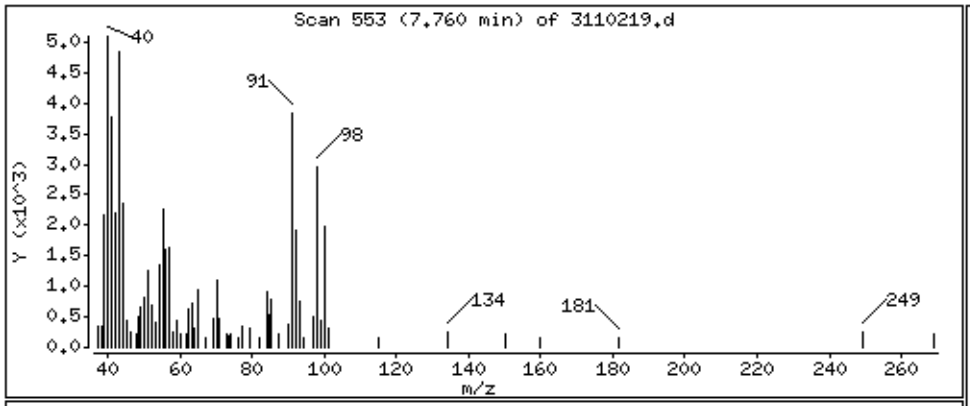
Operator: js

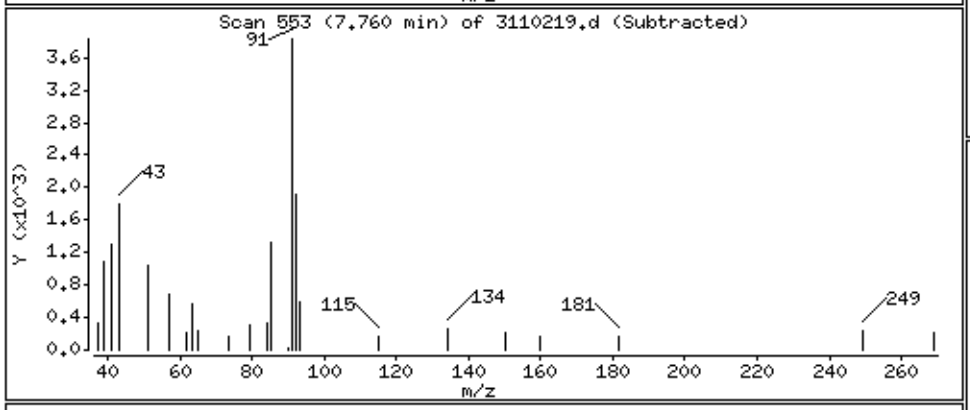
Column phase: RTX-624

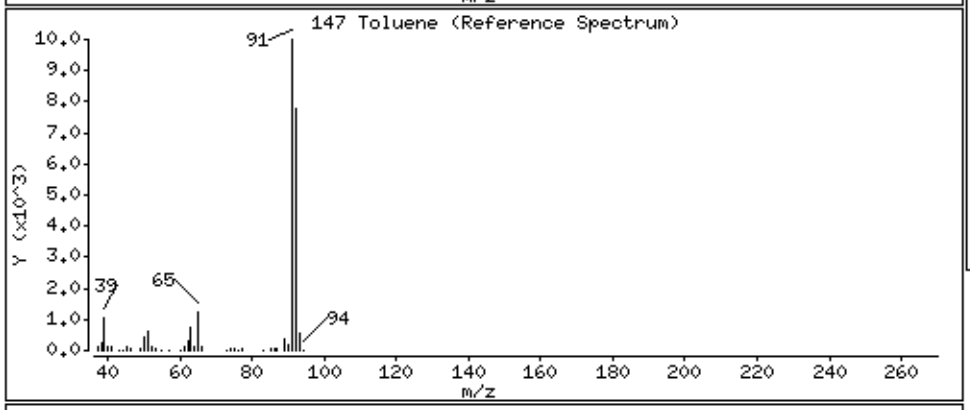
Column diameter: 0.25

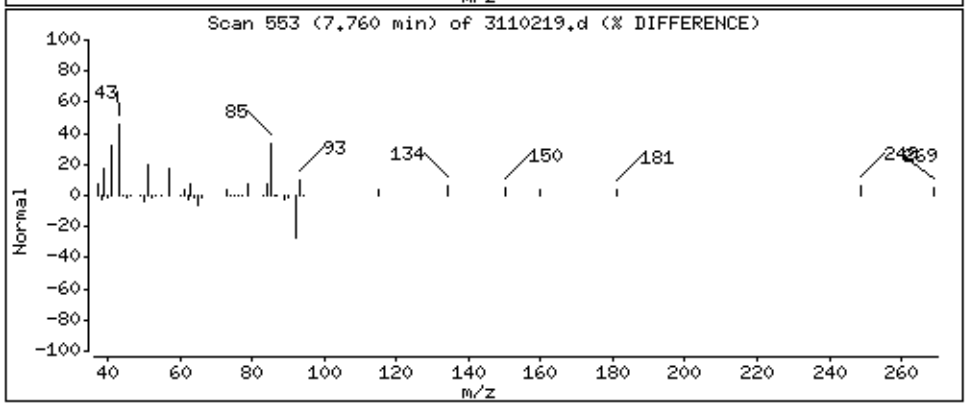
147 Toluene

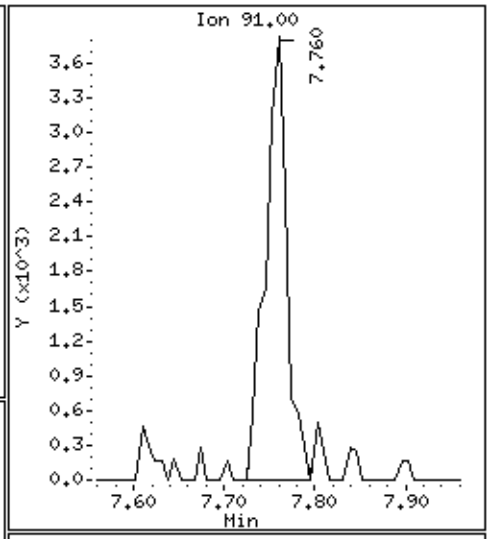
Concentration: 0.9626 PPBV

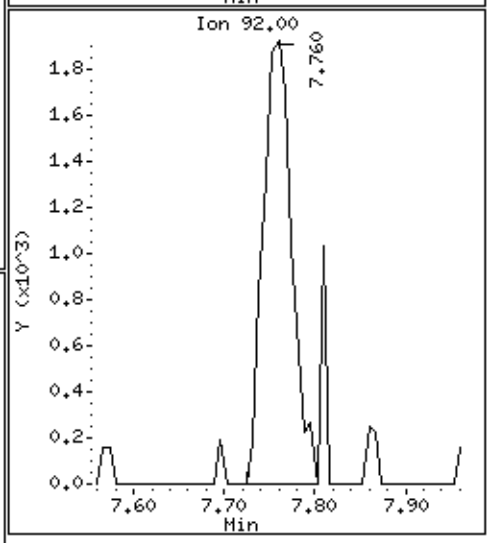












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

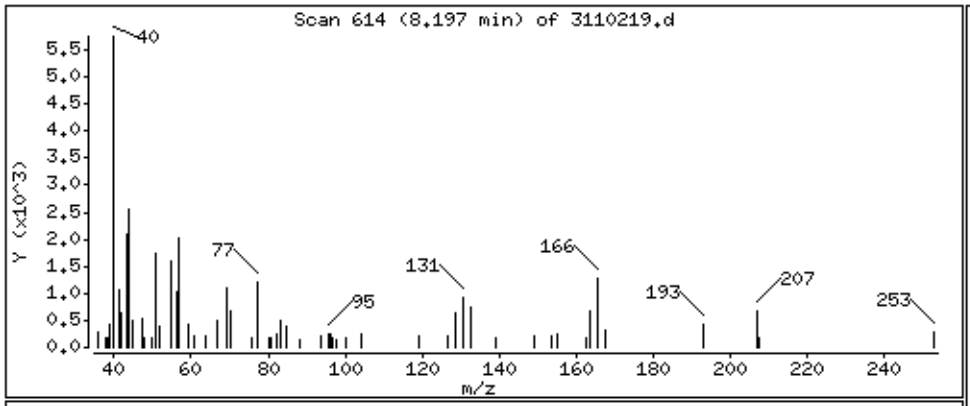
Operator: js

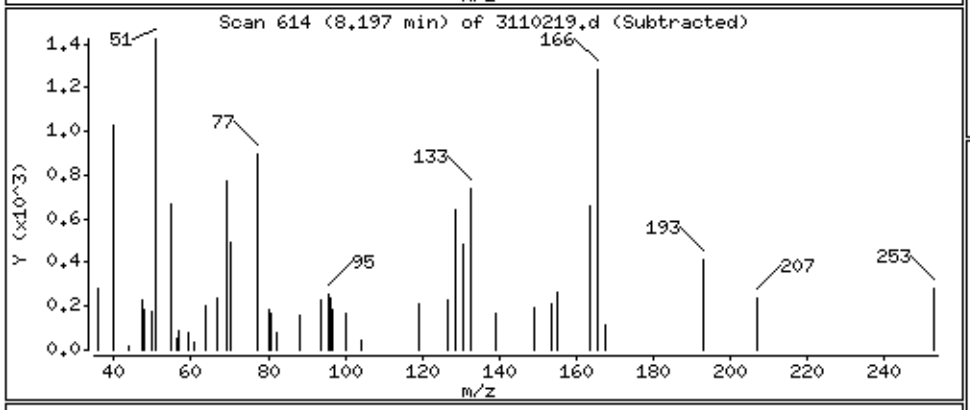
Column phase: RTX-624

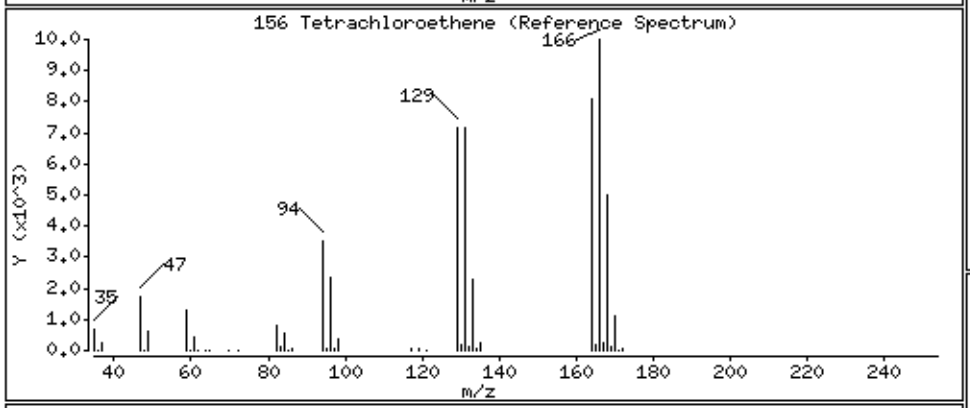
Column diameter: 0.25

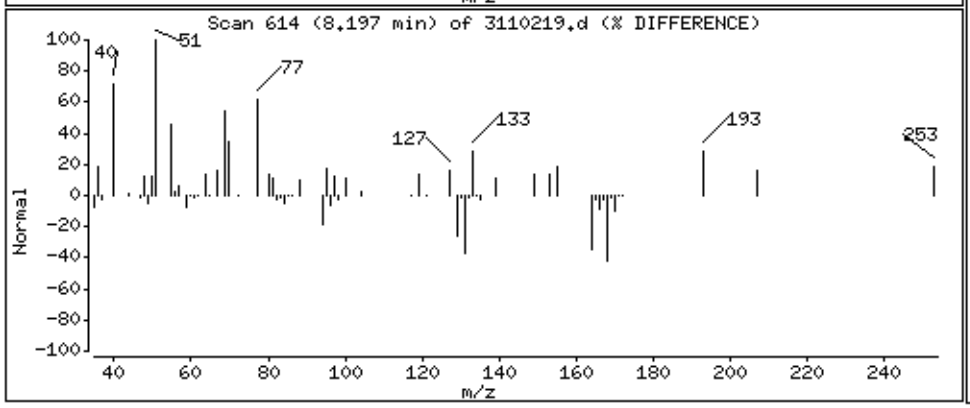
156 Tetrachloroethene

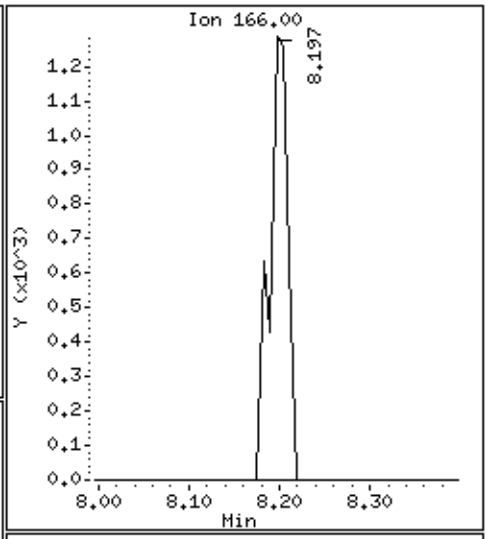
Concentration: 0.4794 PPBV

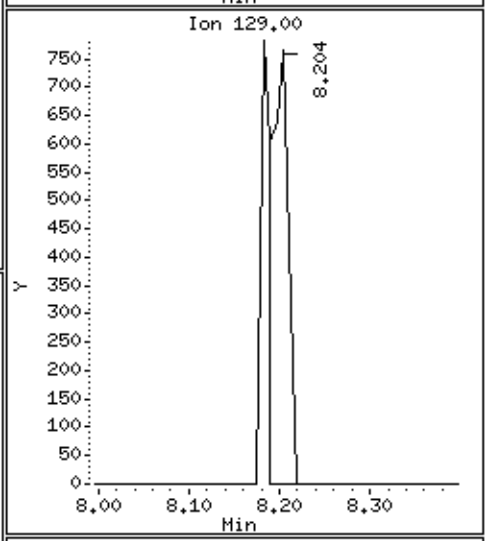


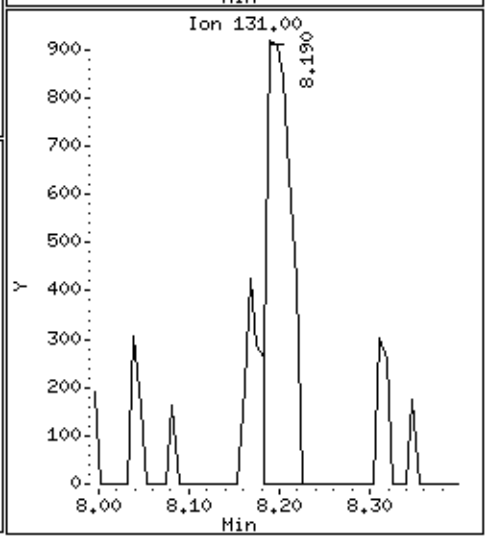












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

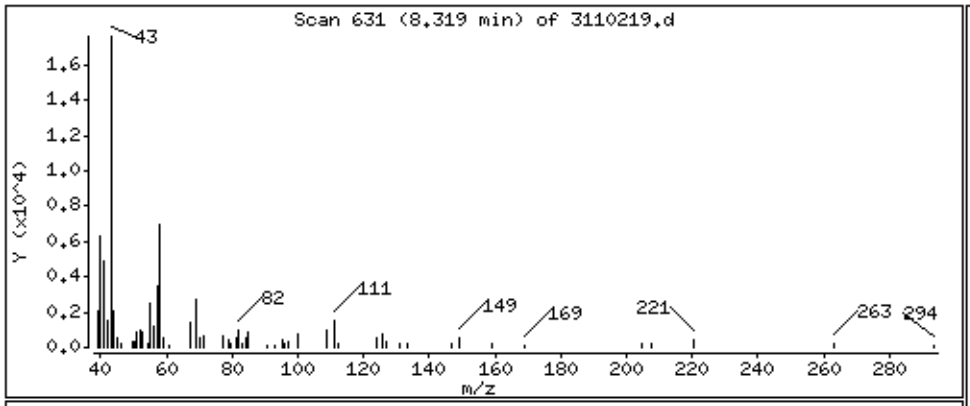
Operator: js

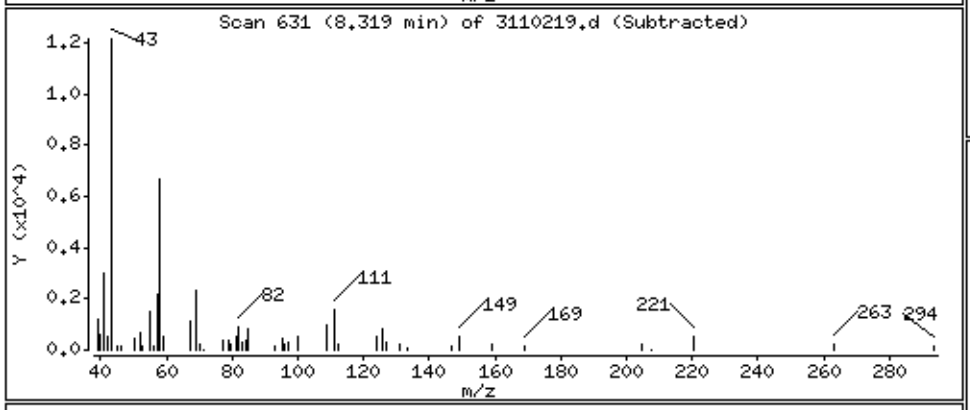
Column phase: RTX-624

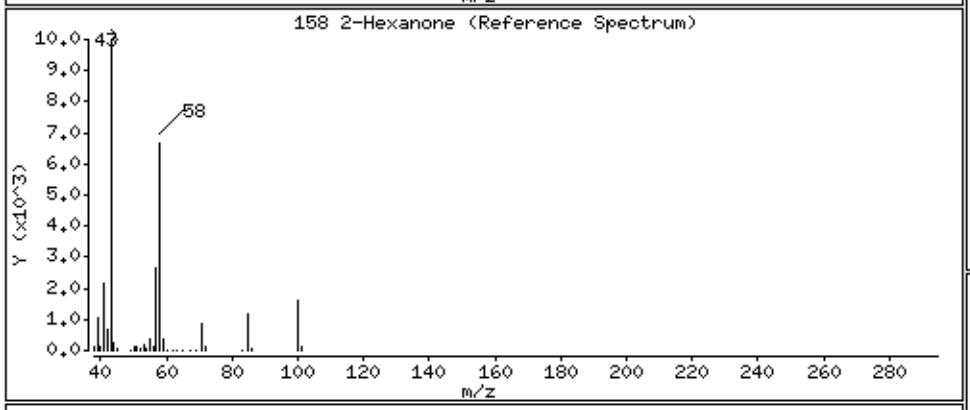
Column diameter: 0.25

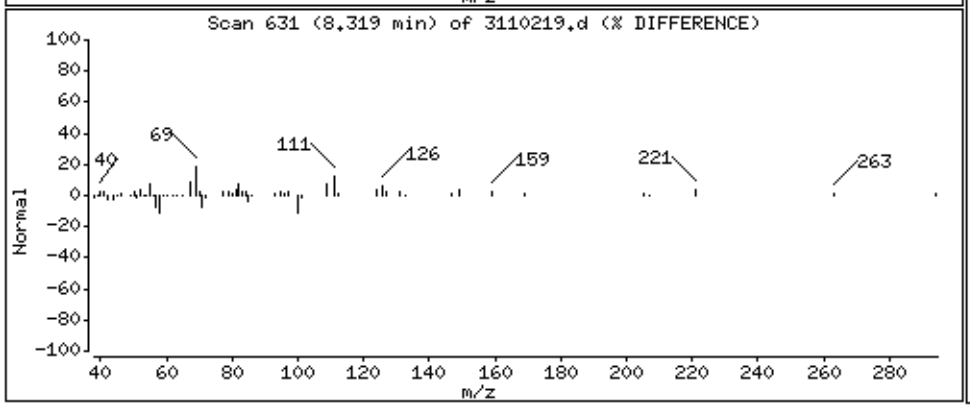
158 2-Hexanone

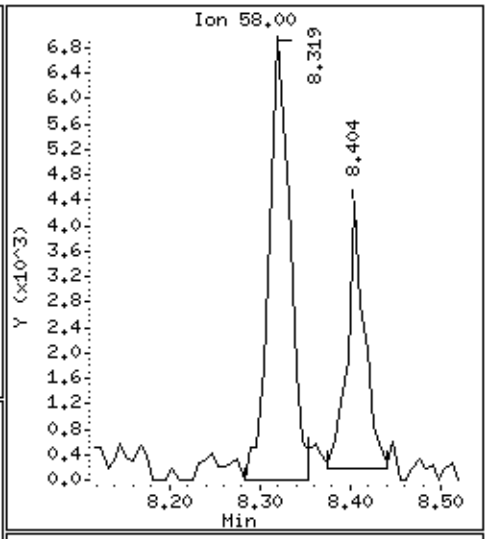
Concentration: 2.707 PPBV

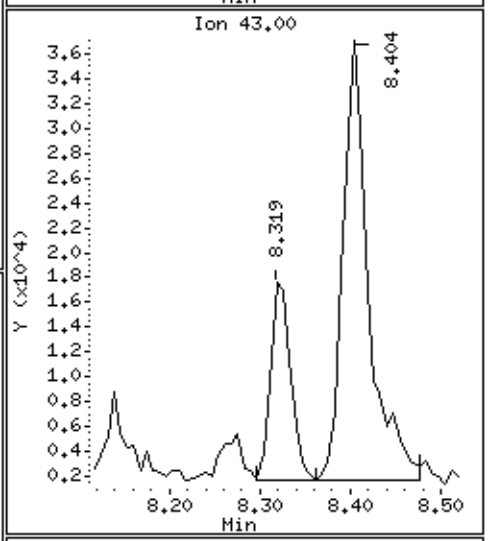


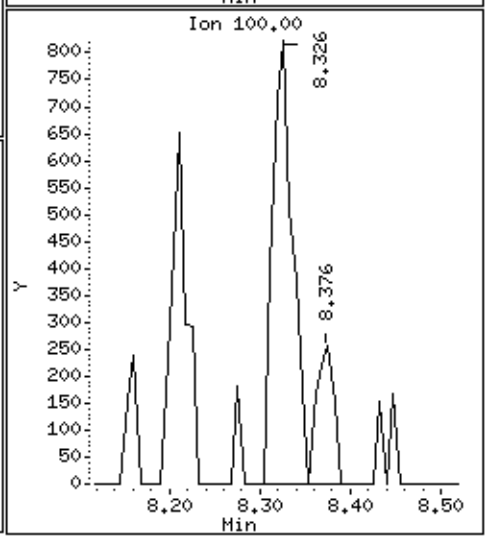












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

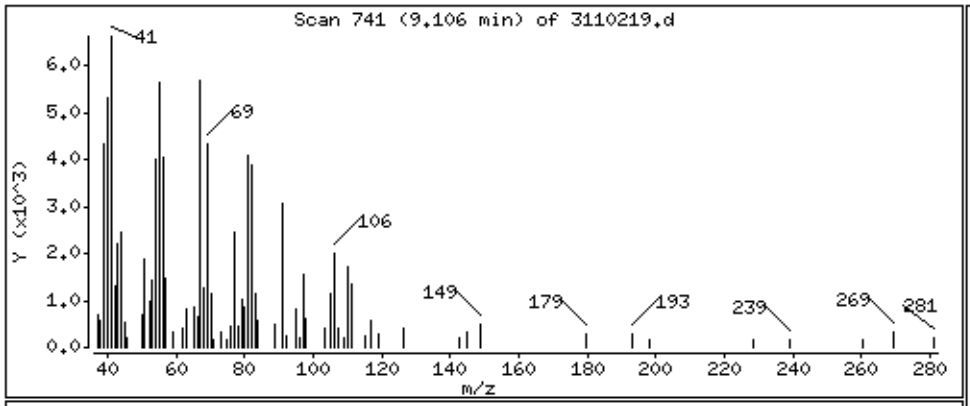
Operator: js

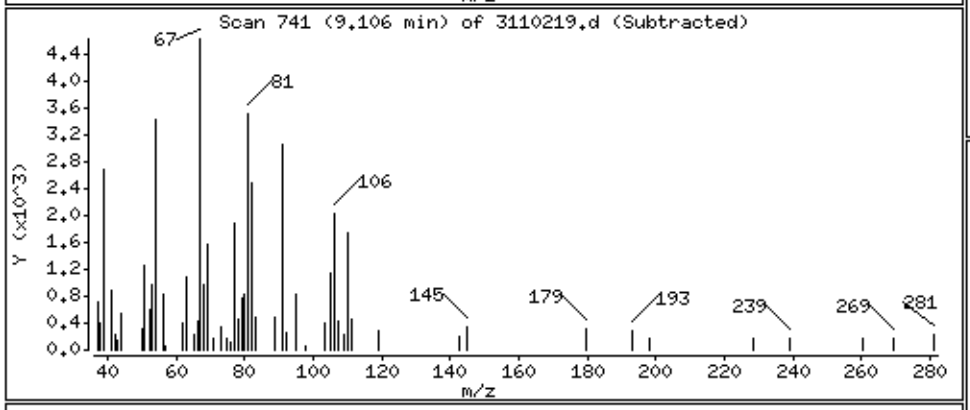
Column phase: RTX-624

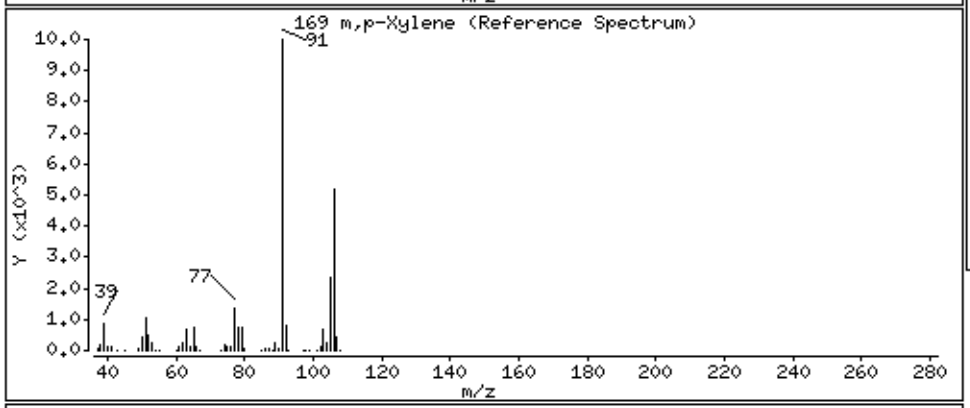
Column diameter: 0.25

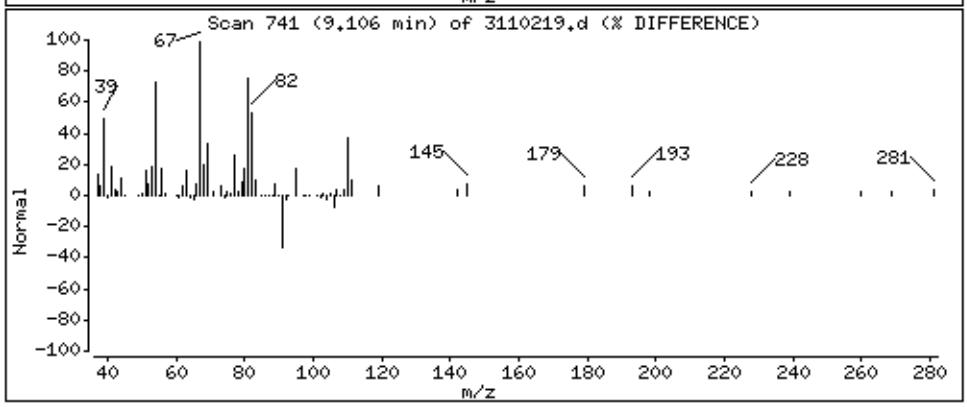
169 m,p-Xylene

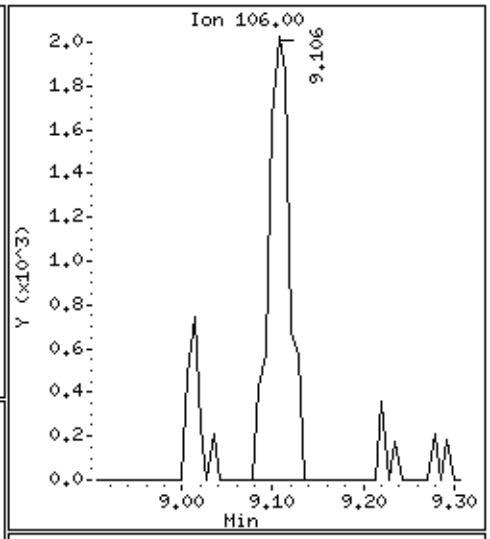
Concentration: 0.7936 PPBV

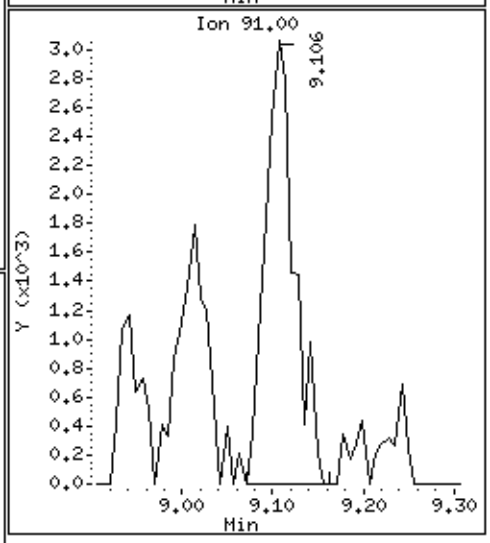












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

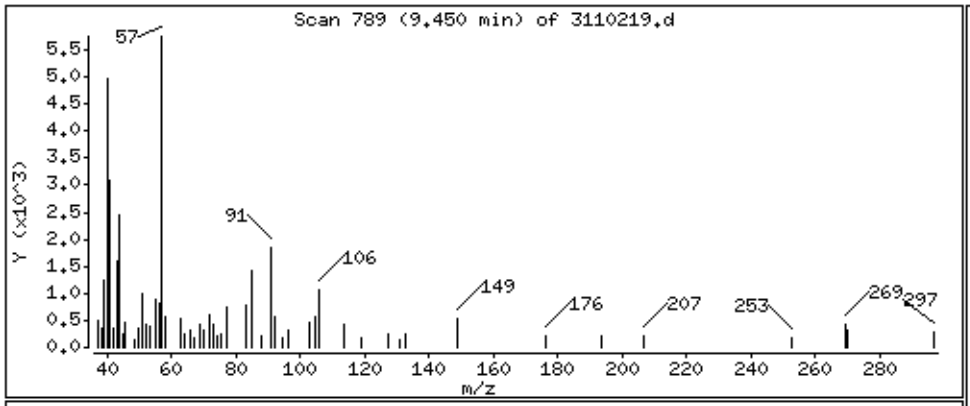
Operator: js

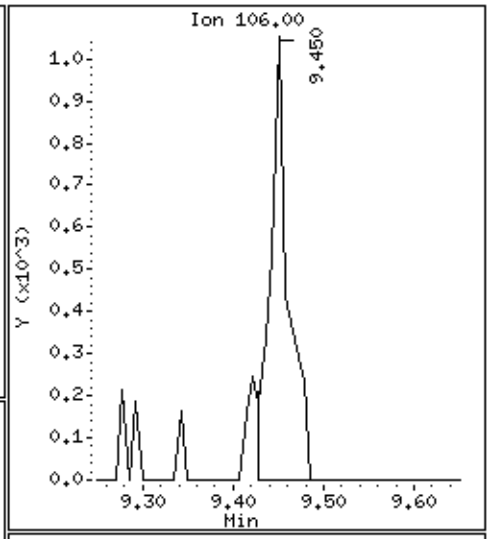
Column phase: RTX-624

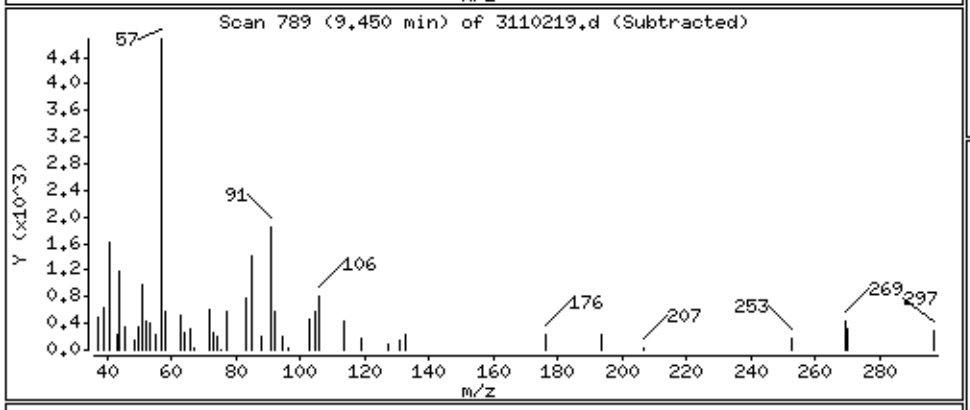
Column diameter: 0.25

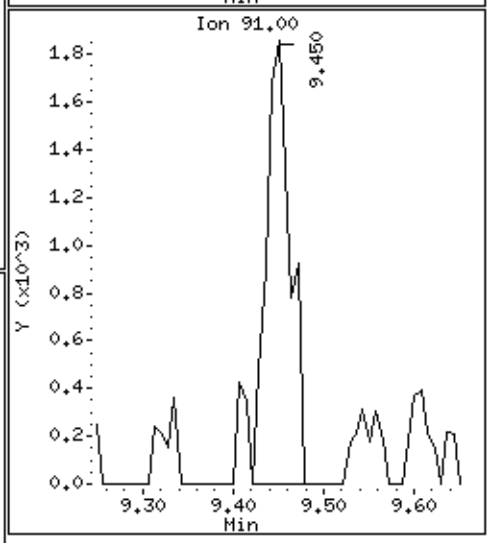
171 o-Xylene

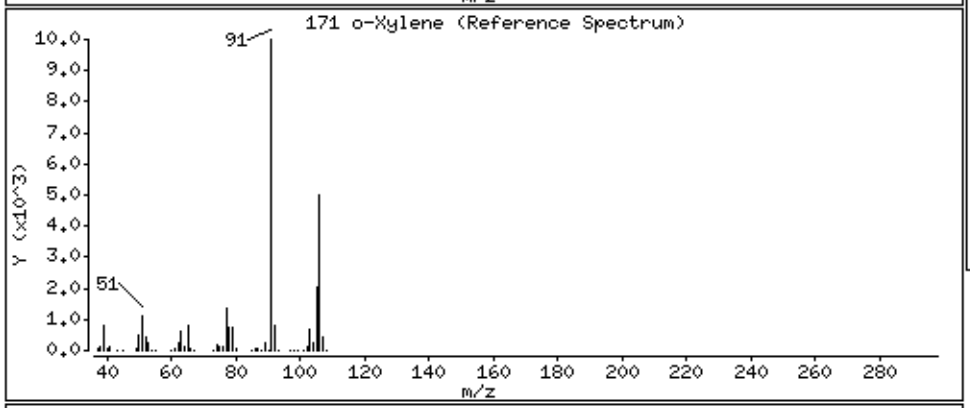
Concentration: 0.3626 PPBV

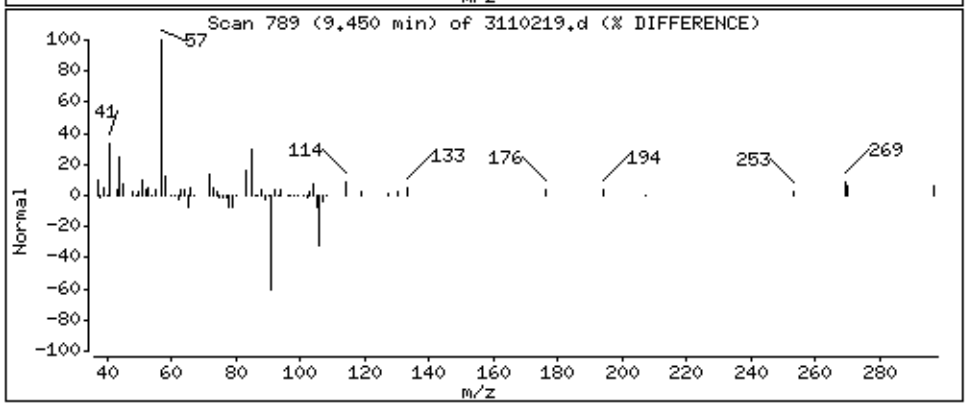












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

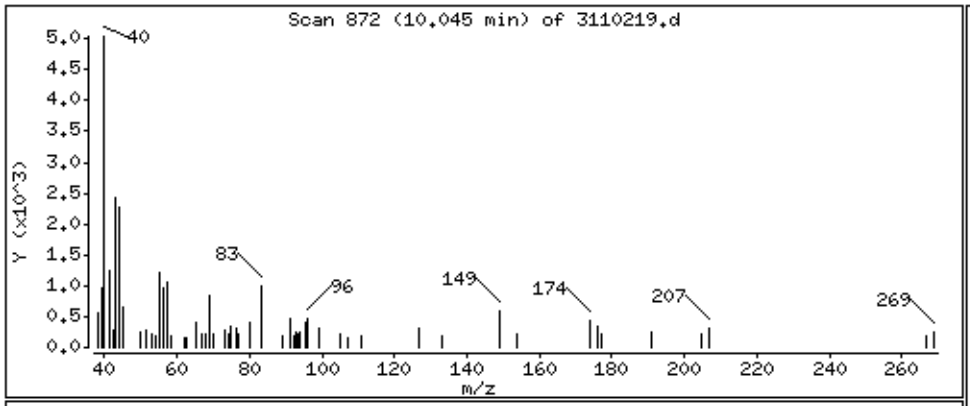
Operator: js

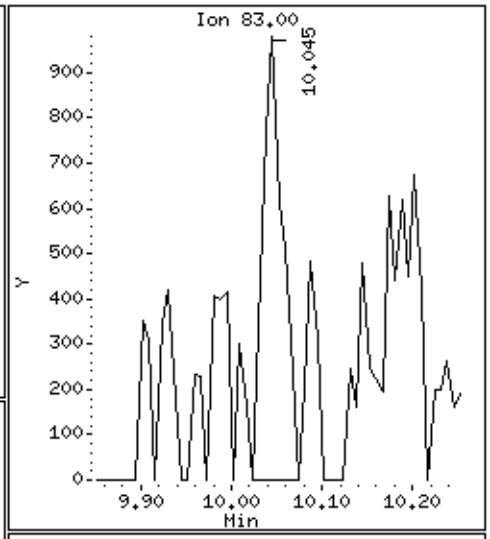
Column phase: RTX-624

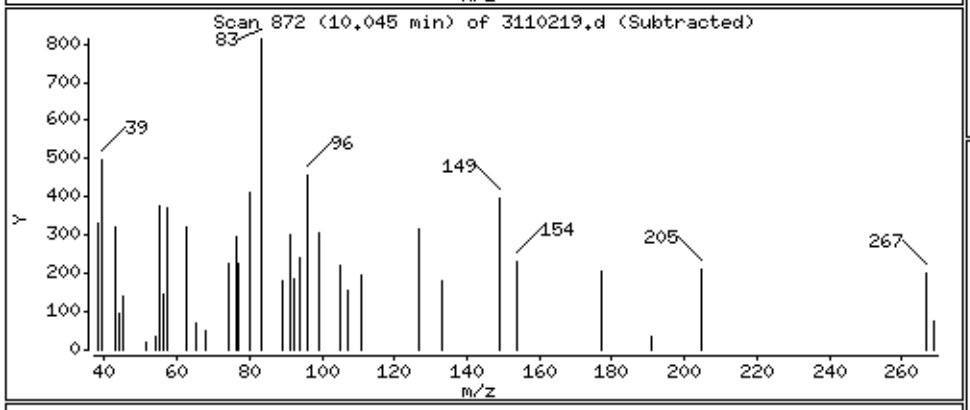
Column diameter: 0.25

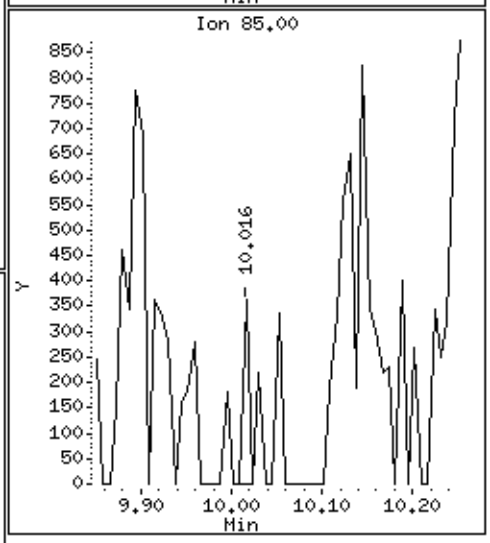
181 1,1,2,2-Tetrachloroethane

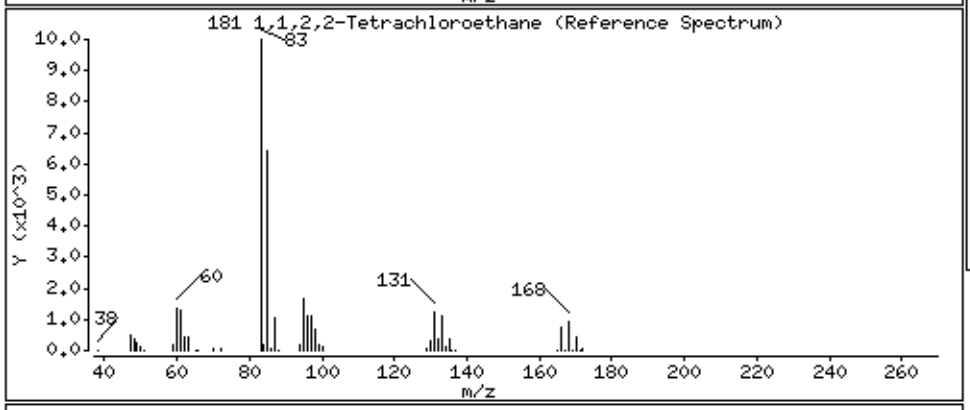
Concentration: 0.2467 PPBV

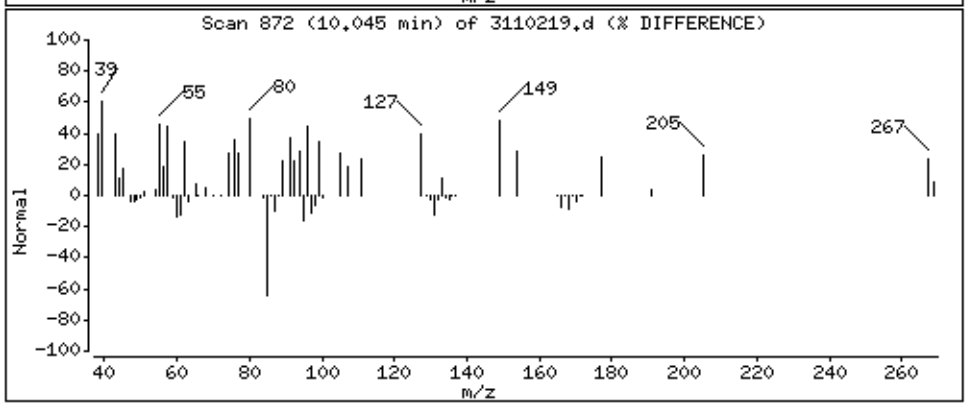












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

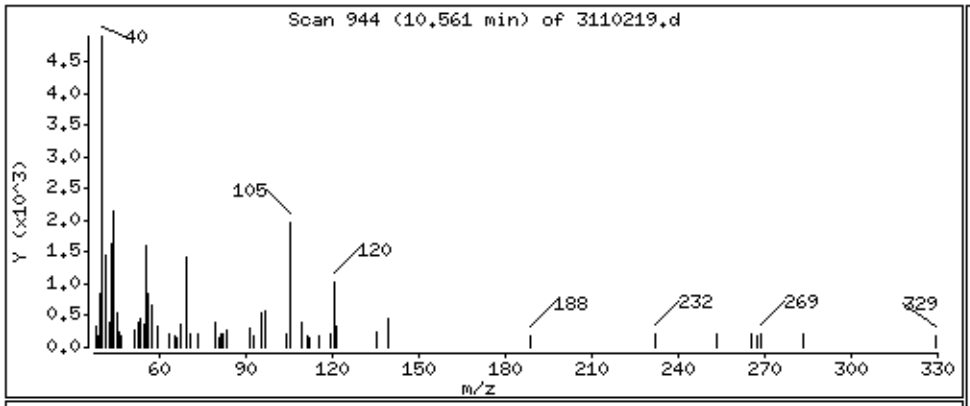
Operator: js

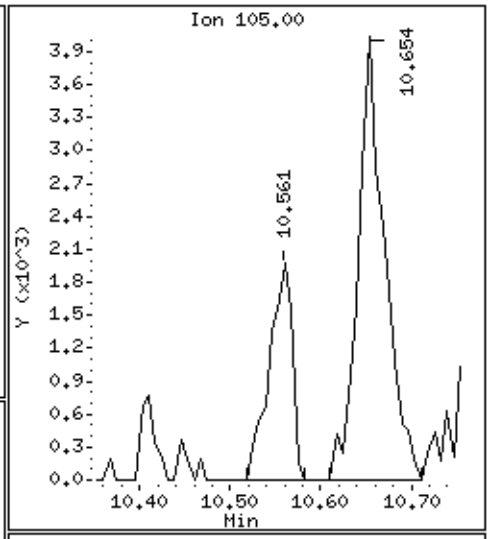
Column phase: RTX-624

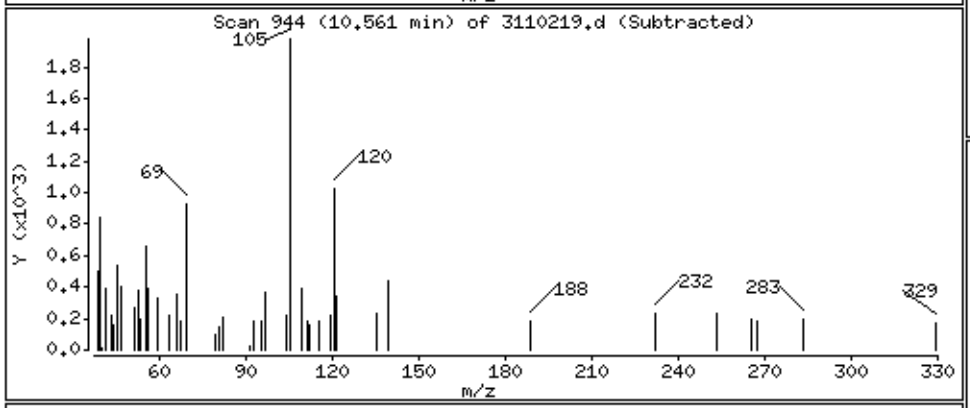
Column diameter: 0.25

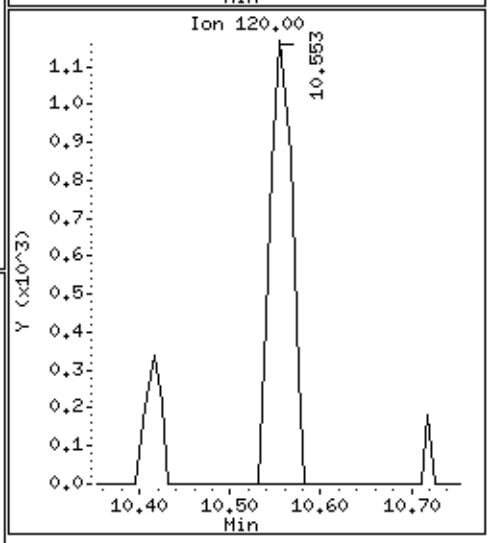
196 1,2,4-Trimethylbenzene

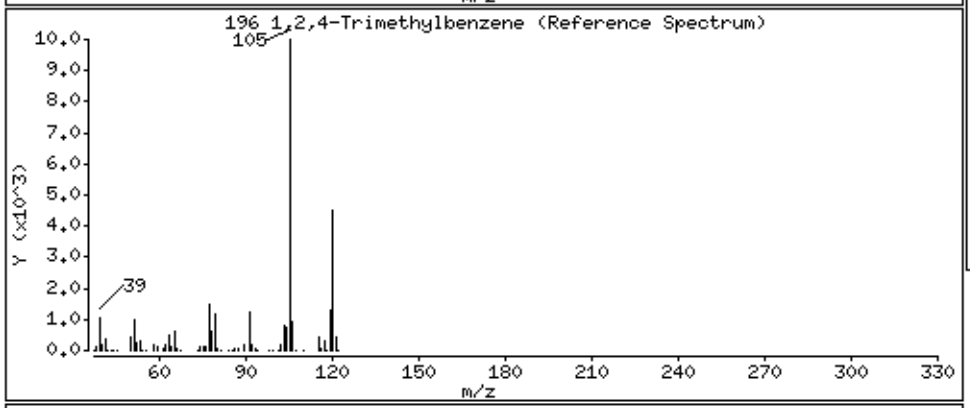
Concentration: 0.3096 PPBV

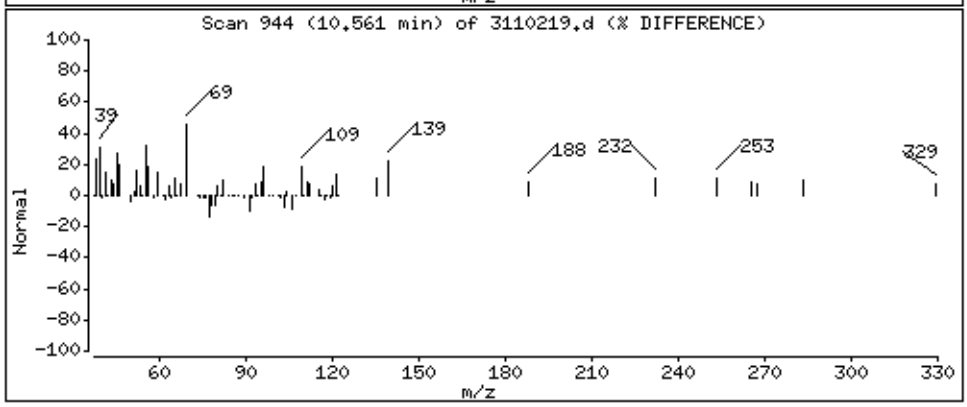












Data File: /chem/msd3.i/02nov15.b/3110219.d

Date : 02-NOV-2015 21:42

Client ID:

Instrument: msd3.i

Sample Info: 200ml 1L1808

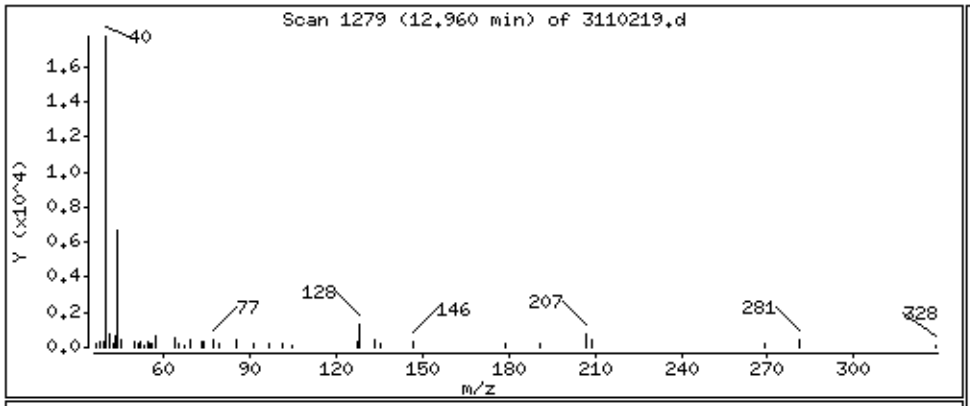
Operator: js

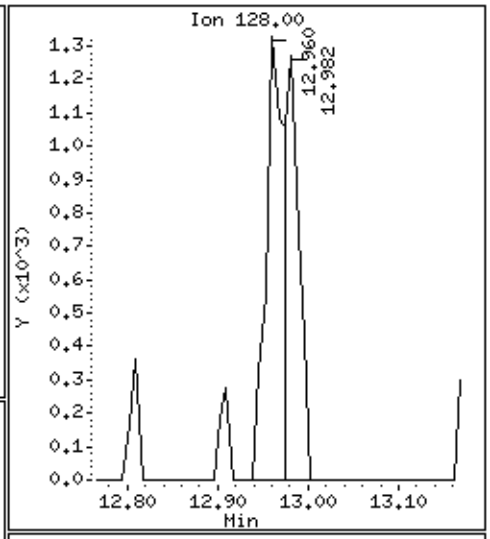
Column phase: RTX-624

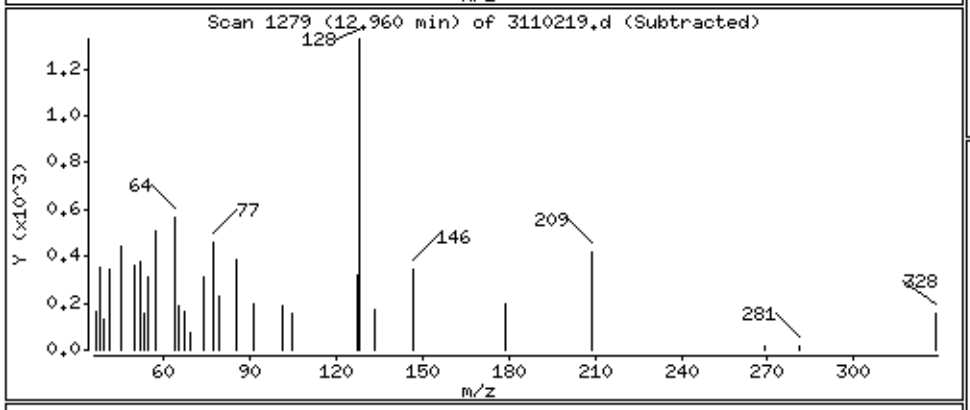
Column diameter: 0.25

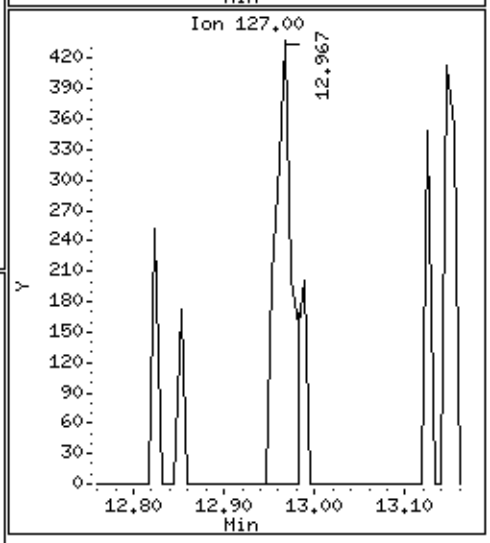
228 Naphthalene

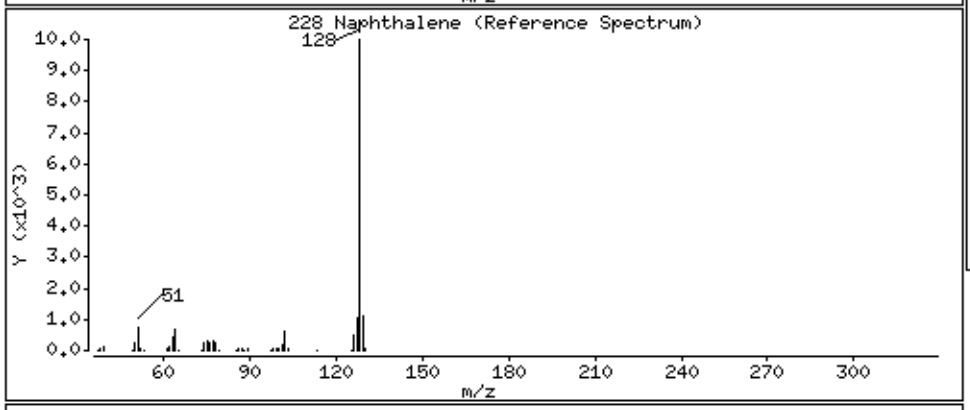
Concentration: 0.1183 PPBV

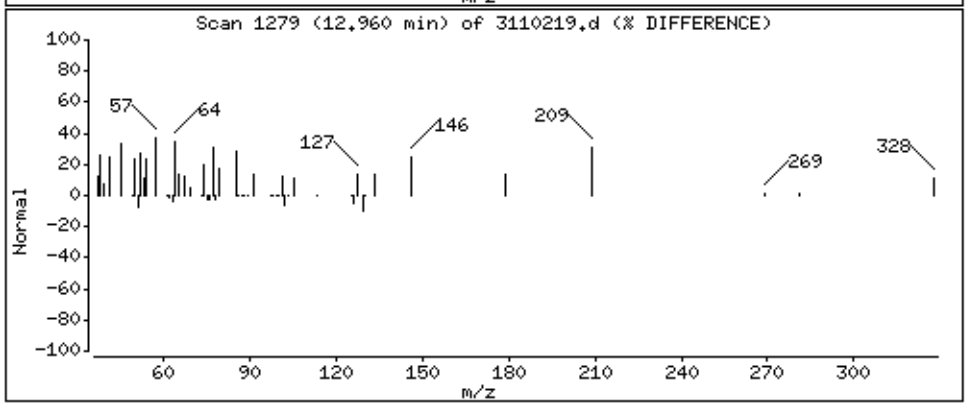












eurofins | Air Toxics

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

Client Sample ID: B30SSV-4102715

Lab ID#: 1510593-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.73 J	5.6	3.6 J
Freon 11	1.1	0.70 J	6.4	3.9 J
Ethanol	4.6	99	8.6	190
Freon 113	1.1	0.24 J	8.7	1.8 J
Acetone	11	21	27	50
2-Propanol	4.6	21	11	52
Carbon Disulfide	4.6	3.0 J	14	9.3 J
Methylene Chloride	11	0.79 J	40	2.8 J
Hexane	1.1	0.57 J	4.0	2.0 J
2-Butanone (Methyl Ethyl Ketone)	4.6	3.8 J	13	11 J
Tetrahydrofuran	1.1	0.36 J	3.4	1.1 J
1,1,1-Trichloroethane	1.1	0.31 J	6.2	1.7 J
Benzene	1.1	0.57 J	3.6	1.8 J
Heptane	1.1	0.48 J	4.7	2.0 J
4-Methyl-2-pentanone	1.1	0.27 J	4.7	1.1 J
Toluene	1.1	0.56 J	4.3	2.1 J
Tetrachloroethene	1.1	0.78 J	7.7	5.3 J
2-Hexanone	4.6	0.71 J	19	2.9 J
m,p-Xylene	1.1	0.56 J	5.0	2.4 J
1,2,4-Trimethylbenzene	1.1	0.33 J	5.6	1.6 J
Naphthalene	2.3	0.069 J	12	0.36 J

eurofins | Air Toxics

Client Sample ID: B30SSV-4102715

Lab ID#: 1510593-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110216**	**Date of Collection:**	**10/27/15 4:36:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 07:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.73 J	5.6	3.6 J
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	0.70 J	6.4	3.9 J
Ethanol	4.6	99	8.6	190
Freon 113	1.1	0.24 J	8.7	1.8 J
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	21	27	50
2-Propanol	4.6	21	11	52
Carbon Disulfide	4.6	3.0 J	14	9.3 J
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	0.79 J	40	2.8 J
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	0.57 J	4.0	2.0 J
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	3.8 J	13	11 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	0.36 J	3.4	1.1 J
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	0.31 J	6.2	1.7 J
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	0.57 J	3.6	1.8 J
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.48 J	4.7	2.0 J
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	0.27 J	4.7	1.1 J
Toluene	1.1	0.56 J	4.3	2.1 J
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	0.78 J	7.7	5.3 J
2-Hexanone	4.6	0.71 J	19	2.9 J

eurofins | Air Toxics

Client Sample ID: B30SSV-4102715

Lab ID#: 1510593-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110216**	**Date of Collection:**	**10/27/15 4:36:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 07:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	0.56 J	5.0	2.4 J
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	0.33 J	5.6	1.6 J
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	0.069 J	12	0.36 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	96	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110216.d
Lab Smp Id: 1510593-04A
Inj Date : 02-NOV-2015 19:51
Operator : js Inst ID: msd3.i
Smp Info : 200ml 37686
Misc Info : 3.7 Hg->14.7 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 1
Dil Factor: 2.28000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.28000	Dilution Factor

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane						CAS #: 74-97-5		
5.592	5.592	(1.000)	130	114078	25.0000		80.00- 120.00	100.00
5.592	5.592	(1.000)	128	88962			42.88- 102.88	77.98
5.592	5.592	(1.000)	49	318153			207.65- 267.65	278.89
* 123 1,4-Difluorobenzene						CAS #: 540-36-3		
6.474	6.488	(1.000)	114	460418	25.0000		80.00- 120.00	100.00
6.474	6.474	(1.000)	88	78045			0.00- 45.78	16.95
* 163 Chlorobenzene-d5						CAS #: 3114-55-4		
8.934	8.942	(1.000)	117	503947	25.0000		80.00- 120.00	100.00
8.934	8.934	(1.000)	82	297567			26.67- 86.67	59.05
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
6.124	6.124	(1.095)	65	273782	27.4708	27.471	80.00- 120.00	100.00
6.124	6.138	(1.095)	67	122837			22.68- 82.68	44.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.190)	98	521408	26.3804	26.380	80.00- 120.00	100.00
7.702	7.702 (1.190)	70	65920			0.00- 41.75	12.64
7.702	7.702 (1.190)	100	332726			34.13- 94.13	63.81
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.111)	174	299034	24.0246	24.025	80.00- 120.00	100.00
9.923	9.923 (1.111)	95	408322			96.73- 156.73	136.55
9.923	9.923 (1.111)	176	290126			65.47- 125.47	97.02
11 Freon 12					CAS #: 75-71-8		
1.604	1.605 (0.287)	85	3818	0.32032	0.7303	80.00- 120.00	100.00(a)
1.604	1.605 (0.287)	87	1849			2.62- 62.62	48.44
35 Freon 11					CAS #: 75-69-4		
2.696	2.710 (0.482)	101	4557	0.30651	0.6988	80.00- 120.00	100.00(a)
2.696	2.710 (0.482)	103	3246			33.61- 93.61	71.23
42 Ethanol					CAS #: 64-17-5		
3.116	3.074 (0.557)	45	128074	43.3823	98.912	80.00- 120.00	100.00
3.116	3.074 (0.557)	43	27583			0.00- 51.11	21.54
3.116	3.060 (0.557)	46	47832			10.70- 70.70	37.35
49 Freon 113					CAS #: 76-13-1		
3.353	3.368 (0.600)	151	860	0.10597	0.2416	80.00- 120.00	100.00(a)
3.353	3.368 (0.600)	153	635			35.19- 95.19	73.85
3.325	3.368 (0.595)	101	252			88.07- 148.07	29.37
52 Acetone					CAS #: 67-64-1		
3.577	3.549 (0.640)	58	28879	9.19843	20.972	80.00- 120.00	100.00
3.577	3.549 (0.640)	43	143370			351.83- 411.83	496.44
56 Carbon Disulfide					CAS #: 75-15-0		
3.619	3.633 (0.647)	76	15055	1.30724	2.980	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.773	3.717 (0.675)	45	123450	9.29522	21.193	80.00- 120.00	100.00
3.773	3.717 (0.675)	43	24654			0.00- 48.10	19.97
3.773	3.717 (0.675)	59	3133			0.00- 33.34	2.54
66 Methylene Chloride					CAS #: 75-09-2		
4.039	4.053 (0.722)	49	3284	0.34760	0.7925	80.00- 120.00	100.00(a)
4.053	4.053 (0.725)	84	998			9.02- 69.02	30.41
4.053	4.053 (0.725)	51	2715			0.00- 59.58	82.68
78 Hexane					CAS #: 110-54-3		
4.487	4.501 (0.802)	57	2669	0.24840	0.5664	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Hexane (continued)							
4.487	4.501 (0.802)	43	3323			44.95- 104.95	124.52
4.487	4.501 (0.802)	86	495			0.00- 40.12	18.55
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	3621	1.67088	3.810	80.00- 120.00	100.00(a)
5.396	5.382 (0.965)	43	29036			717.19- 777.19	801.76
5.396	5.396 (0.965)	57	2988			21.09- 81.09	82.53
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	1528	0.15935	0.3633	80.00- 120.00	100.00(a)
5.592	5.592 (1.000)	71	407			0.00- 49.93	26.64
5.620	5.592 (1.005)	72	829			0.00- 50.49	54.28
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	1749	0.13786	0.3143	80.00- 120.00	100.00(a)
5.774	5.774 (1.033)	99	910			33.59- 93.59	52.07
116 Benzene					CAS #: 71-43-2		
6.096	6.110 (0.942)	78	3201	0.25139	0.5732	80.00- 120.00	100.00(a)
6.110	6.110 (0.944)	77	1274			0.00- 54.02	39.80
121 Heptane					CAS #: 142-82-5		
6.264	6.250 (0.968)	71	1030	0.21002	0.4788	80.00- 120.00	100.00(a)
6.264	6.250 (0.968)	43	3260			309.54- 369.54	316.29
6.250	6.250 (0.965)	57	2094			143.16- 203.16	203.20
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.179)	58	873	0.11759	0.2681	80.00- 120.00	100.00(a)
7.624	7.631 (1.178)	43	6088			274.73- 334.73	696.79
7.645	7.631 (1.181)	85	171			0.00- 58.76	19.57
147 Toluene					CAS #: 108-88-3		
7.752	7.760 (1.198)	91	4339	0.24602	0.5609	80.00- 120.00	100.00(a)
7.760	7.760 (1.199)	92	2564			27.05- 87.05	59.11
156 Tetrachloroethene					CAS #: 127-18-4		
8.189	8.197 (0.917)	166	3385	0.34430	0.7850	80.00- 120.00	100.00(a)
8.189	8.197 (0.917)	129	2600			47.11- 107.11	76.80
8.189	8.197 (0.917)	131	2230			43.50- 103.50	65.86
158 2-Hexanone					CAS #: 591-78-6		
8.326	8.318 (0.932)	58	3374	0.30998	0.7068	80.00- 120.00	100.00(a)
8.318	8.318 (0.931)	43	7079			189.79- 249.79	209.78
8.333	8.318 (0.933)	100	376			0.00- 43.05	11.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.019)	106	2687	0.24716	0.5635	80.00- 120.00	100.00(a)
9.106	9.106 (1.019)	91	4698			185.23- 245.23	174.81
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.181)	105	4313	0.14689	0.3349	80.00- 120.00	100.00(a)
10.553	10.553 (1.181)	120	1463			13.81- 73.81	33.93
228 Naphthalene					CAS #: 91-20-3		
12.960	12.967 (1.451)	128	1240	0.03039	0.06929	80.00- 120.00	100.00(a)
12.967	12.960 (1.451)	127	296			0.00- 42.95	23.86

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110216.d
Lab Smp Id: 1510593-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.7 Hg->14.7 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	114078	3.93
123 1,4-Difluorobenze	462095	277257	646933	460418	-0.36
163 Chlorobenzene-d5	458379	275027	641731	503947	9.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.47	-0.22
163 Chlorobenzene-d5	8.94	8.61	9.27	8.93	-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: 04-Nov-2015 06:46

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 02nov15
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1510593-04A
Level: LOW Operator: js
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.7 Hg->14.7 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.471	109.88	70-130
$ 146 Toluene-d8	25.000	26.380	105.52	70-130
$ 177 4-Bromofluorobenze	25.000	24.025	96.10	70-130

Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

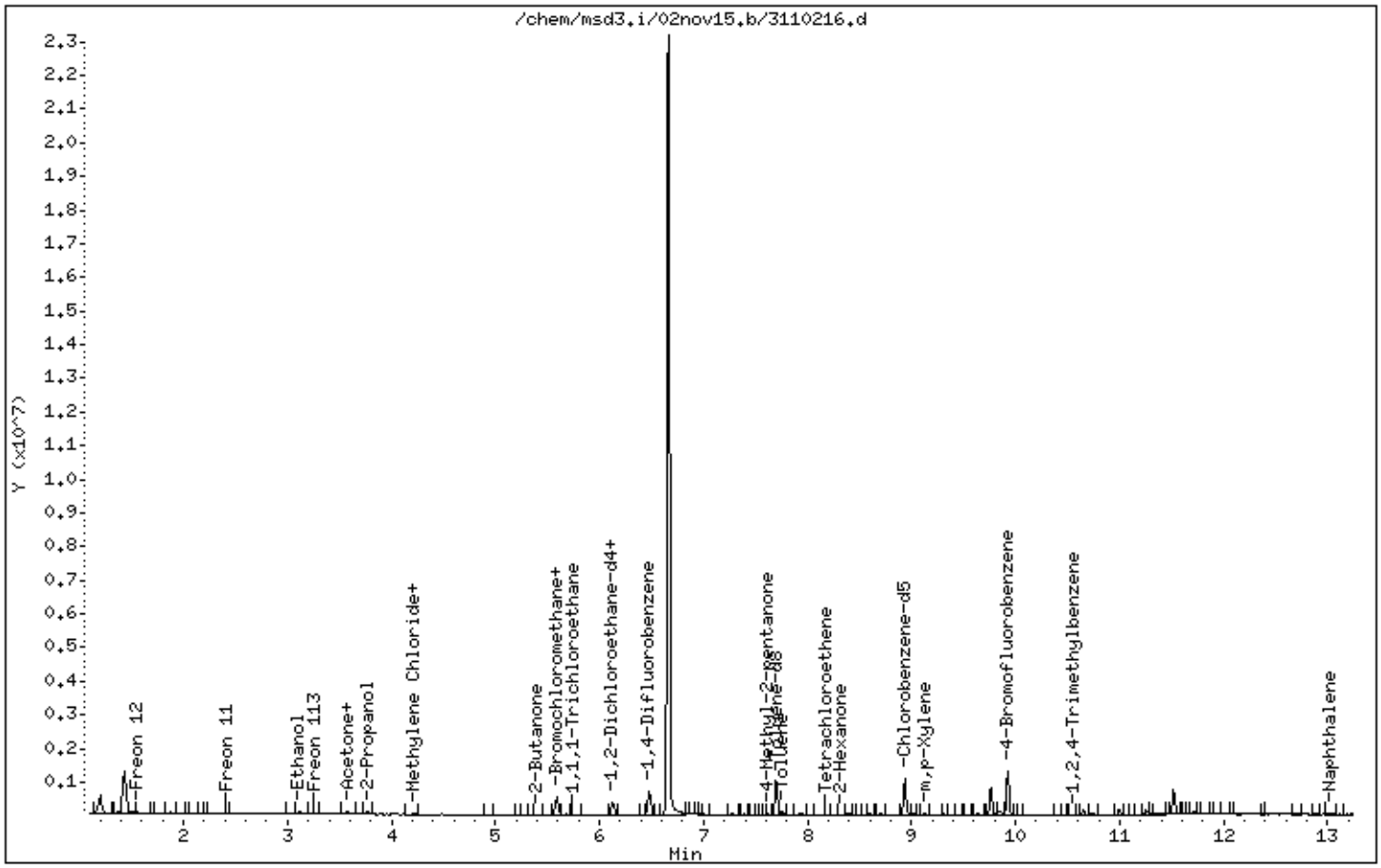
Instrument: msd3.i

Sample Info: 200ml 37686

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

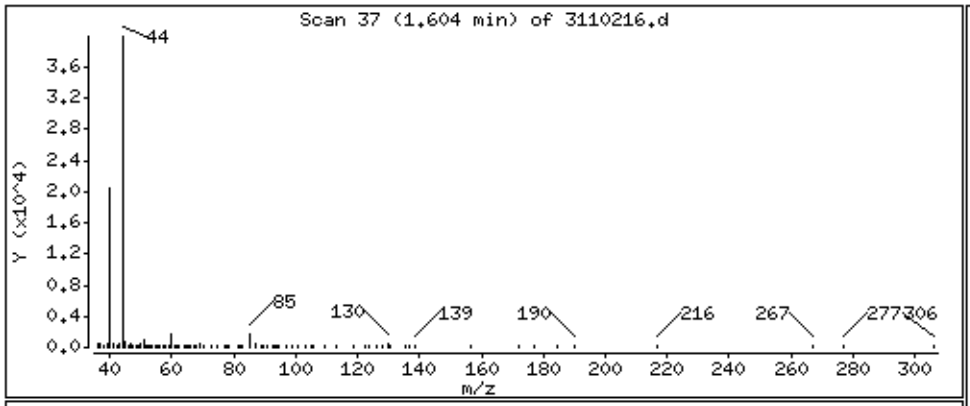
Operator: js

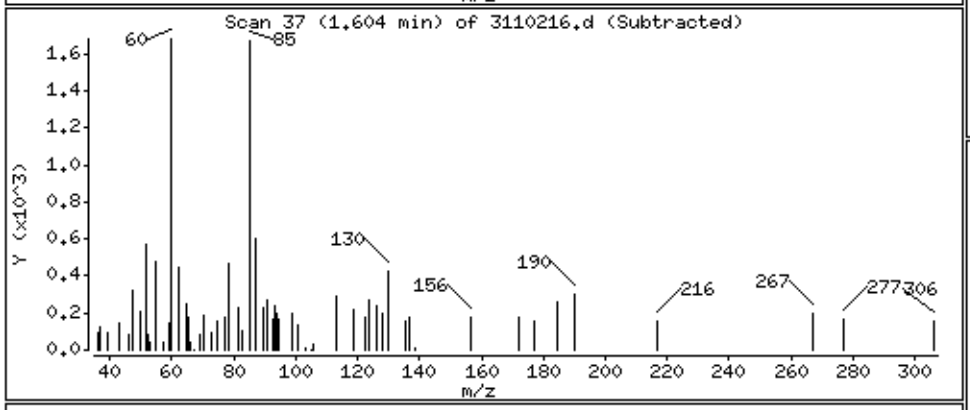
Column phase: RTX-624

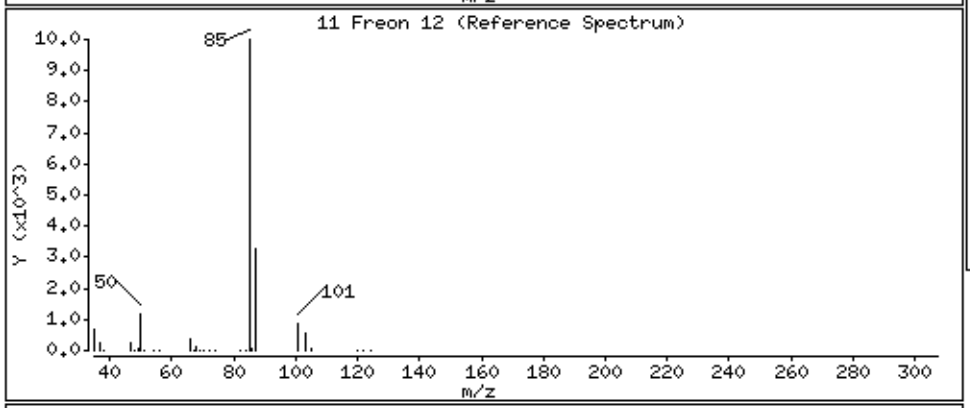
Column diameter: 0.25

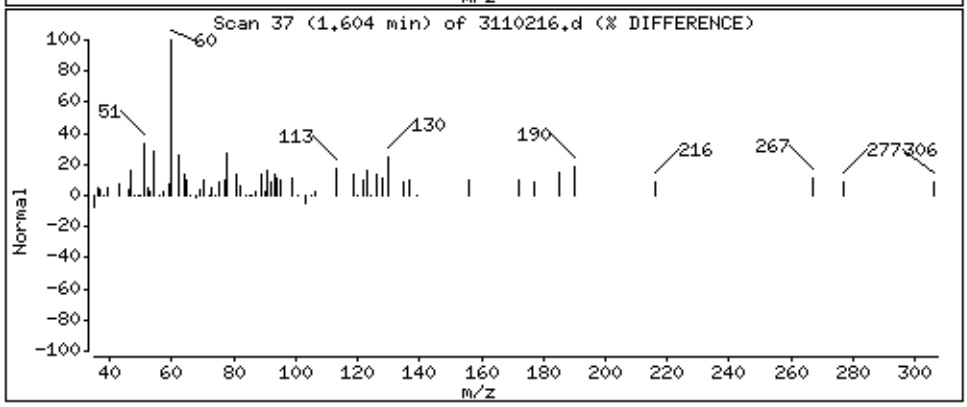
11 Freon 12

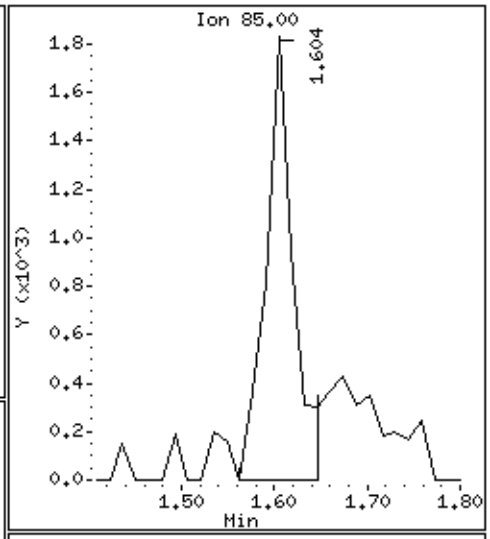
Concentration: 0.7303 PPBV

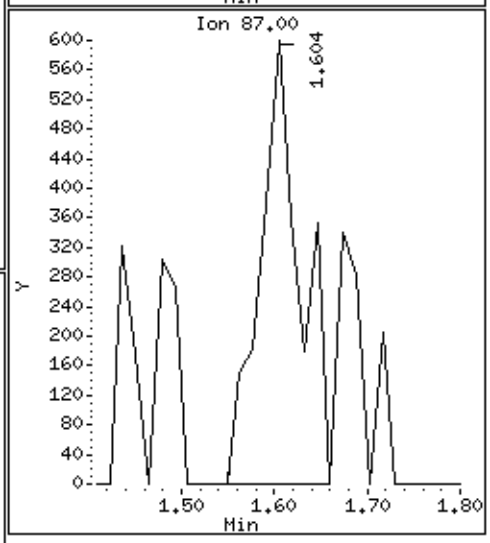












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

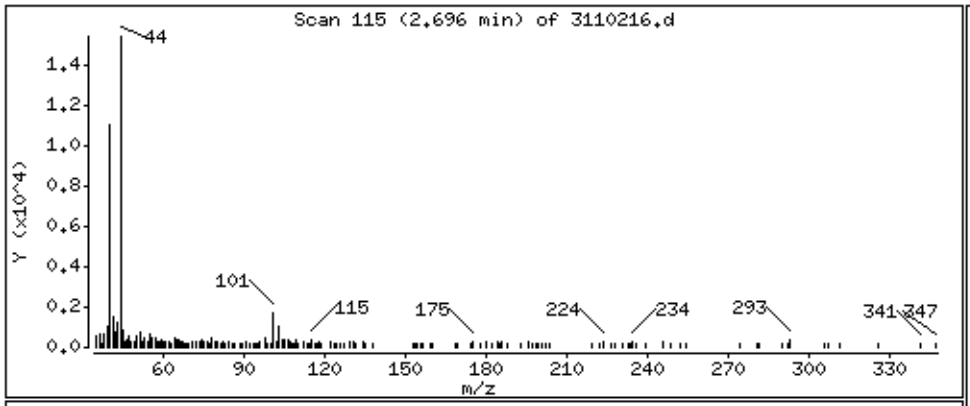
Operator: js

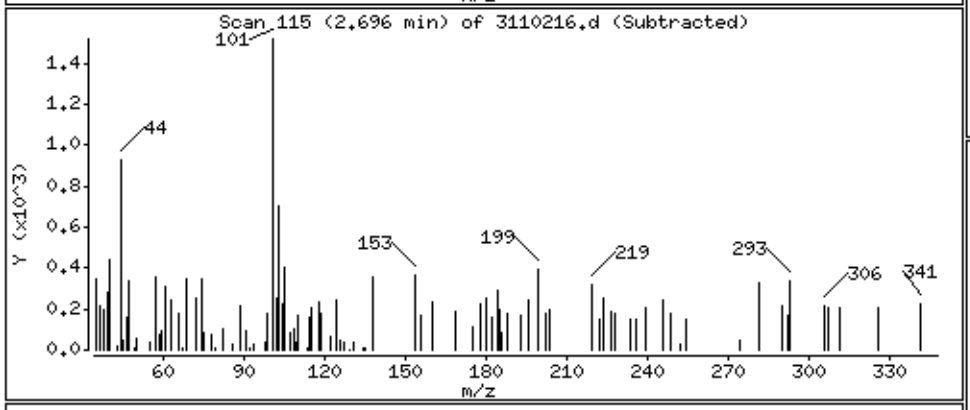
Column phase: RTX-624

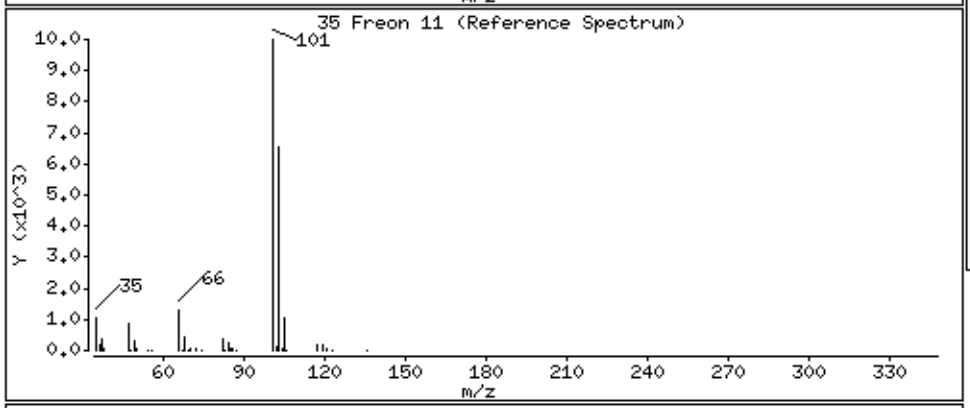
Column diameter: 0.25

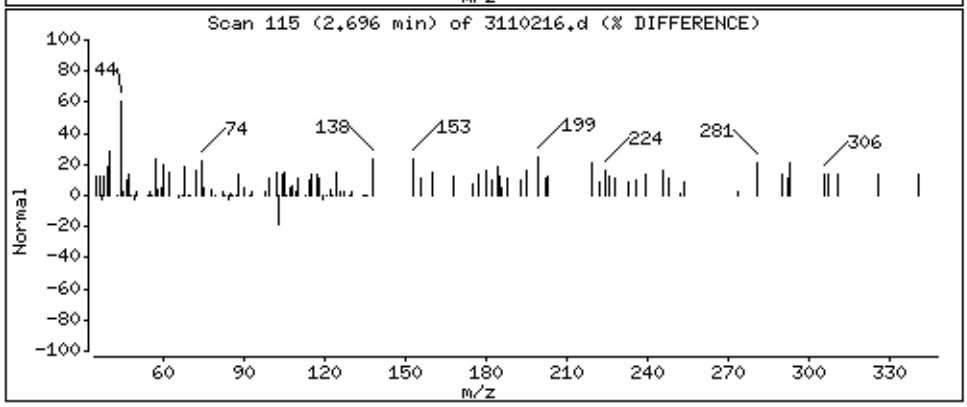
35 Freon 11

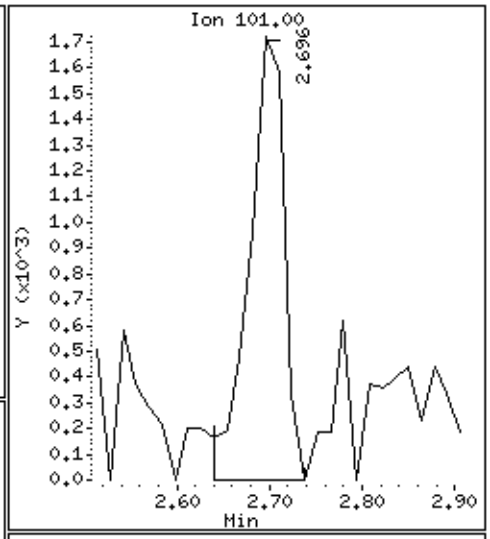
Concentration: 0.6988 PPBV

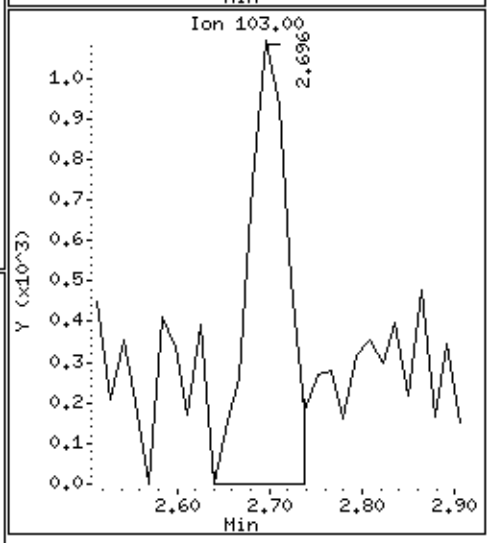












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

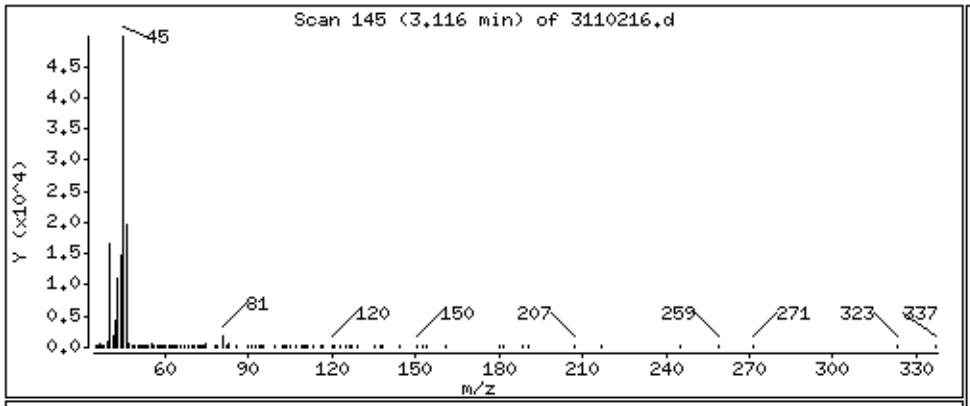
Operator: js

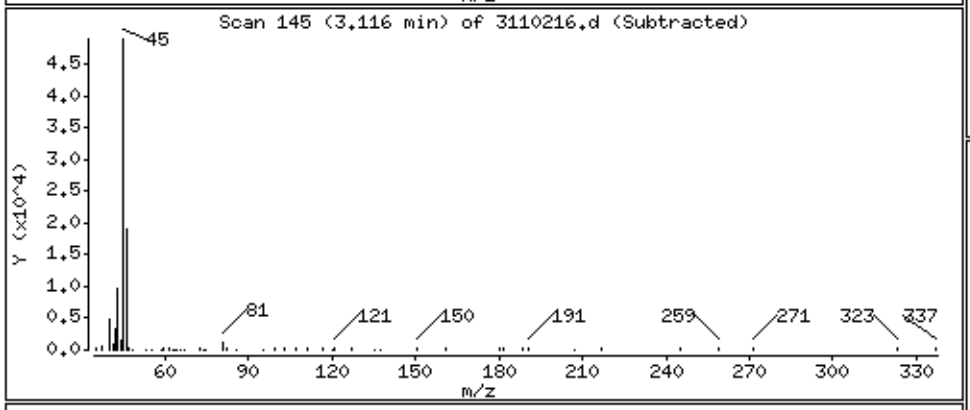
Column phase: RTX-624

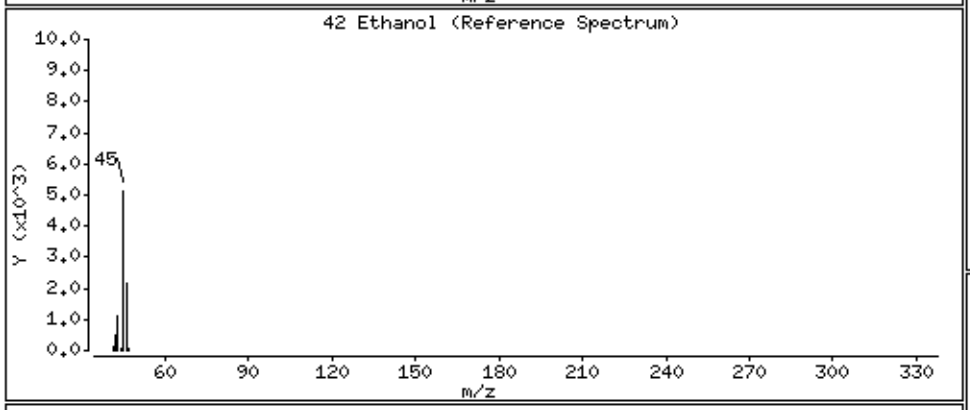
Column diameter: 0.25

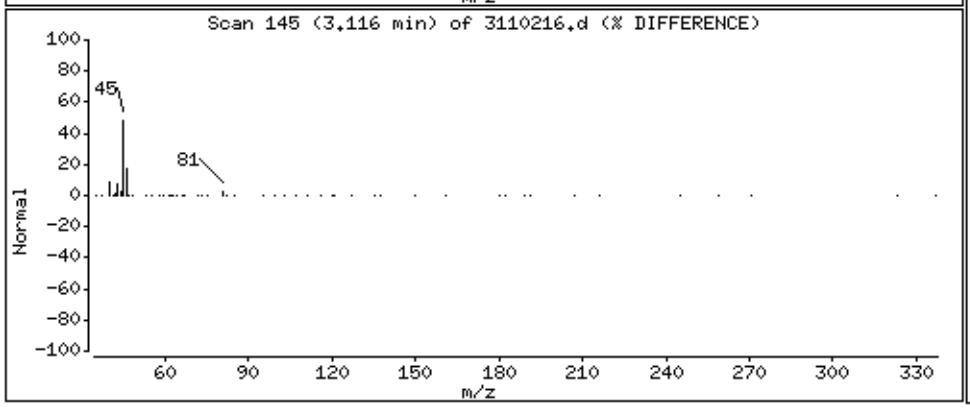
42 Ethanol

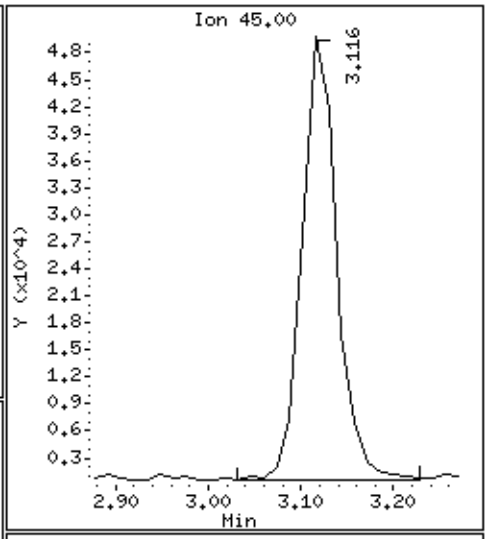
Concentration: 98.912 PPBV

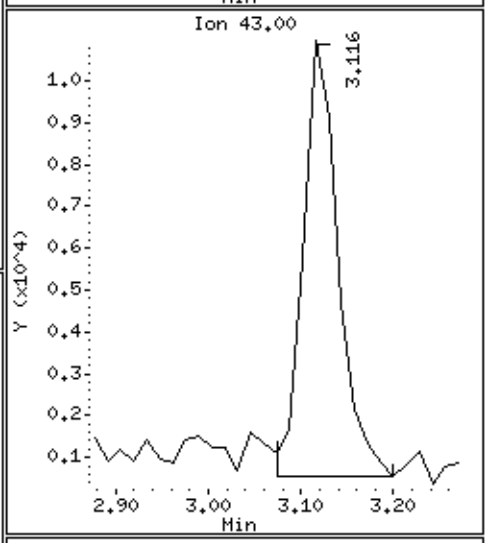


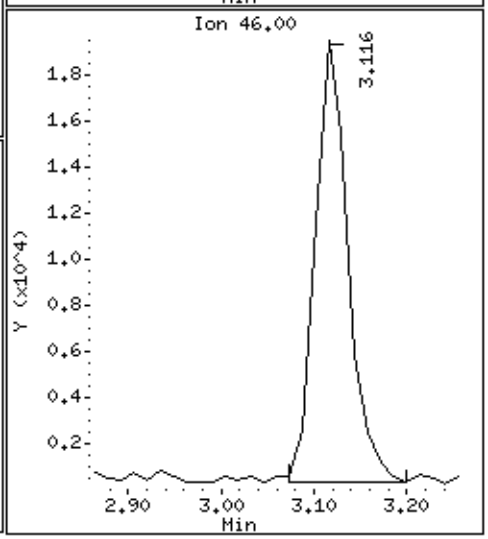












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

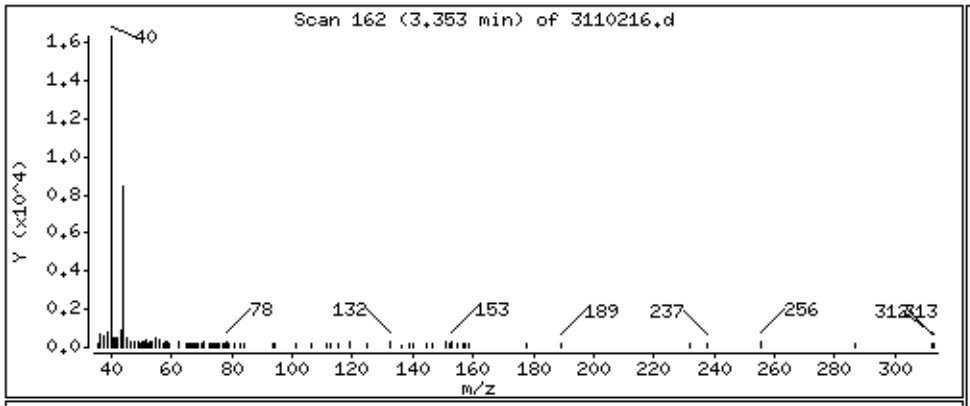
Operator: js

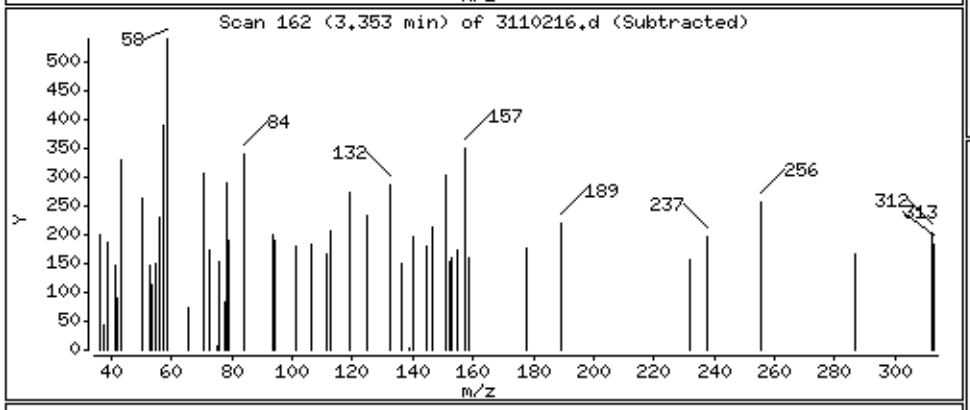
Column phase: RTX-624

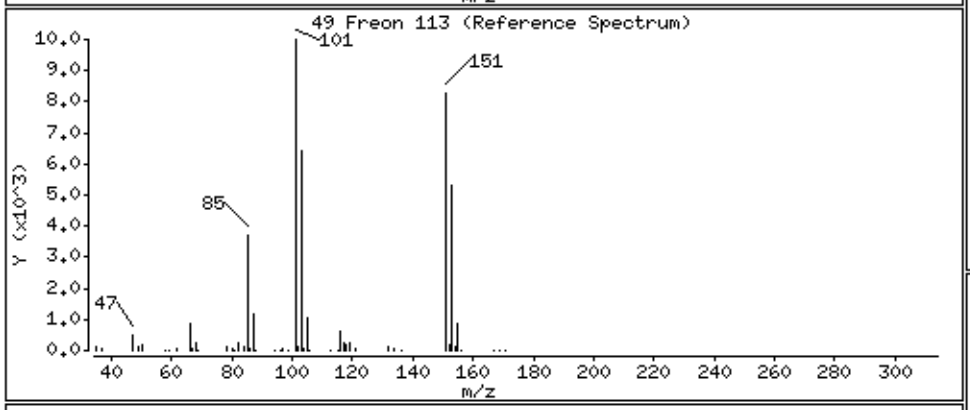
Column diameter: 0.25

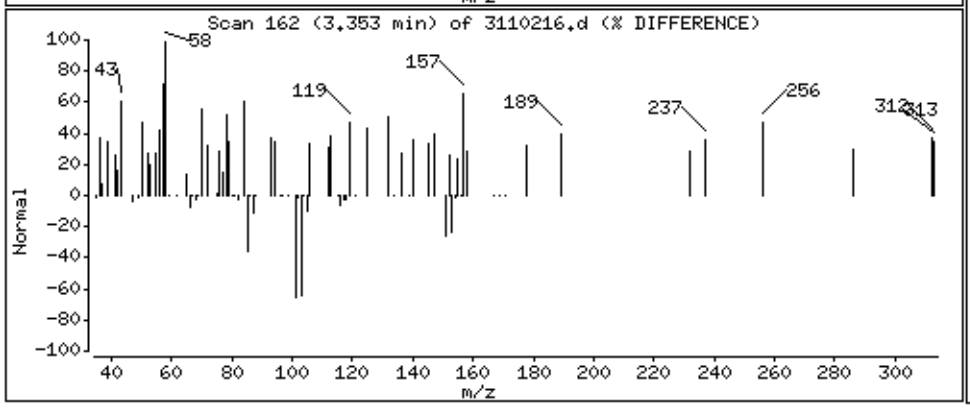
49 Freon 113

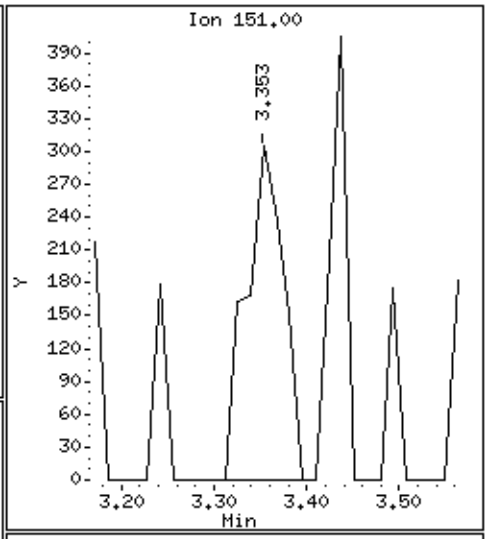
Concentration: 0.2416 PPBV

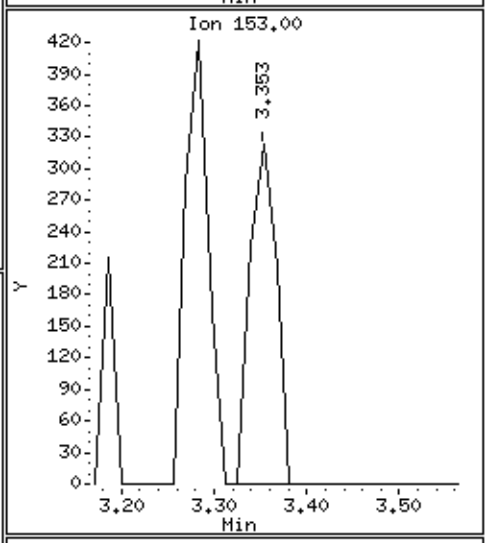


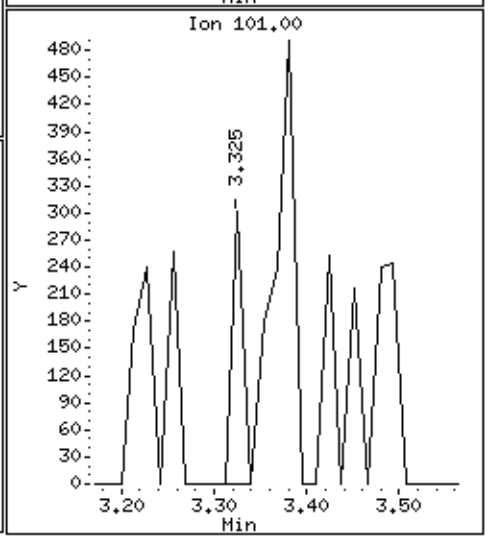












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

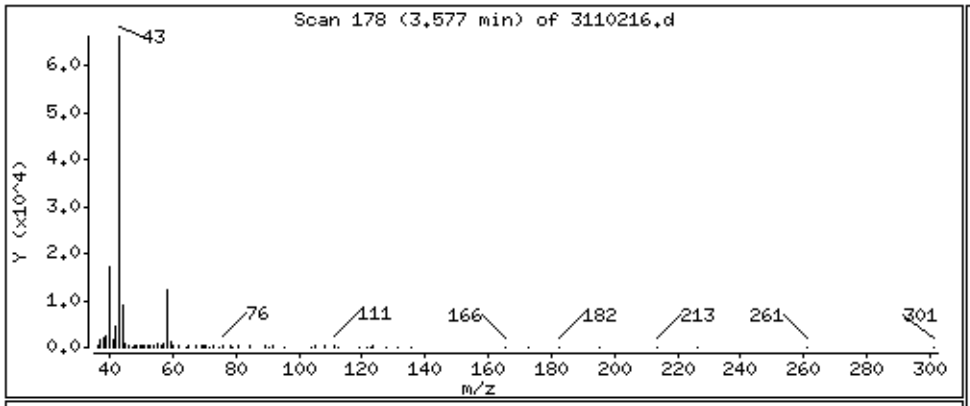
Operator: js

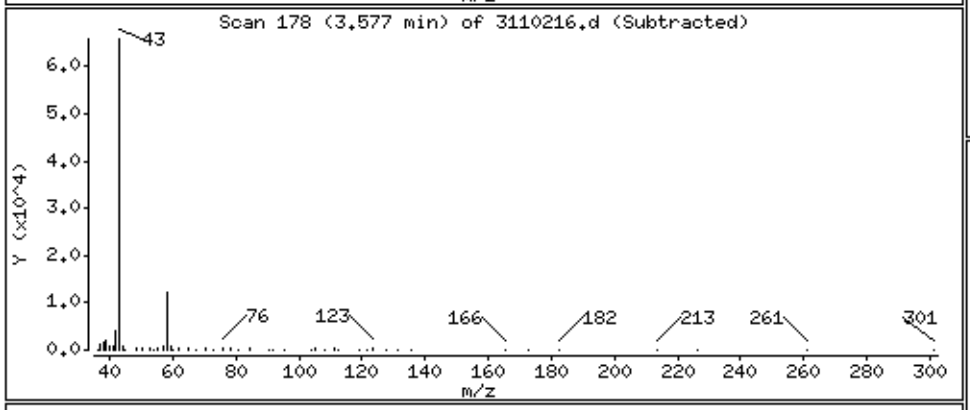
Column phase: RTX-624

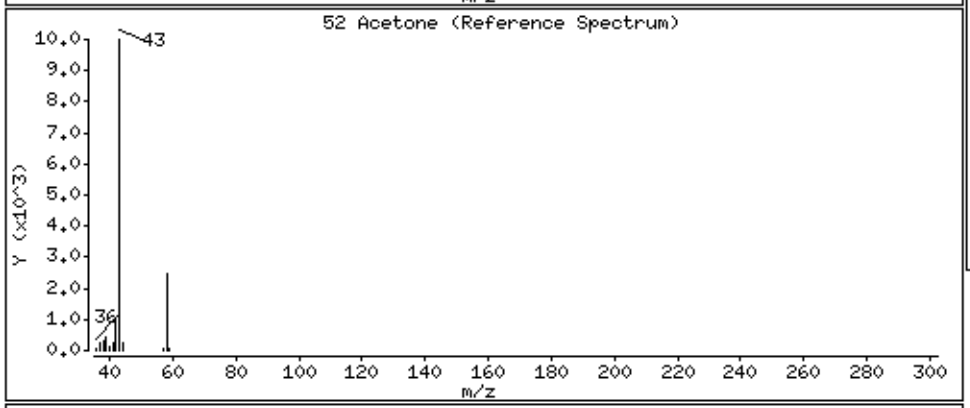
Column diameter: 0.25

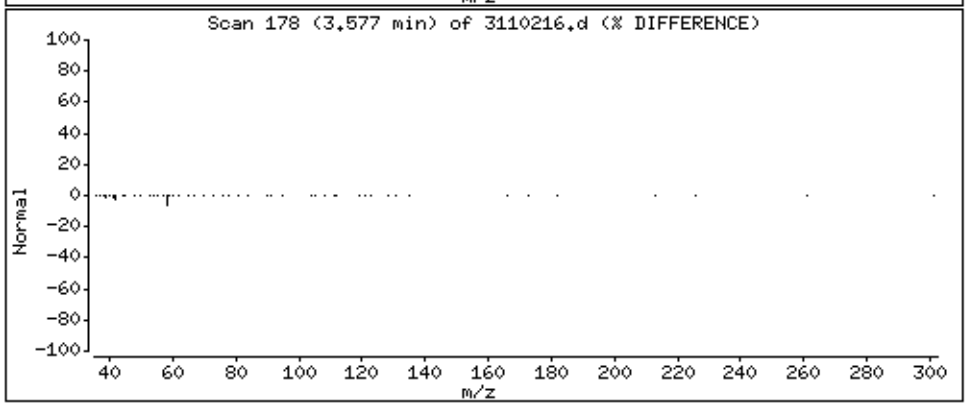
52 Acetone

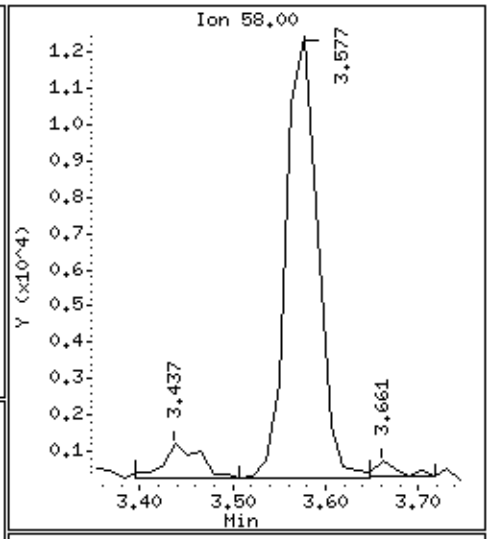
Concentration: 20.972 PPBV

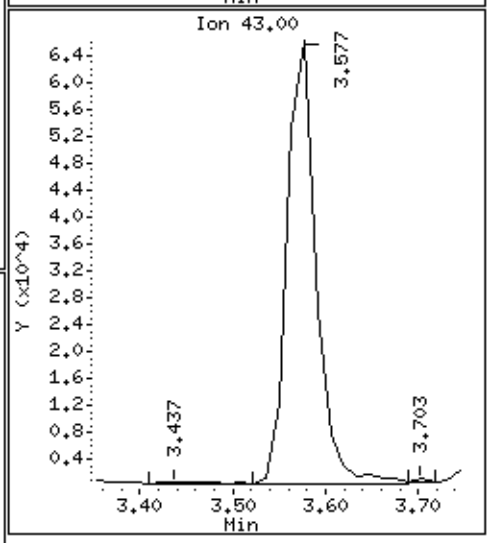












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

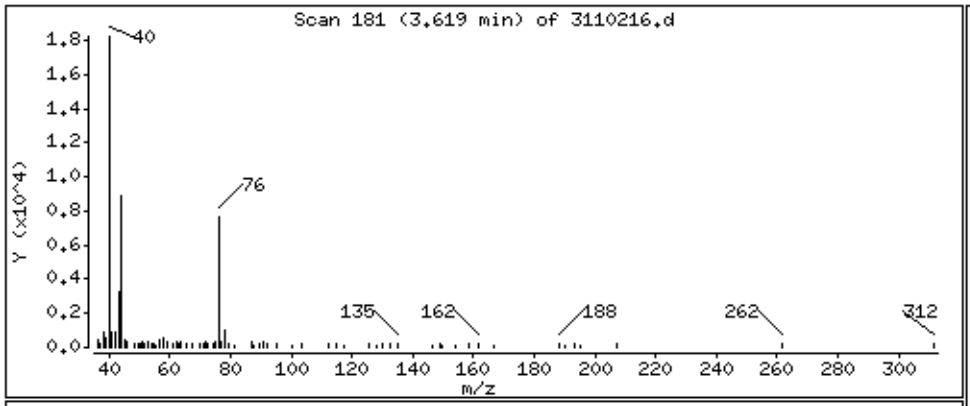
Operator: js

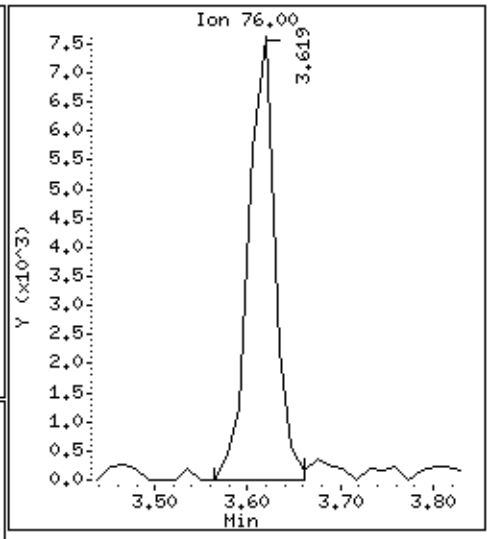
Column phase: RTX-624

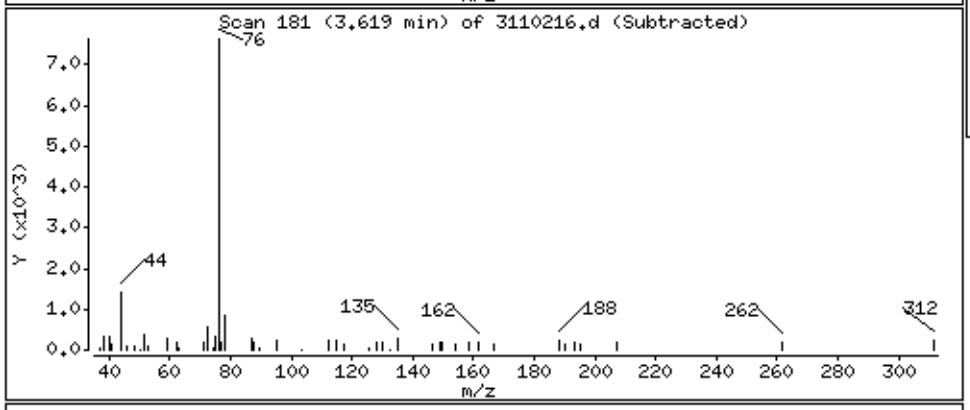
Column diameter: 0.25

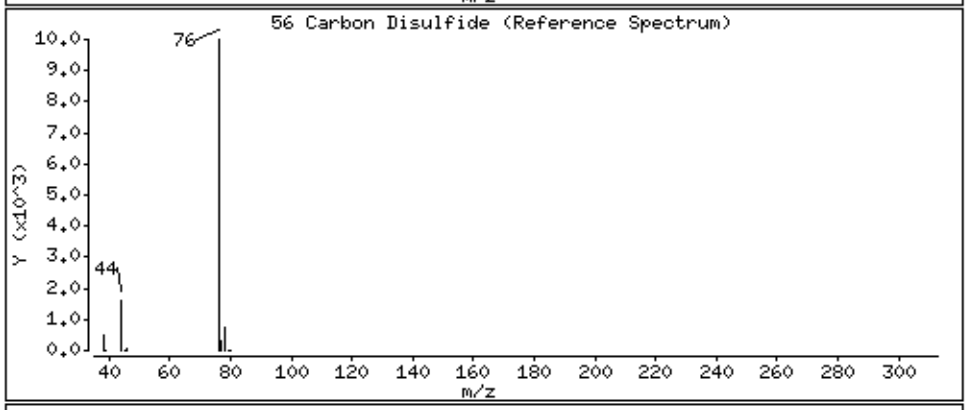
56 Carbon Disulfide

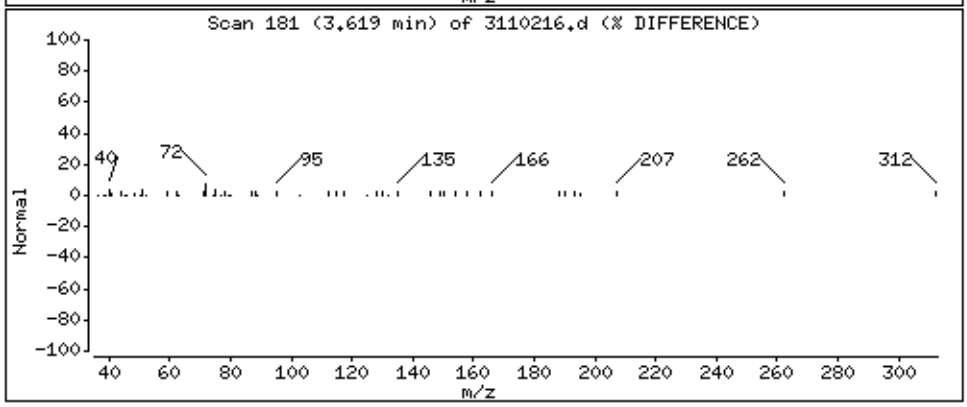
Concentration: 2.980 PPBV











Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

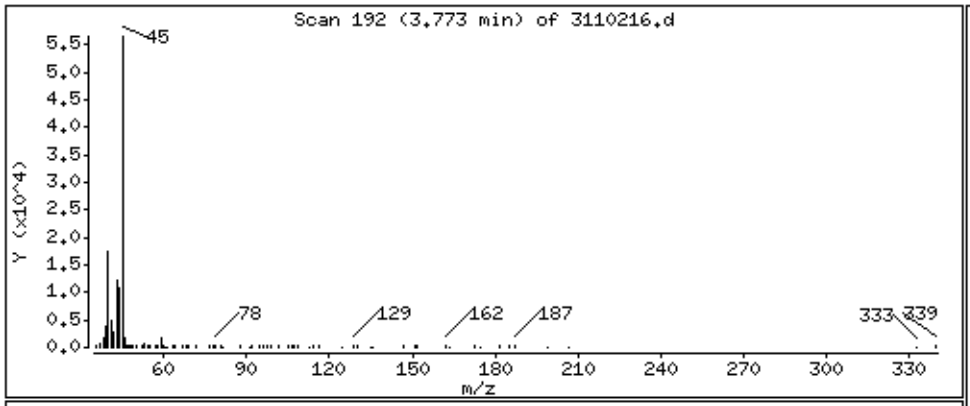
Operator: js

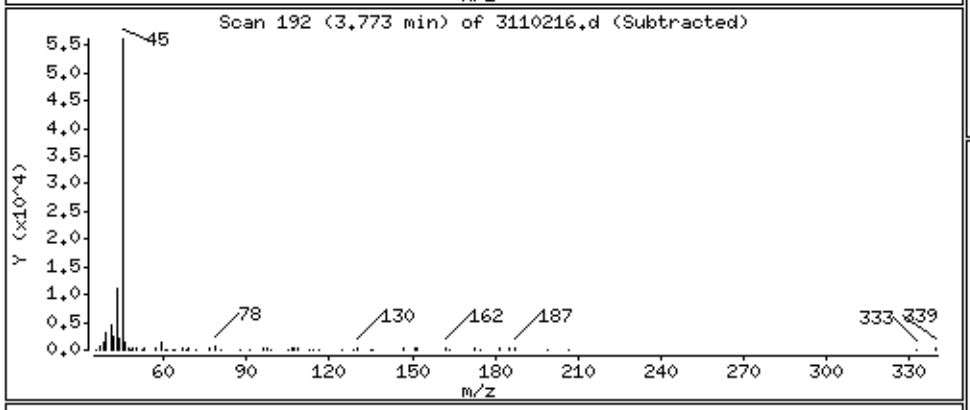
Column phase: RTX-624

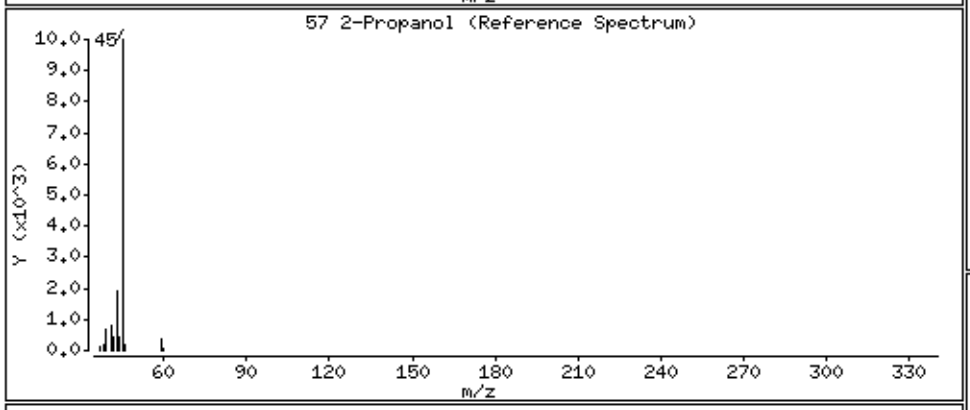
Column diameter: 0.25

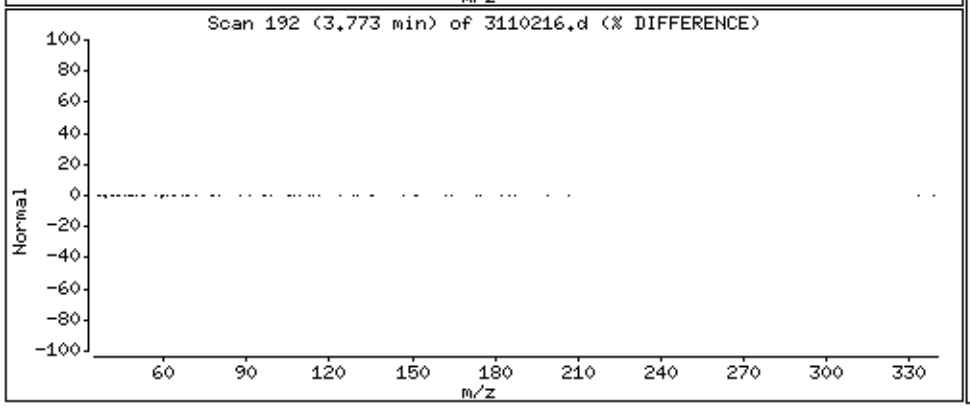
57 2-Propanol

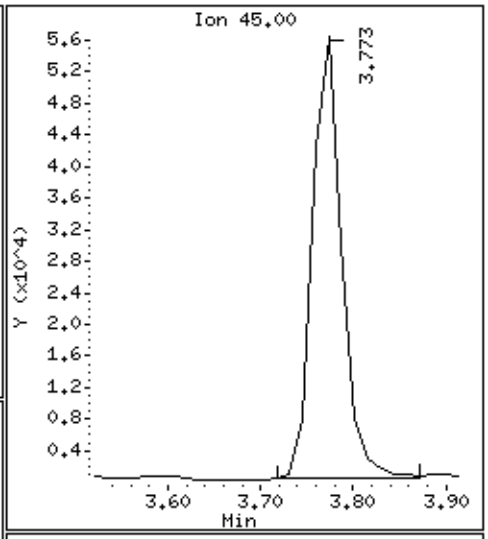
Concentration: 21.193 PPBV

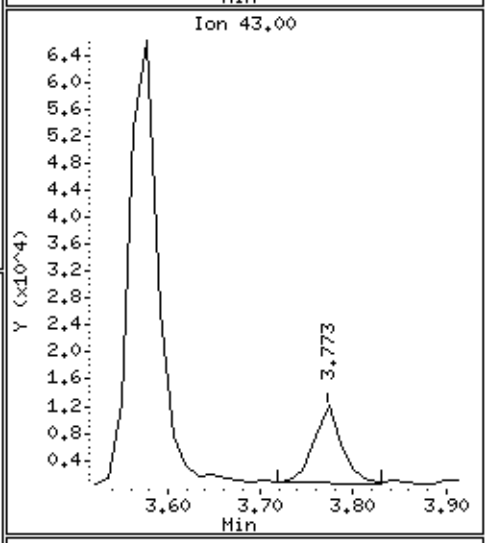


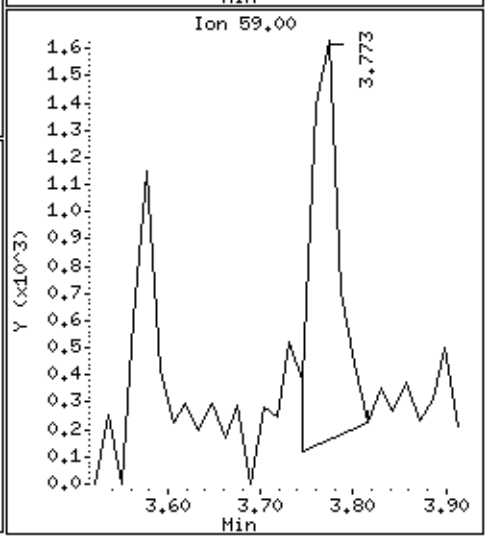












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

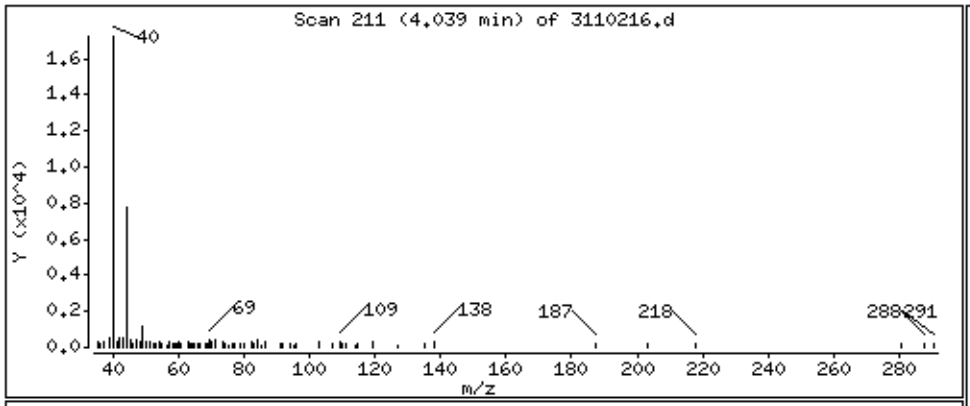
Operator: js

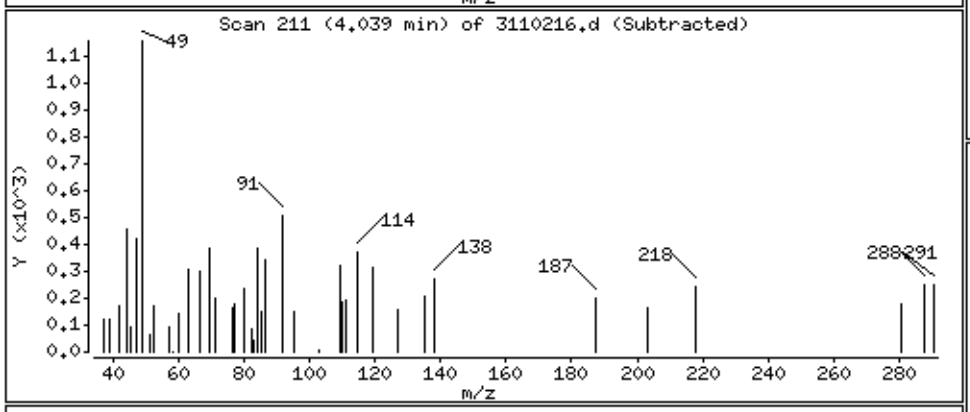
Column phase: RTX-624

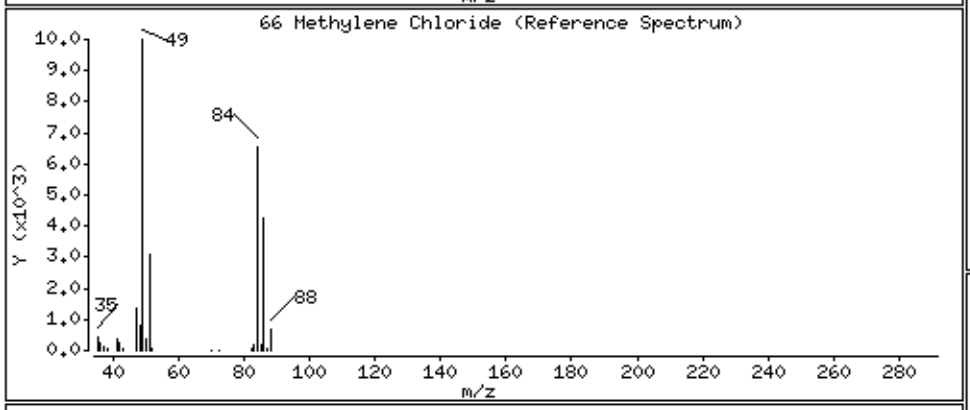
Column diameter: 0.25

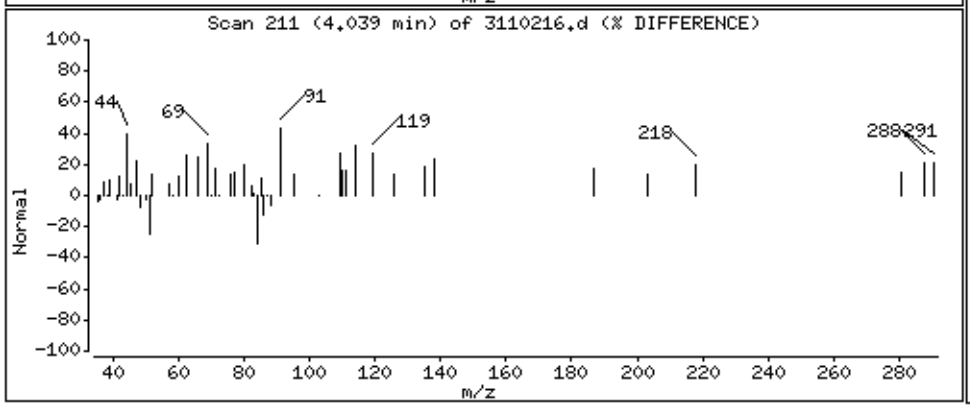
66 Methylene Chloride

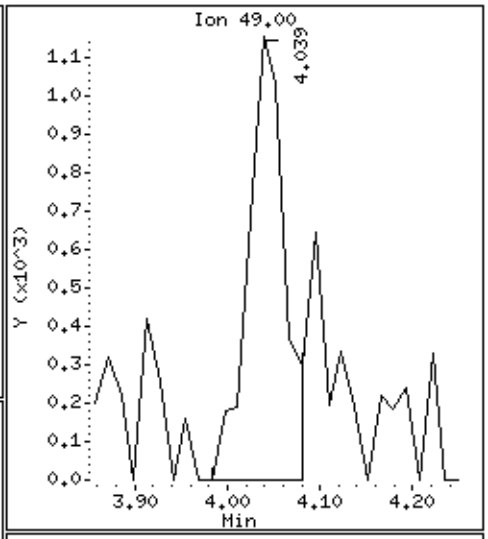
Concentration: 0.7925 PPBV

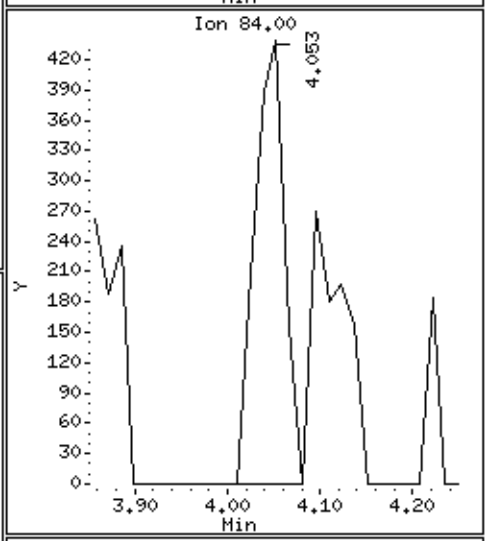


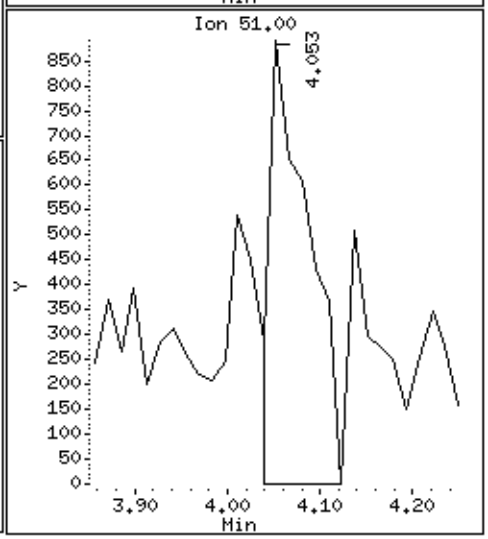












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

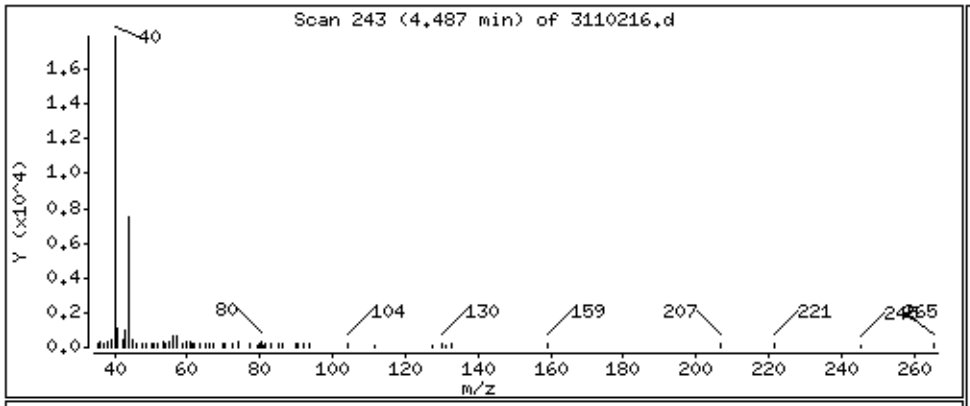
Operator: js

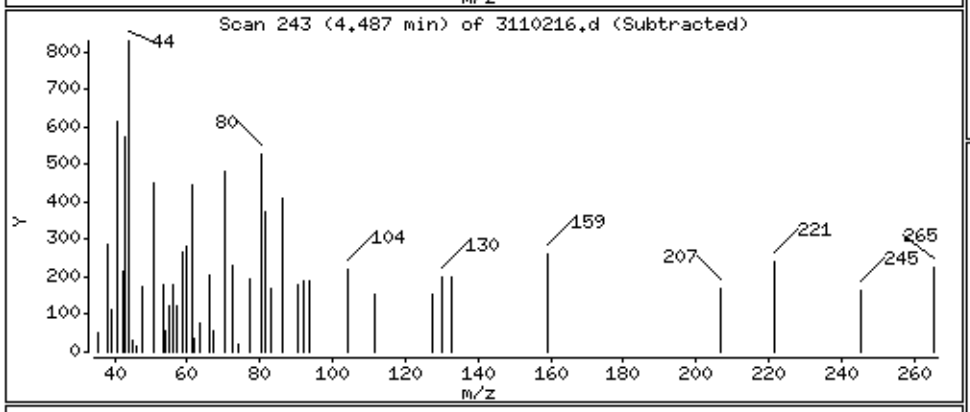
Column phase: RTX-624

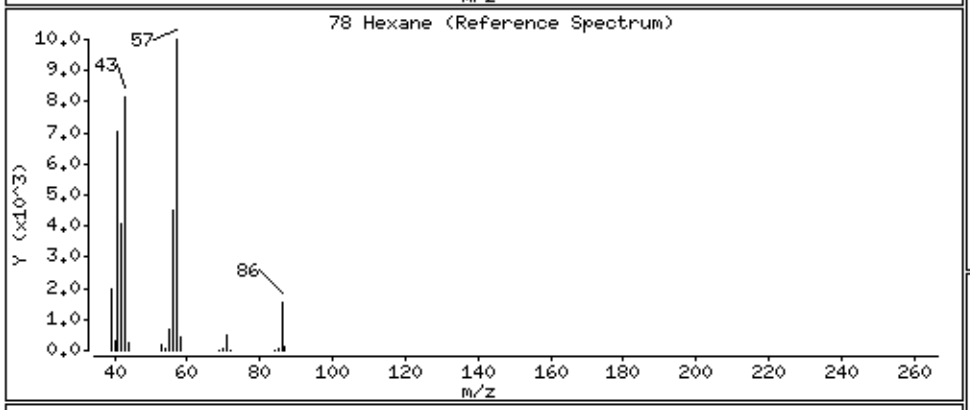
Column diameter: 0.25

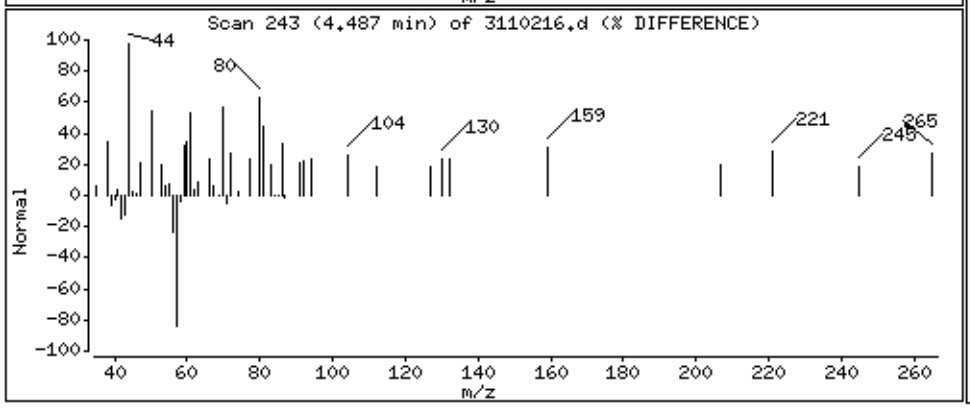
78 Hexane

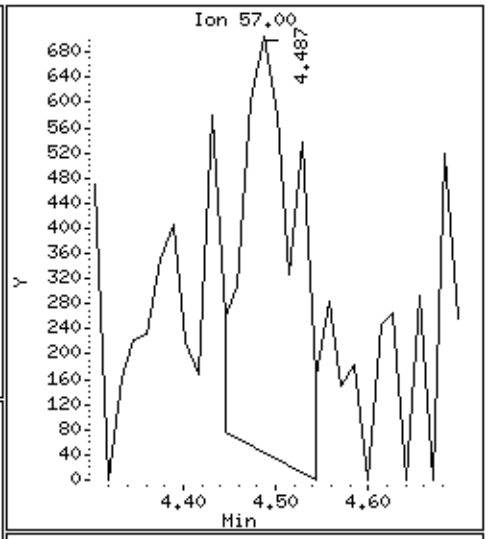
Concentration: 0.5664 PPBV

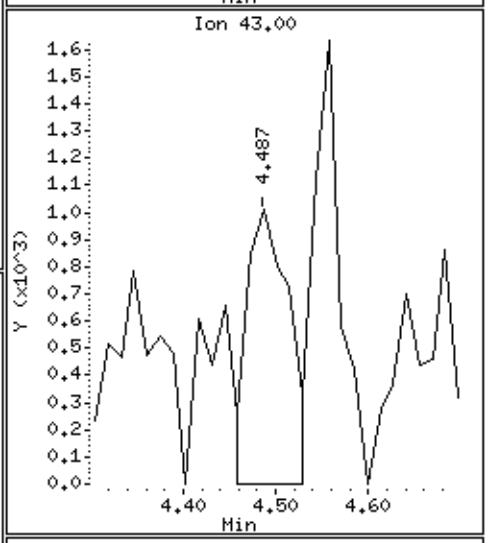


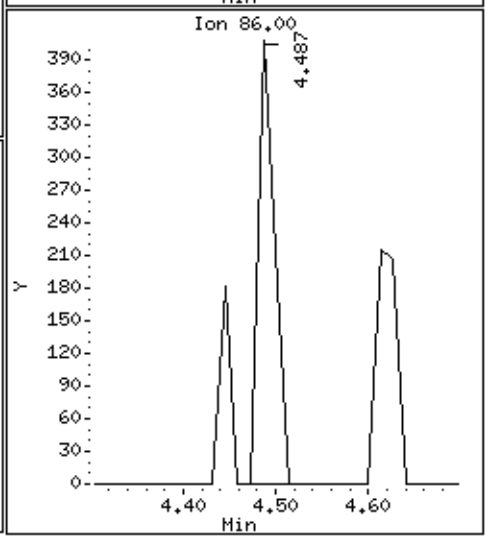












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

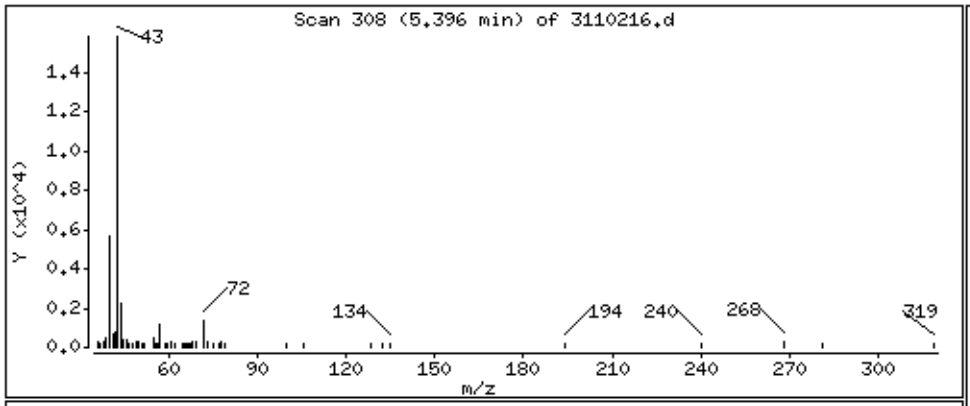
Operator: js

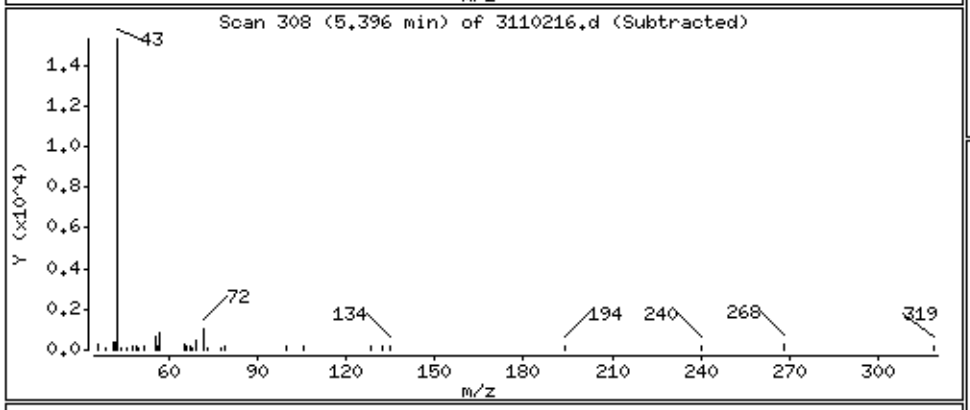
Column phase: RTX-624

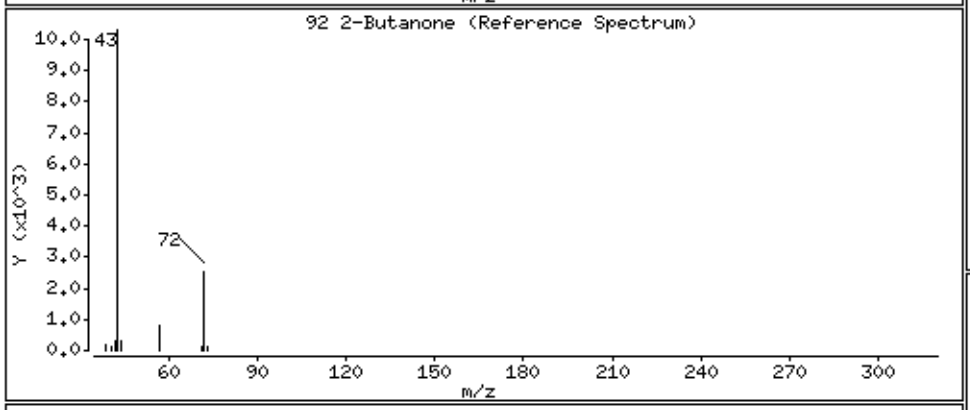
Column diameter: 0.25

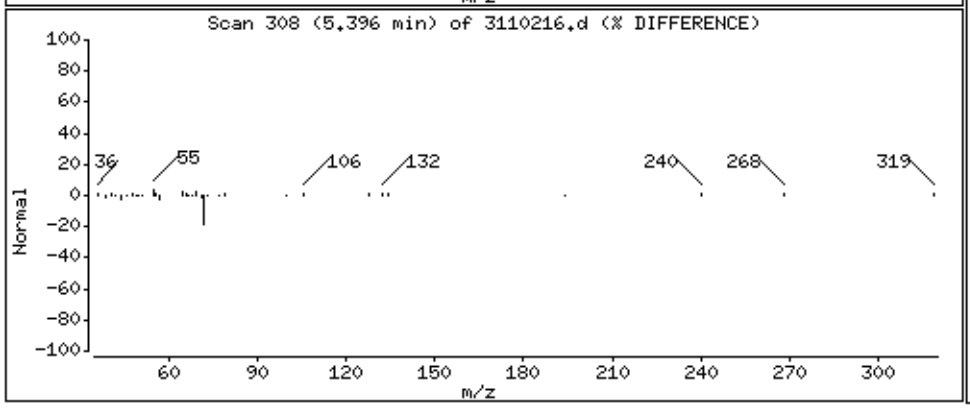
92 2-Butanone

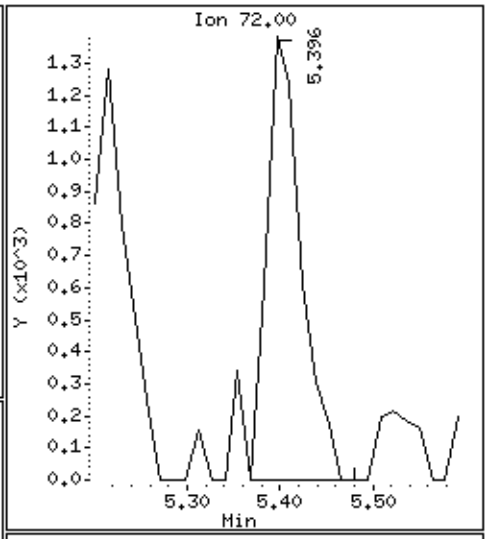
Concentration: 3.810 PPBV

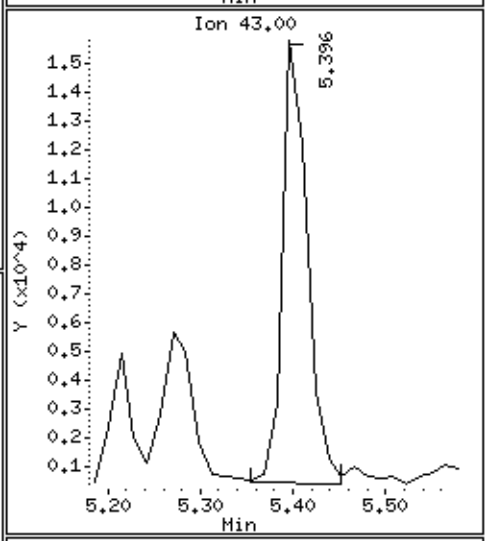


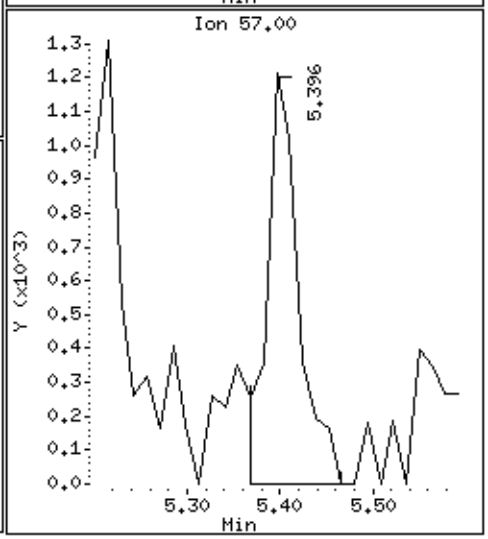












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

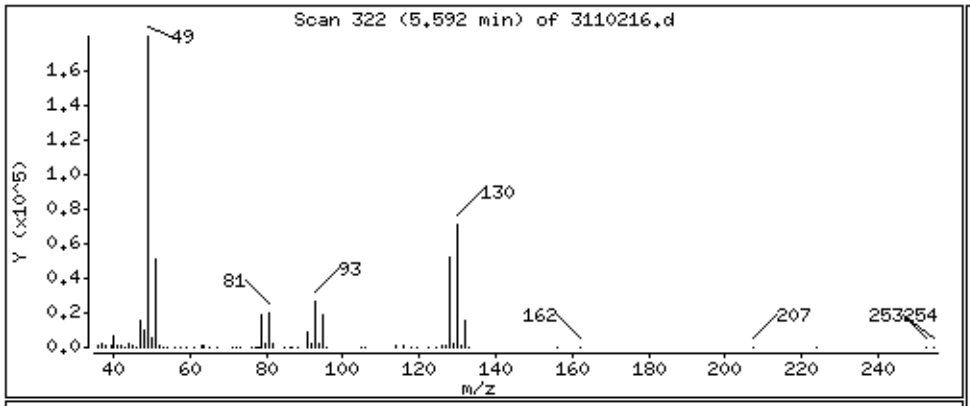
Operator: js

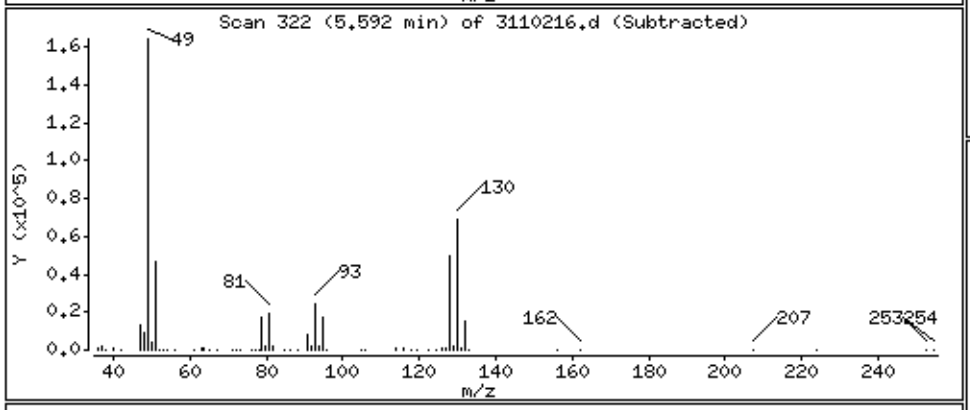
Column phase: RTX-624

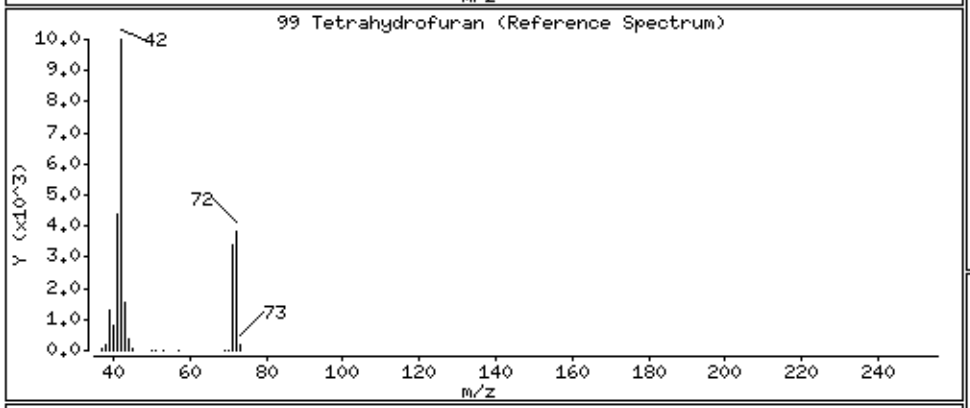
Column diameter: 0.25

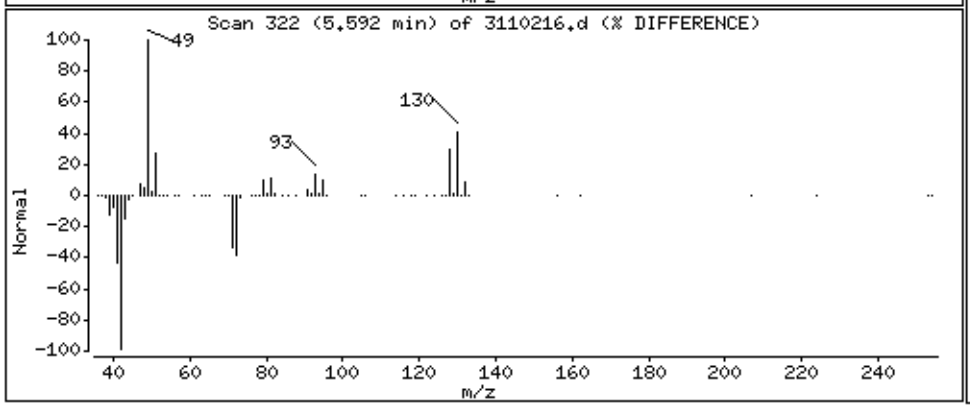
99 Tetrahydrofuran

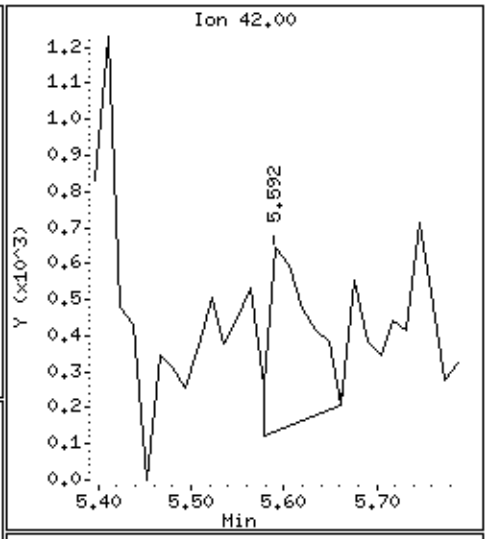
Concentration: 0.3633 PPBV

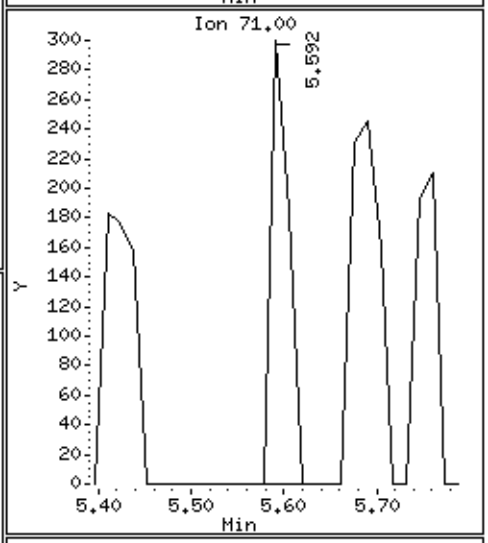


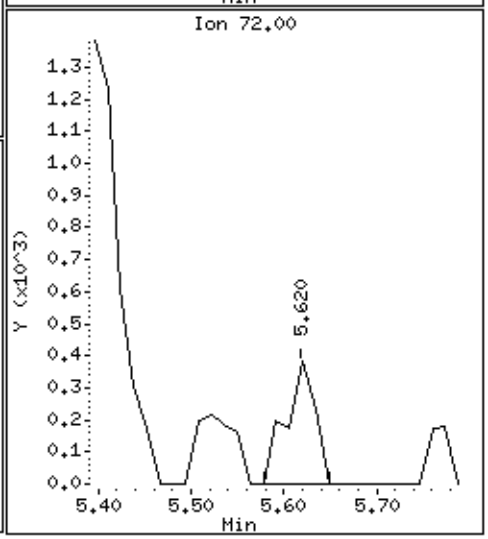












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

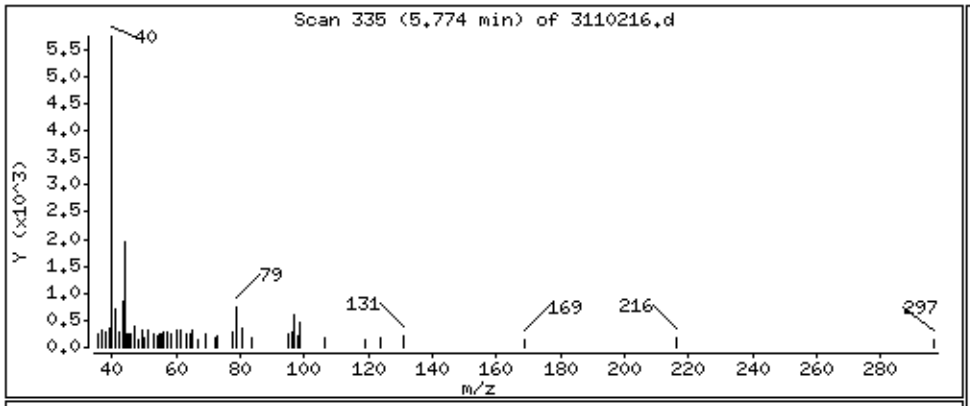
Operator: js

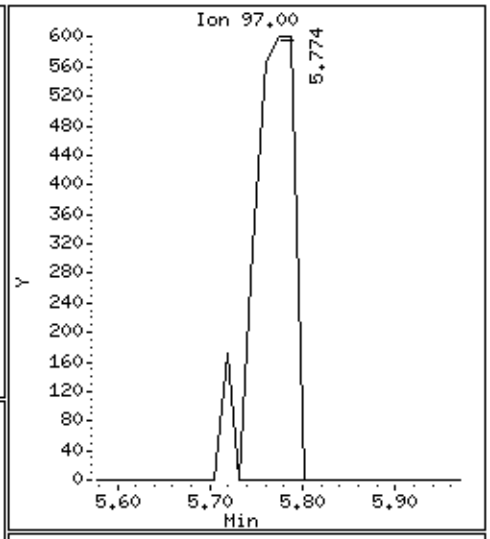
Column phase: RTX-624

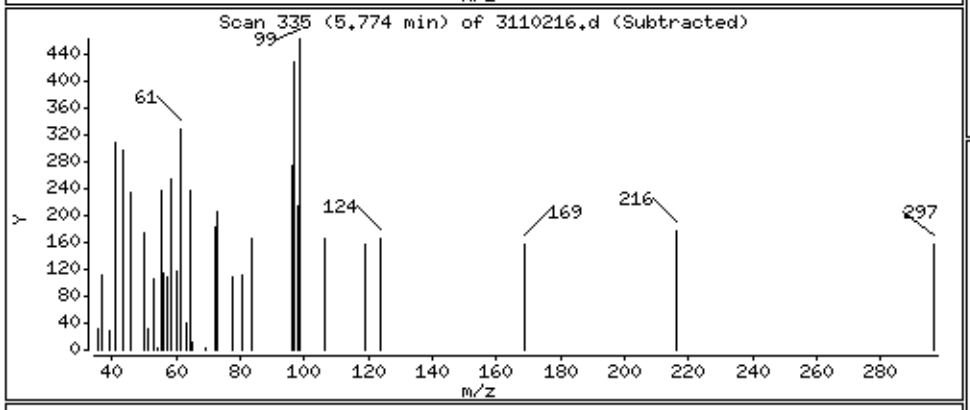
Column diameter: 0.25

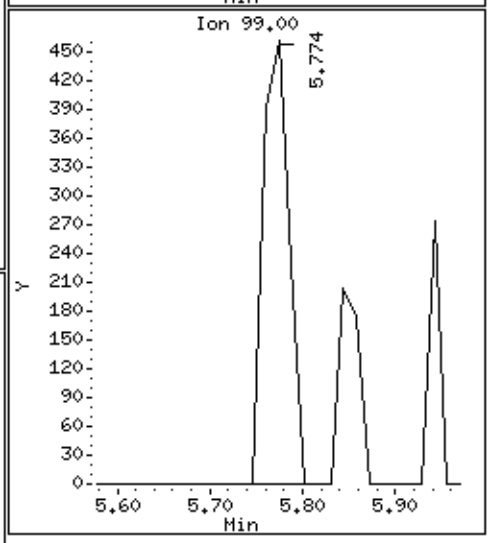
103 1,1,1-Trichloroethane

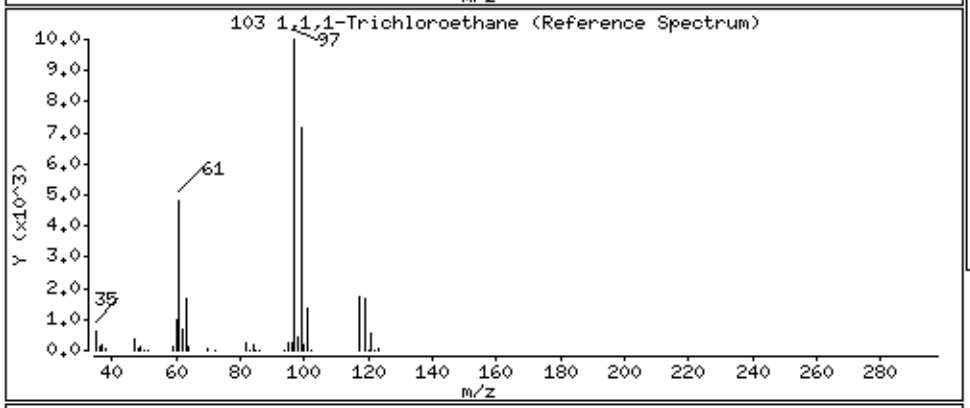
Concentration: 0.3143 PPBV

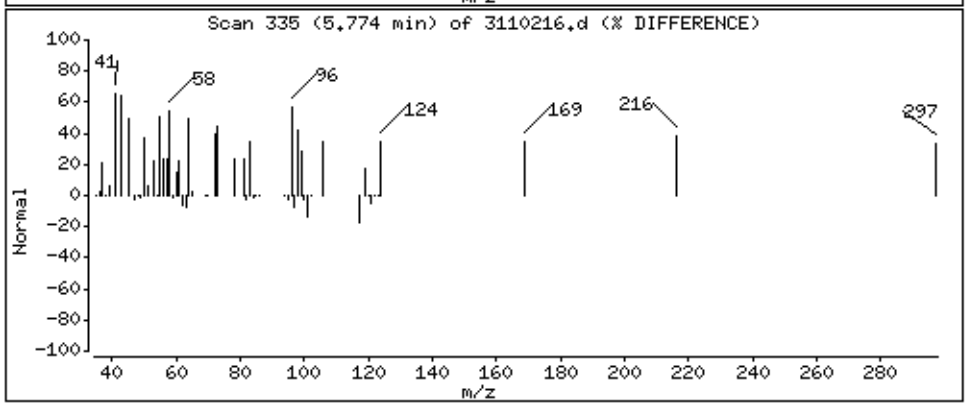












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

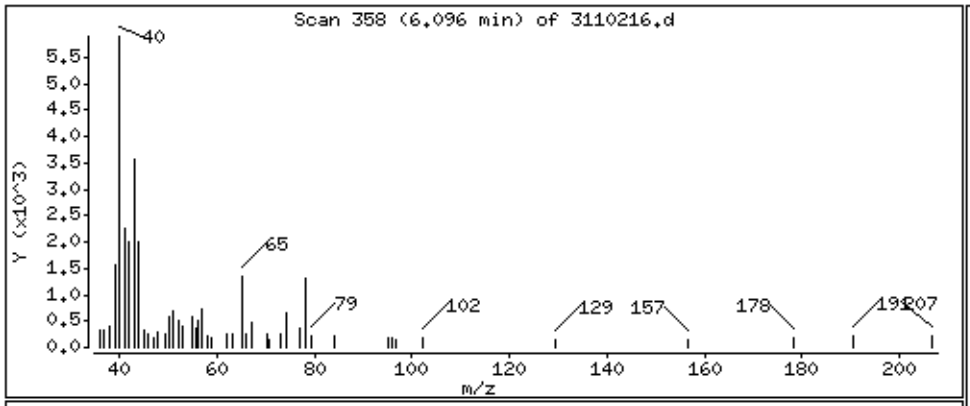
Operator: js

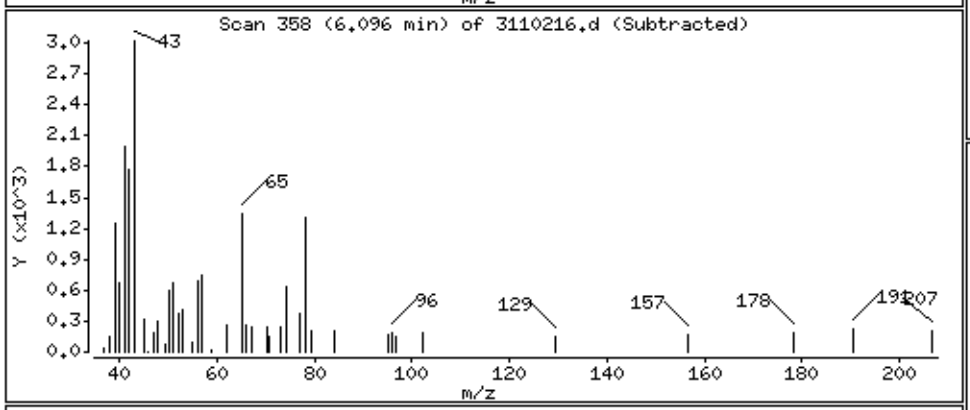
Column phase: RTX-624

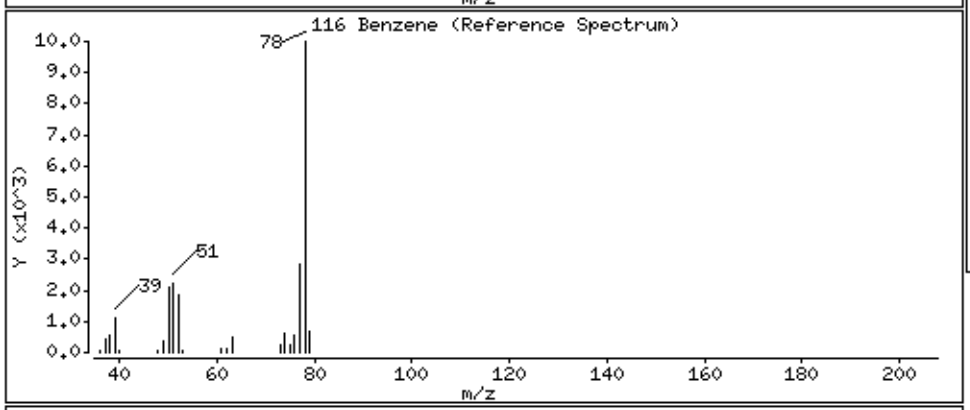
Column diameter: 0.25

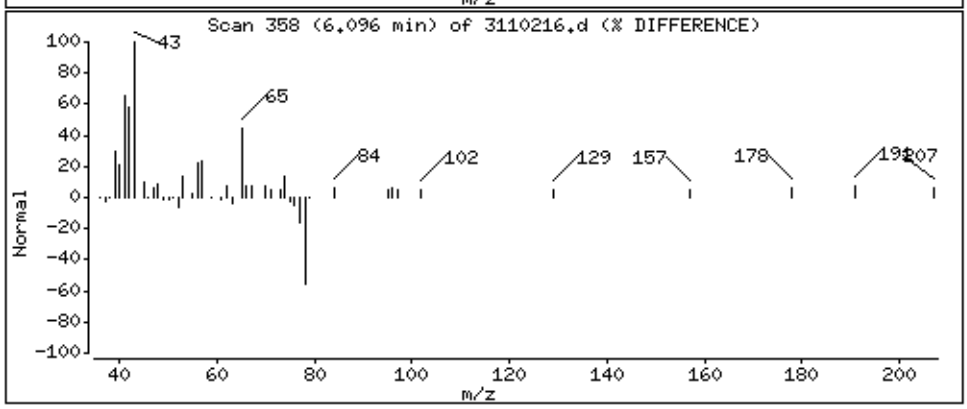
116 Benzene

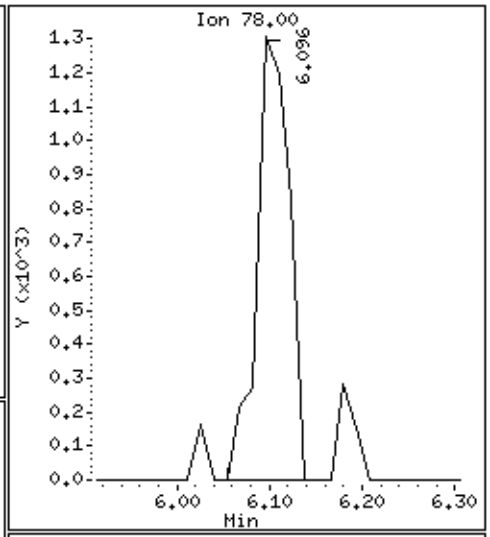
Concentration: 0.5732 PPBV

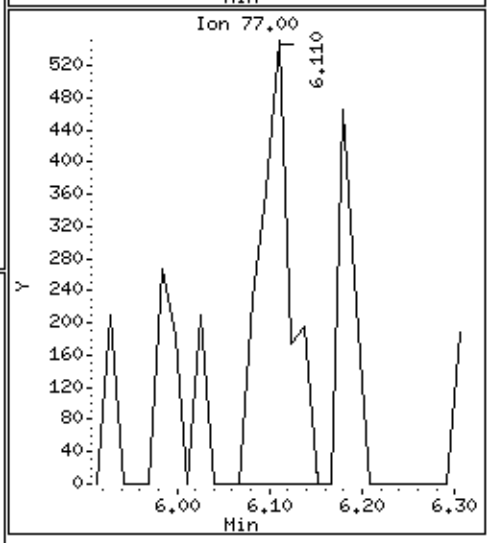












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

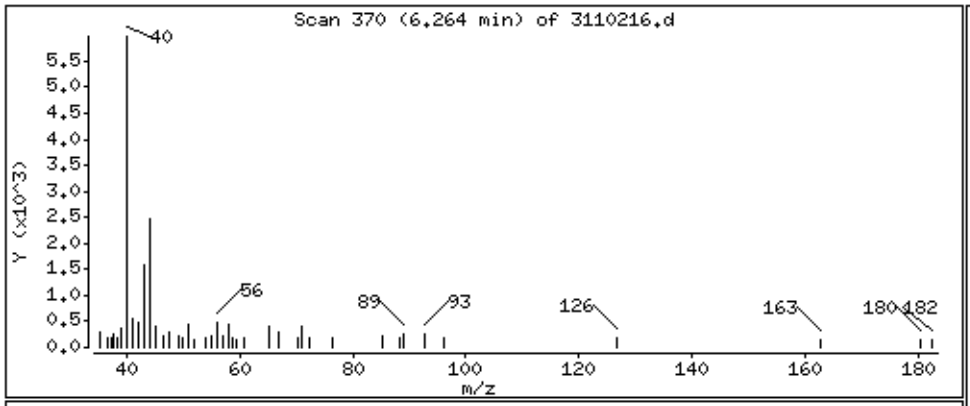
Operator: js

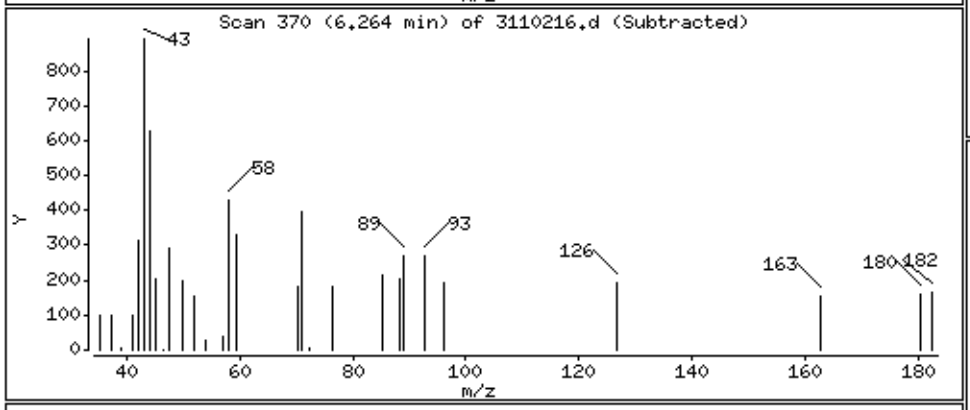
Column phase: RTX-624

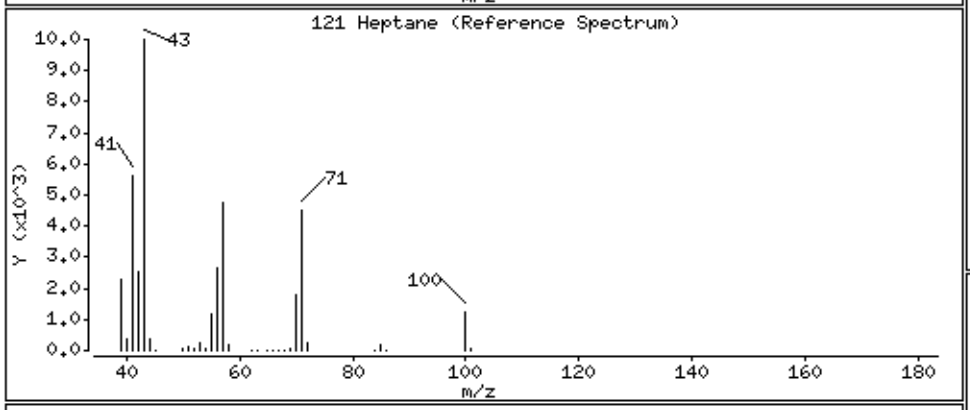
Column diameter: 0.25

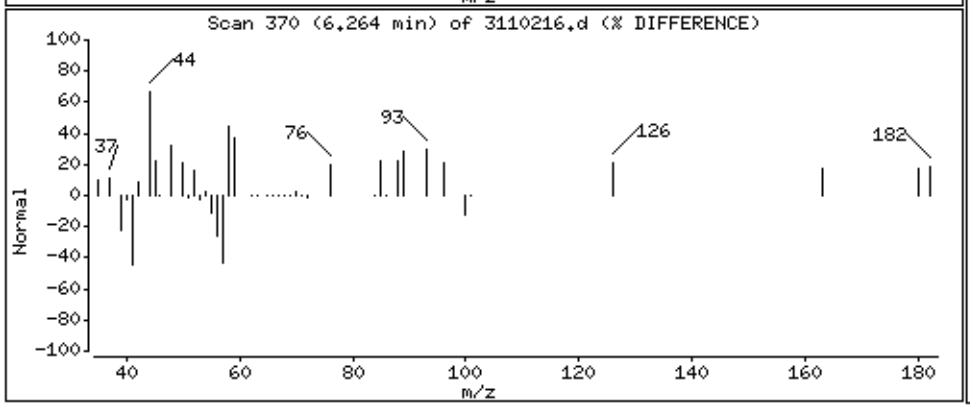
121 Heptane

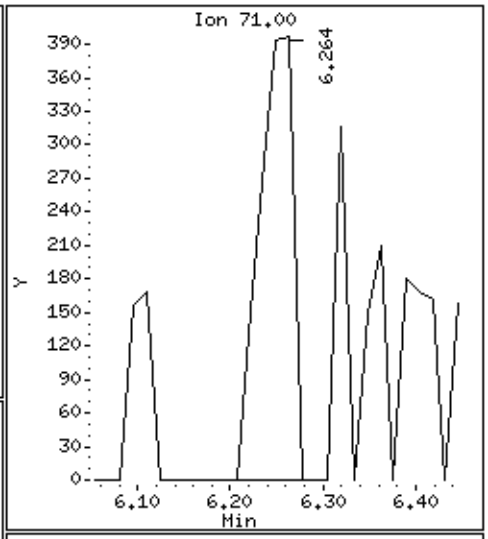
Concentration: 0.4788 PPBV

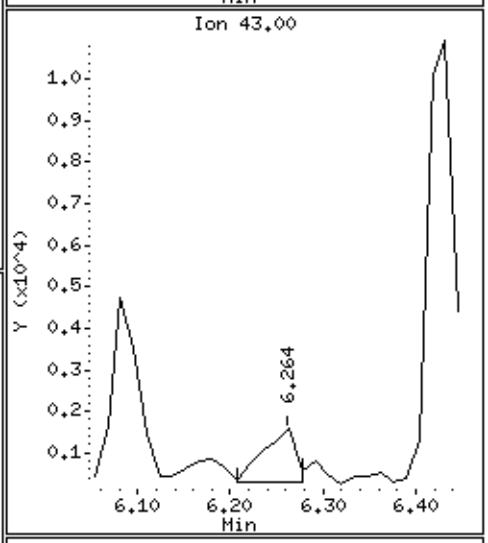


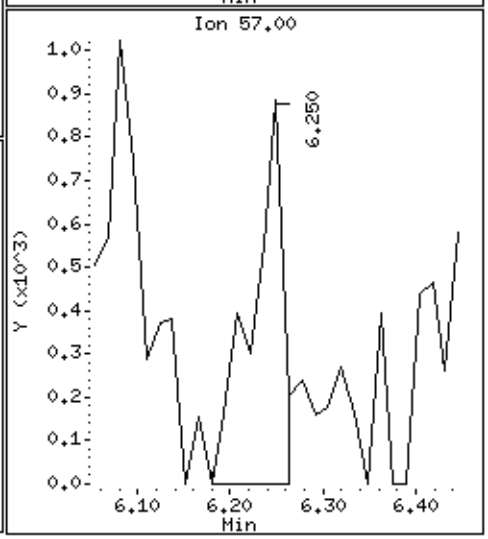












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

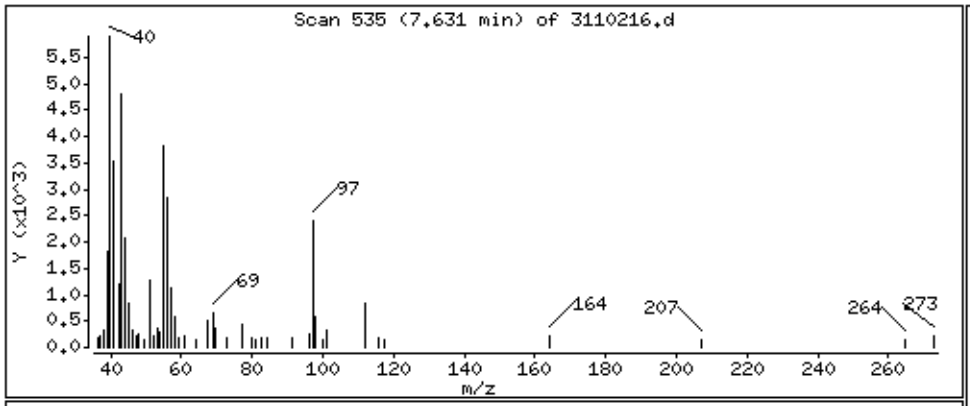
Operator: js

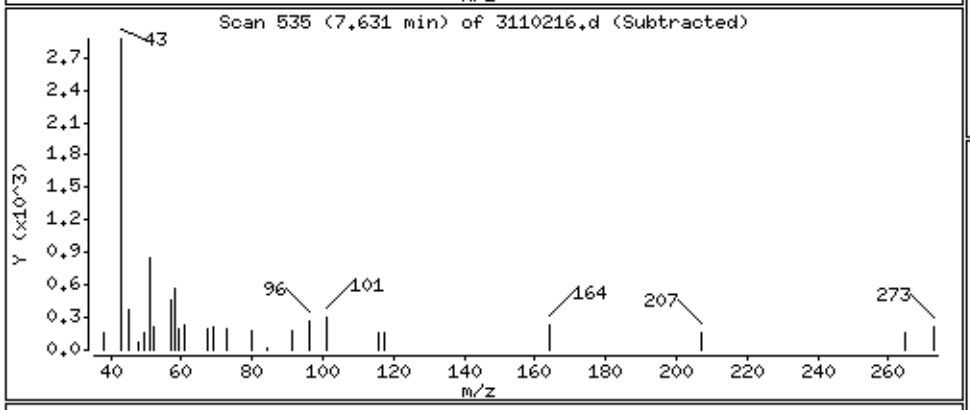
Column phase: RTX-624

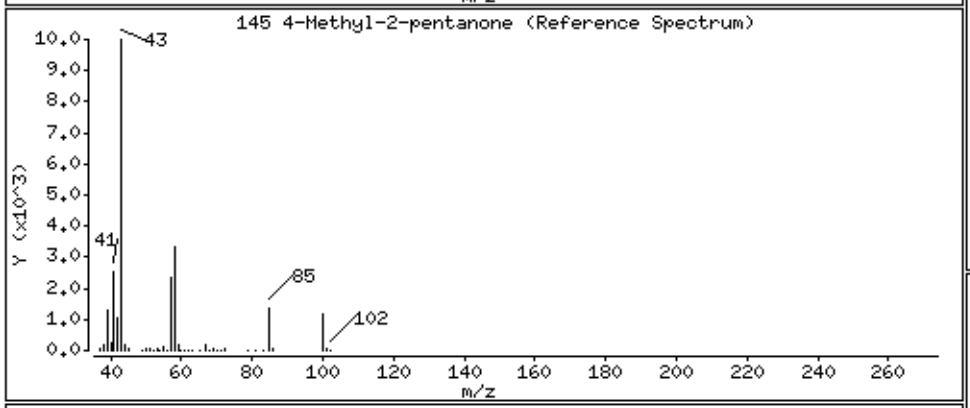
Column diameter: 0.25

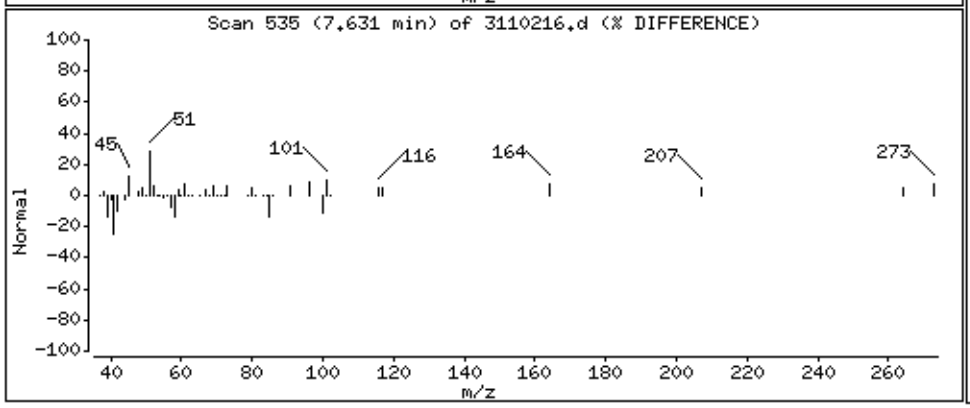
145 4-Methyl-2-pentanone

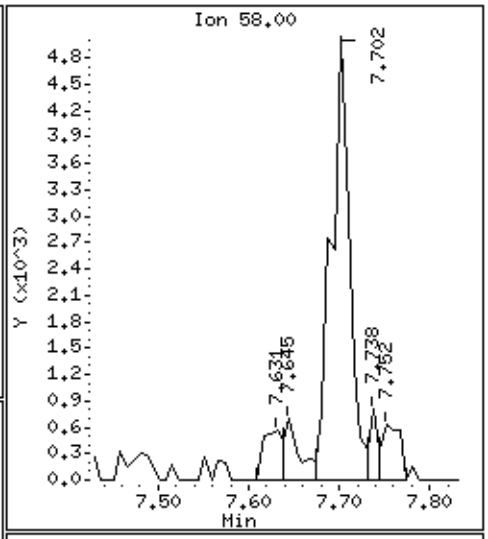
Concentration: 0.2681 PPBV

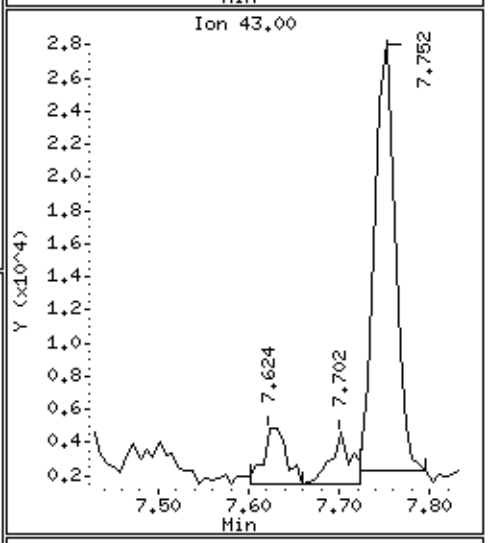


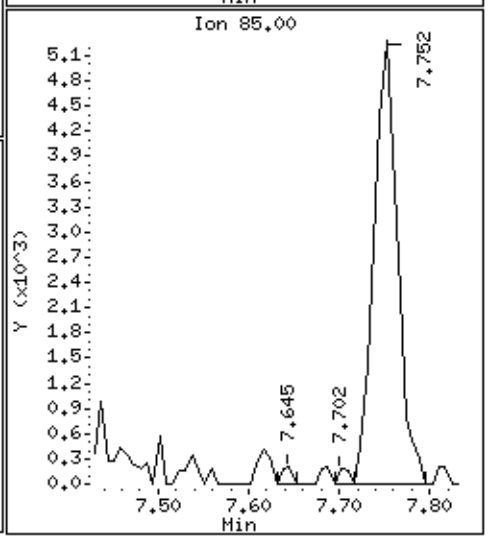












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

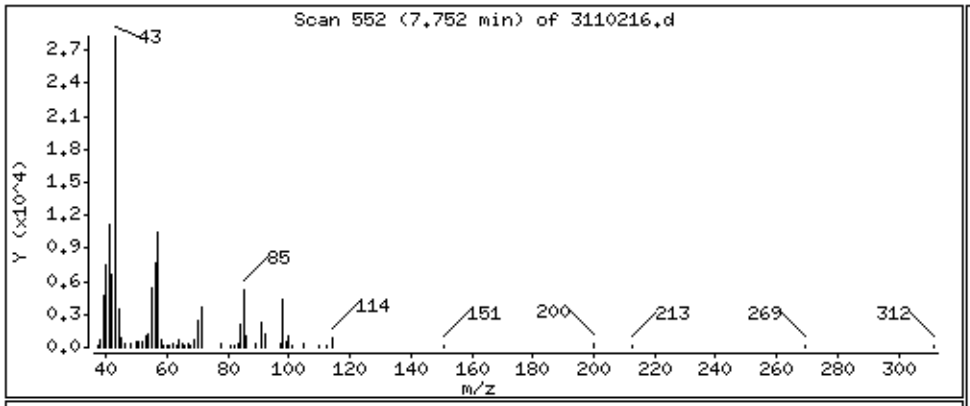
Operator: js

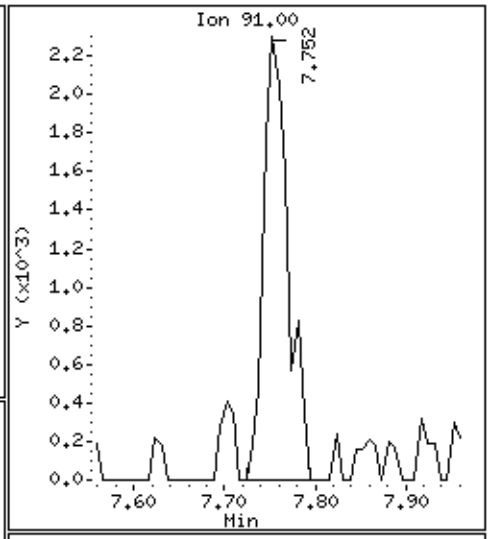
Column phase: RTX-624

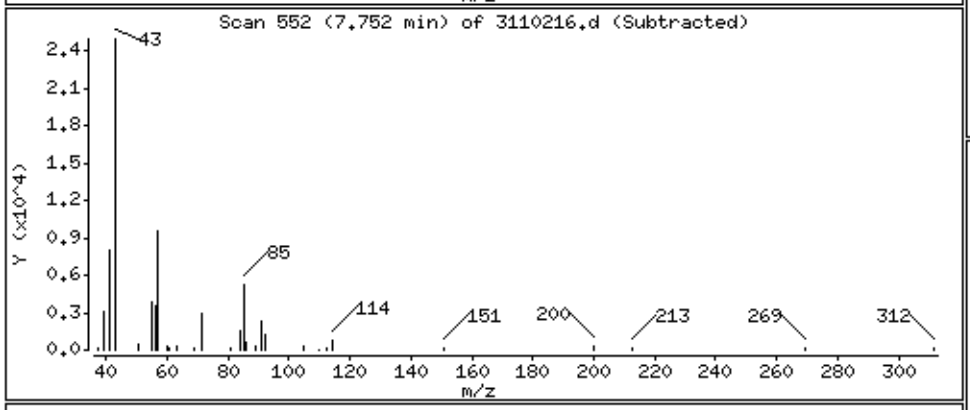
Column diameter: 0.25

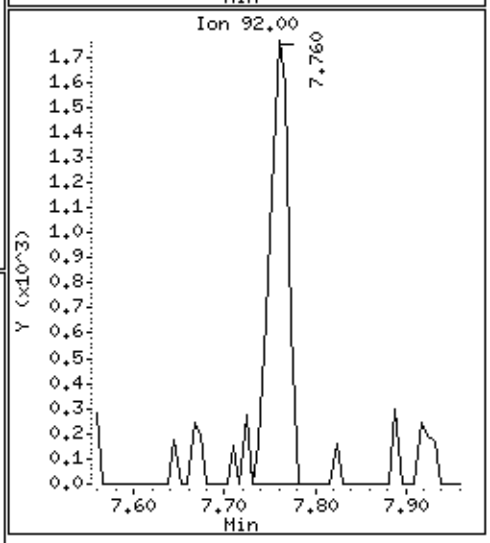
147 Toluene

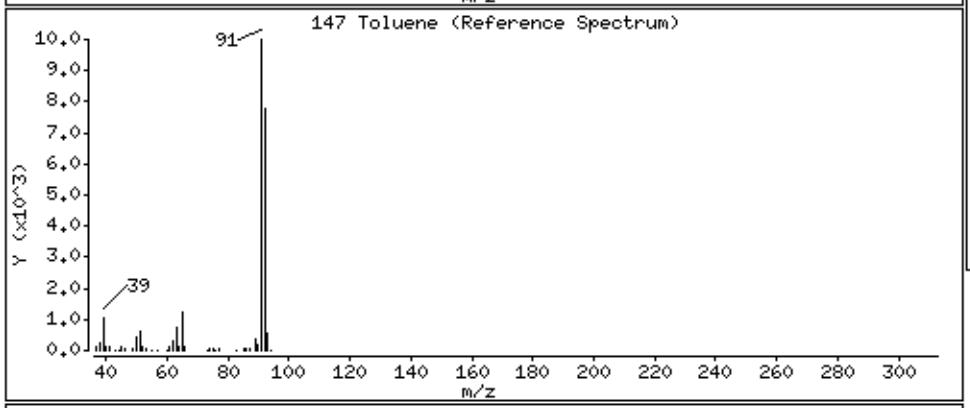
Concentration: 0.5609 PPBV

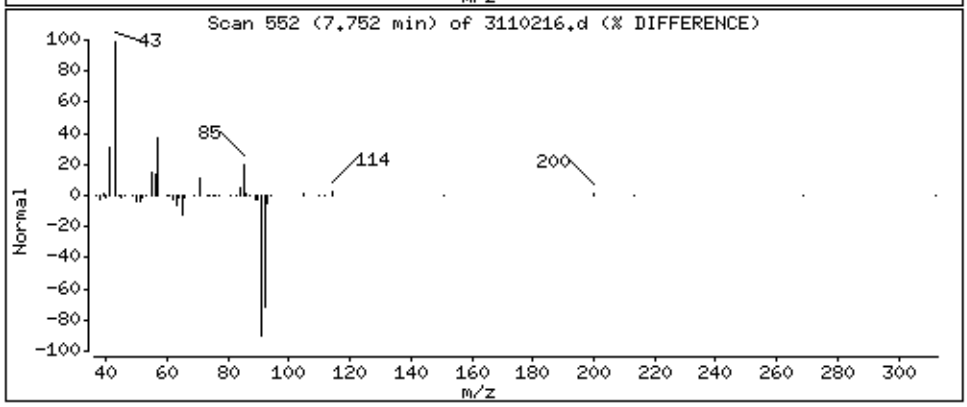












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

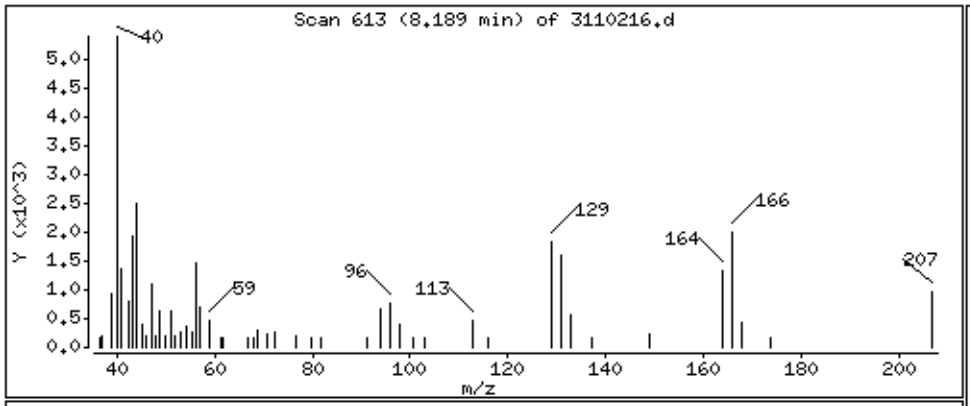
Operator: js

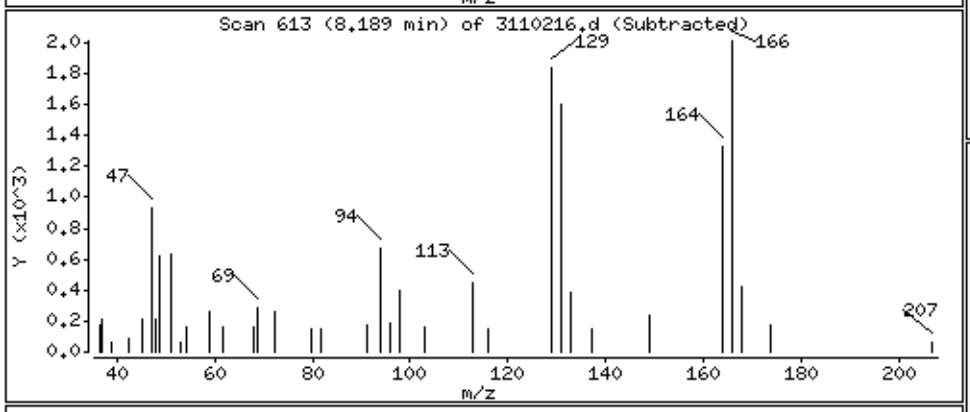
Column phase: RTX-624

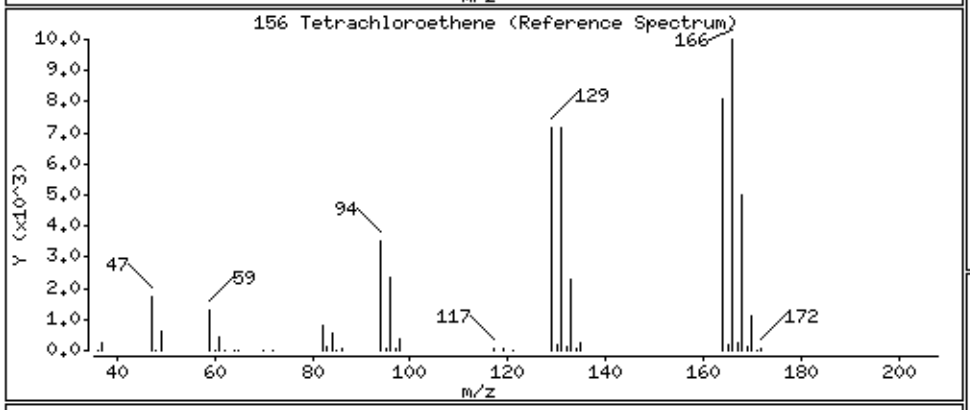
Column diameter: 0.25

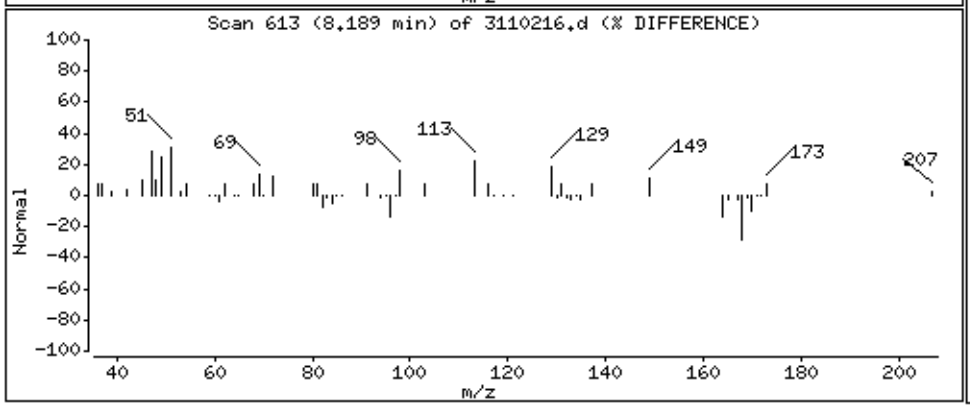
156 Tetrachloroethene

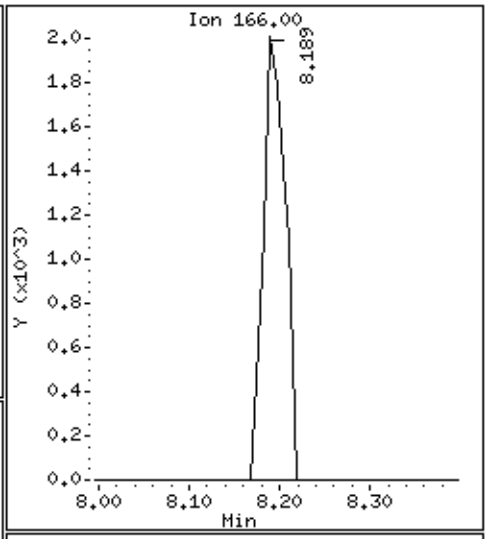
Concentration: 0.7850 PPBV

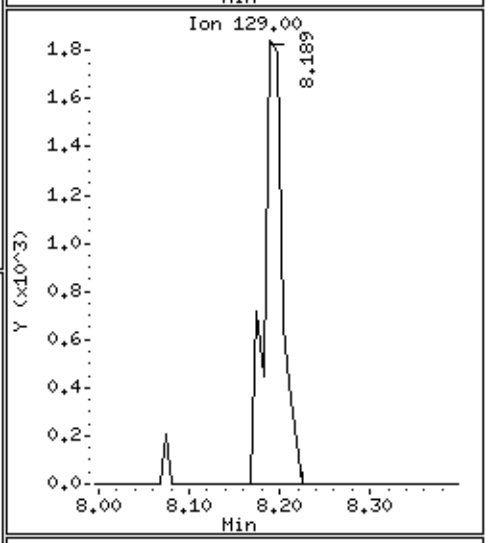


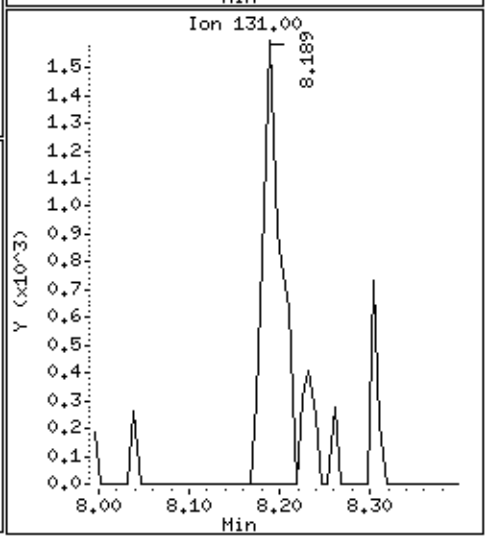












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

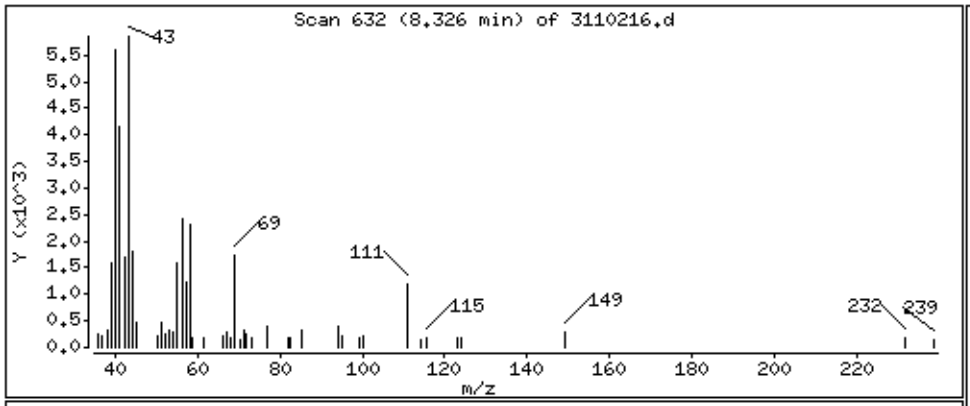
Operator: js

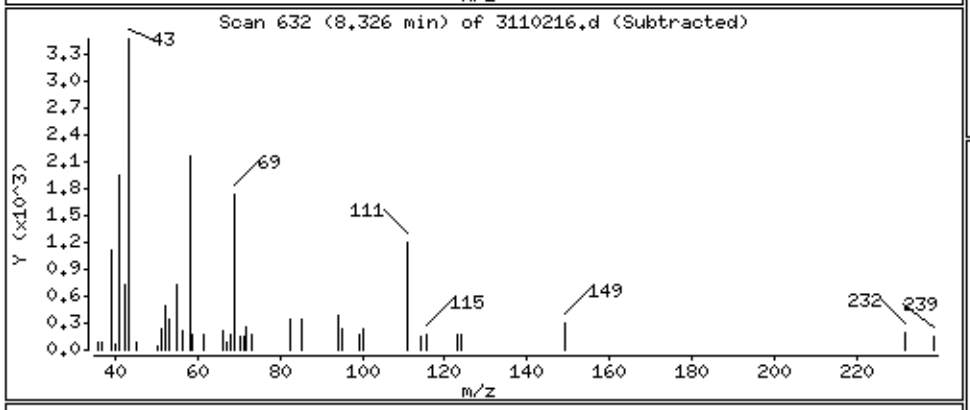
Column phase: RTX-624

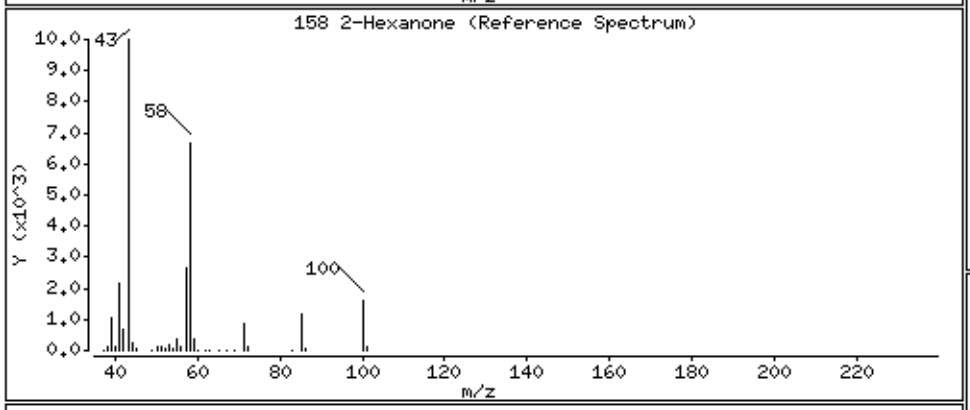
Column diameter: 0.25

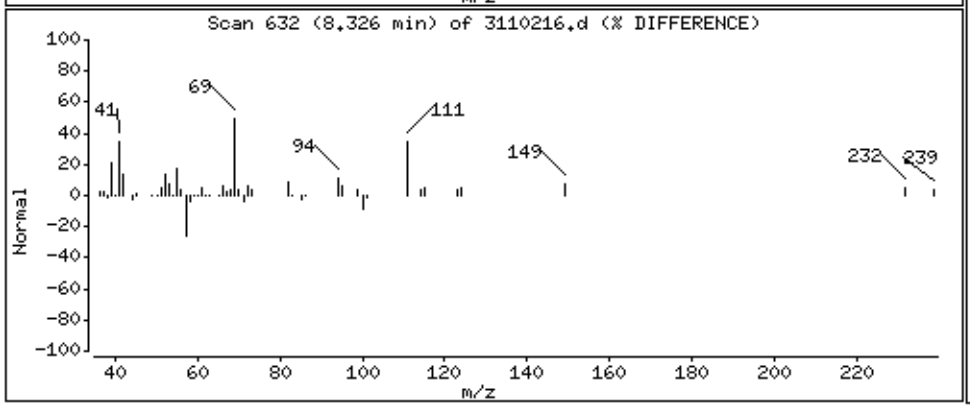
158 2-Hexanone

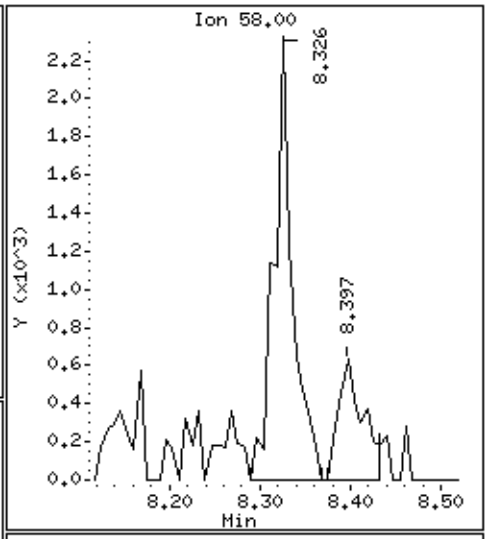
Concentration: 0.7068 PPBV

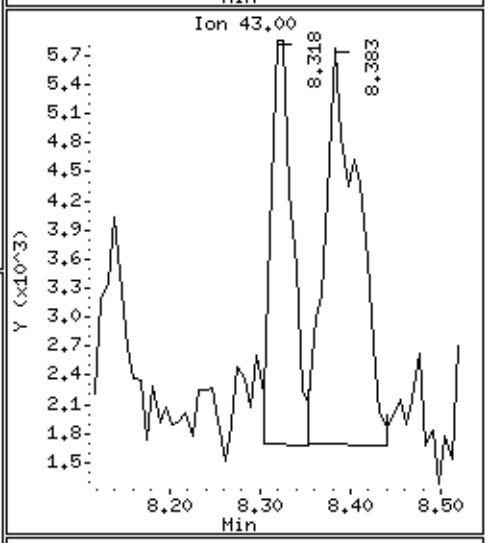


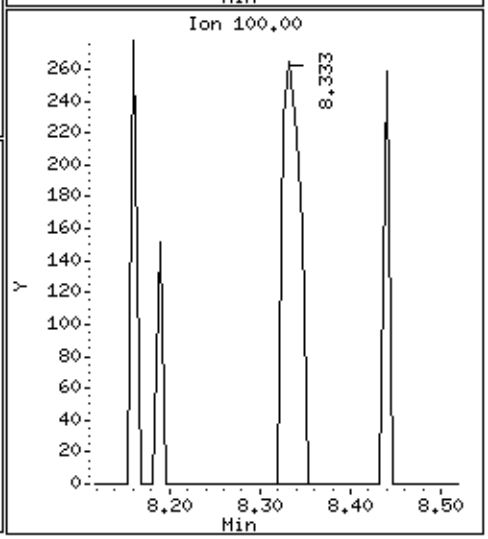












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

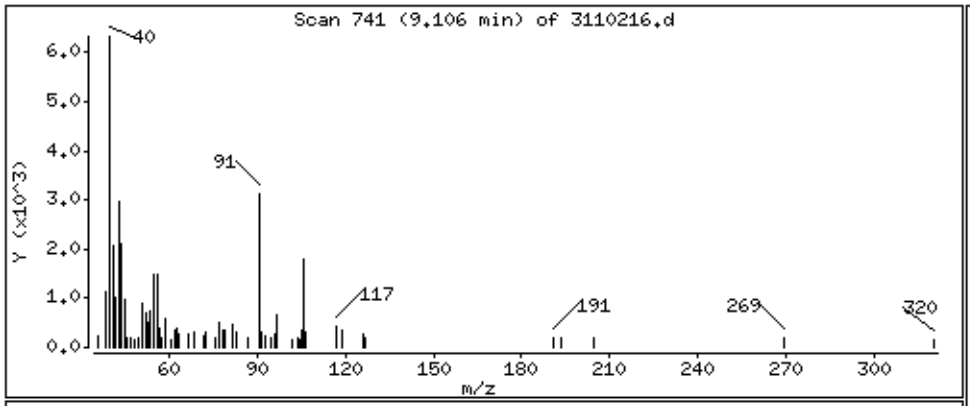
Operator: js

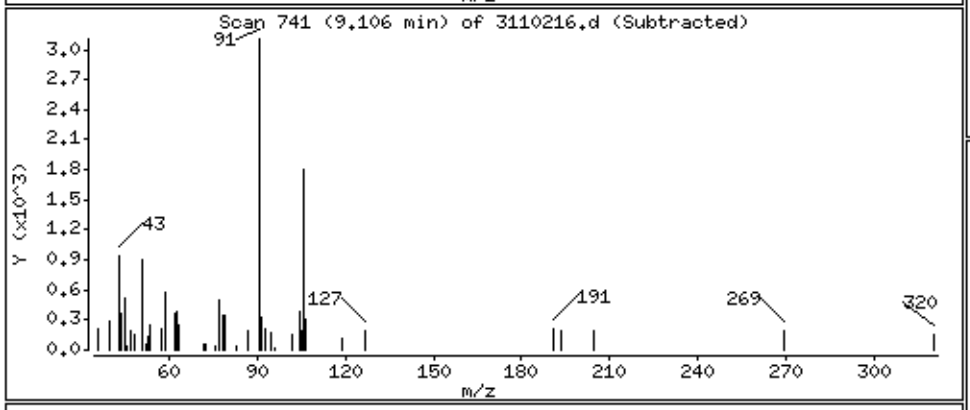
Column phase: RTX-624

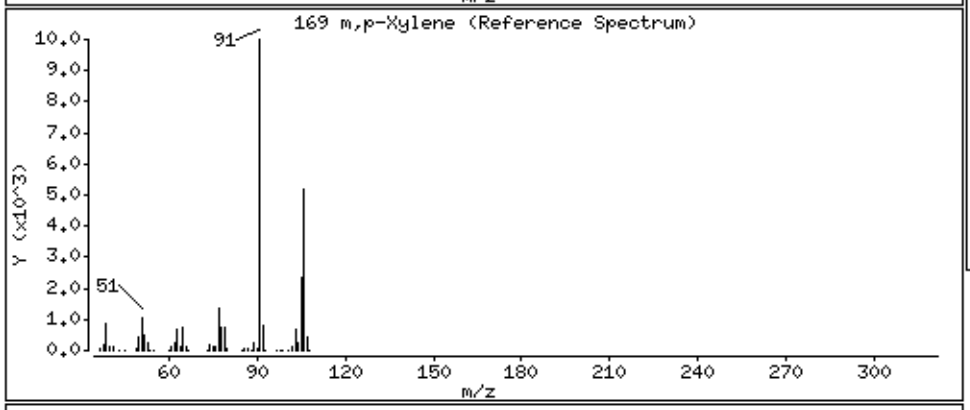
Column diameter: 0.25

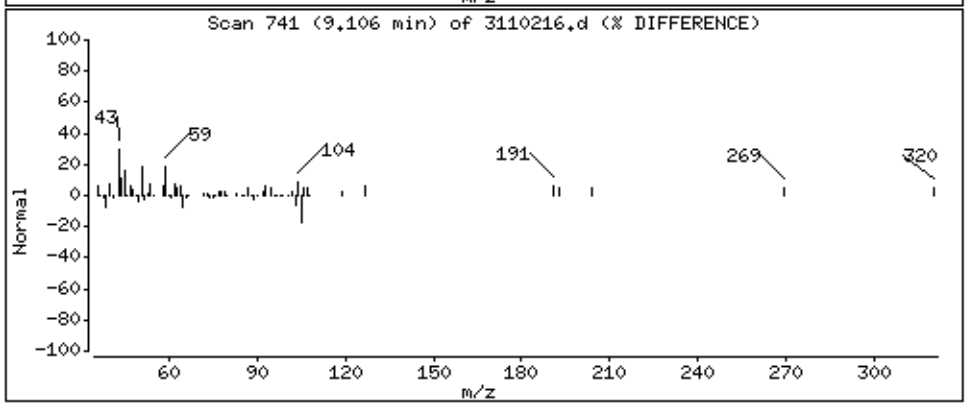
169 m,p-Xylene

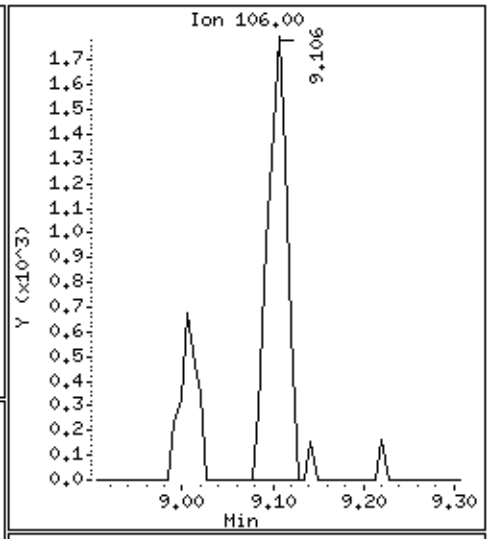
Concentration: 0.5635 PPBV

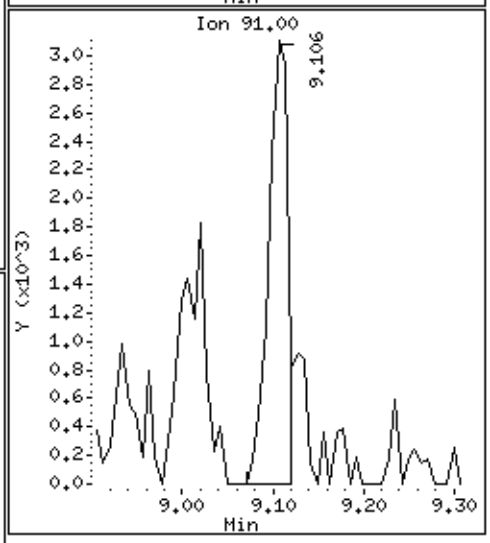












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

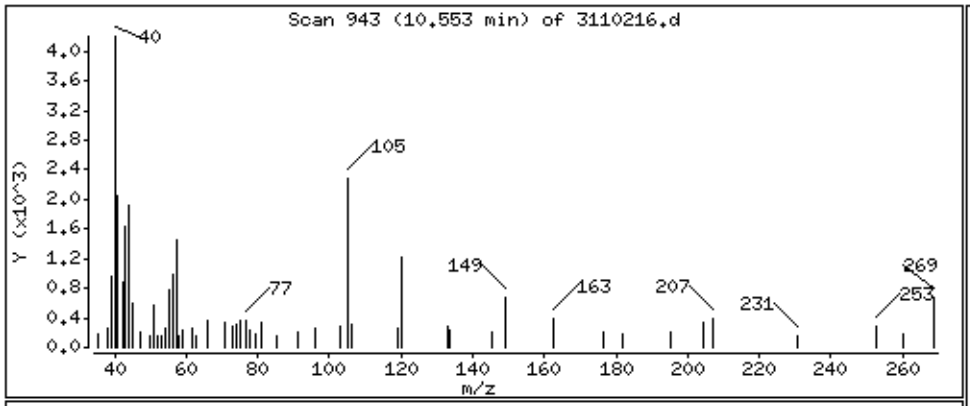
Operator: js

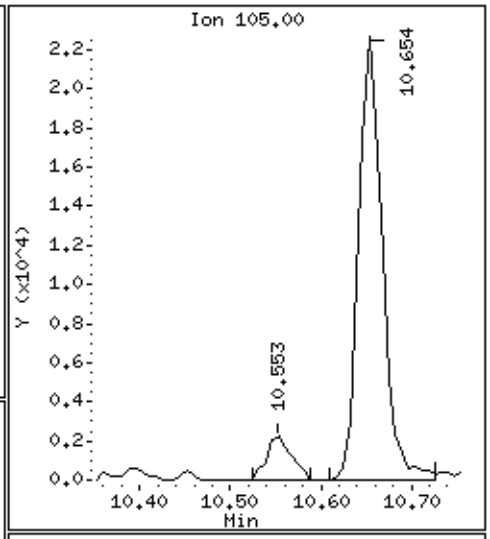
Column phase: RTX-624

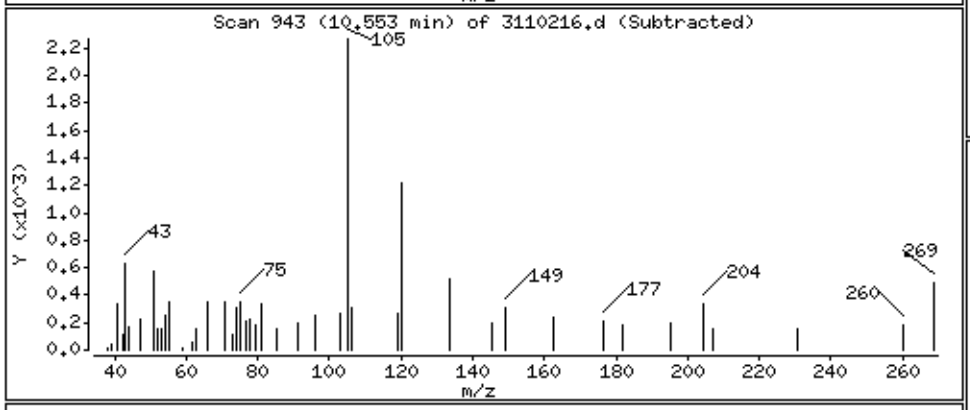
Column diameter: 0.25

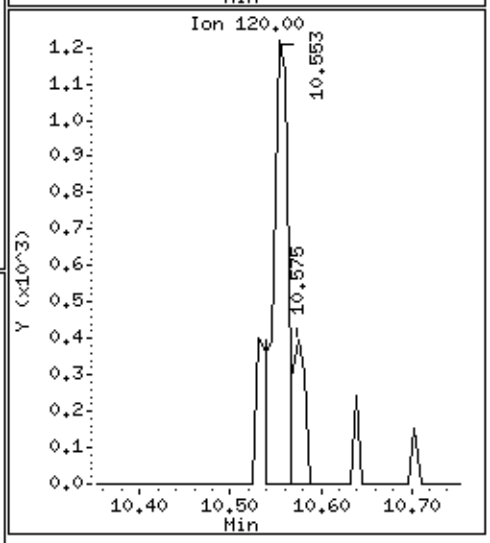
196 1,2,4-Trimethylbenzene

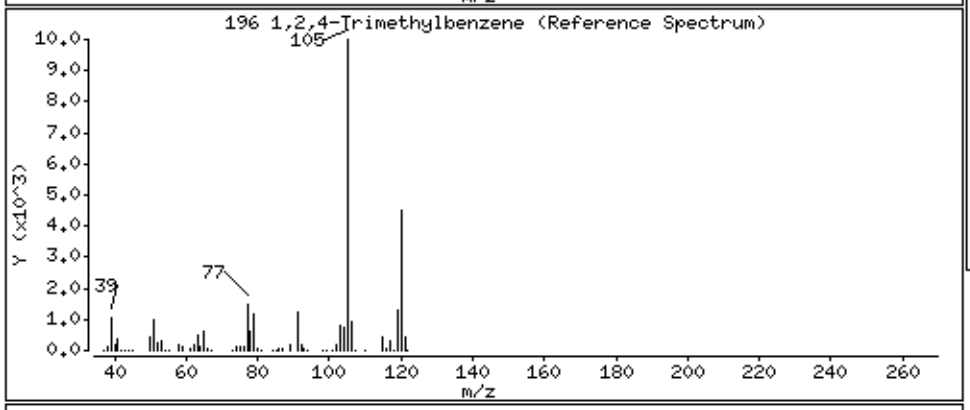
Concentration: 0.3349 PPBV

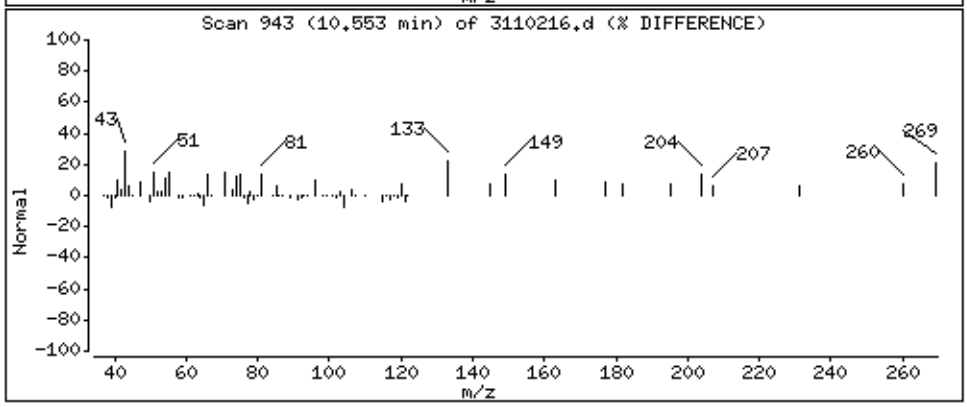












Data File: /chem/msd3.i/02nov15.b/3110216.d

Date : 02-NOV-2015 19:51

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37686

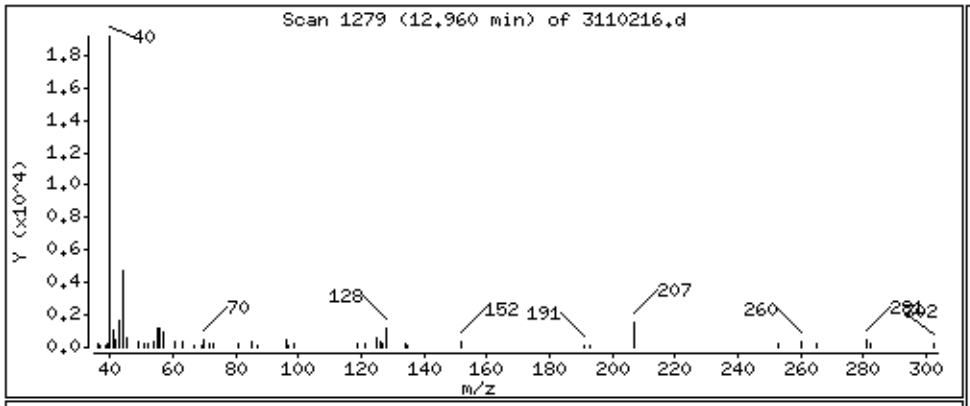
Operator: js

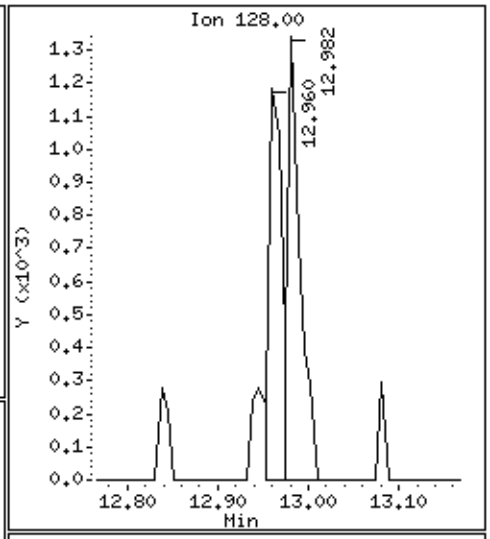
Column phase: RTX-624

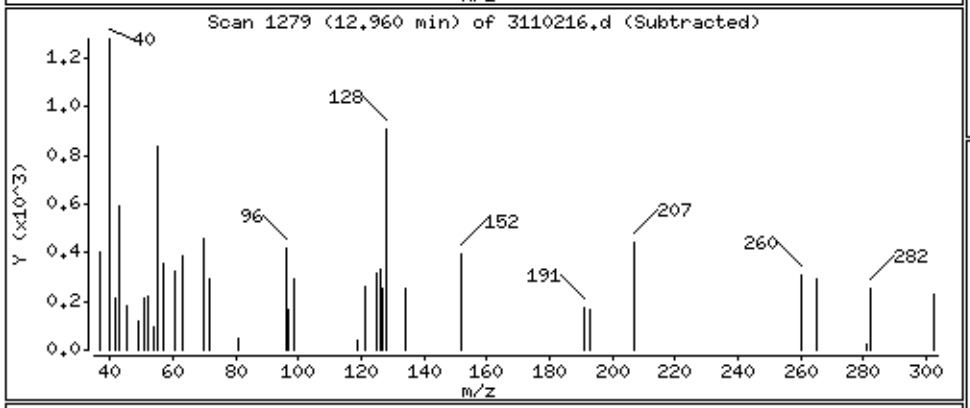
Column diameter: 0.25

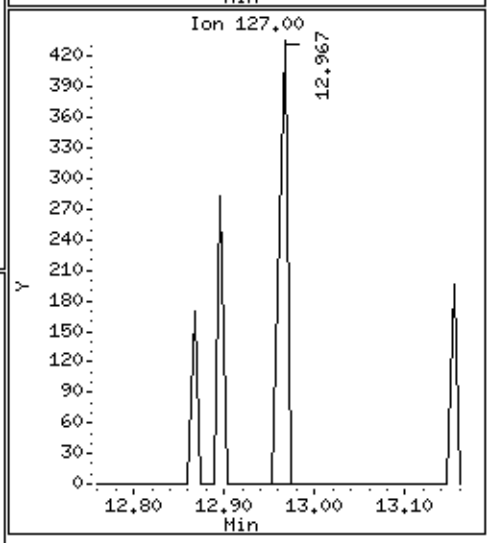
228 Naphthalene

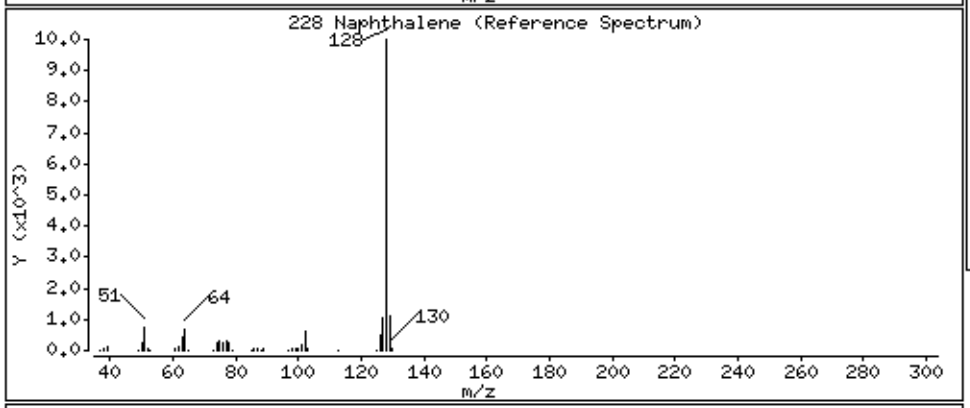
Concentration: 0.06929 PPBV

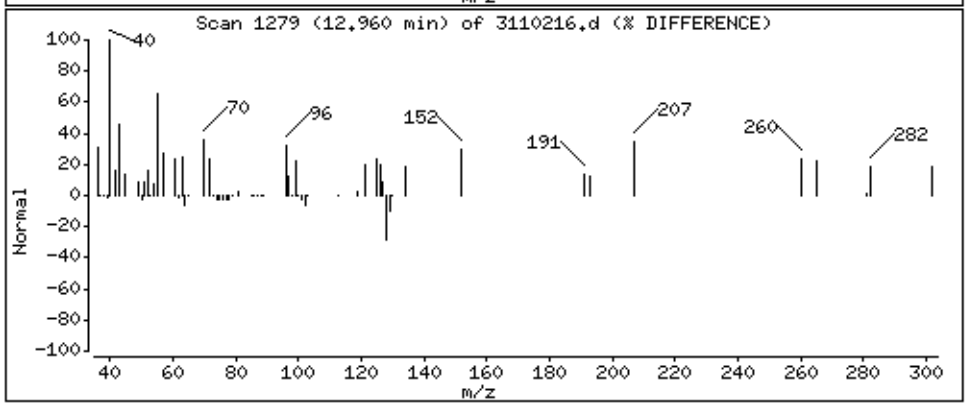












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B30SSV-4D102715

Lab ID#: 1510593-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.90 J	6.0	4.4 J
Chloromethane	12	1.2 J	25	2.6 J
Freon 11	1.2	0.50 J	6.8	2.8 J
Ethanol	4.8	35	9.1	65
Acetone	12	21	29	49
2-Propanol	4.8	120	12	300
Carbon Disulfide	4.8	0.54 J	15	1.7 J
Methylene Chloride	12	1.3 J	42	4.5 J
2-Butanone (Methyl Ethyl Ketone)	4.8	3.0 J	14	8.8 J
Tetrahydrofuran	1.2	0.28 J	3.6	0.83 J
4-Methyl-2-pentanone	1.2	0.55 J	5.0	2.2 J
Toluene	1.2	0.44 J	4.6	1.6 J
Tetrachloroethene	1.2	0.45 J	8.2	3.1 J
2-Hexanone	4.8	0.49 J	20	2.0 J
Naphthalene	2.4	0.058 J	13	0.30 J

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Client Sample ID: B30SSV-4D102715

Lab ID#: 1510593-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110217**	**Date of Collection:**	**10/27/15 4:35:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**11/2/15 08:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.90 J	6.0	4.4 J
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	1.2 J	25	2.6 J
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	0.50 J	6.8	2.8 J
Ethanol	4.8	35	9.1	65
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	12	21	29	49
2-Propanol	4.8	120	12	300
Carbon Disulfide	4.8	0.54 J	15	1.7 J
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	12	1.3 J	42	4.5 J
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	3.0 J	14	8.8 J
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	0.28 J	3.6	0.83 J
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	0.55 J	5.0	2.2 J
Toluene	1.2	0.44 J	4.6	1.6 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	0.45 J	8.2	3.1 J
2-Hexanone	4.8	0.49 J	20	2.0 J

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Client Sample ID: B30SSV-4D102715

Lab ID#: 1510593-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110217**	**Date of Collection:**	**10/27/15 4:35:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**11/2/15 08:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Naphthalene	2.4	0.058 J	13	0.30 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	96	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110217.d
Lab Smp Id: 1510593-05A
Inj Date : 02-NOV-2015 20:18
Operator : js Inst ID: msd3.i
Smp Info : 200ml 33718
Misc Info : 5.1 Hg->14.8 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 2
Dil Factor: 2.42000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.42000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	103110	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	81086			42.88- 102.88	78.64
5.592	5.592 (1.000)	49	280577			207.65- 267.65	272.11
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.487	6.488 (1.000)	114	466744	25.0000		80.00- 120.00	100.00
6.487	6.474 (1.000)	88	74736			0.00- 45.78	16.01
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.941	8.942 (1.000)	117	471189	25.0000		80.00- 120.00	100.00
8.941	8.934 (1.000)	82	279655			26.67- 86.67	59.35
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	251931	27.9672	27.967	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	111512			22.68- 82.68	44.26

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	526760	26.2900	26.290	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	63033			0.00- 41.75	11.97
7.702	7.702 (1.187)	100	332356			34.13- 94.13	63.09
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.923 (1.111)	174	280367	24.0909	24.091	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	379661			96.73- 156.73	135.42
9.923	9.923 (1.110)	176	268553			65.47- 125.47	95.79
11 Freon 12					CAS #: 75-71-8		
1.604	1.605 (0.287)	85	4005	0.37175	0.8996	80.00- 120.00	100.00(a)
1.604	1.605 (0.287)	87	1656			2.62- 62.62	41.35
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	2348	0.51306	1.242	80.00- 120.00	100.00(a)
1.814	1.814 (0.324)	52	645			2.33- 62.33	27.49
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	2757	0.20517	0.4965	80.00- 120.00	100.00(a)
2.710	2.710 (0.485)	103	2068			33.61- 93.61	75.01
42 Ethanol					CAS #: 64-17-5		
3.073	3.074 (0.550)	45	38254	14.3361	34.693	80.00- 120.00	100.00
3.073	3.074 (0.550)	43	7443			0.00- 51.11	19.46
3.087	3.060 (0.552)	46	15062			10.70- 70.70	39.38
52 Acetone					CAS #: 67-64-1		
3.563	3.549 (0.637)	58	24180	8.52097	20.621	80.00- 120.00	100.00
3.563	3.549 (0.637)	43	94194			351.83- 411.83	389.54
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	2309	0.22182	0.5368	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.731	3.717 (0.667)	45	604783	50.3813	121.92	80.00- 120.00	100.00
3.731	3.717 (0.667)	43	114268			0.00- 48.10	18.89
3.717	3.717 (0.665)	59	18066			0.00- 33.34	2.99
66 Methylene Chloride					CAS #: 75-09-2		
4.067	4.053 (0.727)	49	4564	0.53448	1.293	80.00- 120.00	100.00(a)
4.067	4.053 (0.727)	84	1134			9.02- 69.02	24.86
4.039	4.053 (0.722)	51	1736			0.00- 59.58	38.04
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	2420	1.23548	2.990	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.382 (0.965)	43	16648			717.19- 777.19	687.87
5.396	5.396 (0.965)	57	2094			21.09- 81.09	86.54
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	1014	0.11699	0.2831	80.00- 120.00	100.00(a)
5.606	5.592 (1.002)	71	196			0.00- 49.93	19.36
5.606	5.592 (1.002)	72	724			0.00- 50.49	71.38
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.645	7.631 (1.178)	58	1699	0.22574	0.5463	80.00- 120.00	100.00(a)
7.638	7.631 (1.177)	43	4031			274.73- 334.73	237.20
7.652	7.631 (1.180)	85	204			0.00- 58.76	12.01
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	3254	0.18200	0.4404	80.00- 120.00	100.00(a)
7.752	7.760 (1.195)	92	2479			27.05- 87.05	76.20
156 Tetrachloroethene					CAS #: 127-18-4		
8.189	8.197 (0.916)	166	1717	0.18678	0.4520	80.00- 120.00	100.00(a)
8.196	8.197 (0.917)	129	1730			47.11- 107.11	100.78
8.189	8.197 (0.916)	131	884			43.50- 103.50	51.49
158 2-Hexanone					CAS #: 591-78-6		
8.325	8.318 (0.931)	58	2064	0.20281	0.4908	80.00- 120.00	100.00(a)
8.325	8.318 (0.931)	43	5868			189.79- 249.79	284.25
8.340	8.318 (0.933)	100	334			0.00- 43.05	16.19
228 Naphthalene					CAS #: 91-20-3		
12.981	12.967 (1.452)	128	913	0.02393	0.05792	80.00- 120.00	100.00(a)
12.967	12.960 (1.450)	127	259			0.00- 42.95	28.45

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110217.d
Lab Smp Id: 1510593-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 5.1 Hg->14.8 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	103110	-6.07
123 1,4-Difluorobenze	462095	277257	646933	466744	1.01
163 Chlorobenzene-d5	458379	275027	641731	471189	2.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 04-Nov-2015 08:23

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-05A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 5.1 Hg->14.8 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	27.967	111.87	70-130
$ 146 Toluene-d8	25.000	26.290	105.16	70-130
$ 177 4-Bromofluorobenze	25.000	24.091	96.36	70-130

Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

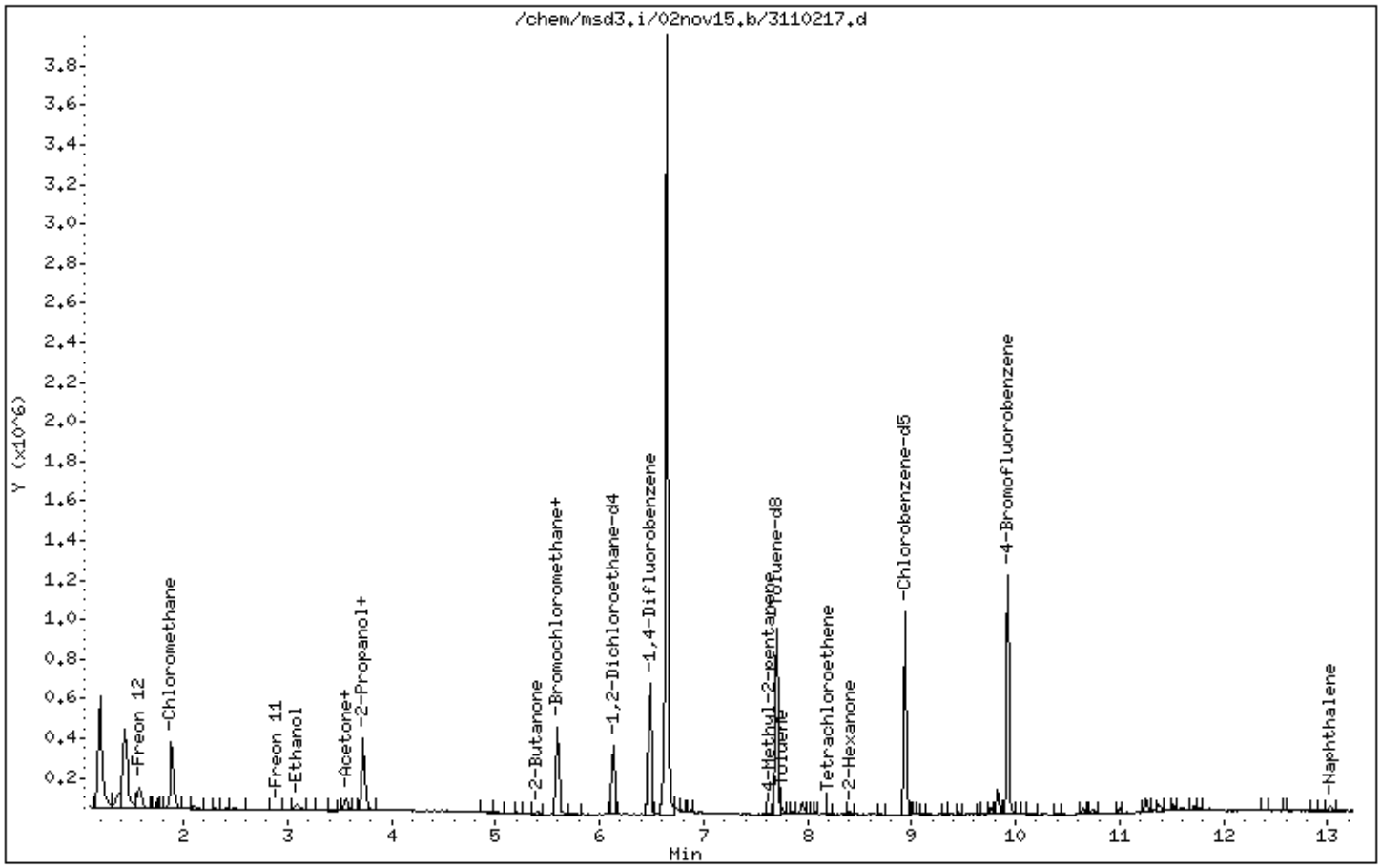
Instrument: msd3.i

Sample Info: 200ml 33718

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

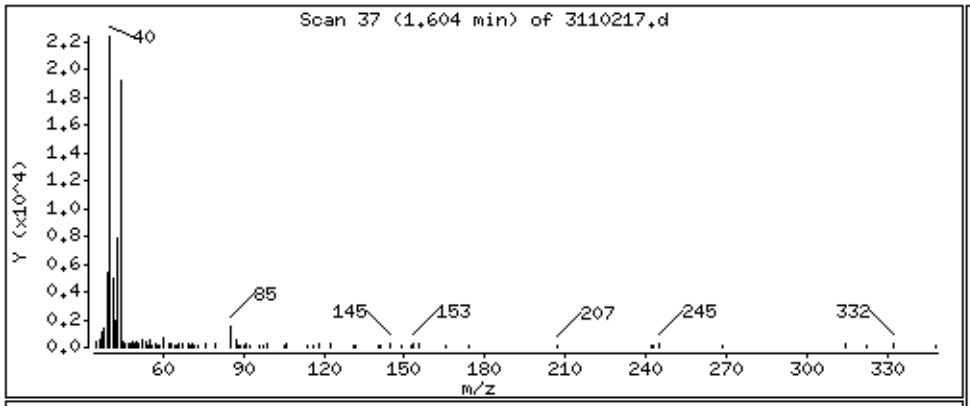
Operator: js

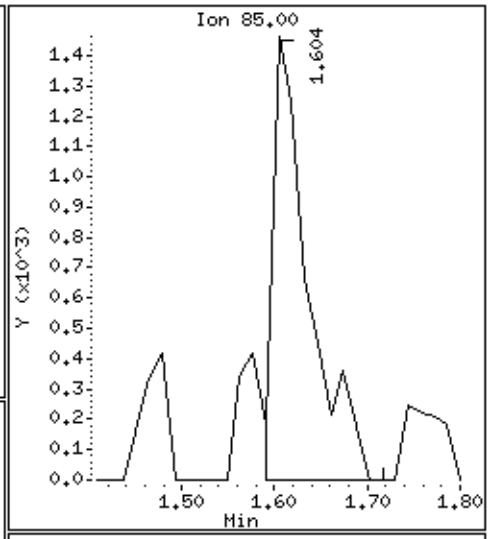
Column phase: RTX-624

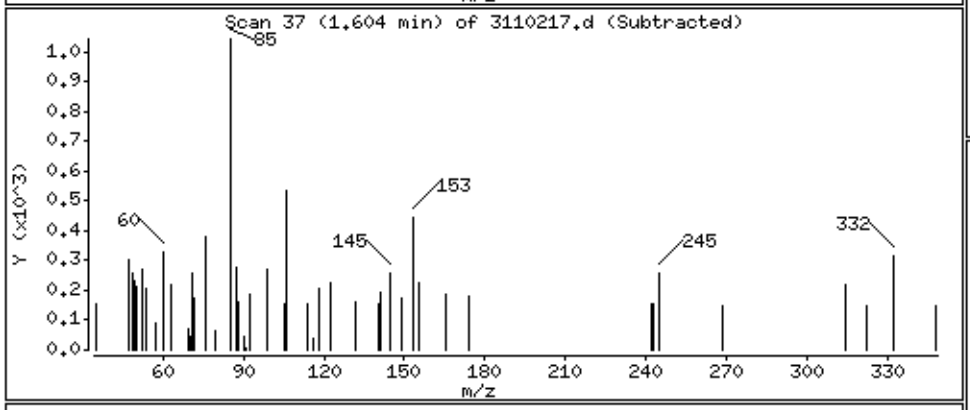
Column diameter: 0.25

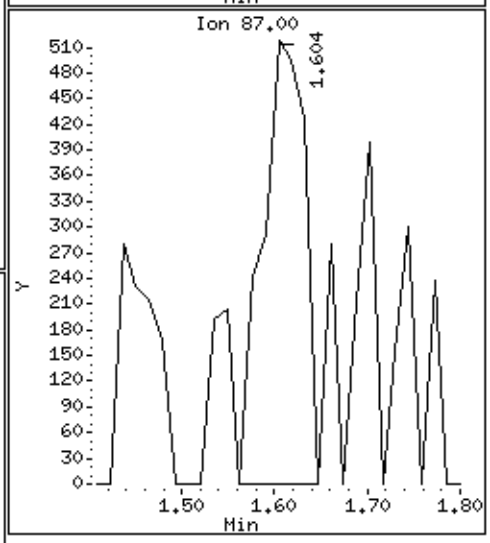
11 Freon 12

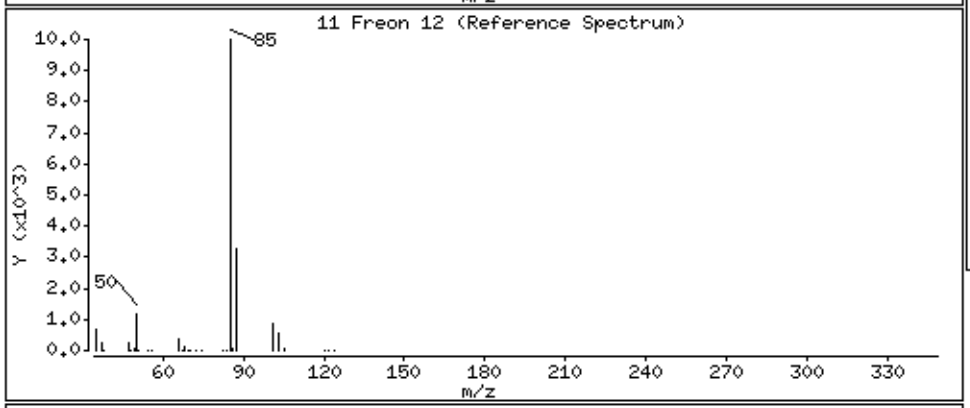
Concentration: 0.8996 PPBV

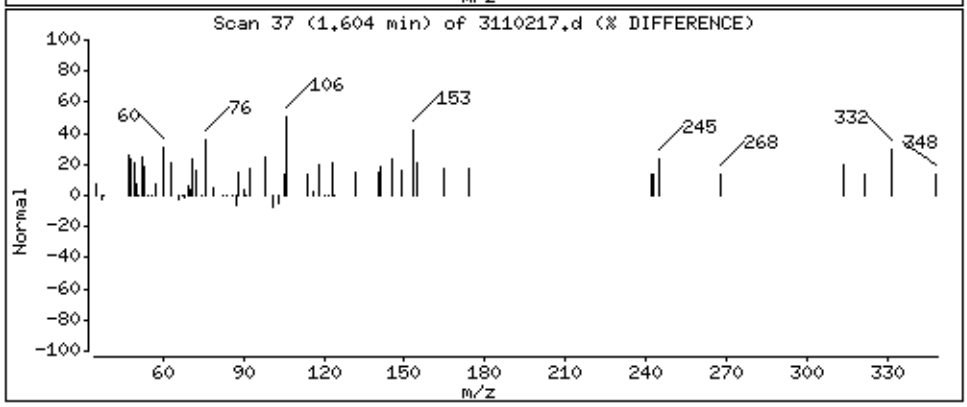












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

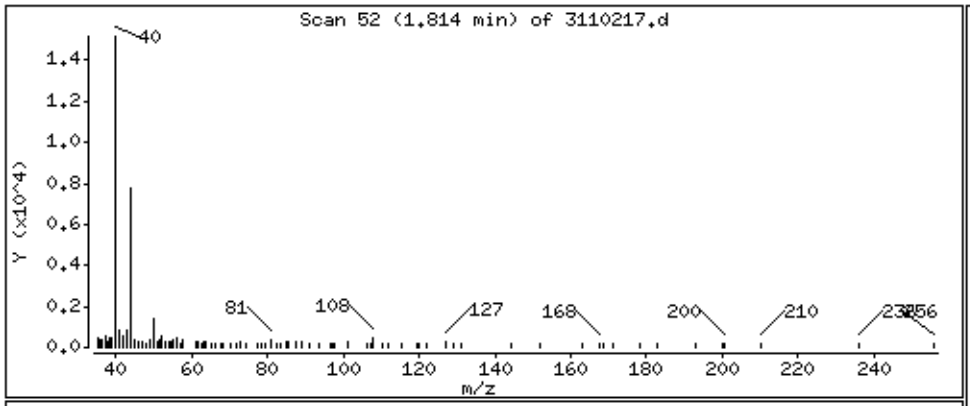
Operator: js

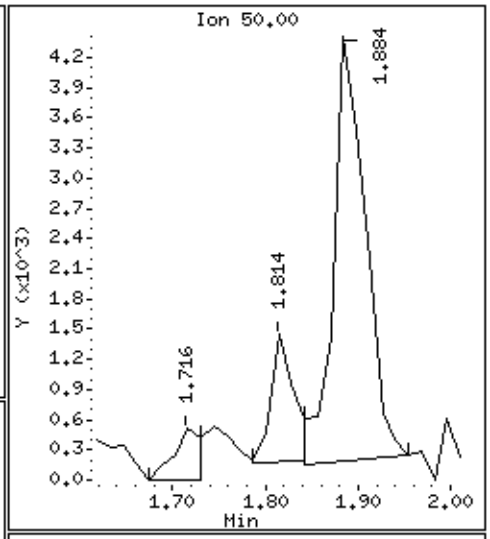
Column phase: RTX-624

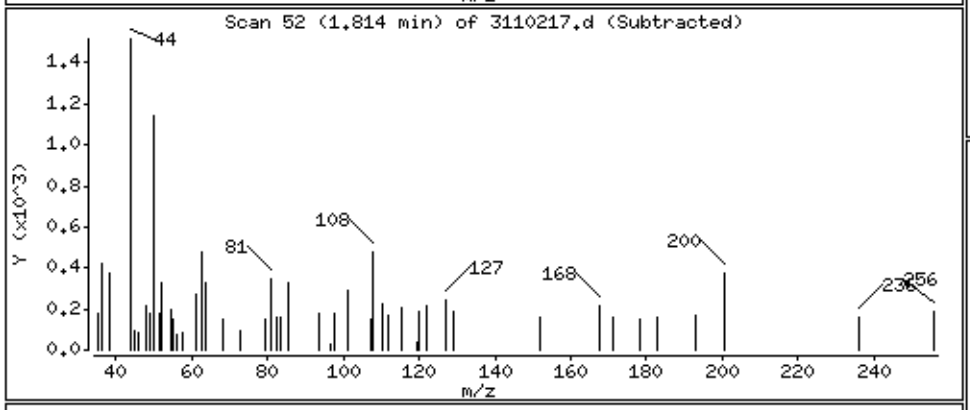
Column diameter: 0.25

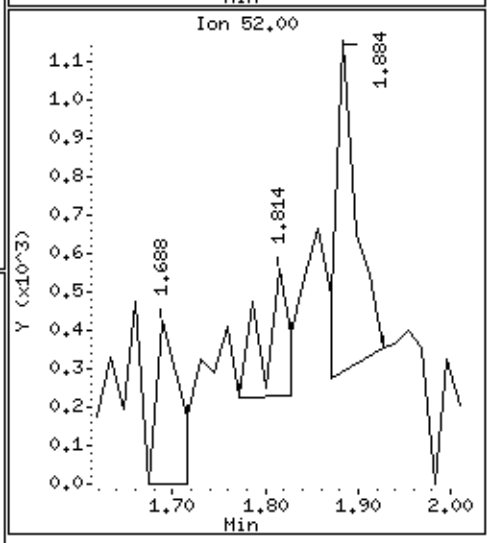
17 Chloromethane

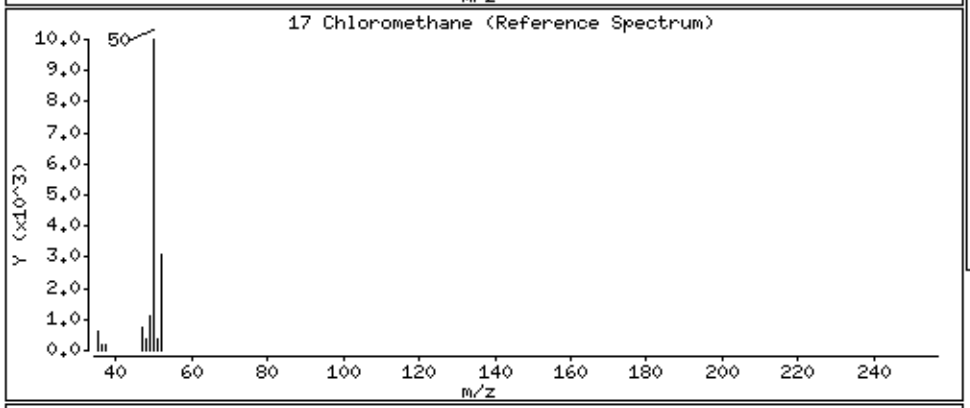
Concentration: 1.242 PPBV

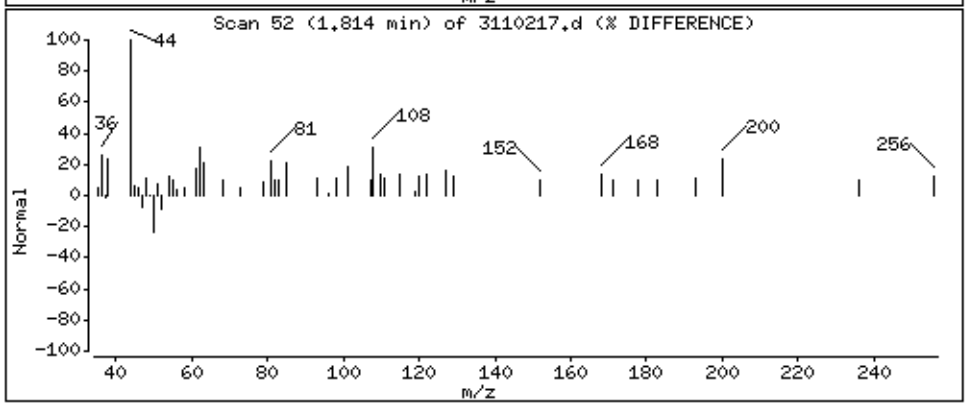












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

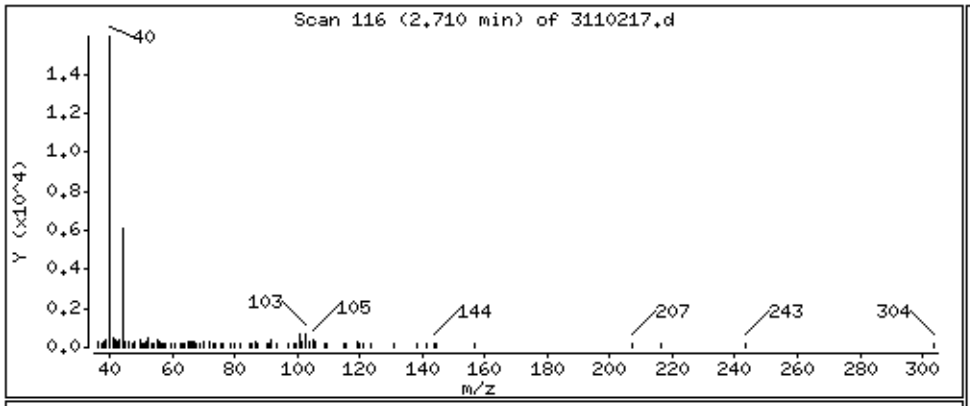
Operator: js

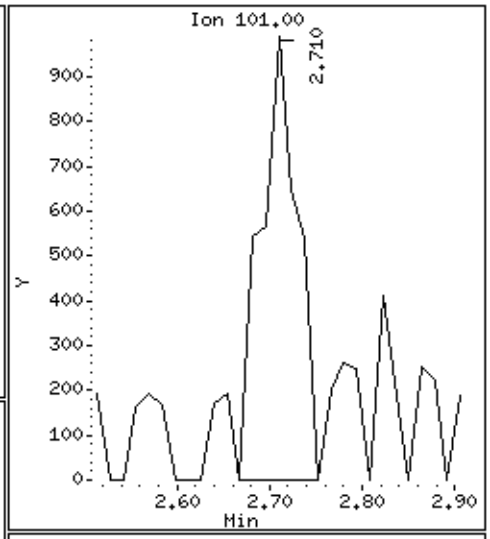
Column phase: RTX-624

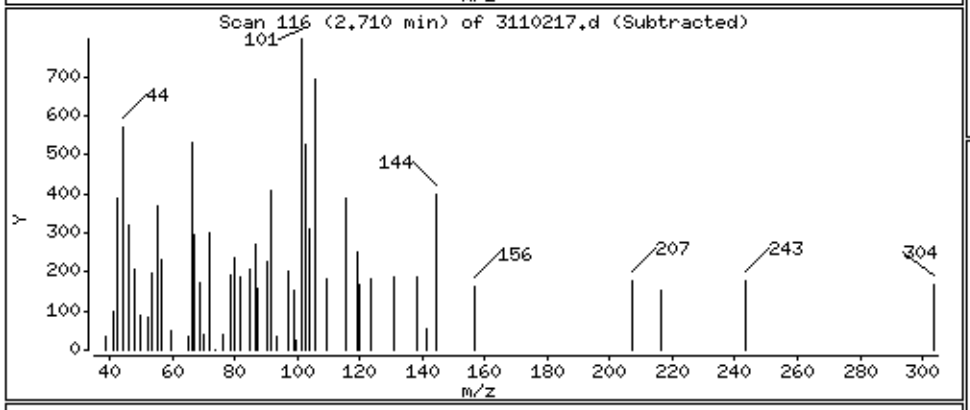
Column diameter: 0.25

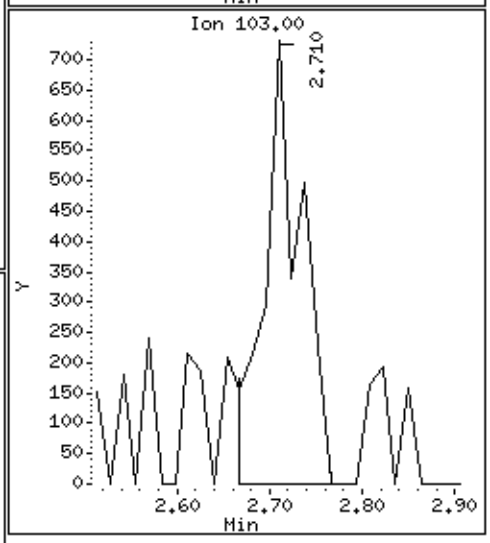
35 Freon 11

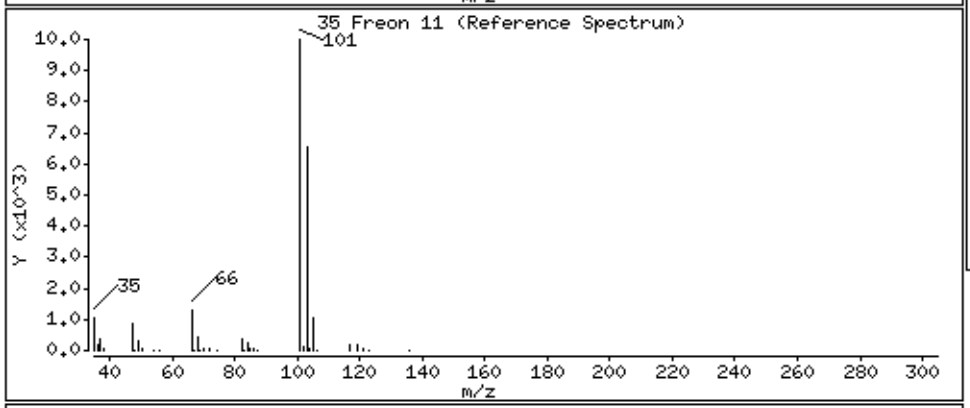
Concentration: 0.4965 PPBV

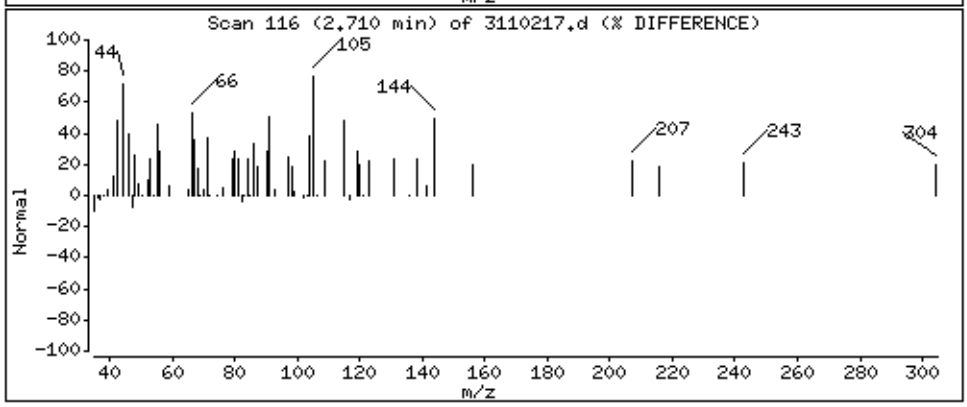












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

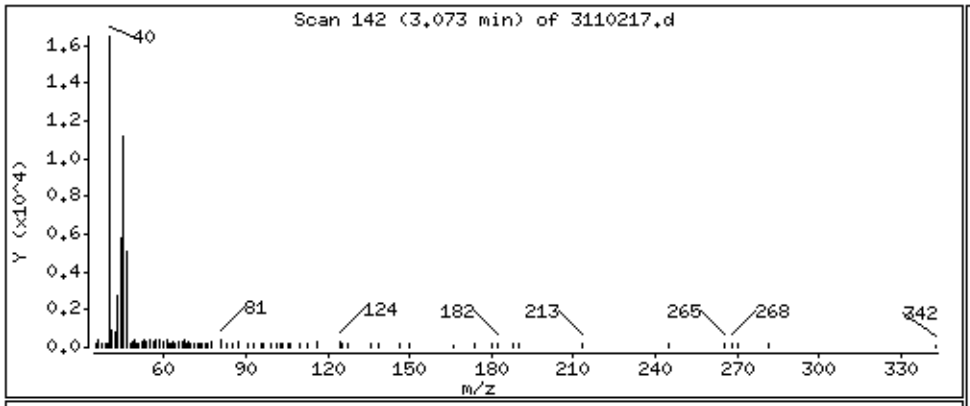
Operator: js

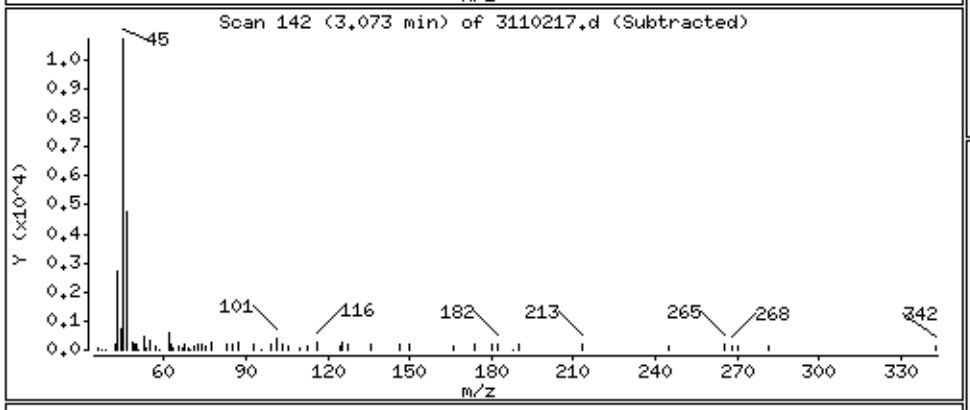
Column phase: RTX-624

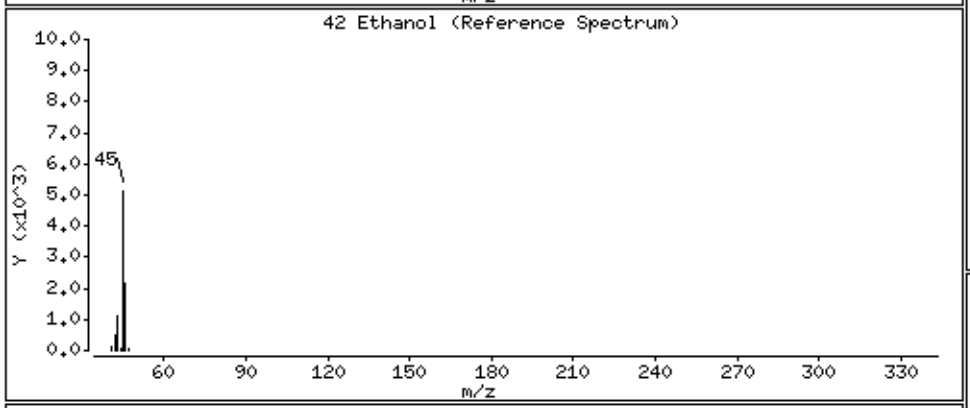
Column diameter: 0.25

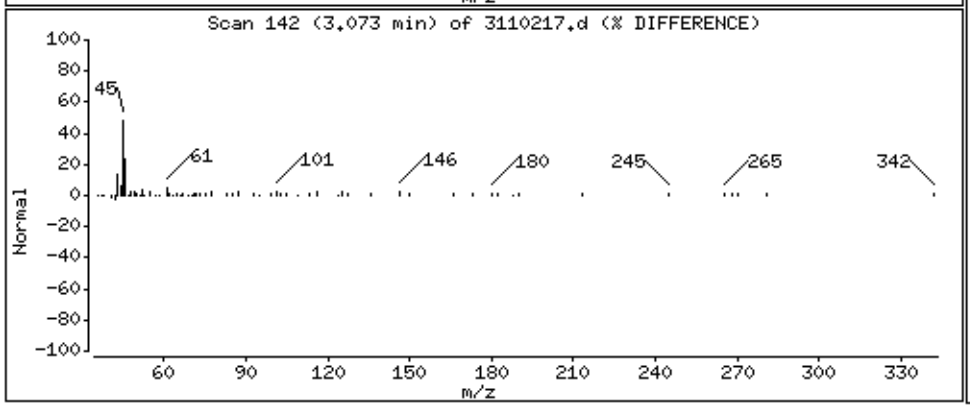
42 Ethanol

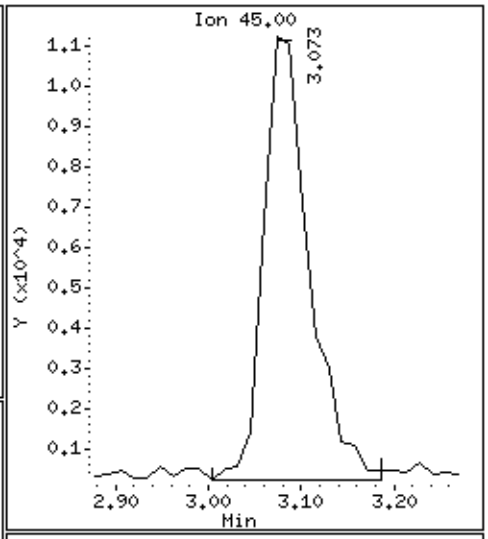
Concentration: 34.693 PPBV

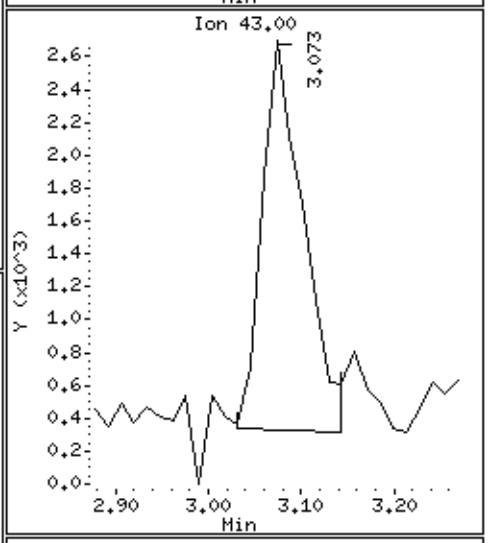


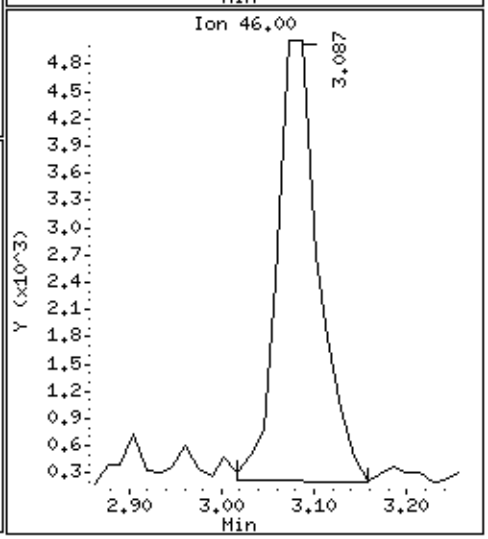












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

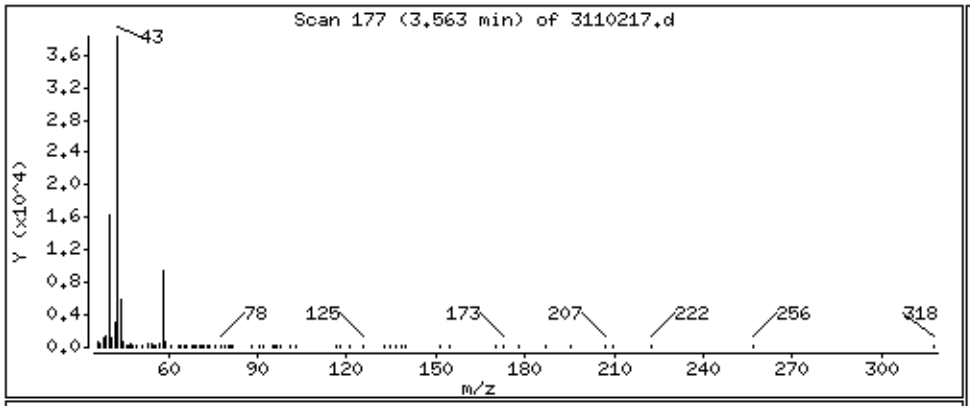
Operator: js

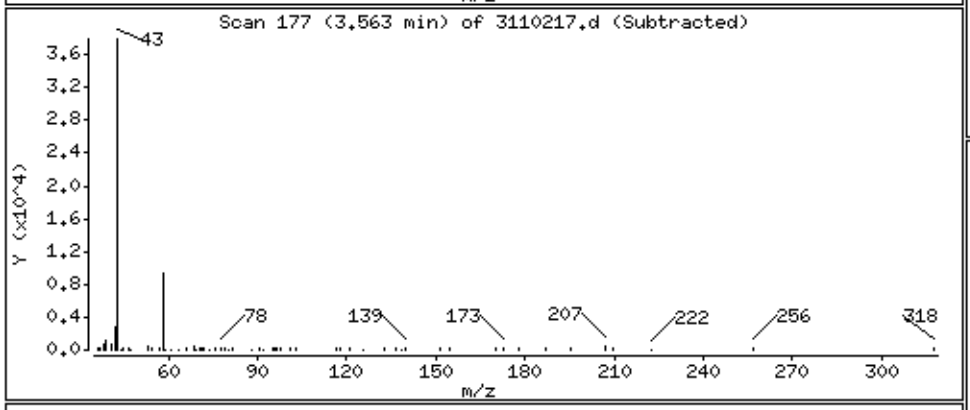
Column phase: RTX-624

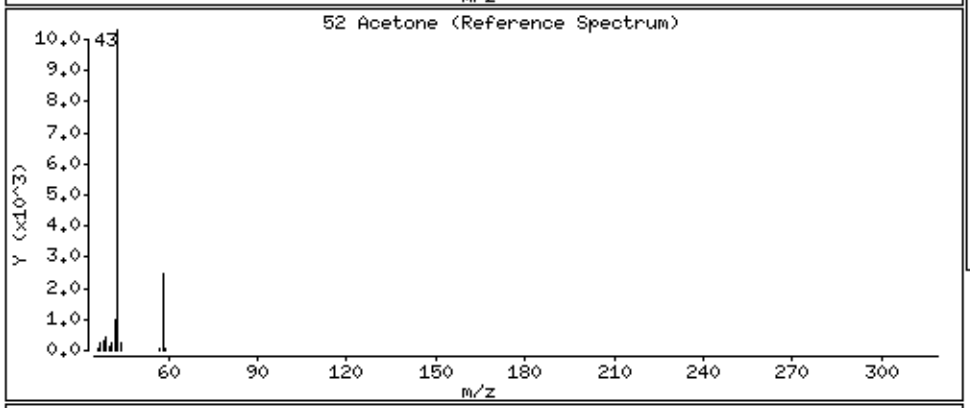
Column diameter: 0.25

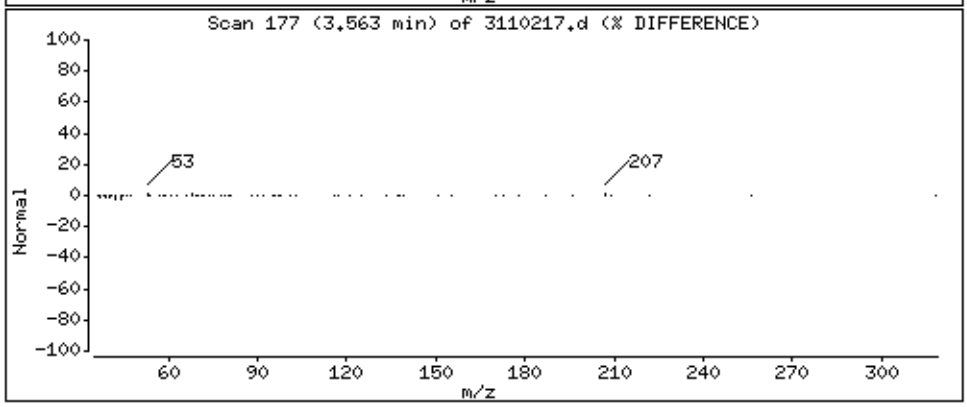
52 Acetone

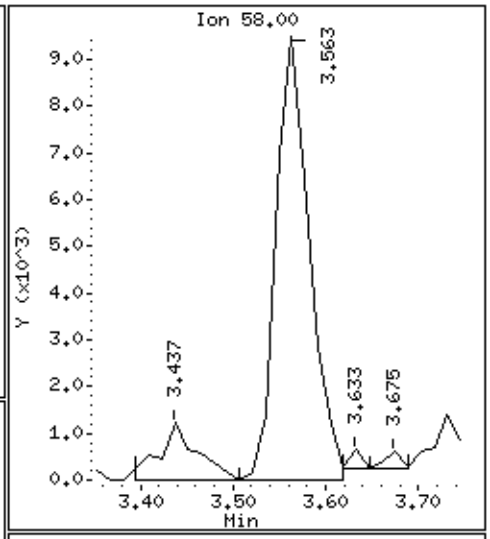
Concentration: 20.621 PPBV

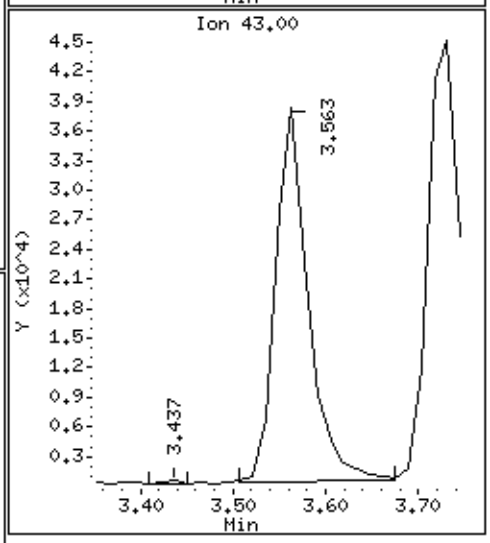












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

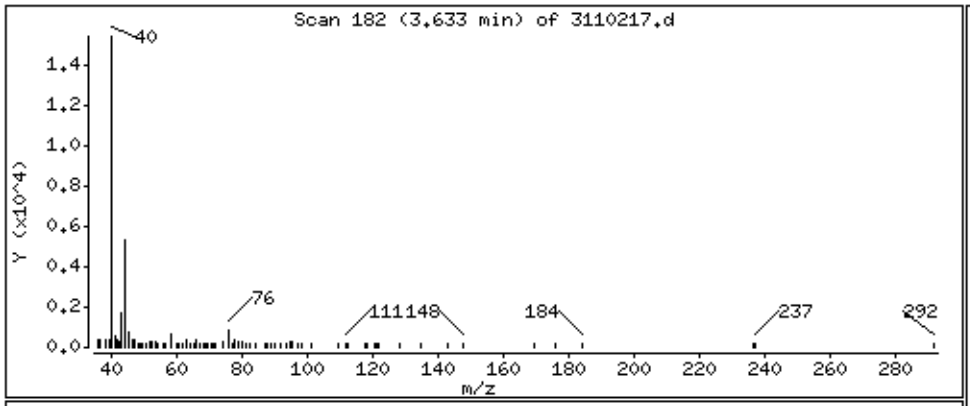
Operator: js

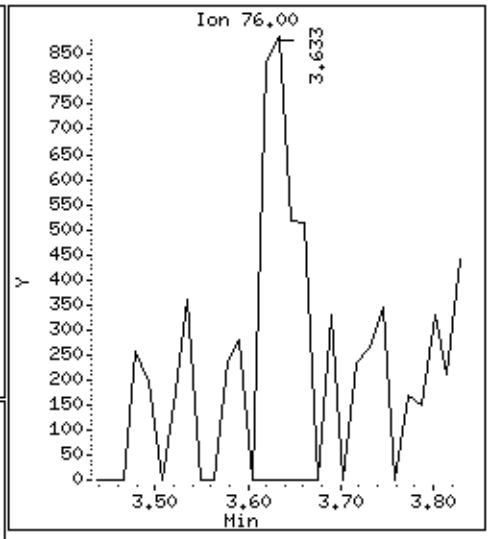
Column phase: RTX-624

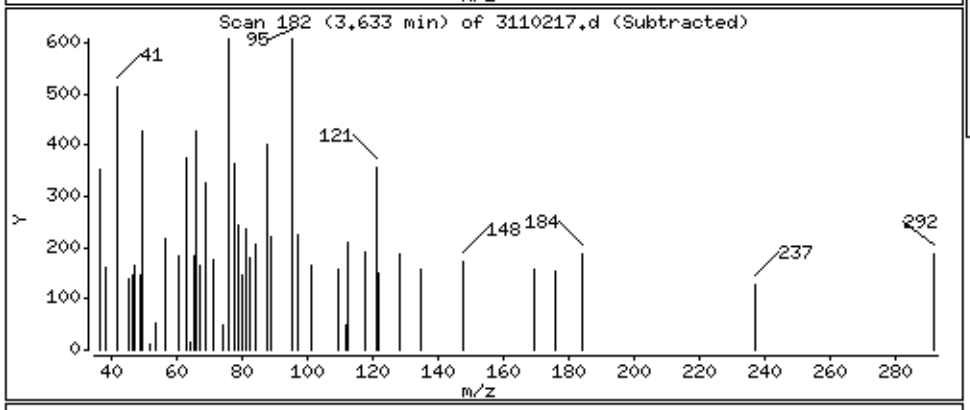
Column diameter: 0.25

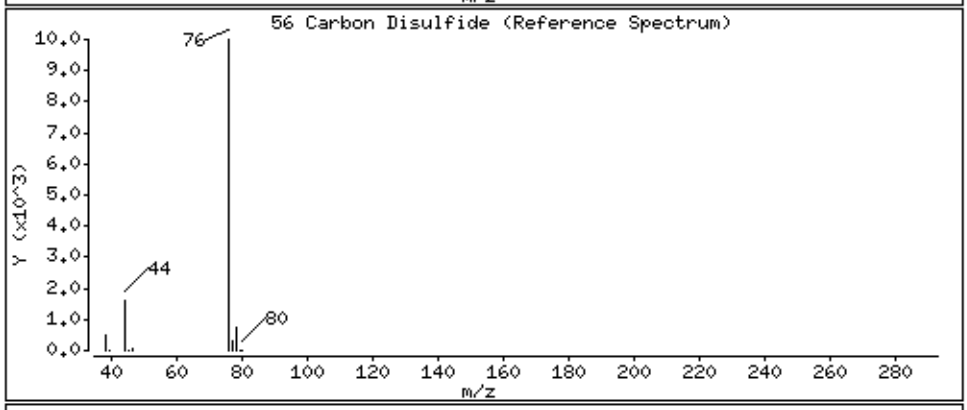
56 Carbon Disulfide

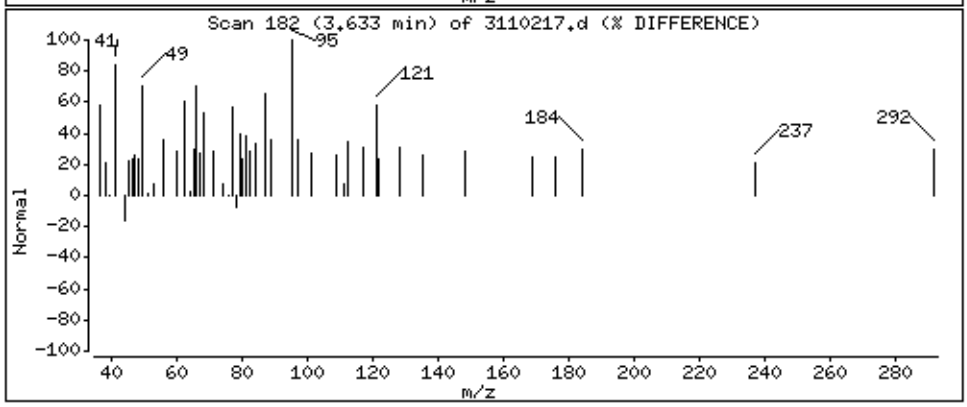
Concentration: 0.5368 PPBV











Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

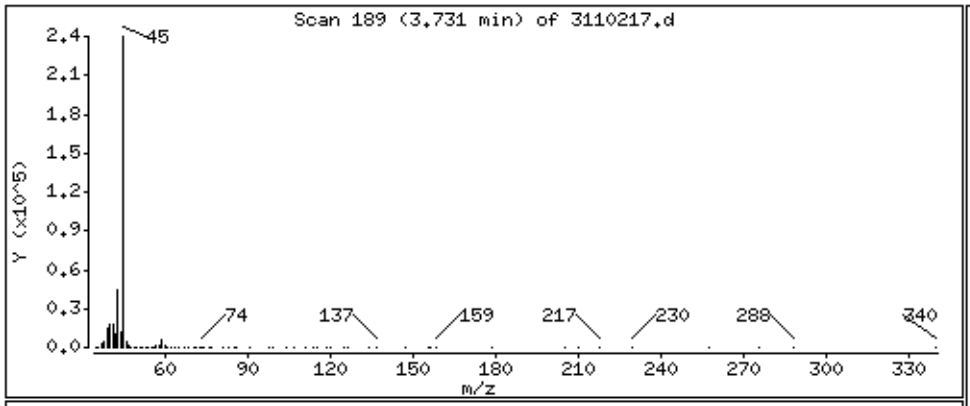
Operator: js

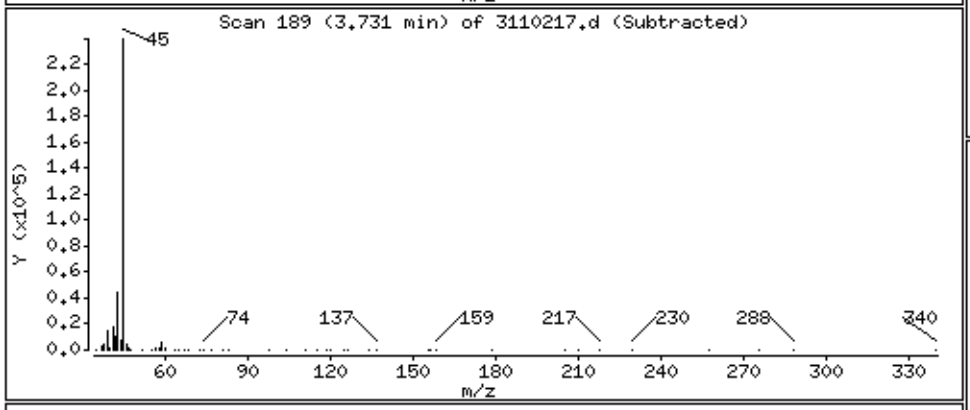
Column phase: RTX-624

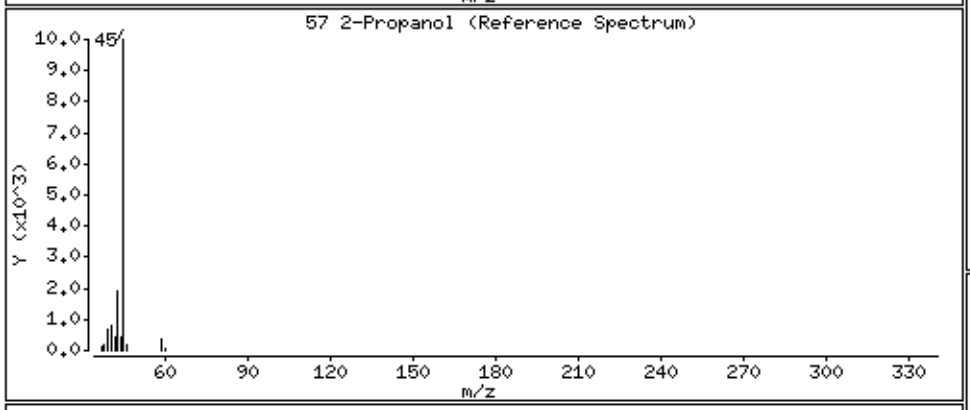
Column diameter: 0.25

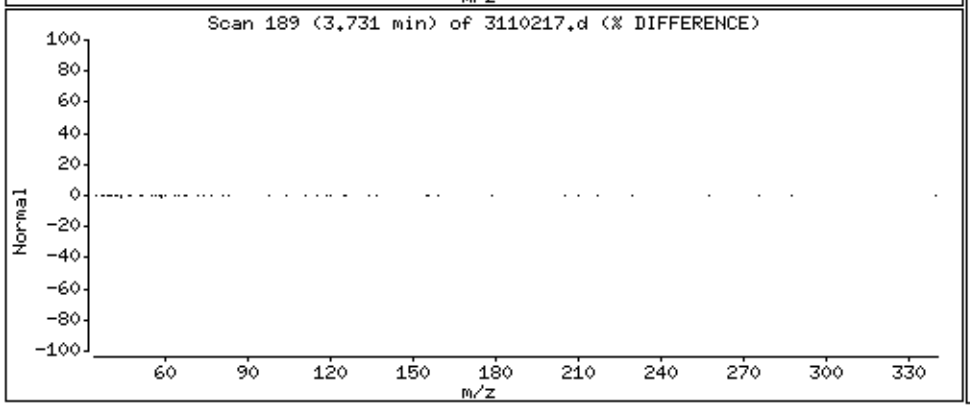
57 2-Propanol

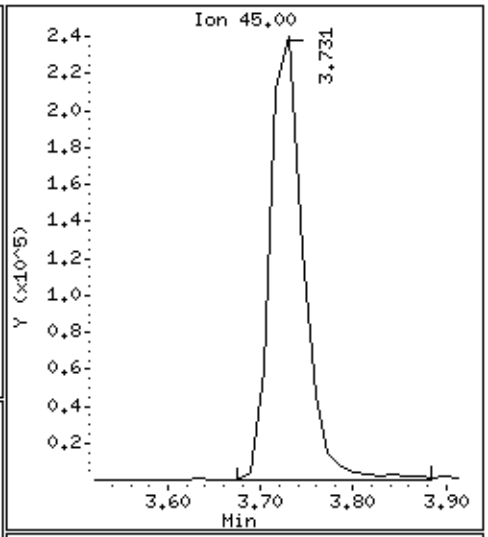
Concentration: 121.92 PPBV

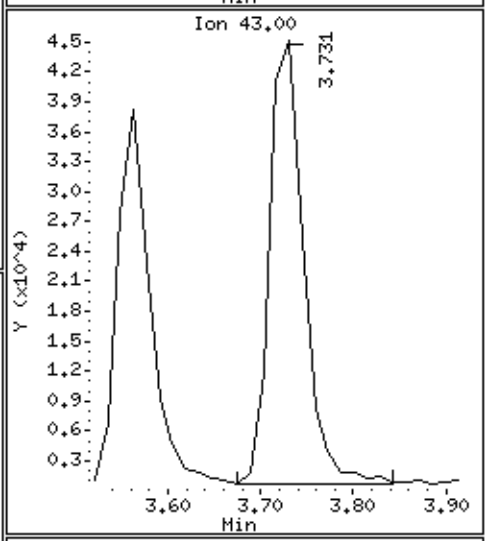


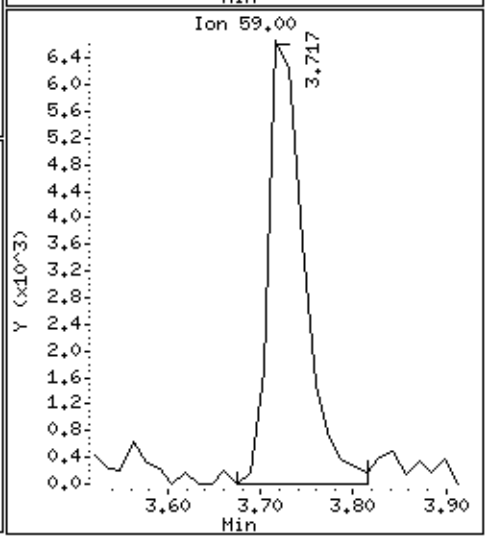












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

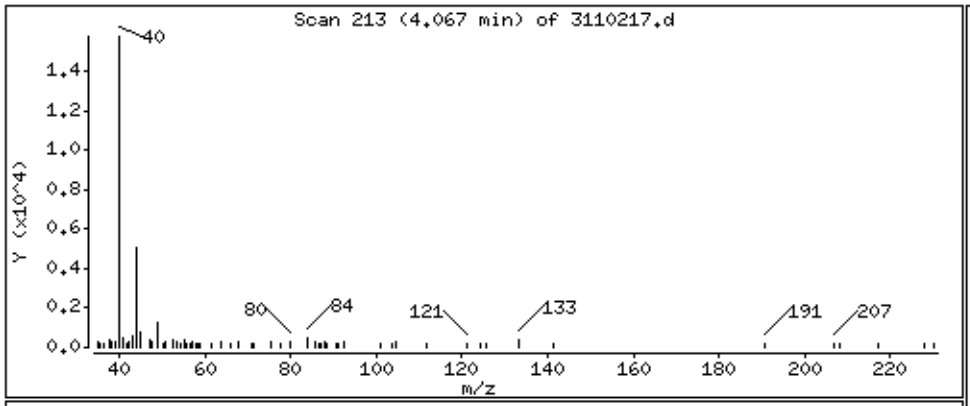
Operator: js

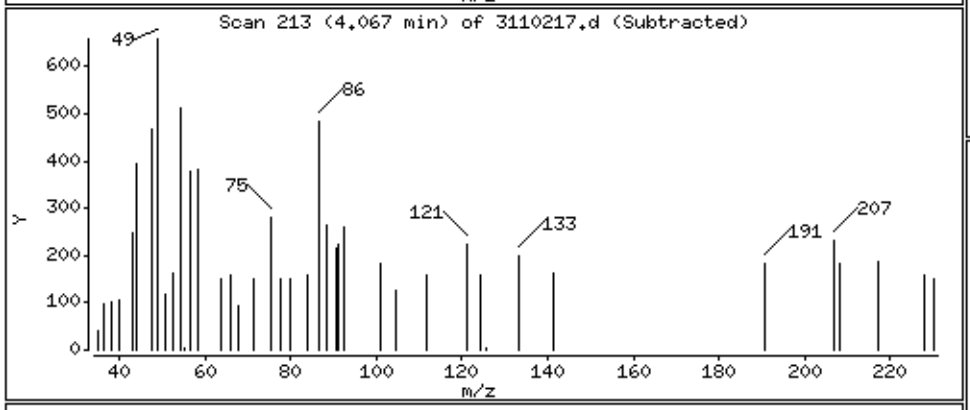
Column phase: RTX-624

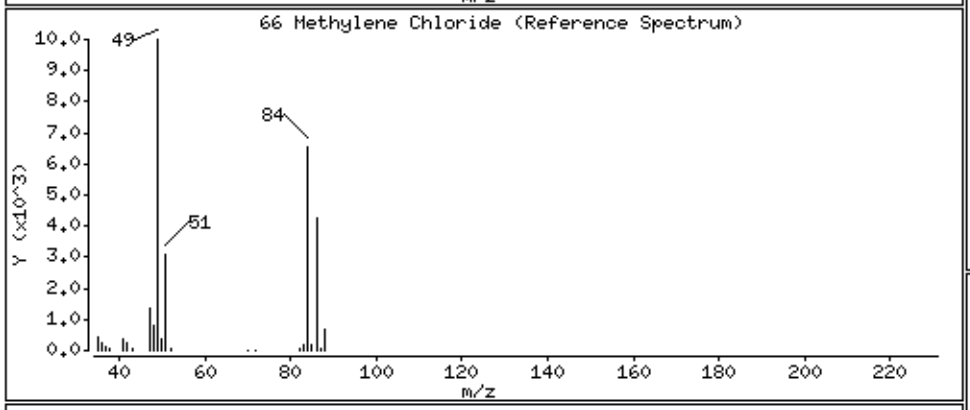
Column diameter: 0.25

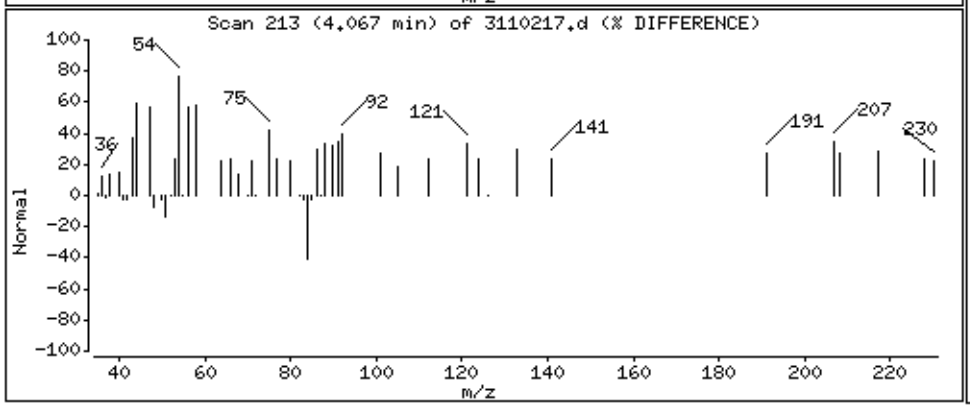
66 Methylene Chloride

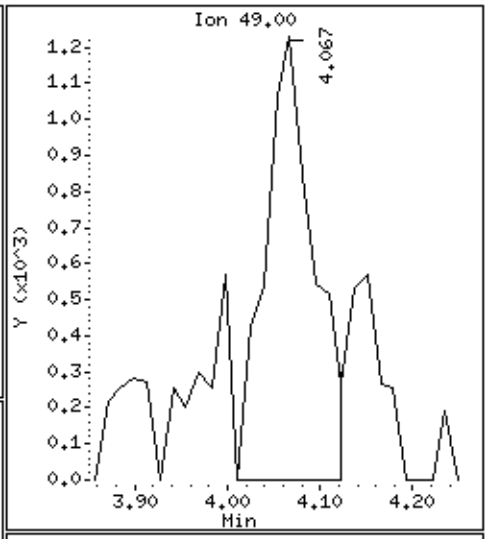
Concentration: 1.293 PPBV

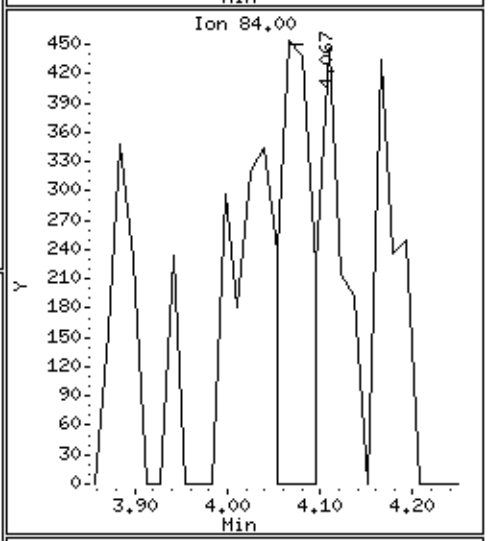


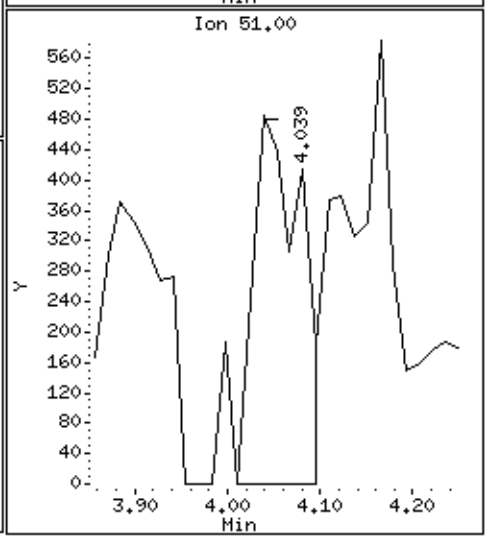












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

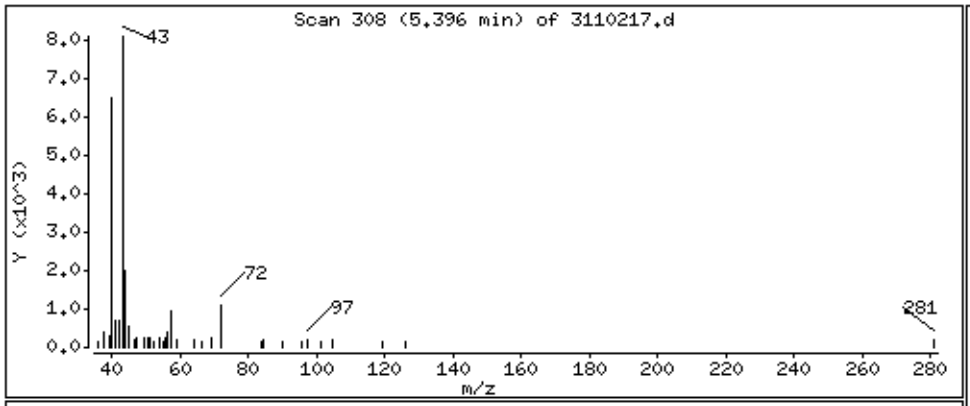
Operator: js

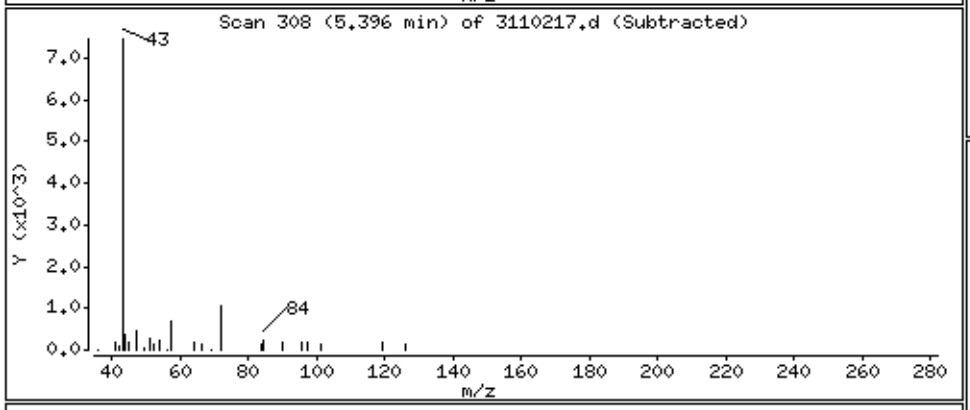
Column phase: RTX-624

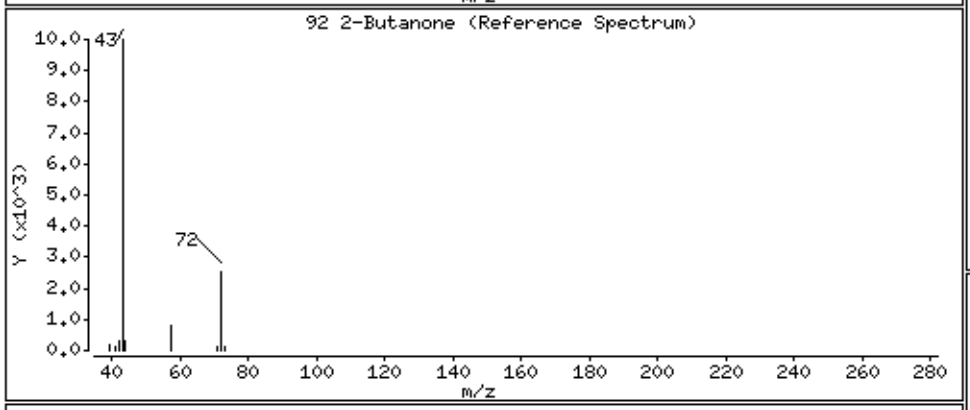
Column diameter: 0.25

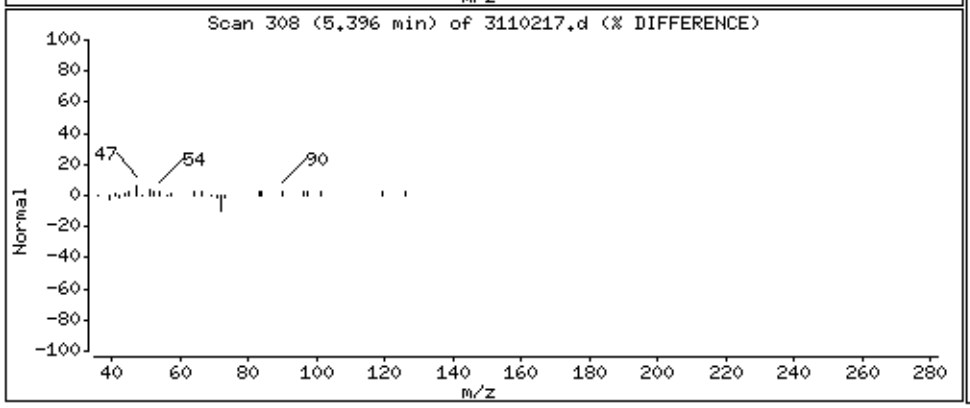
92 2-Butanone

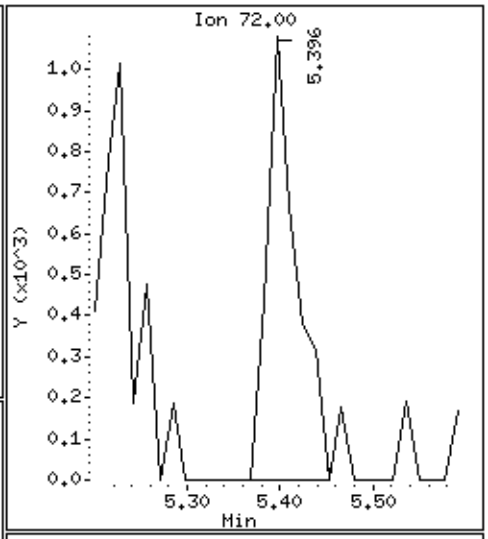
Concentration: 2.990 PPBV

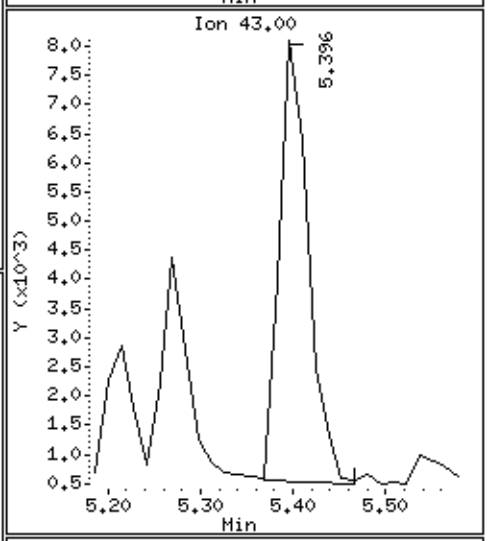


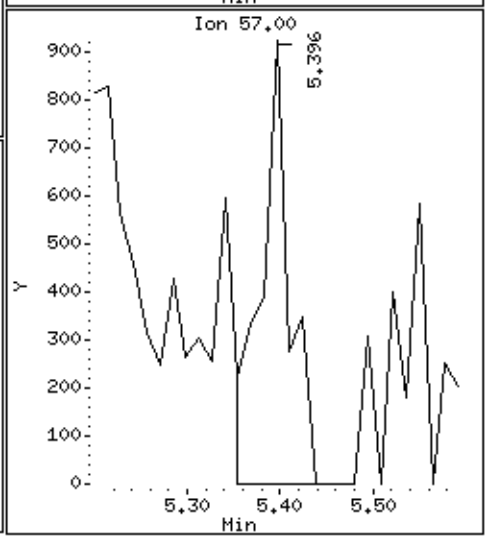












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

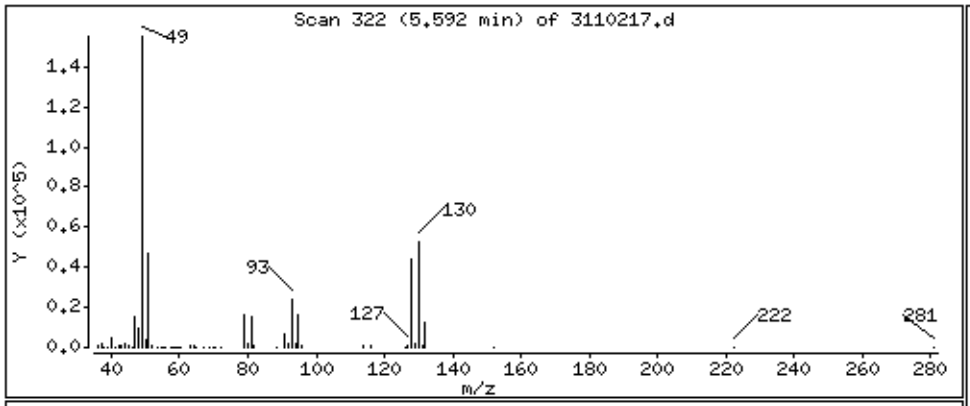
Operator: js

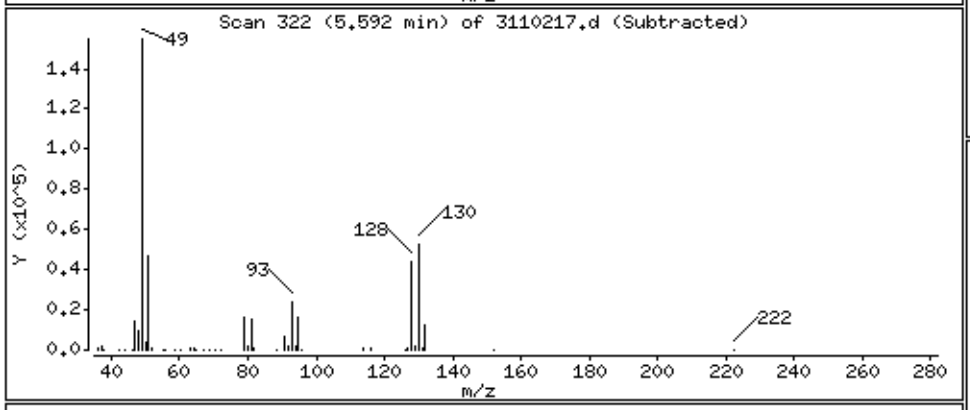
Column phase: RTX-624

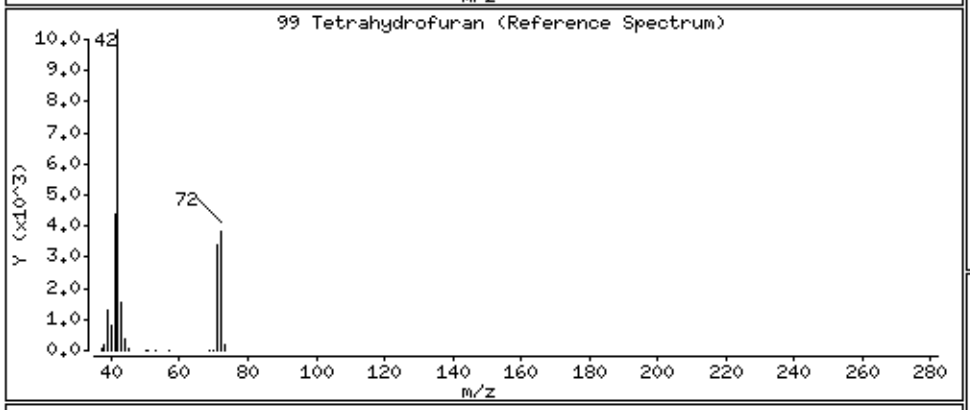
Column diameter: 0.25

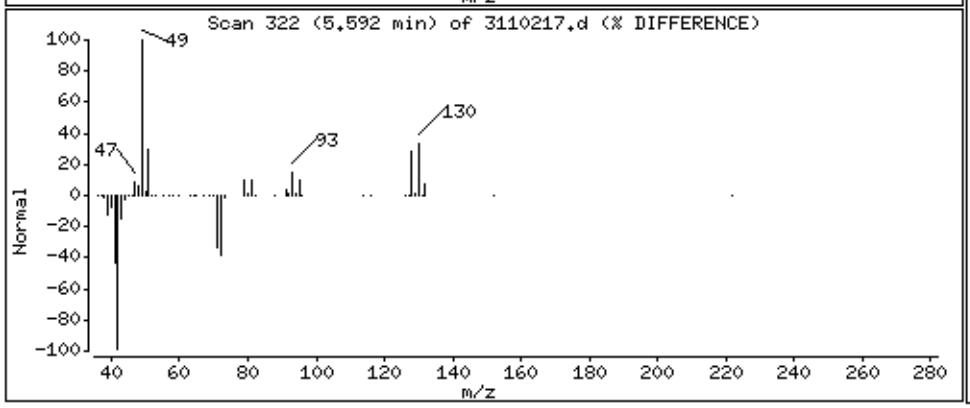
99 Tetrahydrofuran

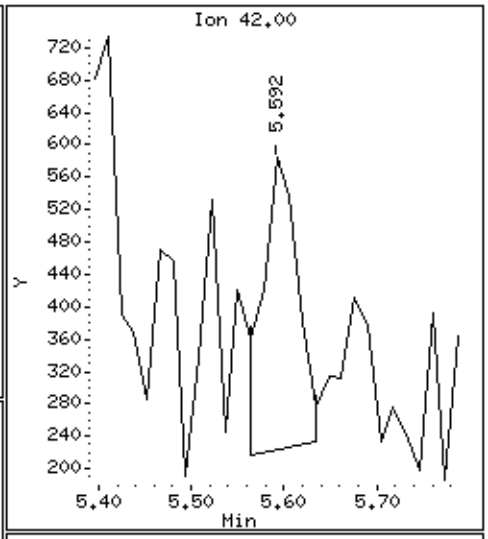
Concentration: 0.2831 PPBV

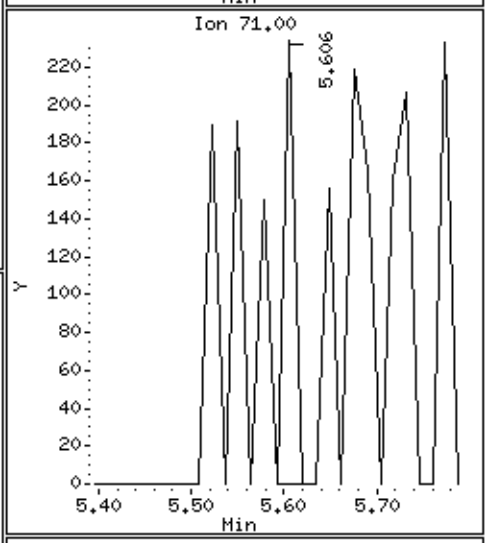


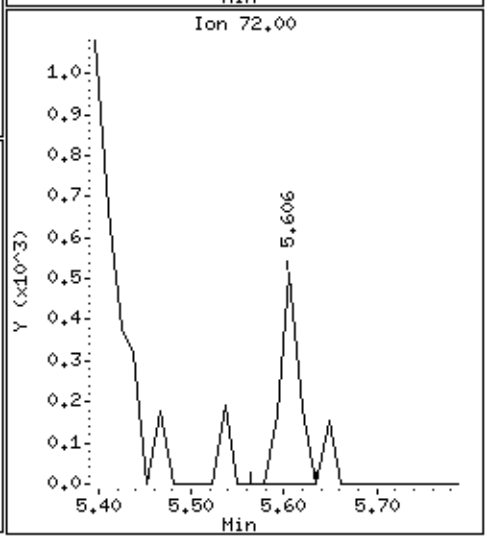












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

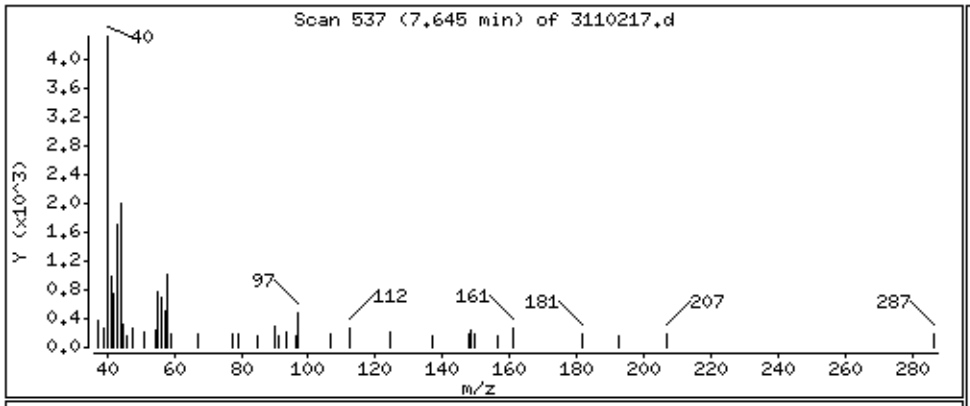
Operator: js

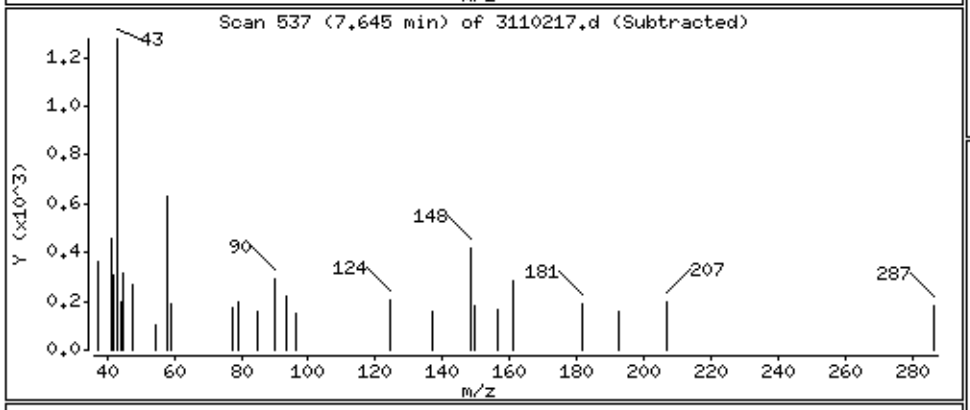
Column phase: RTX-624

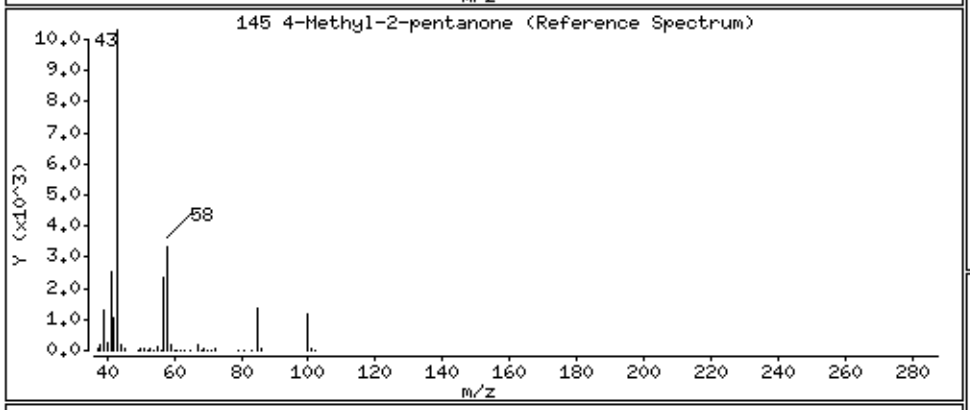
Column diameter: 0.25

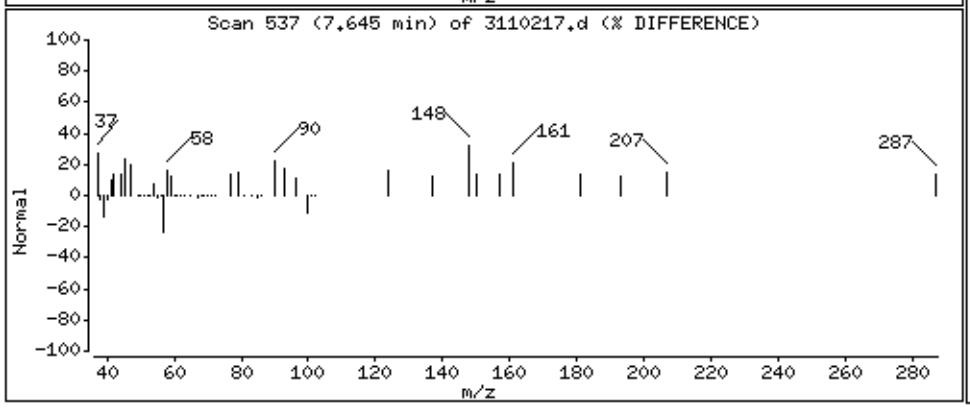
145 4-Methyl-2-pentanone

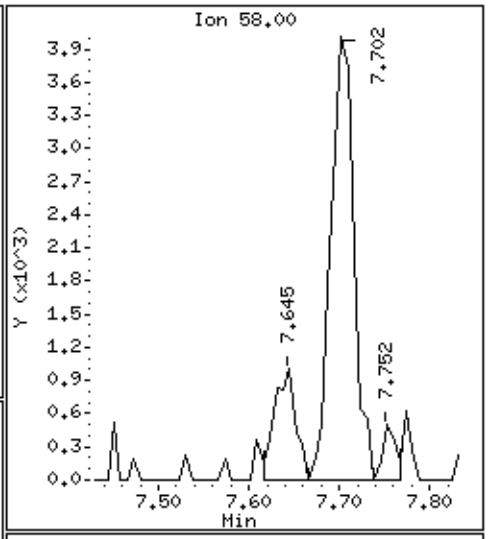
Concentration: 0.5463 PPBV

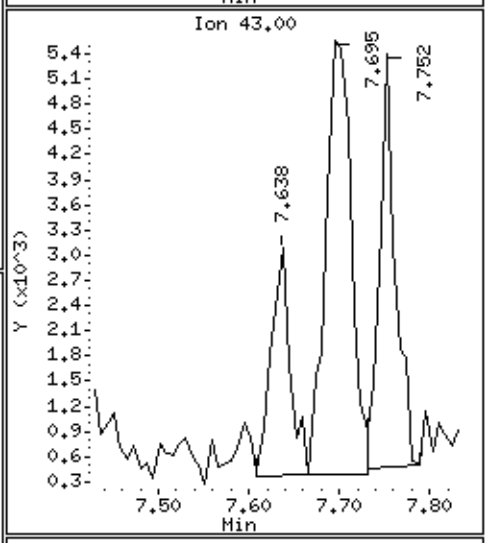


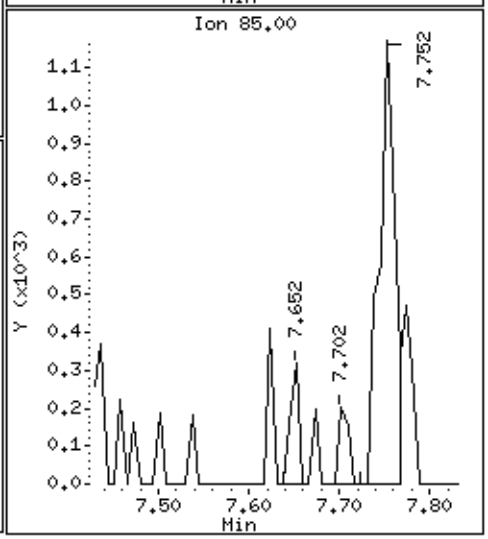












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

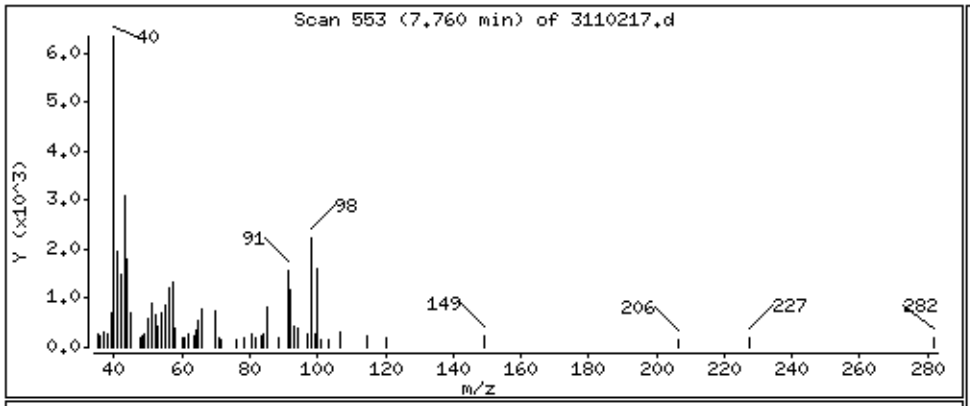
Operator: js

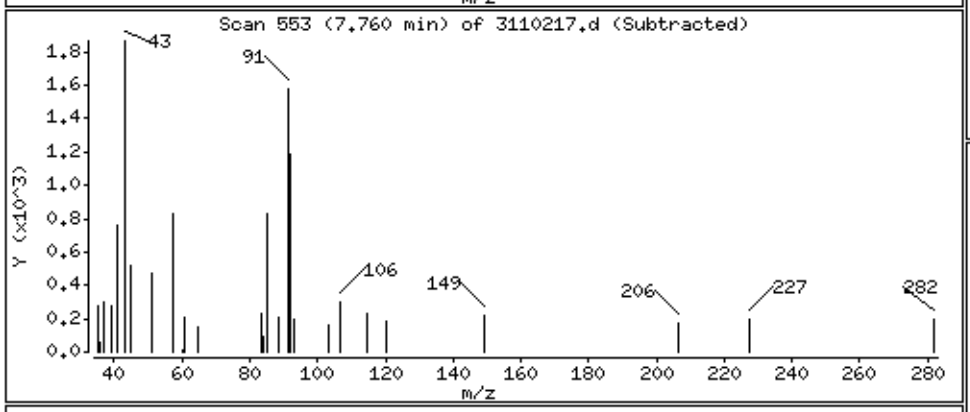
Column phase: RTX-624

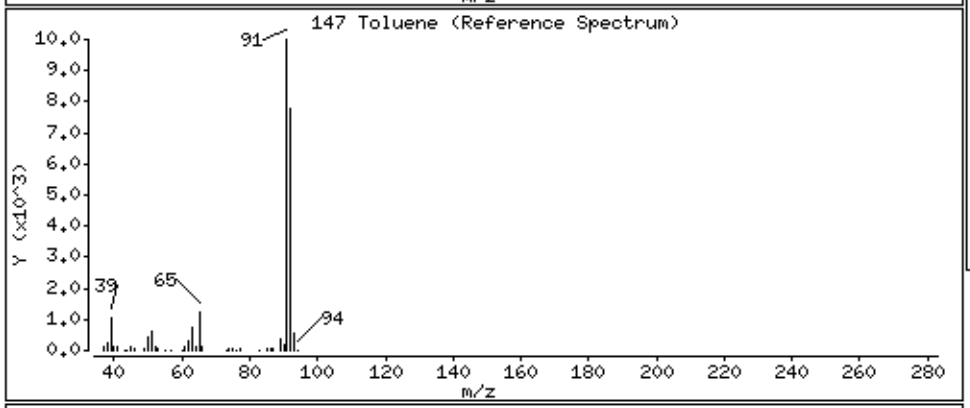
Column diameter: 0.25

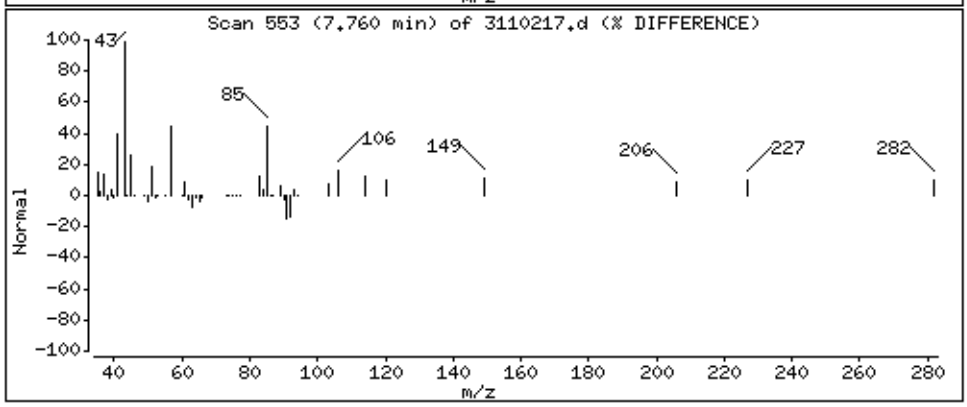
147 Toluene

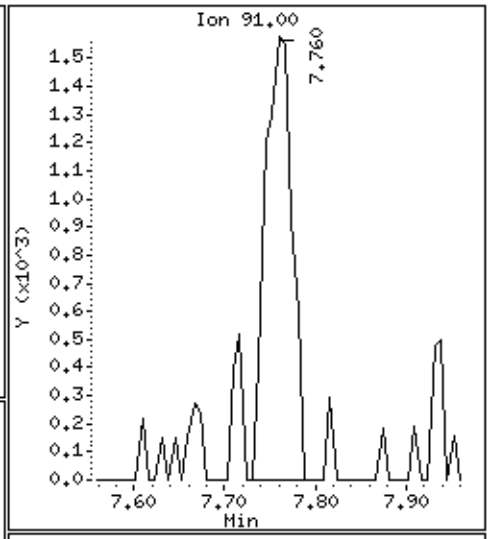
Concentration: 0.4404 PPBV

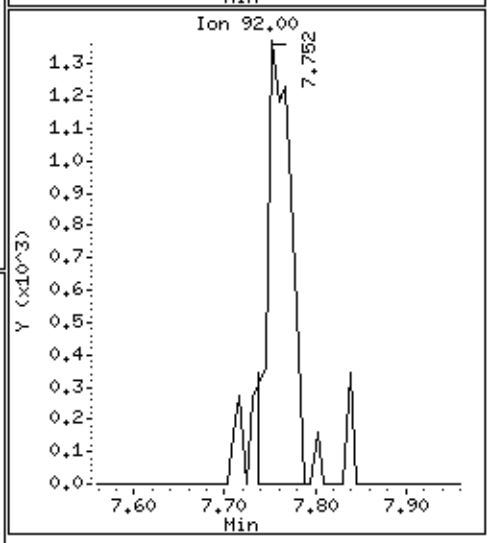












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

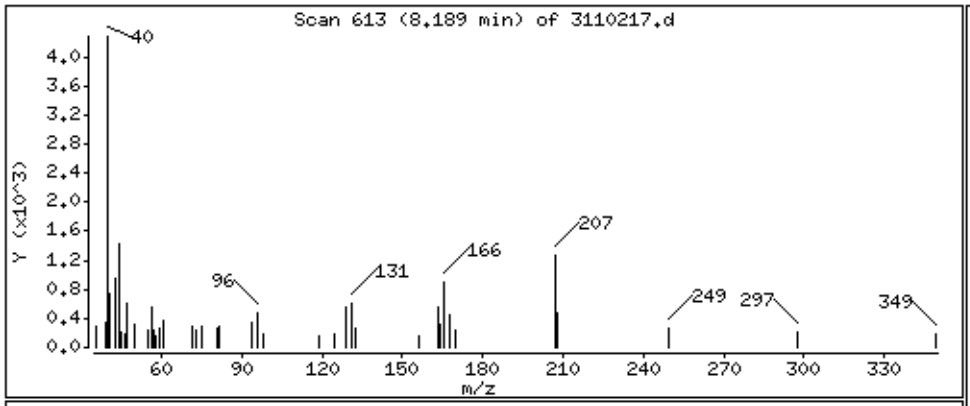
Operator: js

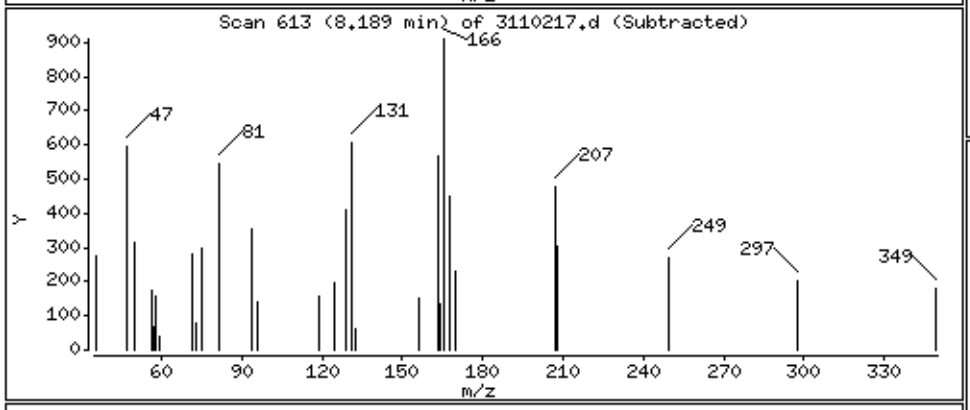
Column phase: RTX-624

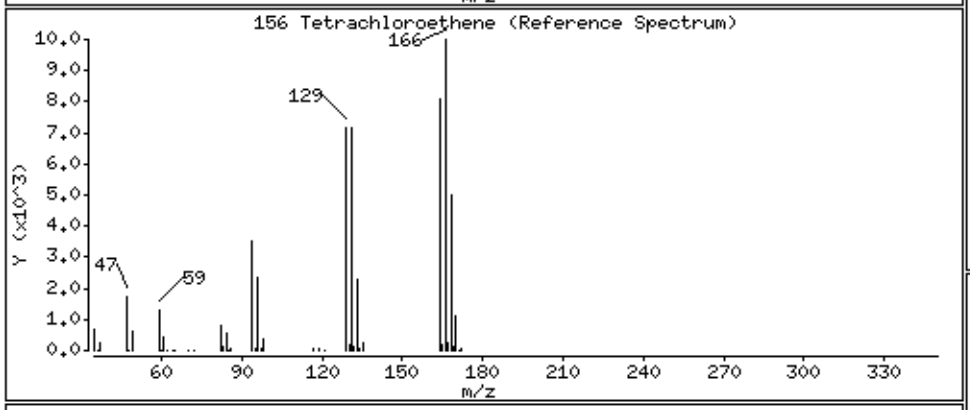
Column diameter: 0.25

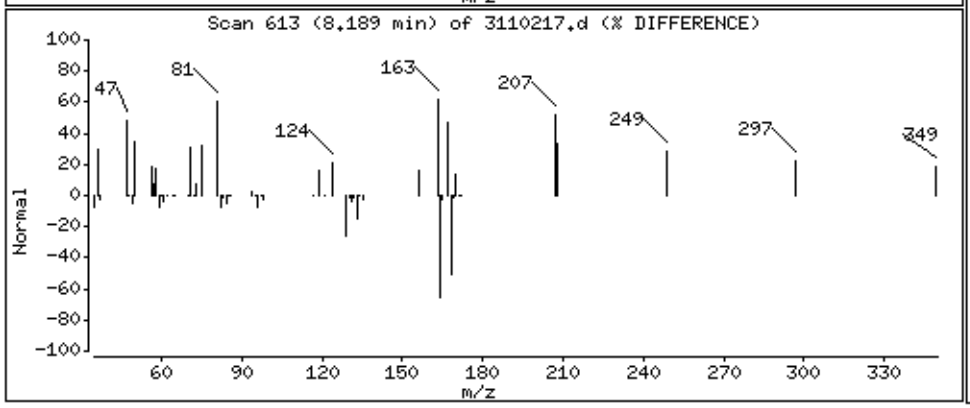
156 Tetrachloroethene

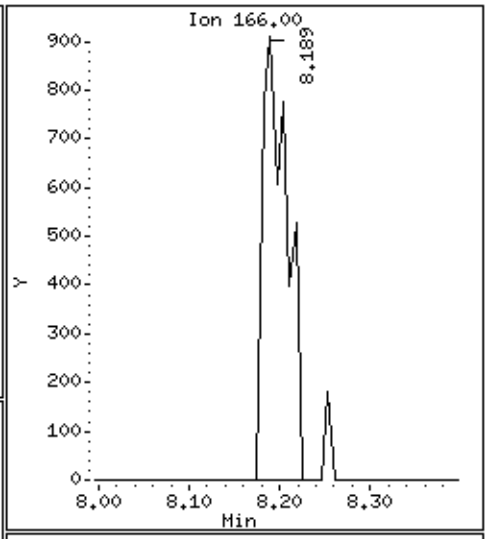
Concentration: 0.4520 PPBV

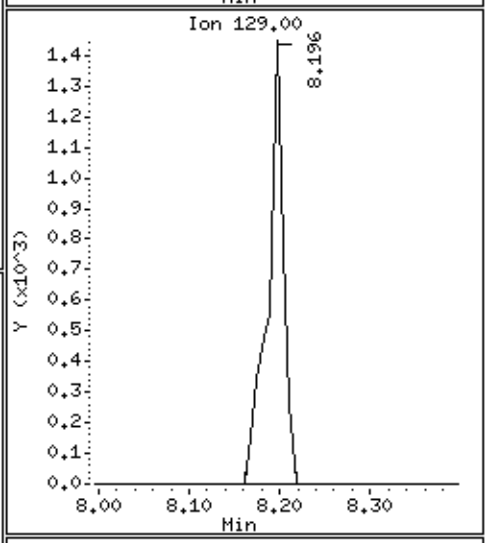


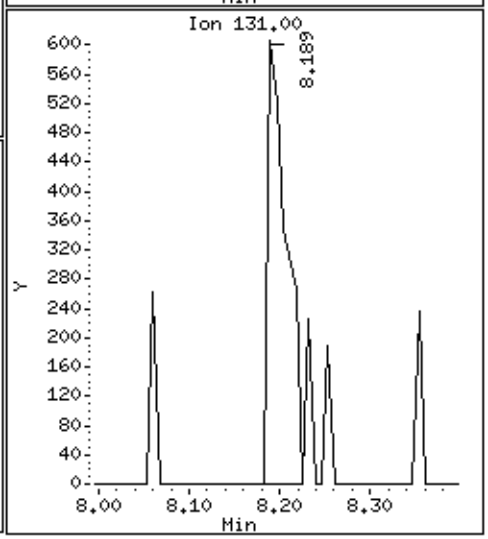












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

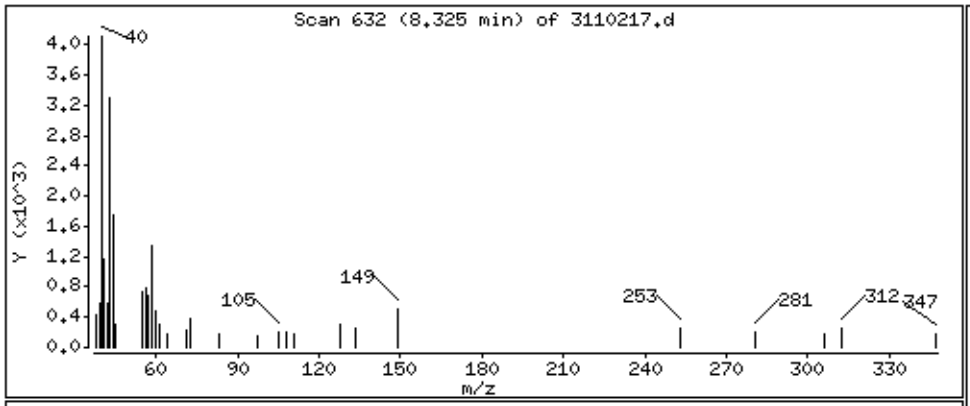
Operator: js

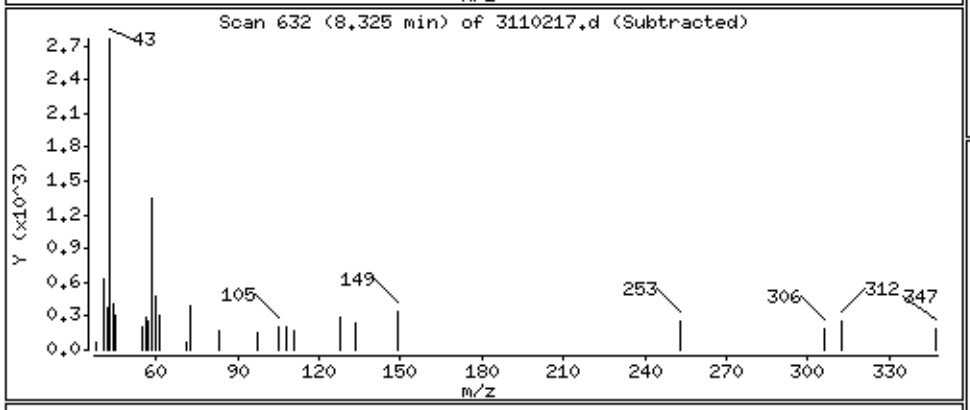
Column phase: RTX-624

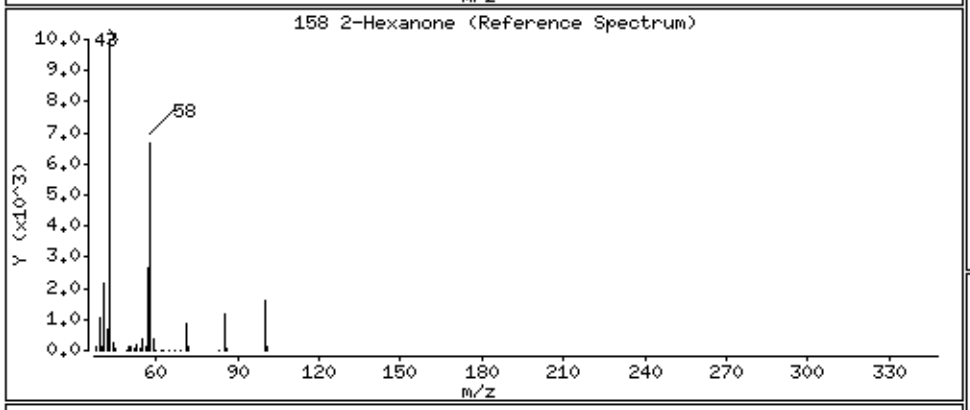
Column diameter: 0.25

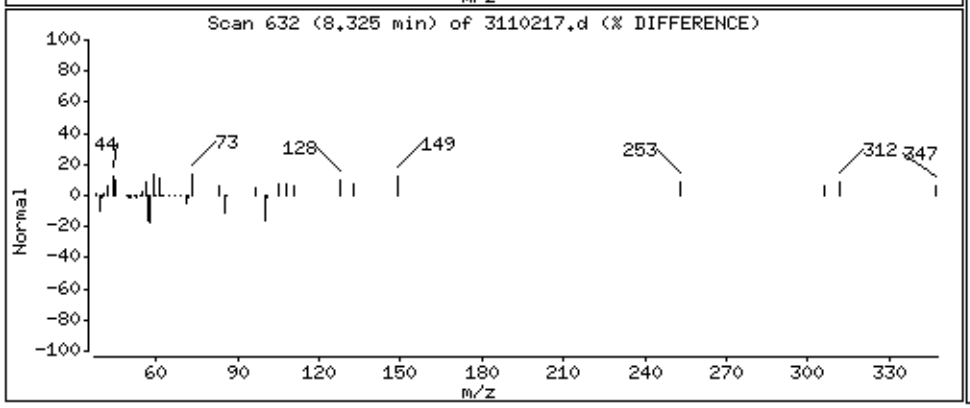
158 2-Hexanone

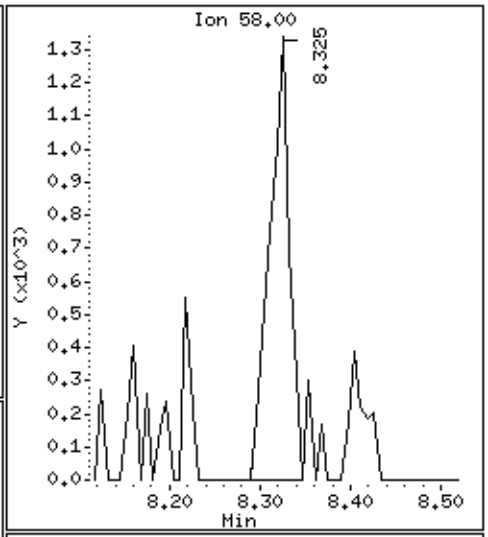
Concentration: 0.4908 PPBV

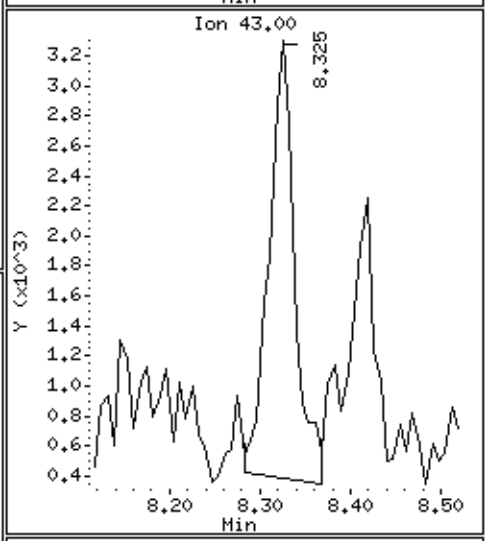


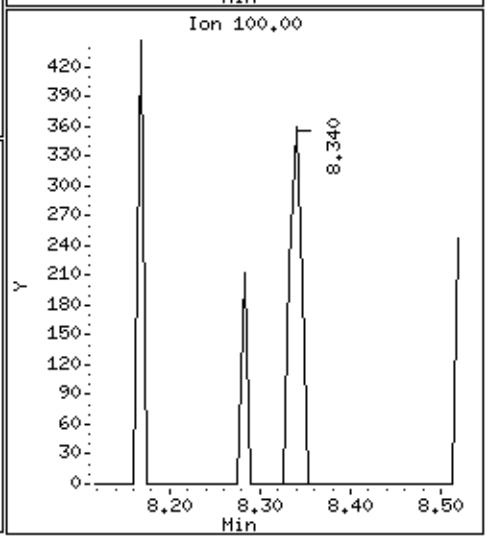












Data File: /chem/msd3.i/02nov15.b/3110217.d

Date : 02-NOV-2015 20:18

Client ID:

Instrument: msd3.i

Sample Info: 200ml 33718

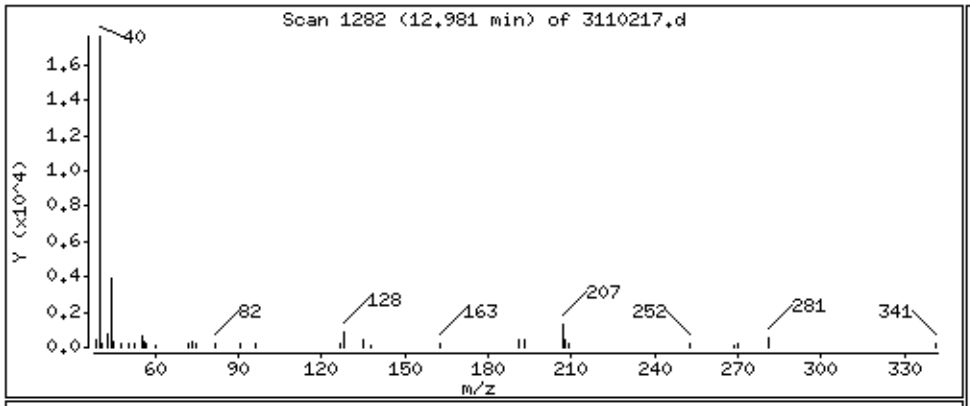
Operator: js

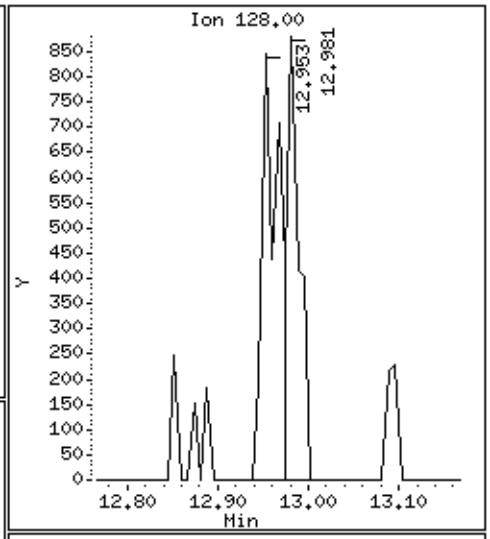
Column phase: RTX-624

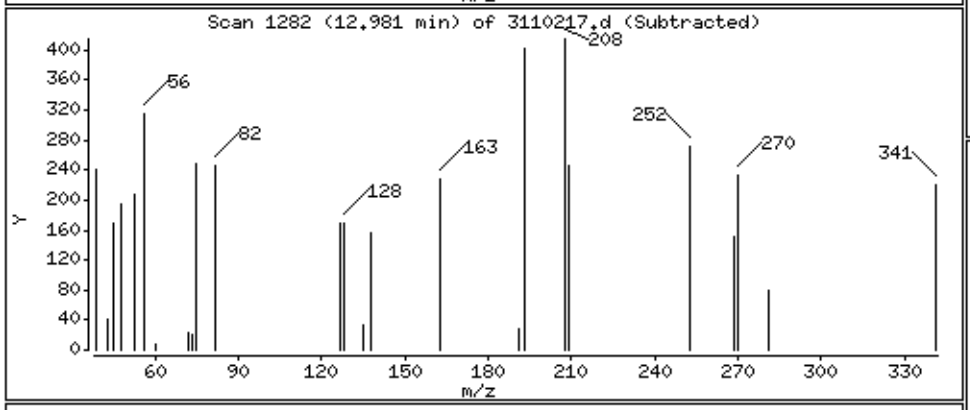
Column diameter: 0.25

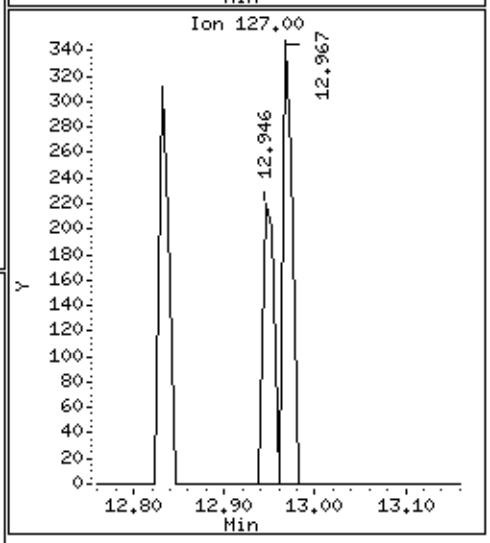
228 Naphthalene

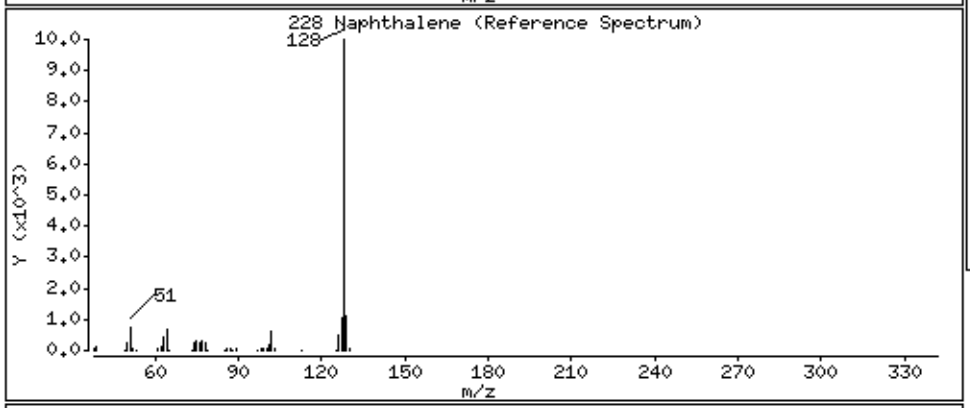
Concentration: 0.05792 PPBV

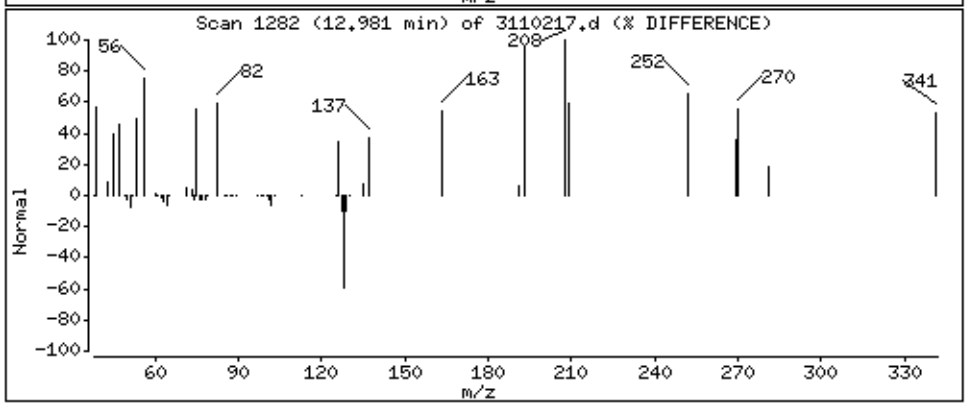












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B42SSV-1102815

Lab ID#: 1510593-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.81 J	5.6	4.0 J
Freon 11	1.1	0.56 J	6.4	3.1 J
Ethanol	4.6	14	8.6	27
Acetone	11	24	27	56
2-Propanol	4.6	8.2	11	20
Carbon Disulfide	4.6	4.7	14	15
Methylene Chloride	11	1.2 J	40	4.3 J
Hexane	1.1	0.44 J	4.0	1.6 J
2-Butanone (Methyl Ethyl Ketone)	4.6	2.9 J	13	8.5 J
Tetrahydrofuran	1.1	0.70 J	3.4	2.1 J
2,2,4-Trimethylpentane	1.1	0.24 J	5.3	1.1 J
Benzene	1.1	0.38 J	3.6	1.2 J
Heptane	1.1	0.82 J	4.7	3.4 J
Trichloroethene	1.1	0.42 J	6.1	2.3 J
1,4-Dioxane	4.6	0.93 J	16	3.3 J
4-Methyl-2-pentanone	1.1	0.49 J	4.7	2.0 J
Toluene	1.1	3.6	4.3	14
2-Hexanone	4.6	0.55 J	19	2.2 J
Ethyl Benzene	1.1	1.3	4.9	5.5
m,p-Xylene	1.1	2.6	5.0	11
o-Xylene	1.1	0.80 J	5.0	3.4 J
Styrene	1.1	0.29 J	4.8	1.2 J
4-Ethyltoluene	1.1	0.76 J	5.6	3.7 J
1,2,4-Trimethylbenzene	1.1	0.31 J	5.6	1.5 J
1,2,4-Trichlorobenzene	4.6	0.31 J	34	2.3 J
Naphthalene	2.3	0.25 J	12	1.3 J

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Client Sample ID: B42SSV-1102815

Lab ID#: 1510593-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110218**	**Date of Collection:**	**10/28/15 1:39:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 08:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.81 J	5.6	4.0 J
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	0.56 J	6.4	3.1 J
Ethanol	4.6	14	8.6	27
Freon 113	1.1	Not Detected	8.7	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	24	27	56
2-Propanol	4.6	8.2	11	20
Carbon Disulfide	4.6	4.7	14	15
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	1.2 J	40	4.3 J
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	0.44 J	4.0	1.6 J
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	2.9 J	13	8.5 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	0.70 J	3.4	2.1 J
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	0.24 J	5.3	1.1 J
Benzene	1.1	0.38 J	3.6	1.2 J
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.82 J	4.7	3.4 J
Trichloroethene	1.1	0.42 J	6.1	2.3 J
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	0.93 J	16	3.3 J
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	0.49 J	4.7	2.0 J
Toluene	1.1	3.6	4.3	14
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.6	0.55 J	19	2.2 J

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Client Sample ID: B42SSV-1102815

Lab ID#: 1510593-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110218**	**Date of Collection:**	**10/28/15 1:39:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 08:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	1.3	4.9	5.5
m,p-Xylene	1.1	2.6	5.0	11
o-Xylene	1.1	0.80 J	5.0	3.4 J
Styrene	1.1	0.29 J	4.8	1.2 J
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	0.76 J	5.6	3.7 J
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	0.31 J	5.6	1.5 J
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	0.31 J	34	2.3 J
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	0.25 J	12	1.3 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	100	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110218.d
Lab Smp Id: 1510593-06A
Inj Date : 02-NOV-2015 20:44
Operator : js Inst ID: msd3.i
Smp Info : 200ml 37317
Misc Info : 3.5 Hg->14.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 3
Dil Factor: 2.28000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.28000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane						CAS #: 74-97-5	
5.592	5.592 (1.000)	130	106758	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	80600			42.88- 102.88	75.50
5.592	5.592 (1.000)	49	298566			207.65- 267.65	279.67
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.488	6.488 (1.000)	114	426368	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	74767			0.00- 45.78	17.54
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.942	8.942 (1.000)	117	466298	25.0000		80.00- 120.00	100.00
8.942	8.934 (1.000)	82	282090			26.67- 86.67	60.50
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
6.138	6.124 (1.098)	65	264141	28.3207	28.321	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	115191			22.68- 82.68	43.61

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	502865	27.4740	27.474	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	58821			0.00- 41.75	11.70
7.702	7.702 (1.187)	100	328239			34.13- 94.13	65.27
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.923 (1.111)	174	289507	25.1372	25.137	80.00- 120.00	100.00
9.930	9.923 (1.111)	95	379515			96.73- 156.73	131.09
9.930	9.923 (1.111)	176	269719			65.47- 125.47	93.17
11 Freon 12					CAS #: 75-71-8		
1.604	1.605 (0.287)	85	3961	0.35510	0.8096	80.00- 120.00	100.00(a)
1.618	1.605 (0.289)	87	1615			2.62- 62.62	40.78
35 Freon 11					CAS #: 75-69-4		
2.696	2.710 (0.482)	101	3404	0.24466	0.5578	80.00- 120.00	100.00(a)
2.710	2.710 (0.485)	103	3513			33.61- 93.61	103.19
42 Ethanol					CAS #: 64-17-5		
3.116	3.074 (0.557)	45	17382	6.29148	14.344	80.00- 120.00	100.00
3.116	3.074 (0.557)	43	4904			0.00- 51.11	28.22
3.116	3.060 (0.557)	46	7290			10.70- 70.70	41.94
52 Acetone					CAS #: 67-64-1		
3.577	3.549 (0.640)	58	30527	10.3900	23.689	80.00- 120.00	100.00
3.577	3.549 (0.640)	43	127855			351.83- 411.83	418.82
56 Carbon Disulfide					CAS #: 75-15-0		
3.619	3.633 (0.647)	76	22241	2.06362	4.705	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.759	3.717 (0.672)	45	44793	3.60396	8.217	80.00- 120.00	100.00
3.759	3.717 (0.672)	43	10661			0.00- 48.10	23.80
3.745	3.717 (0.670)	59	2820			0.00- 33.34	6.30
66 Methylene Chloride					CAS #: 75-09-2		
4.039	4.053 (0.722)	49	4832	0.54653	1.246	80.00- 120.00	100.00(a)
4.053	4.053 (0.725)	84	1711			9.02- 69.02	35.42
4.039	4.053 (0.722)	51	3238			0.00- 59.58	67.01
78 Hexane					CAS #: 110-54-3		
4.487	4.501 (0.802)	57	1956	0.19452	0.4435	80.00- 120.00	100.00(a)
4.487	4.501 (0.802)	43	1212			44.95- 104.95	61.95
4.445	4.501 (0.795)	86	576			0.00- 40.12	29.47
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	2569	1.26673	2.888	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.382 (0.965)	43	24042			717.19- 777.19	935.61
5.396	5.396 (0.965)	57	2480			21.09- 81.09	96.51
99 Tetrahydrofuran					CAS #: 109-99-9		
5.606	5.592 (1.002)	42	2759	0.30745	0.7010	80.00- 120.00	100.00(a)
5.606	5.592 (1.002)	71	683			0.00- 49.93	24.77
5.606	5.592 (1.002)	72	245			0.00- 50.49	8.88
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.082 (1.090)	57	3744	0.10766	0.2455	80.00- 120.00	100.00(a)
6.068	6.082 (1.085)	56	1320			2.46- 62.46	35.26
6.082	6.082 (1.088)	41	4183			0.00- 55.56	111.73
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	1989	0.16868	0.3846	80.00- 120.00	100.00(a)
6.110	6.110 (0.942)	77	637			0.00- 54.02	32.02
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	1637	0.36044	0.8218	80.00- 120.00	100.00(a)
6.250	6.250 (0.963)	43	6067			309.54- 369.54	370.48
6.250	6.250 (0.963)	57	3086			143.16- 203.16	188.42
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.678 (1.030)	95	1100	0.18532	0.4225	80.00- 120.00	100.00(a)
6.692	6.678 (1.032)	130	663			68.86- 128.86	60.31
6.685	6.678 (1.030)	97	615			32.82- 92.82	55.96
136 1,4-Dioxane					CAS #: 123-91-1		
7.022	7.008 (1.082)	88	1212	0.40632	0.9264	80.00- 120.00	100.00(a)
7.015	7.008 (1.081)	58	1498			79.36- 139.36	123.53
7.000	7.008 (1.079)	57	2174			6.63- 66.63	179.27
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.645	7.631 (1.178)	58	1470	0.21381	0.4875	80.00- 120.00	100.00(a)
7.624	7.631 (1.175)	43	5407			274.73- 334.73	367.86
7.638	7.631 (1.177)	85	828			0.00- 58.76	56.37
147 Toluene					CAS #: 108-88-3		
7.752	7.760 (1.195)	91	25839	1.58204	3.607	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	16437			27.05- 87.05	63.62
158 2-Hexanone					CAS #: 591-78-6		
8.325	8.318 (0.931)	58	2433	0.24157	0.5508	80.00- 120.00	100.00(a)
8.333	8.318 (0.932)	43	4488			189.79- 249.79	184.47
0.000	8.318 (0.000)	100	0			0.00- 43.05	0.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.006 (1.008)	106	4490	0.56072	1.278	80.00- 120.00	100.00
9.013	9.006 (1.008)	91	12789			294.90- 354.90	284.83
169 m,p-Xylene					CAS #: 108-38-3		
9.099	9.106 (1.018)	106	11643	1.15744	2.639	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	26021			185.23- 245.23	223.48
171 o-Xylene					CAS #: 95-47-6		
9.457	9.450 (1.058)	106	3411	0.34899	0.7957	80.00- 120.00	100.00(a)
9.450	9.450 (1.057)	91	8229			194.61- 254.61	241.22
172 Styrene					CAS #: 100-42-5		
9.464	9.472 (1.058)	104	2061	0.12805	0.2920	80.00- 120.00	100.00(a)
9.457	9.472 (1.058)	78	707			26.13- 86.13	34.33
188 4-Ethyltoluene					CAS #: 622-96-8		
10.166	10.174 (1.137)	120	3131	0.33134	0.7554	80.00- 120.00	100.00(a)
10.159	10.174 (1.136)	105	9140			305.47- 365.47	291.87
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.568	10.553 (1.182)	105	3655	0.13453	0.3067	80.00- 120.00	100.00(a)
10.553	10.553 (1.180)	120	1500			13.81- 73.81	41.04
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.702	12.688 (1.421)	180	2010	0.13783	0.3143	80.00- 120.00	100.00(a)
12.695	12.688 (1.420)	182	865			64.08- 124.08	43.02
228 Naphthalene					CAS #: 91-20-3		
12.974	12.967 (1.451)	128	4151	0.10995	0.2507	80.00- 120.00	100.00(a)
12.974	12.960 (1.451)	127	256			0.00- 42.95	6.18

QC Flag Legend

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

Report Date: 04-Nov-2015 07:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110218.d
Lab Smp Id: 1510593-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.5 Hg->14.9 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	106758	-2.74
123 1,4-Difluorobenze	462095	277257	646933	426368	-7.73
163 Chlorobenzene-d5	458379	275027	641731	466298	1.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 04-Nov-2015 07:00

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name: Client SDG: 02nov15
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1510593-06A
Level: LOW Operator: js
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.5 Hg->14.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	28.321	113.28	70-130
$ 146 Toluene-d8	25.000	27.474	109.90	70-130
$ 177 4-Bromofluorobenze	25.000	25.137	100.55	70-130

Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

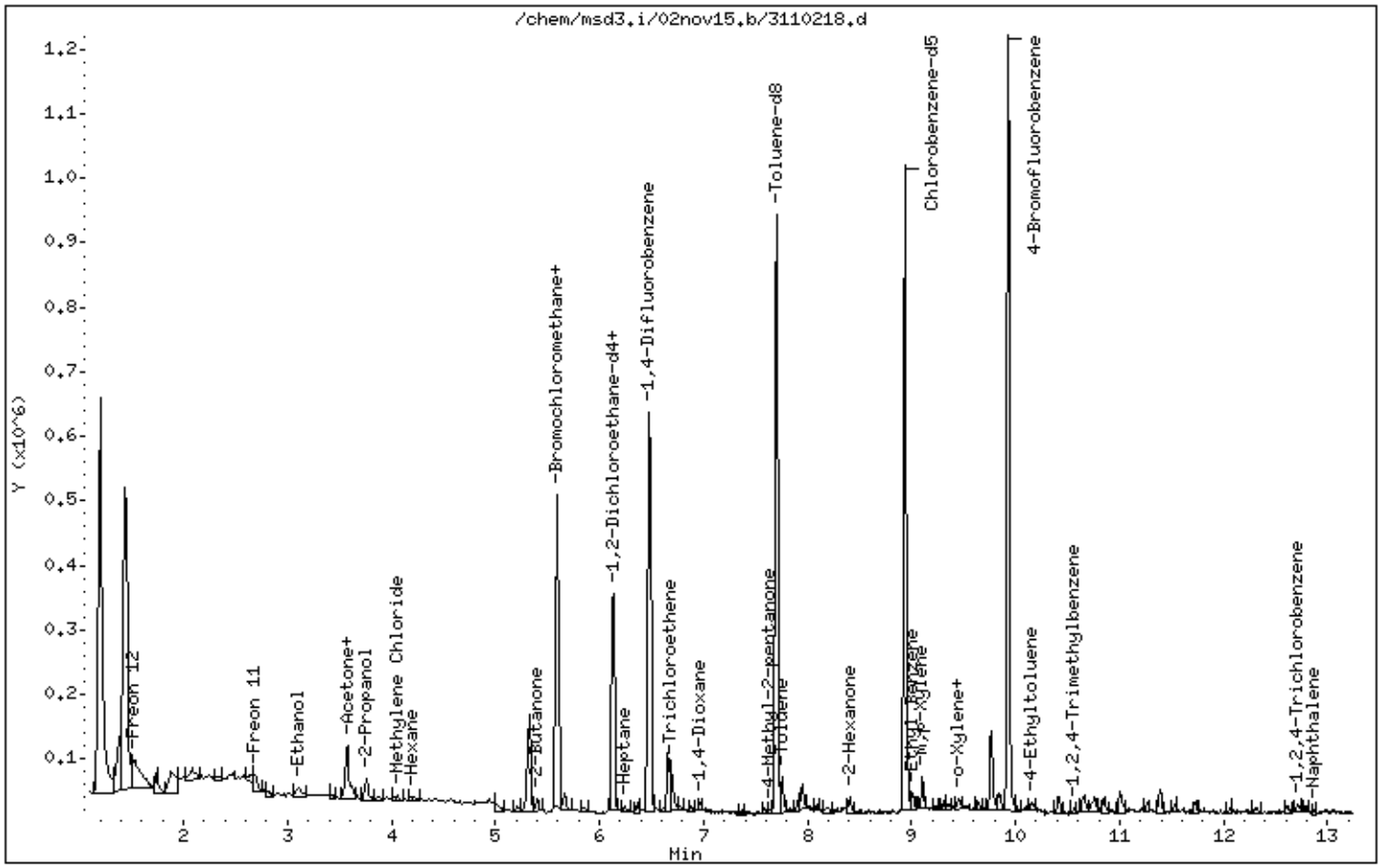
Instrument: msd3.i

Sample Info: 200ml 37317

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

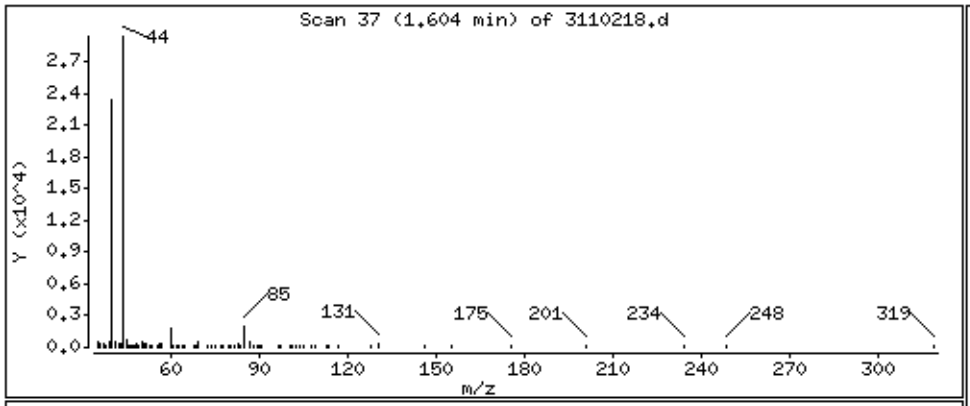
Operator: js

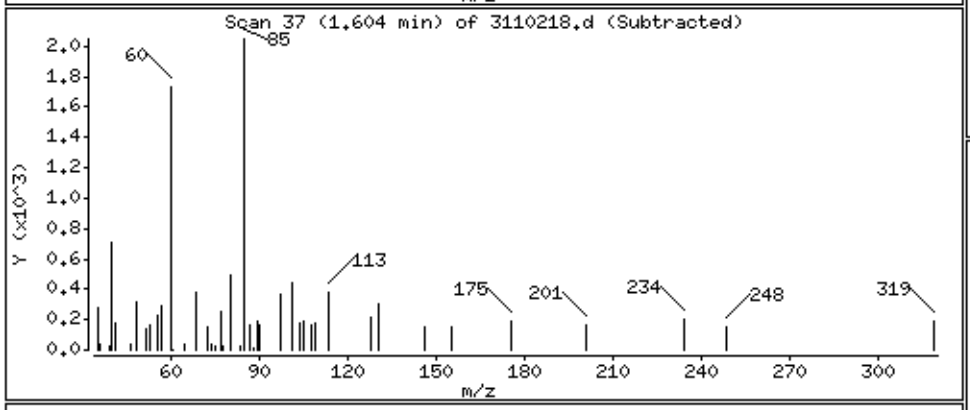
Column phase: RTX-624

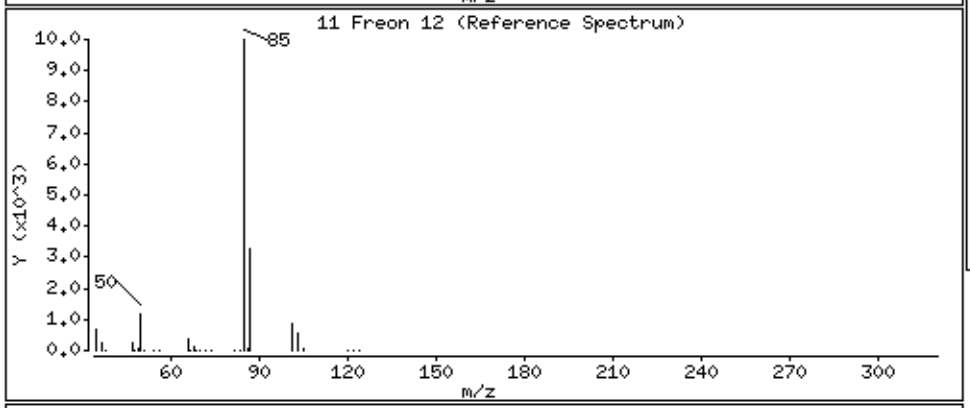
Column diameter: 0.25

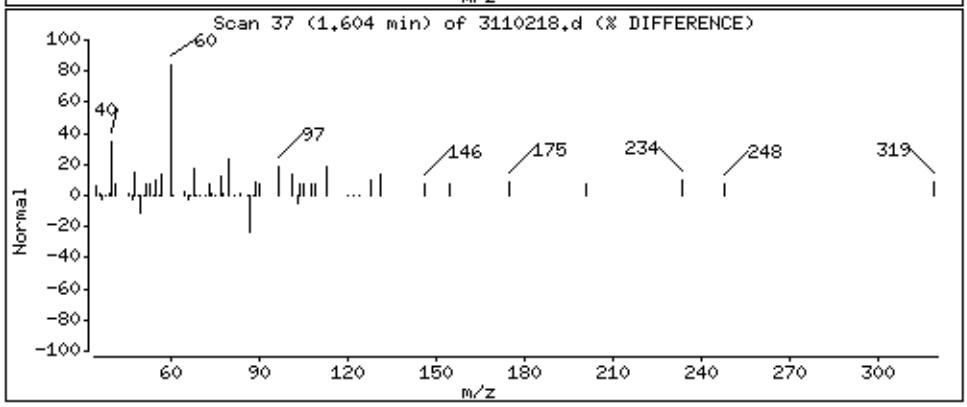
11 Freon 12

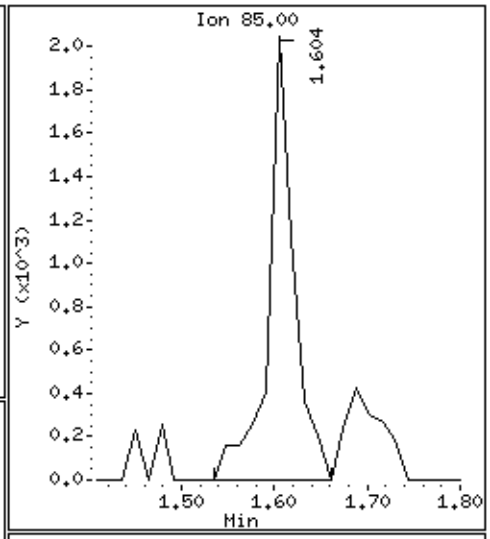
Concentration: 0.8096 PPBV

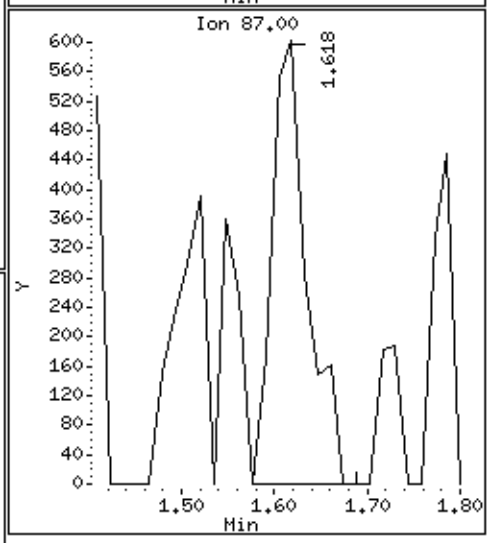












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

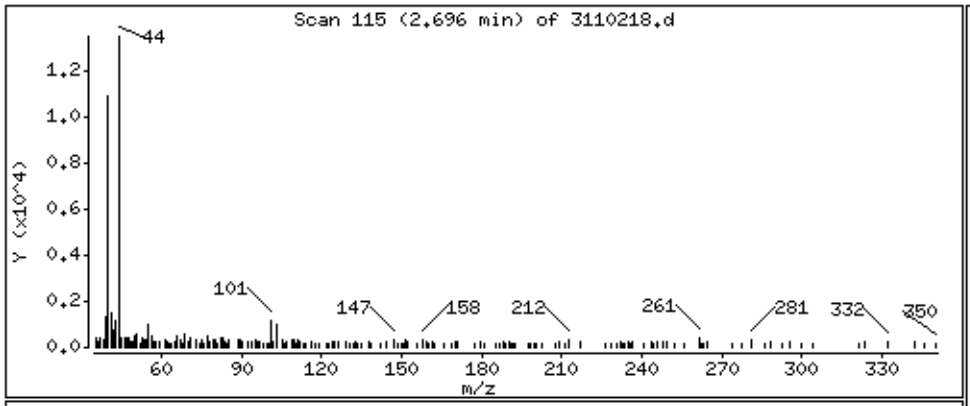
Operator: js

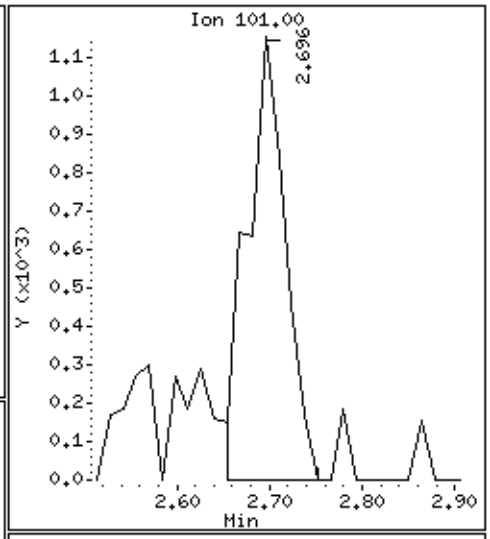
Column phase: RTX-624

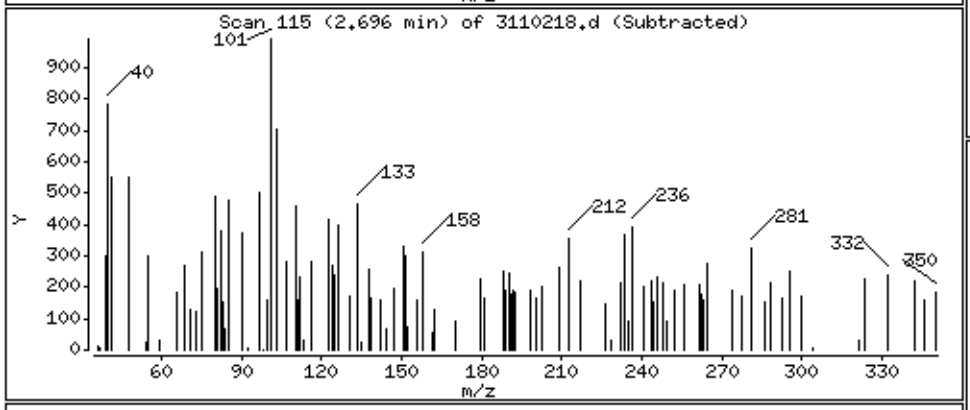
Column diameter: 0.25

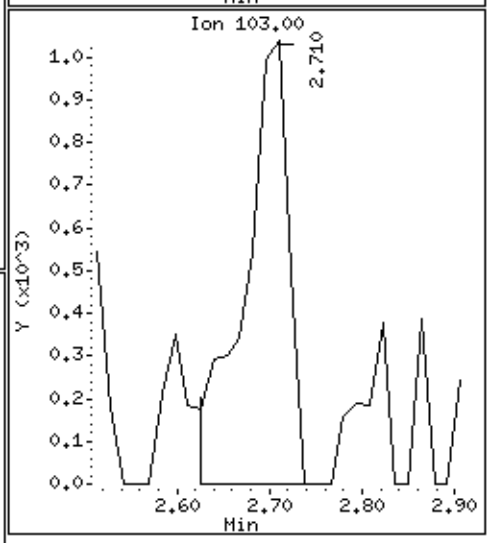
35 Freon 11

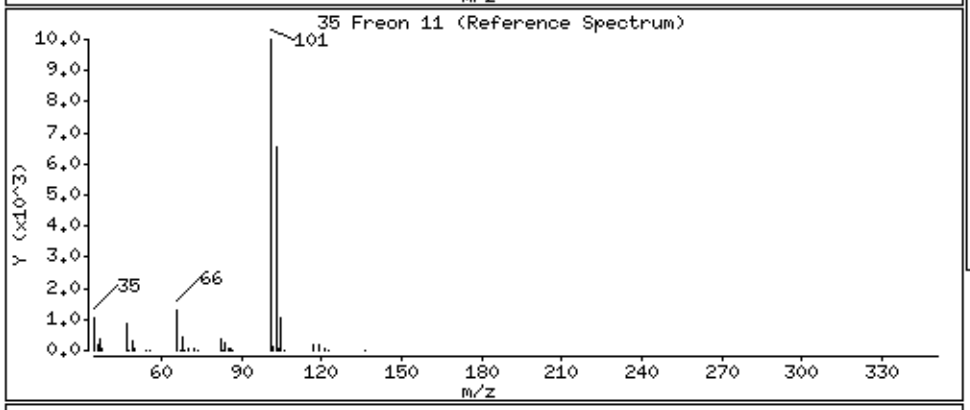
Concentration: 0.5578 PPBV

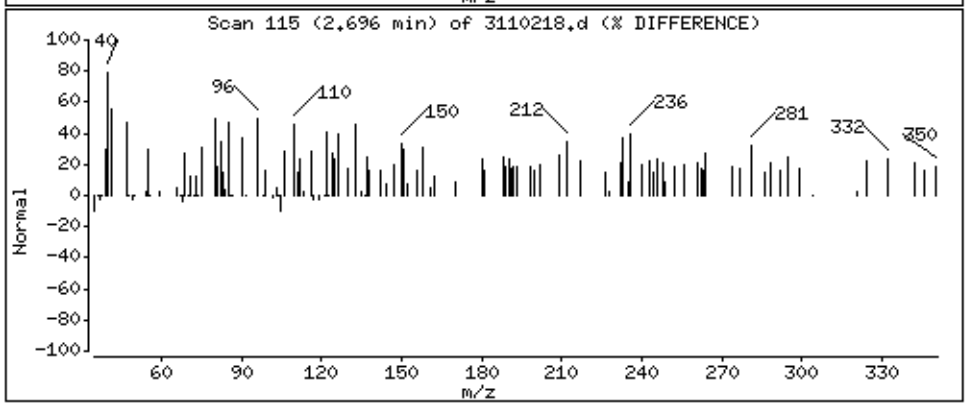












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

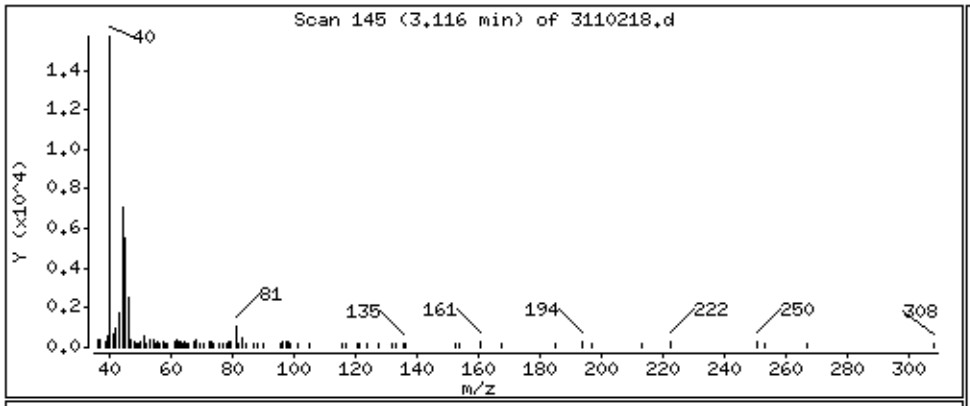
Operator: js

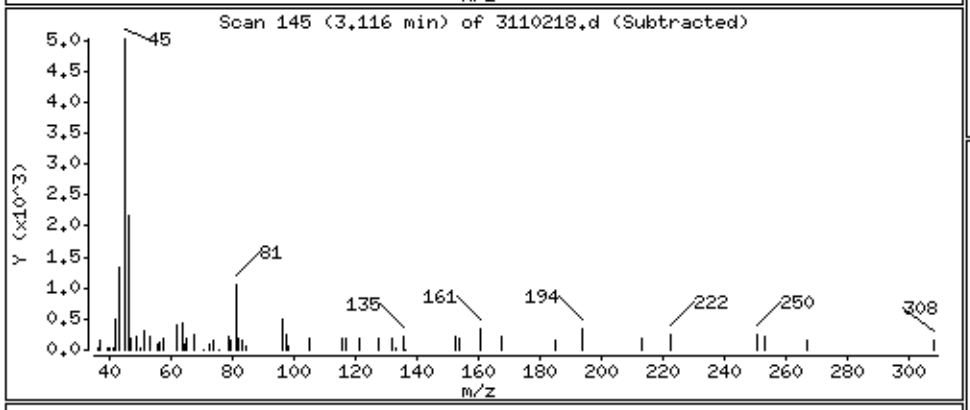
Column phase: RTX-624

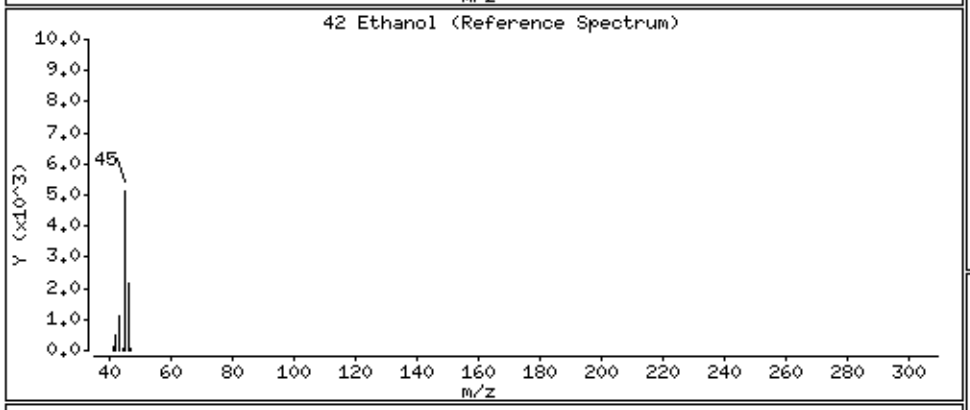
Column diameter: 0.25

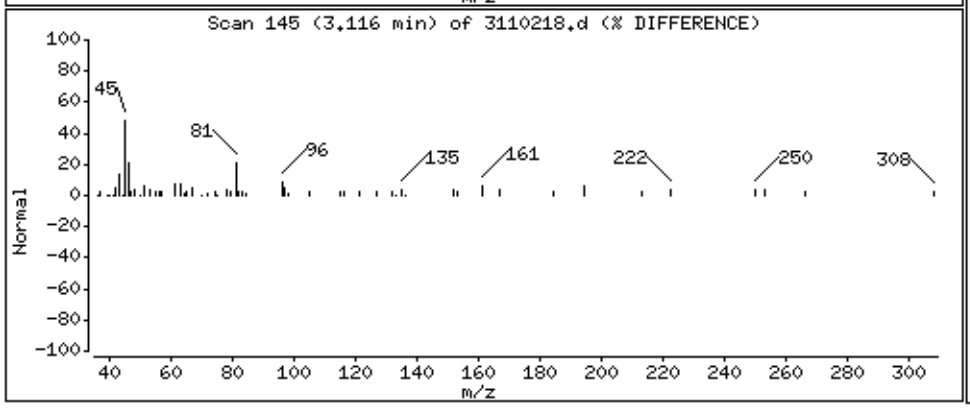
42 Ethanol

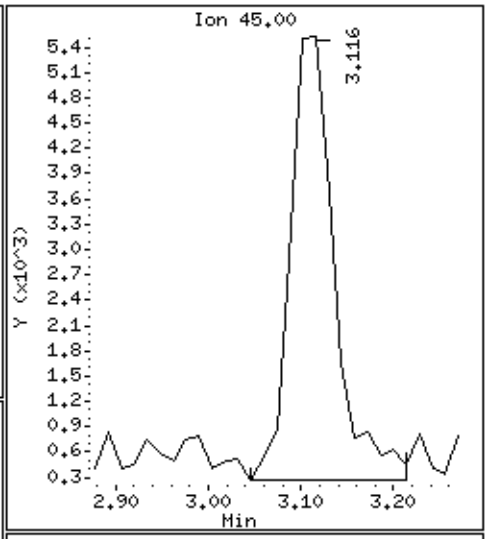
Concentration: 14.344 PPBV

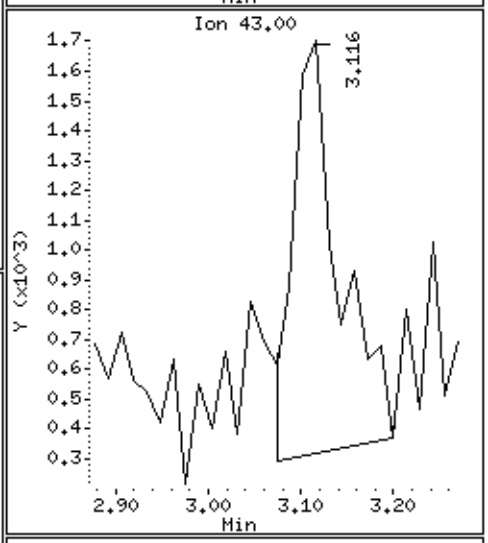


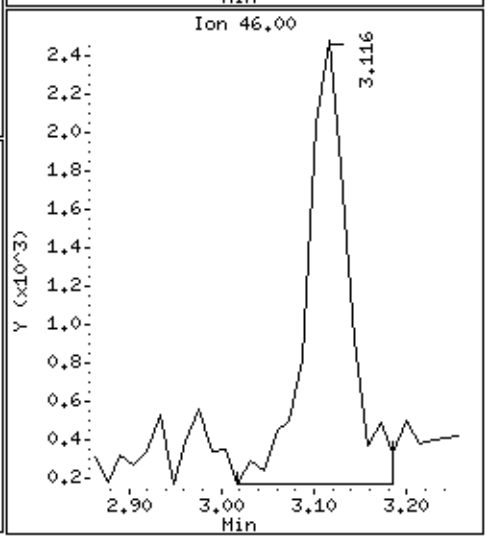












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

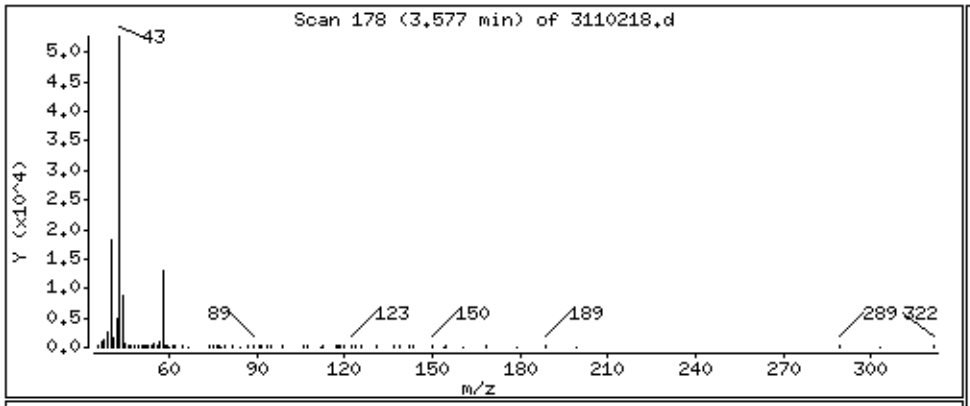
Operator: js

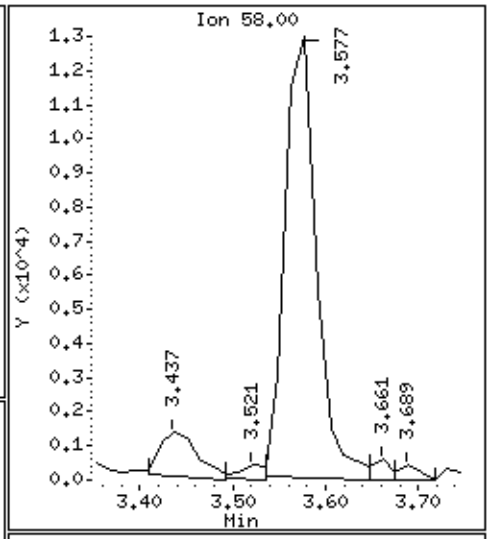
Column phase: RTX-624

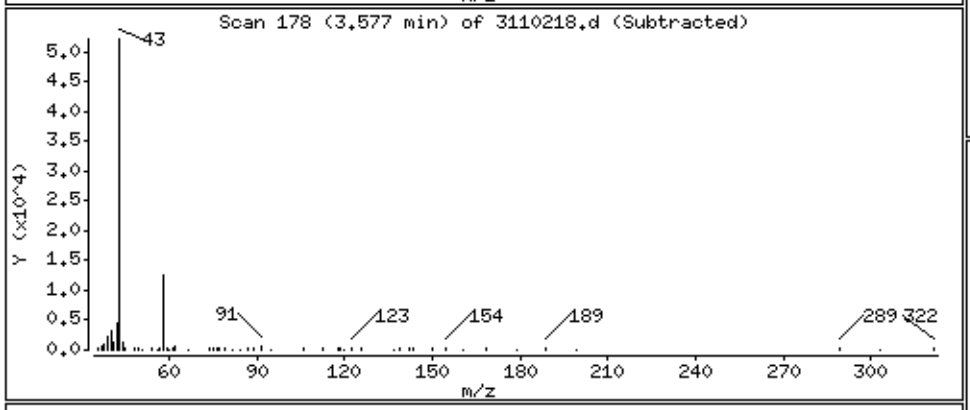
Column diameter: 0.25

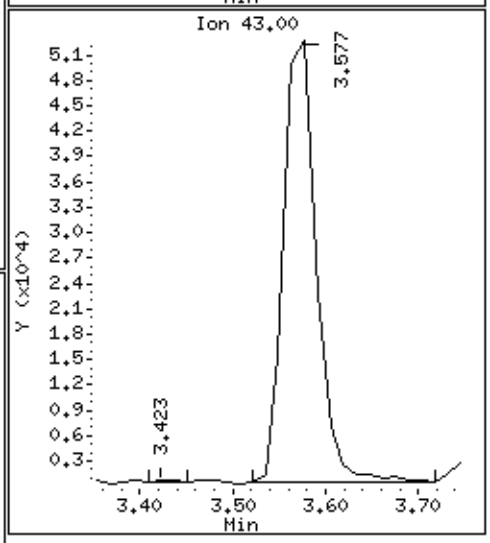
52 Acetone

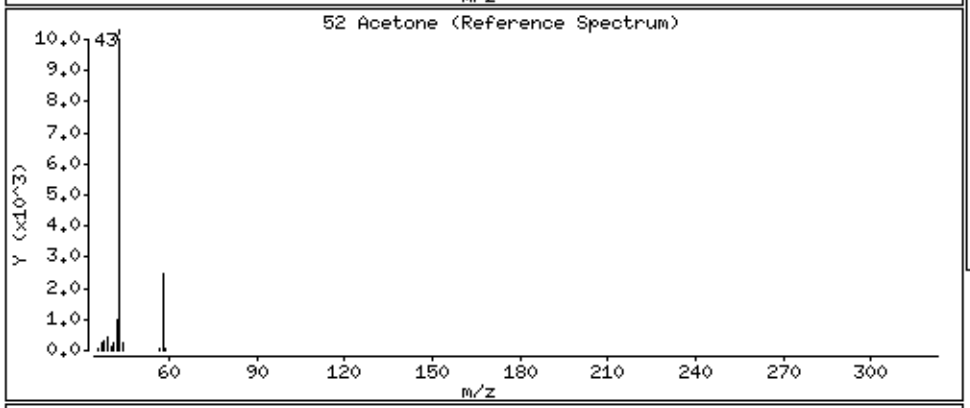
Concentration: 23.689 PPBV

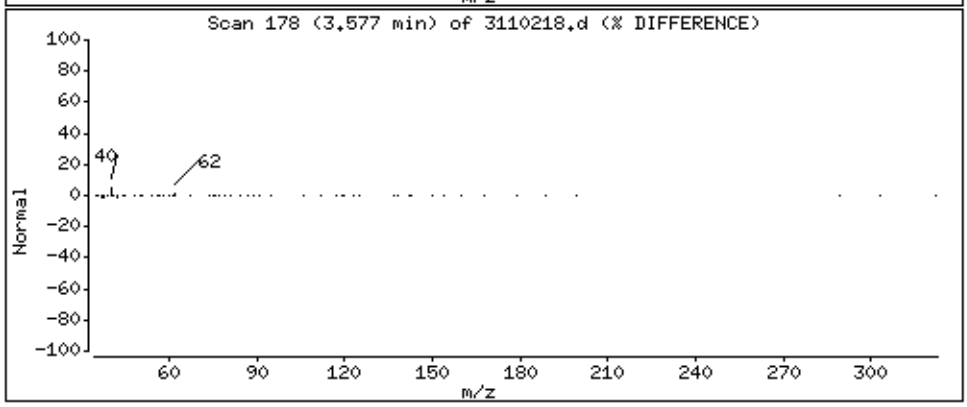












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

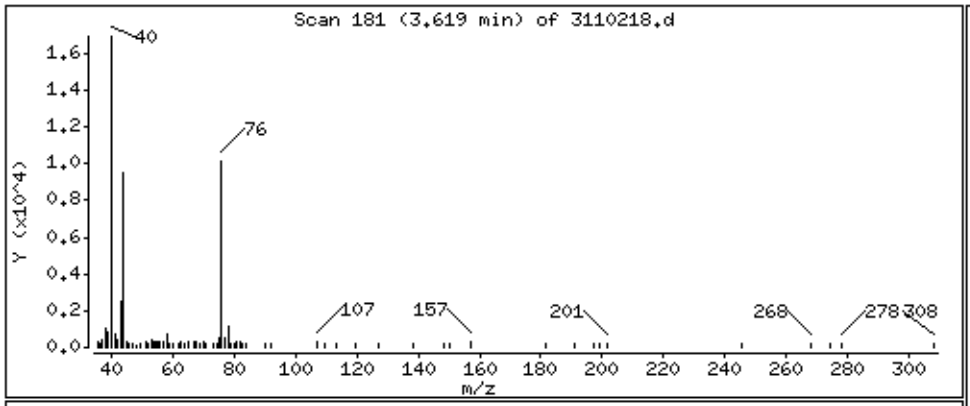
Operator: js

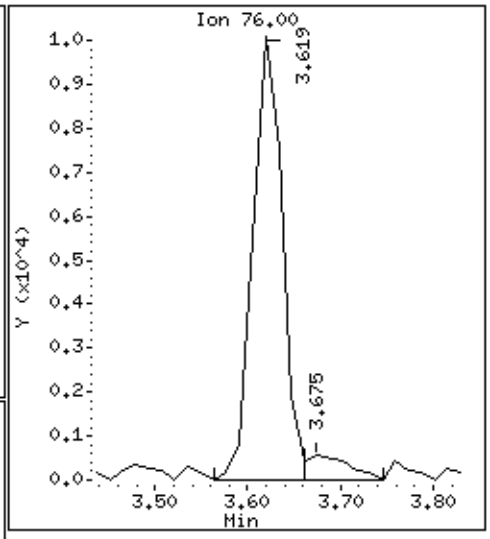
Column phase: RTX-624

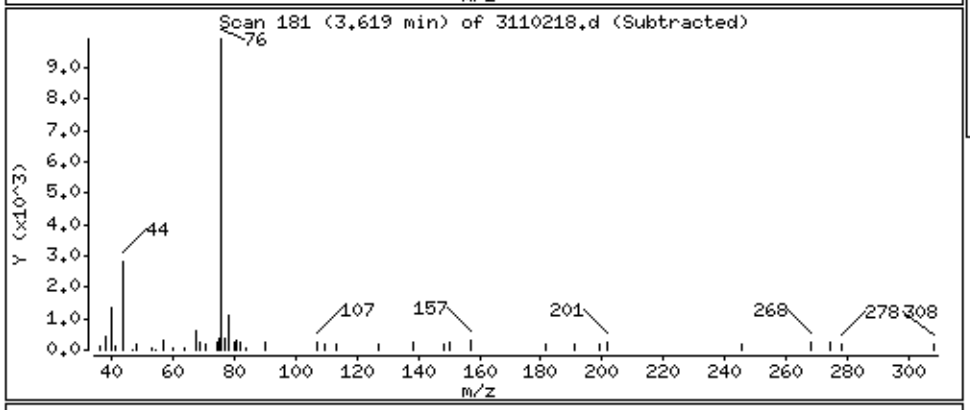
Column diameter: 0.25

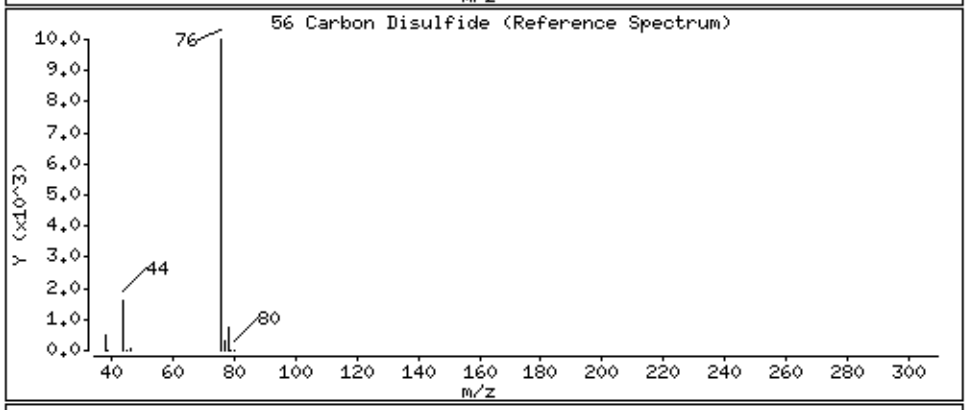
56 Carbon Disulfide

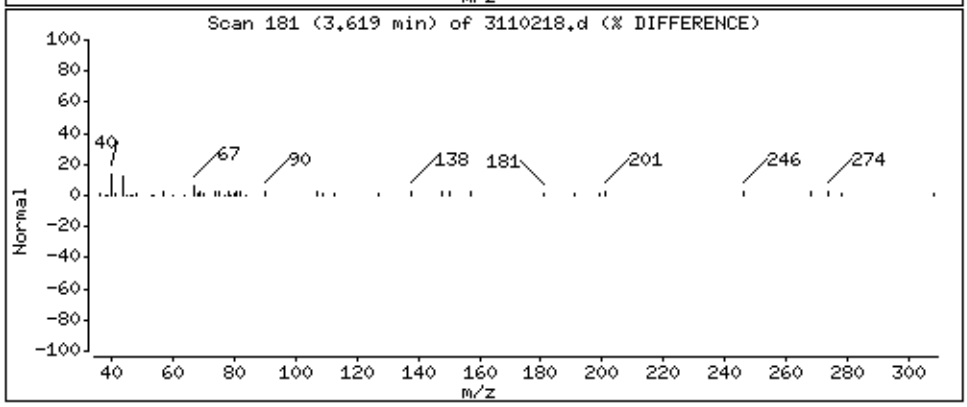
Concentration: 4.705 PPBV











Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

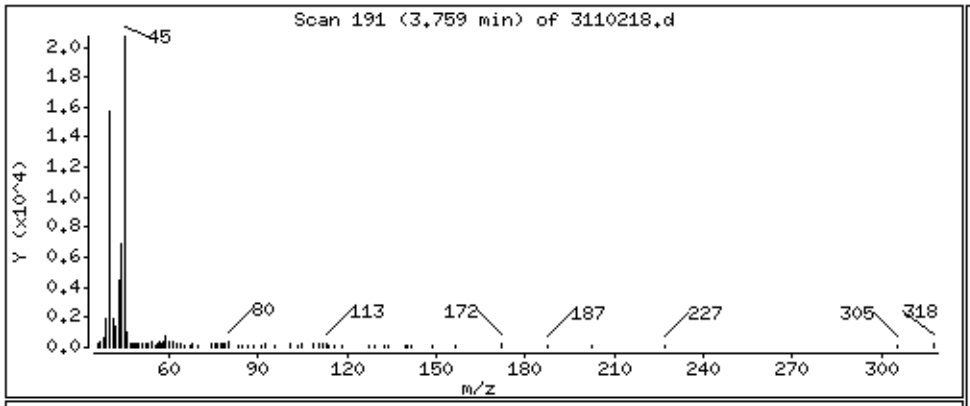
Operator: js

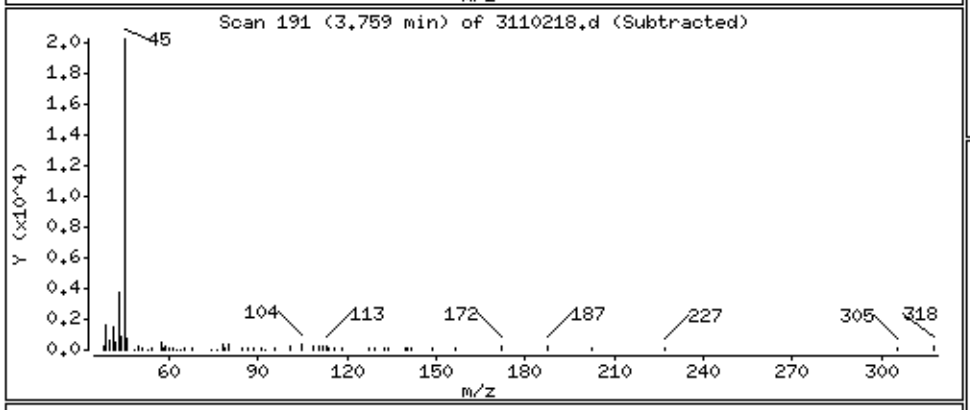
Column phase: RTX-624

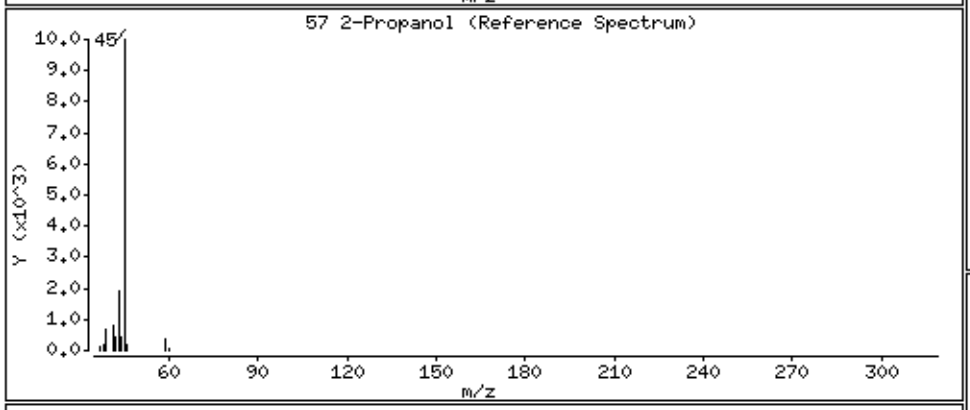
Column diameter: 0.25

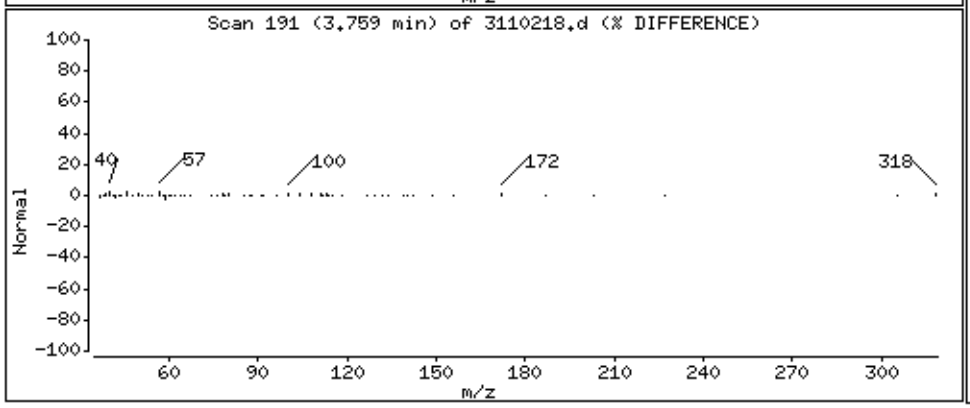
57 2-Propanol

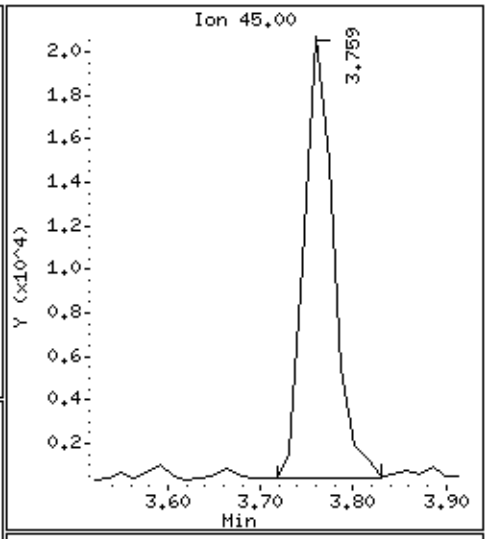
Concentration: 8.217 PPBV

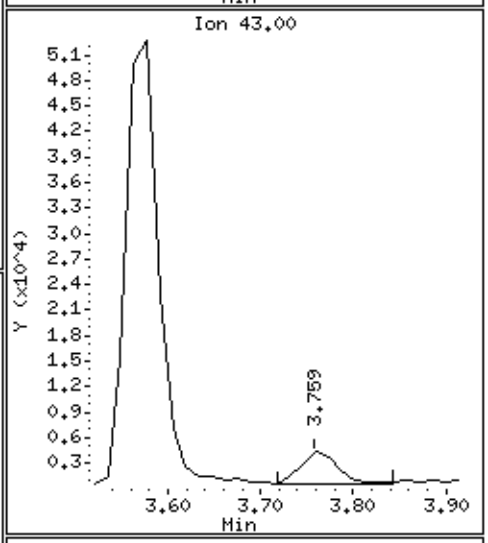


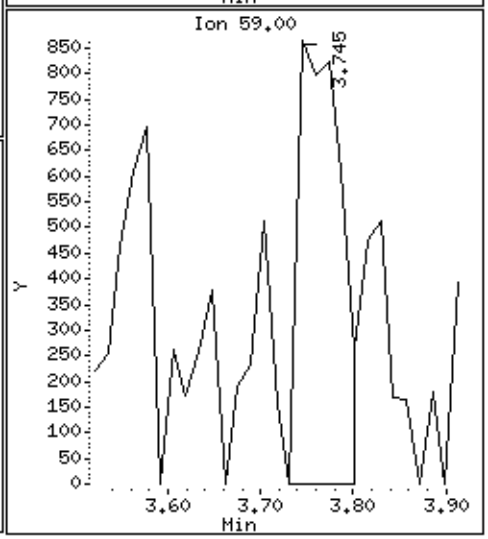












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

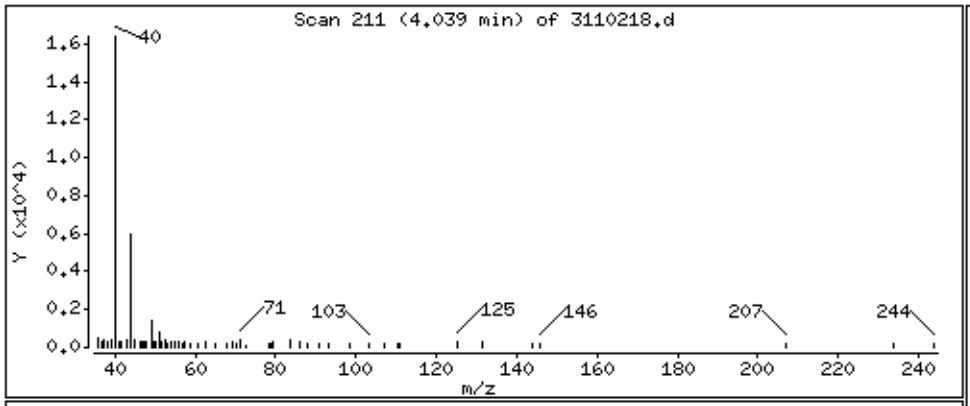
Operator: js

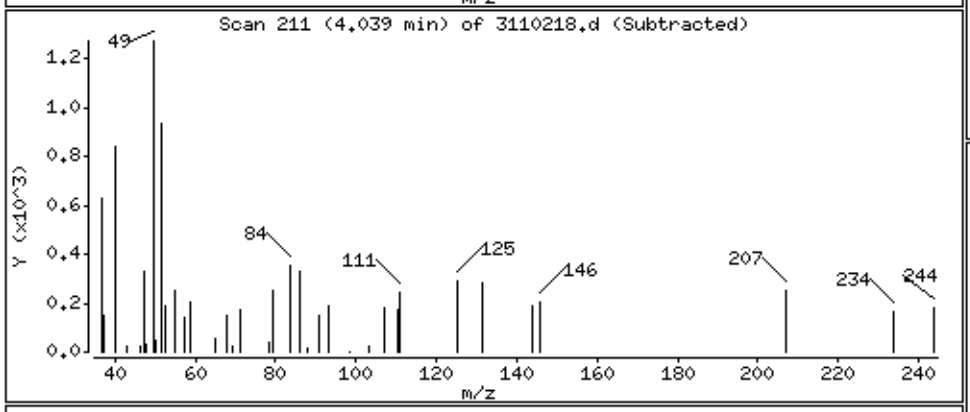
Column phase: RTX-624

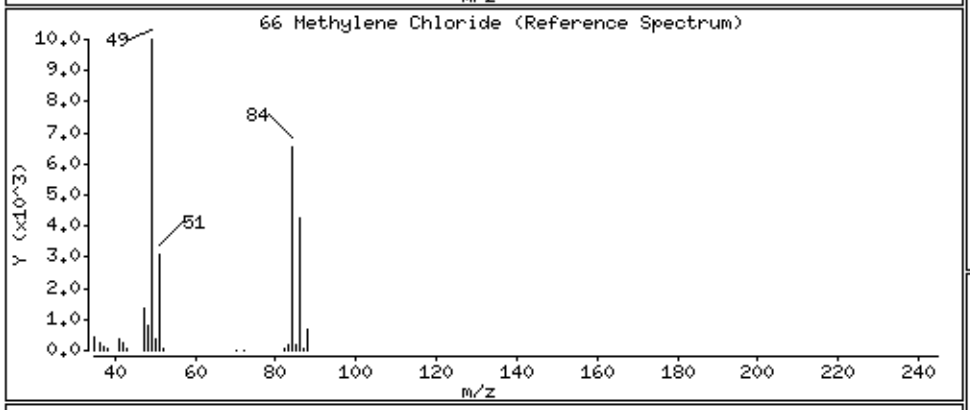
Column diameter: 0.25

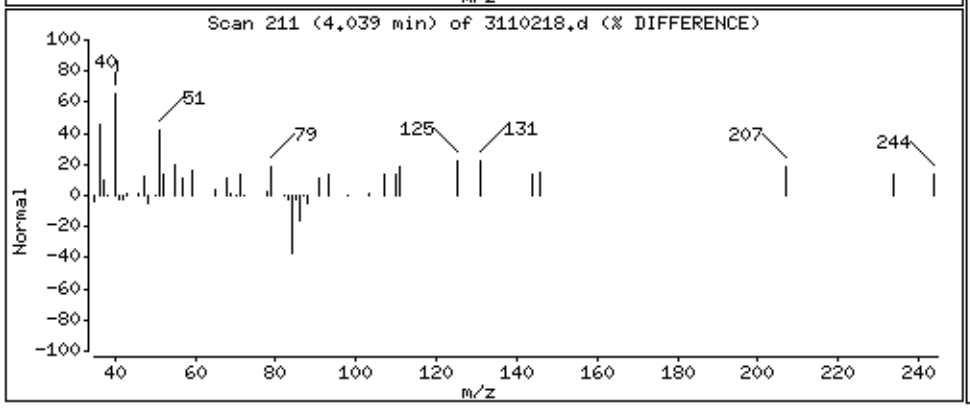
66 Methylene Chloride

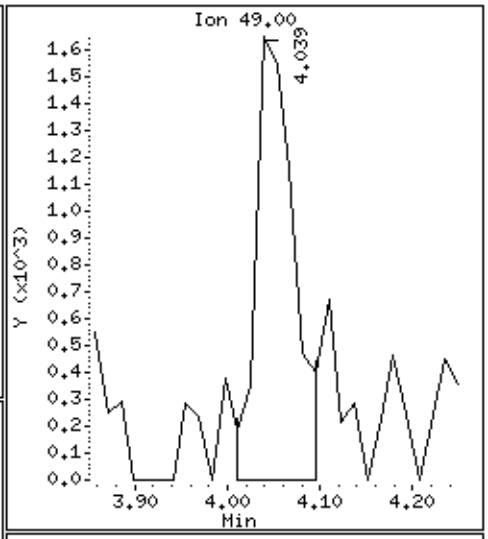
Concentration: 1.246 PPBV

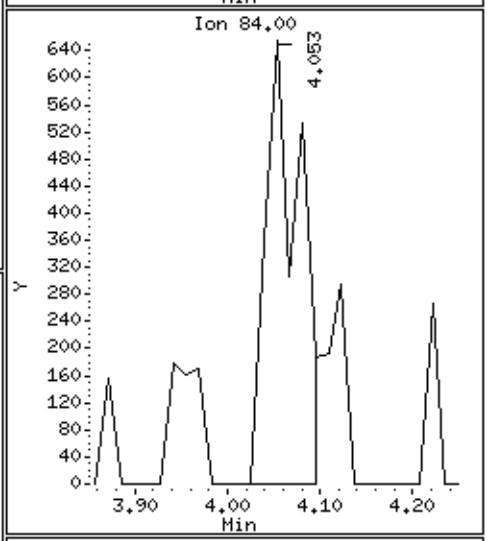


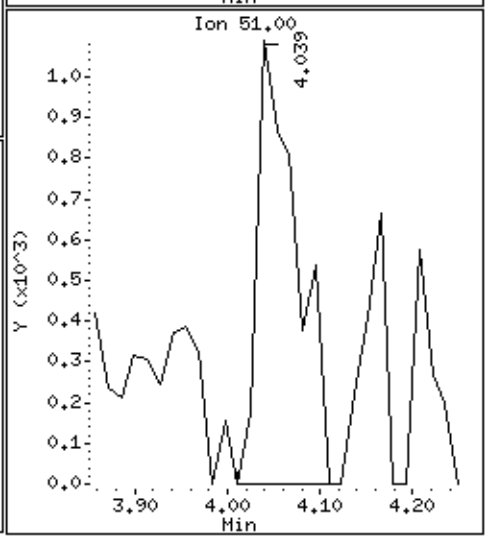












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

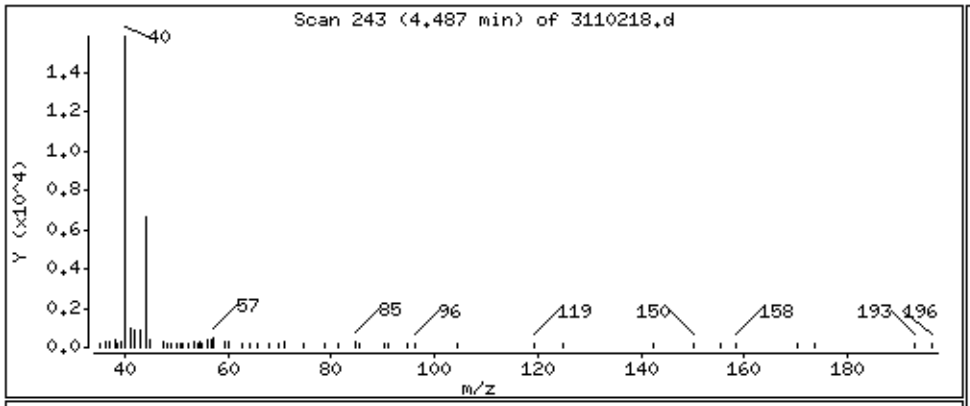
Operator: js

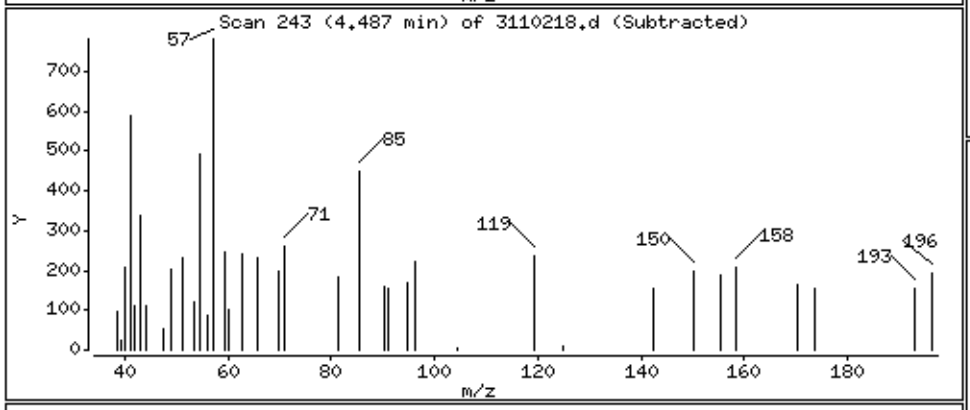
Column phase: RTX-624

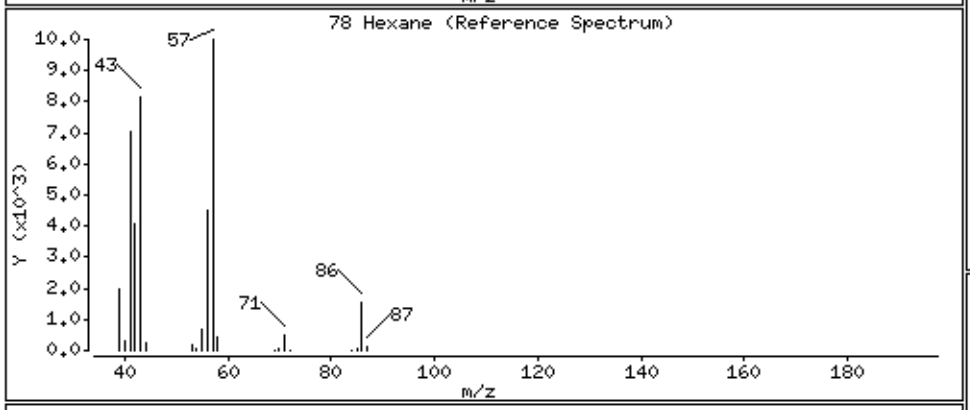
Column diameter: 0.25

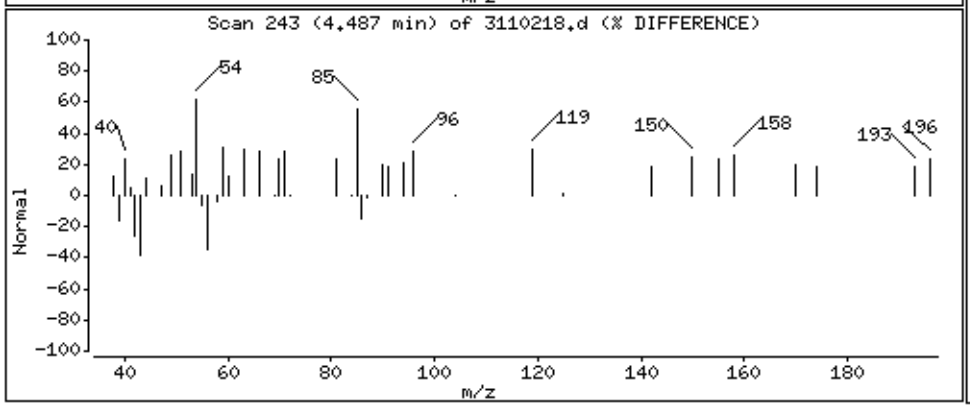
78 Hexane

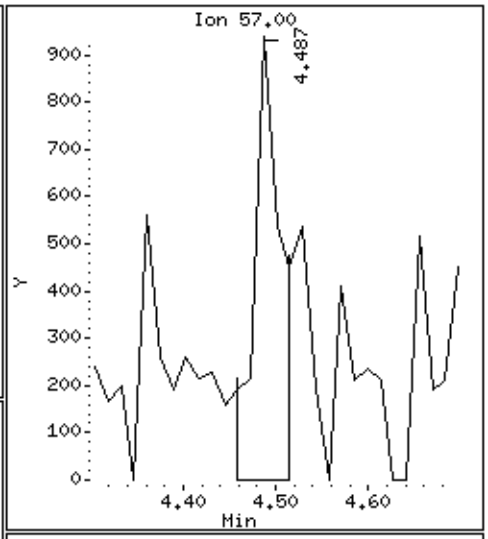
Concentration: 0.4435 PPBV

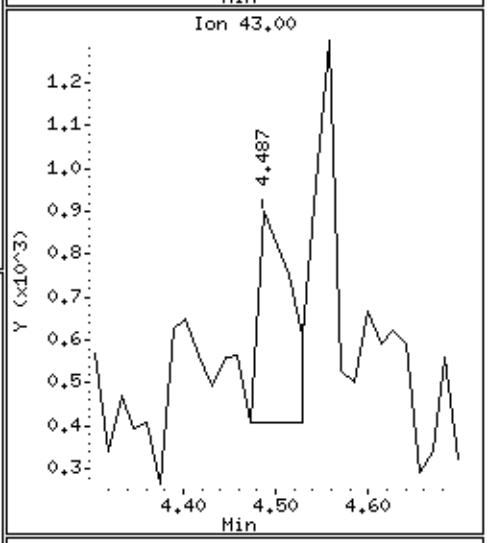


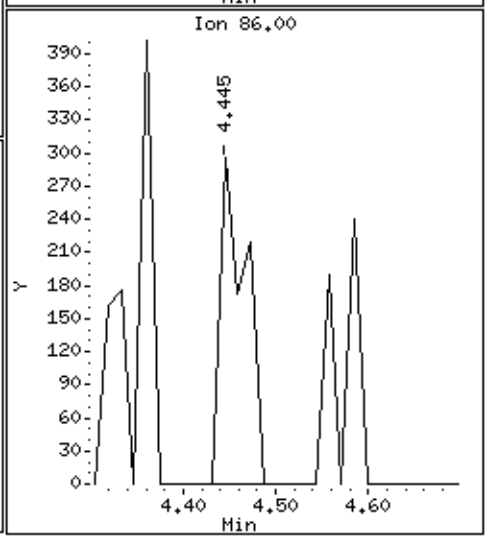












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

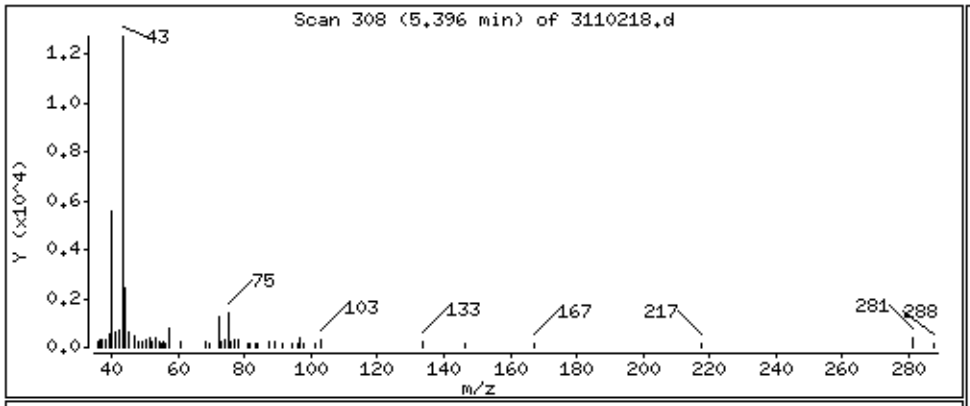
Operator: js

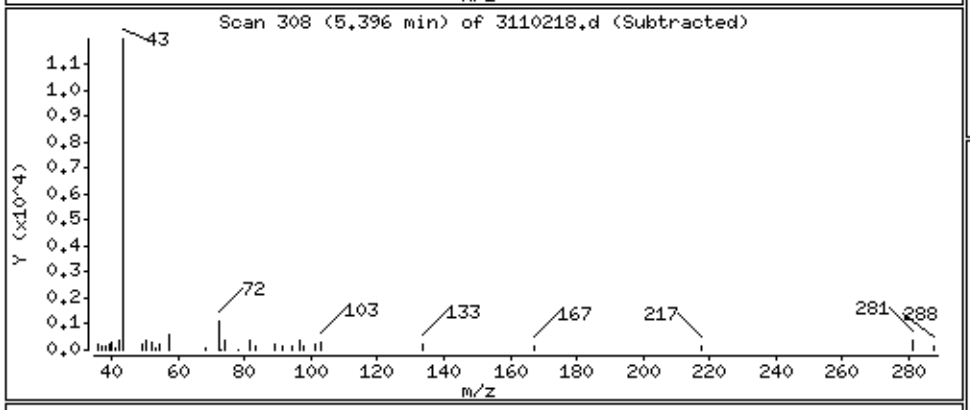
Column phase: RTX-624

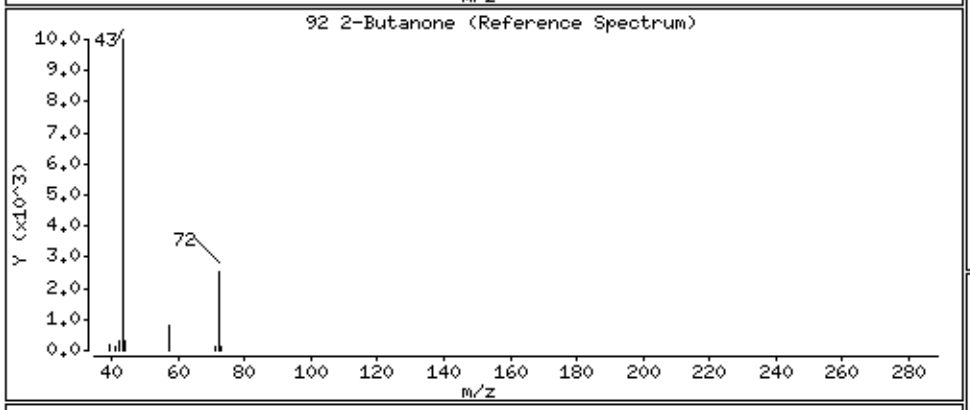
Column diameter: 0.25

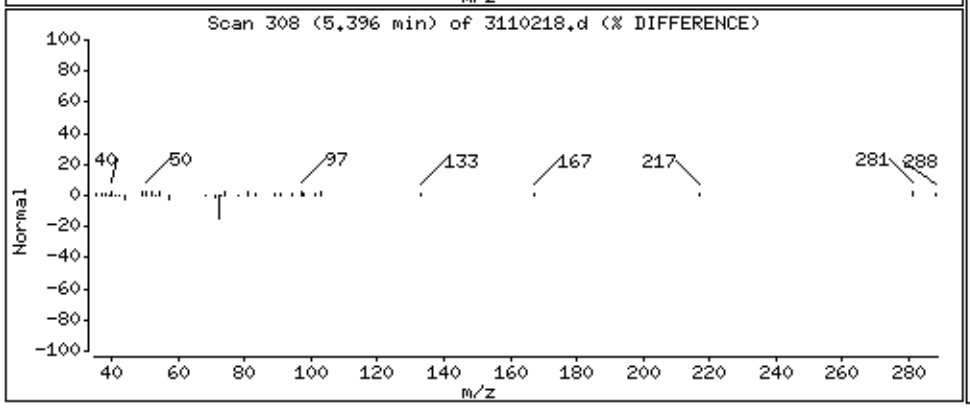
92 2-Butanone

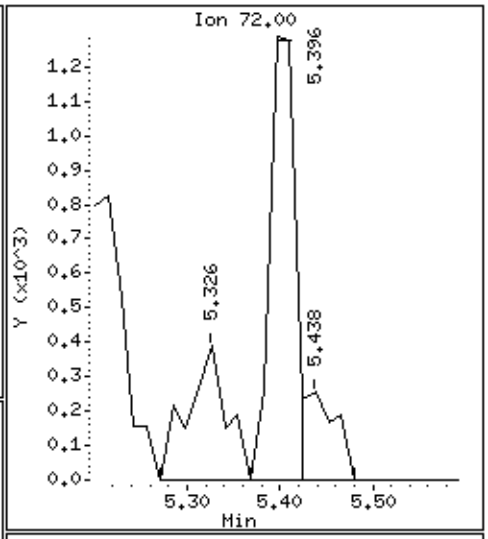
Concentration: 2.888 PPBV

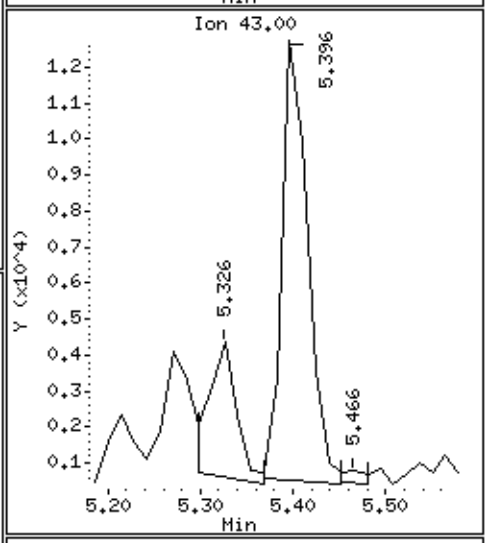


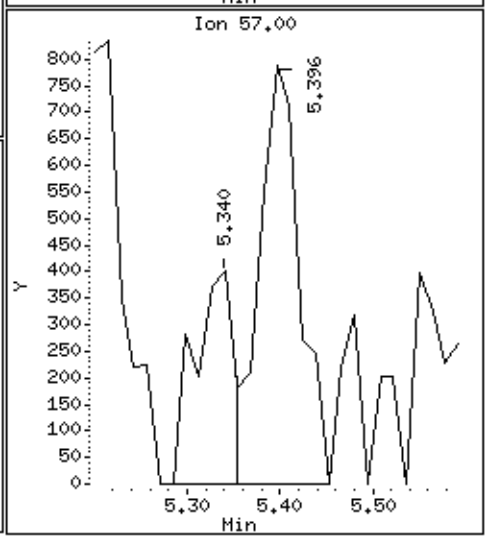












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

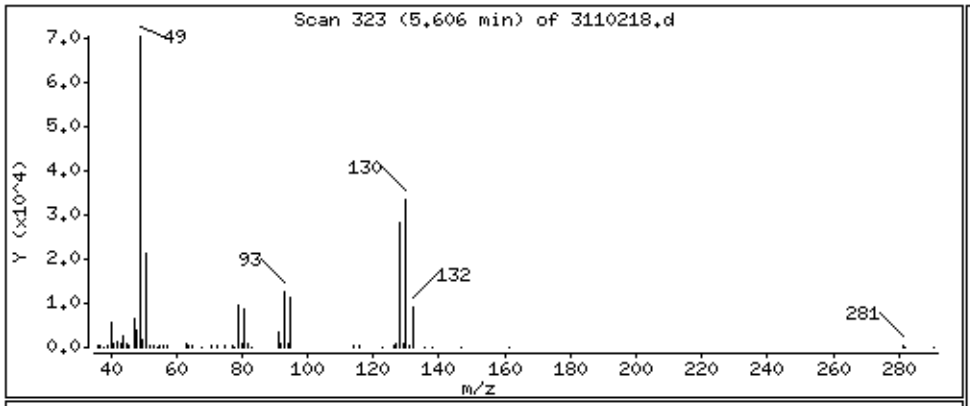
Operator: js

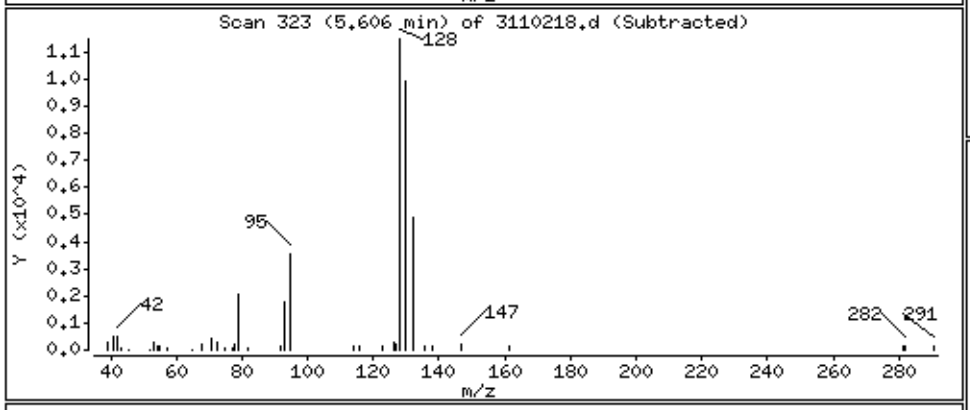
Column phase: RTX-624

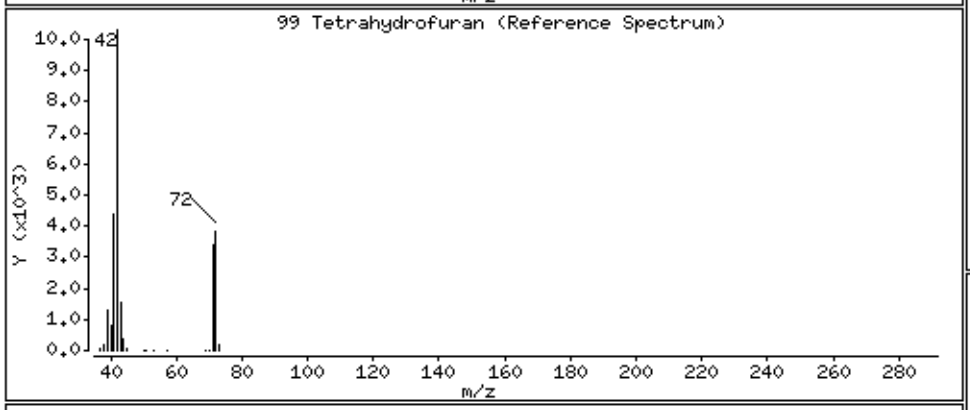
Column diameter: 0.25

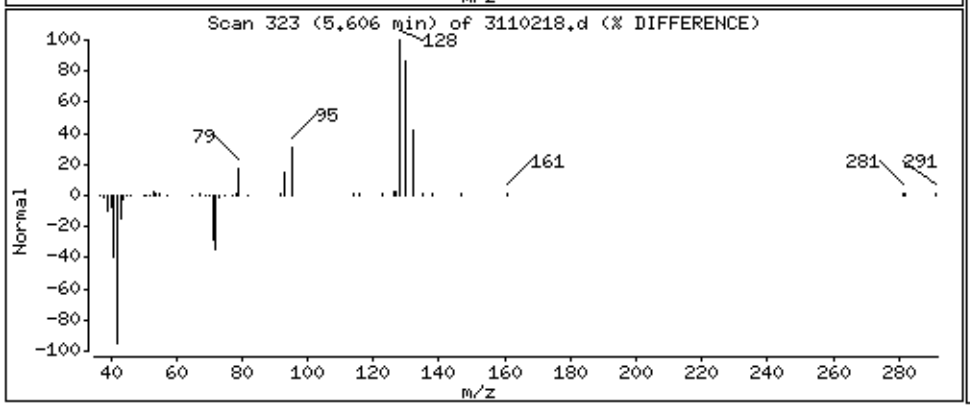
99 Tetrahydrofuran

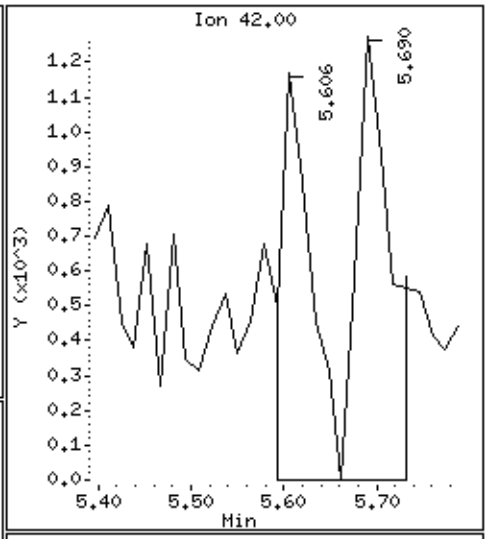
Concentration: 0.7010 PPBV

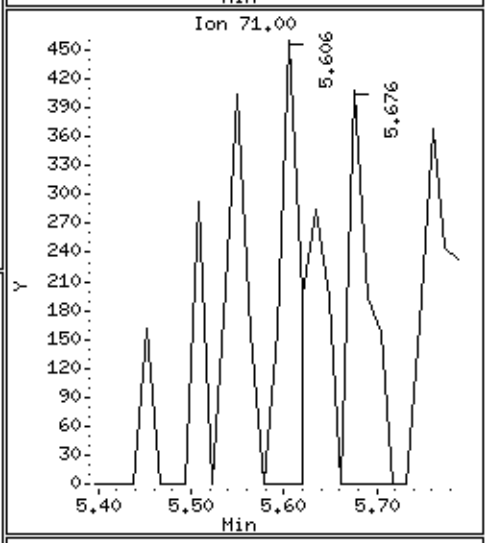


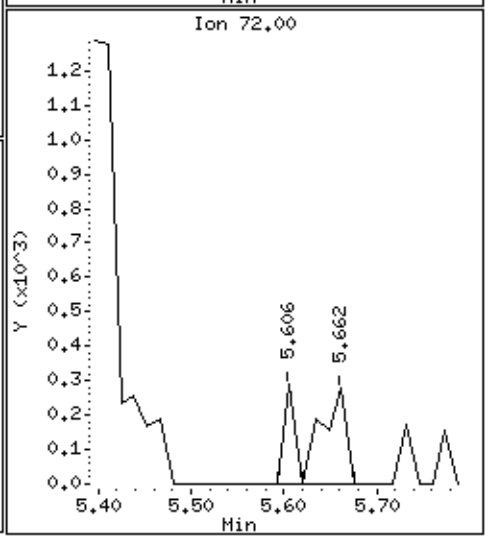












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

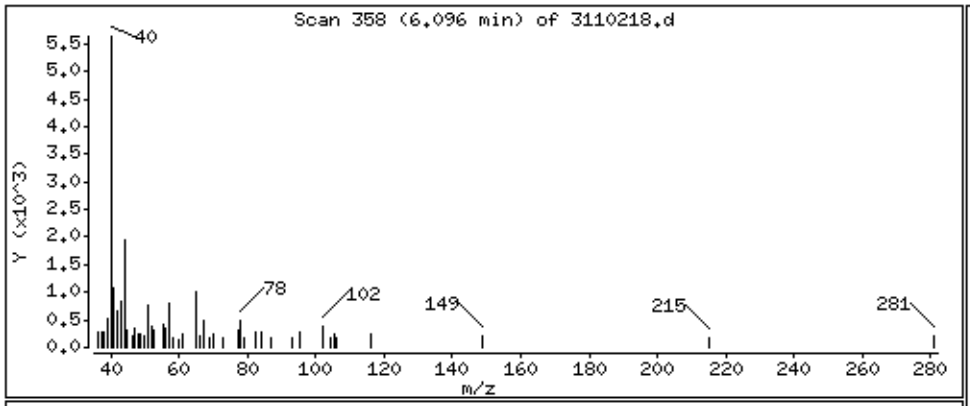
Operator: js

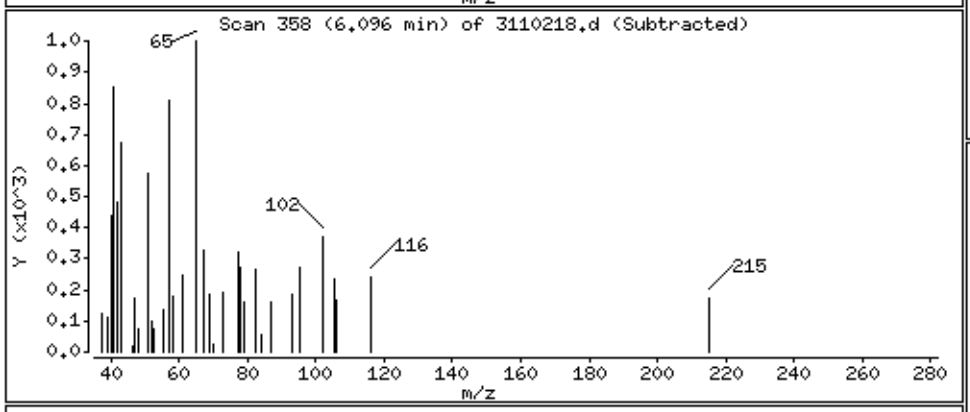
Column phase: RTX-624

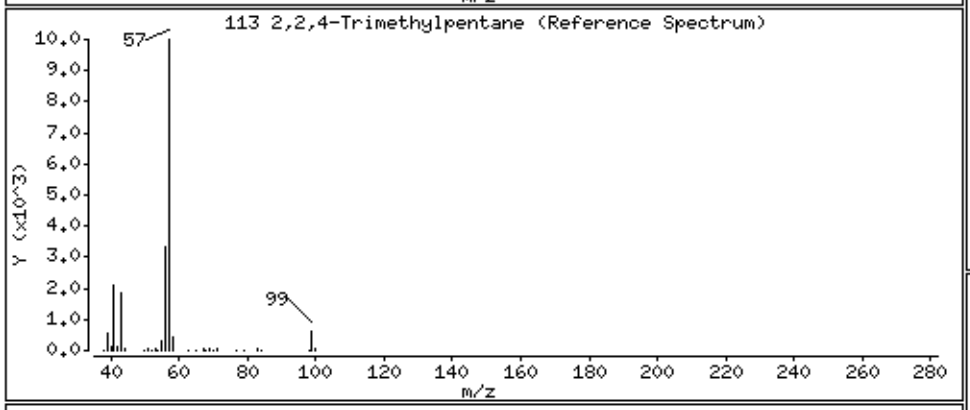
Column diameter: 0.25

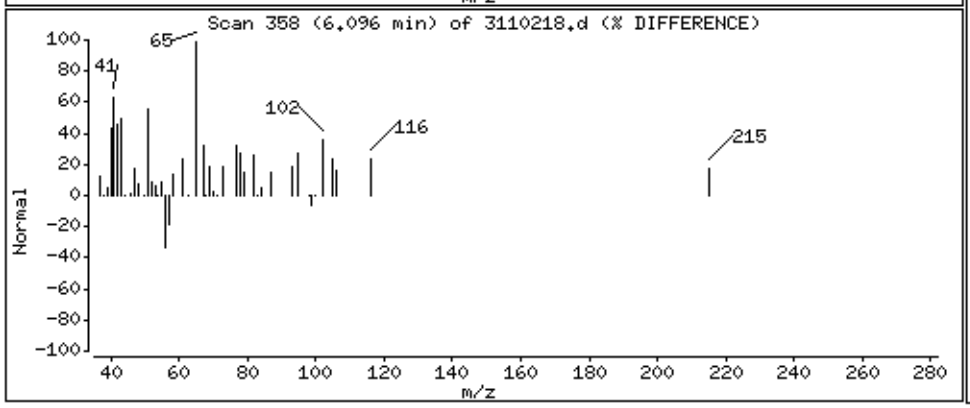
113 2,2,4-Trimethylpentane

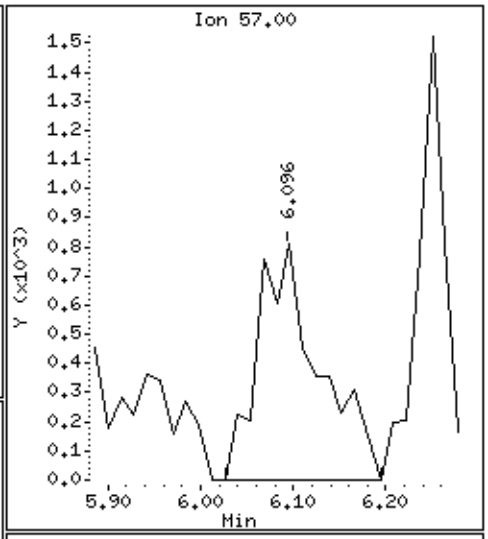
Concentration: 0.2455 PPBV

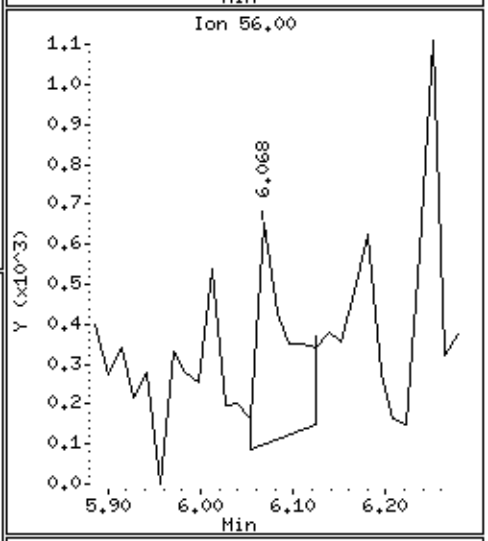


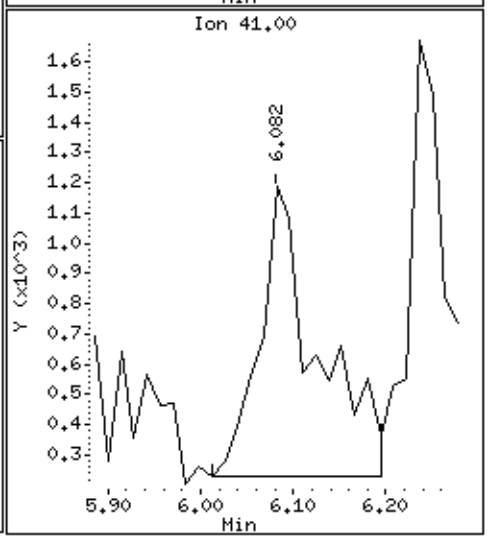












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

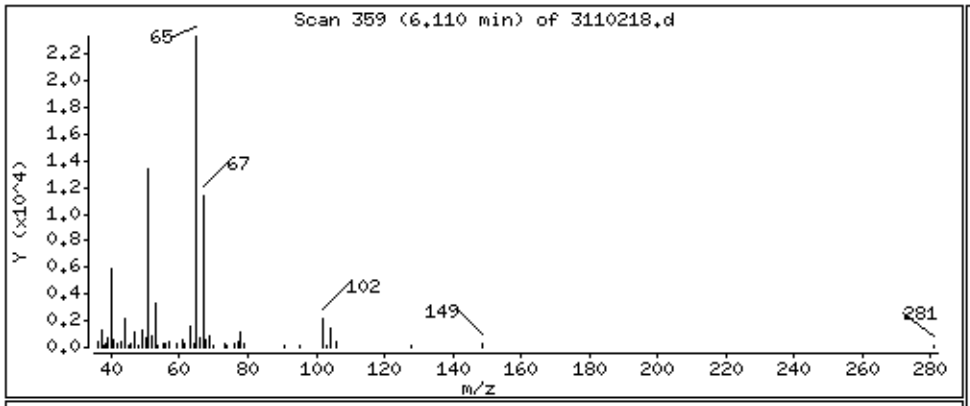
Operator: js

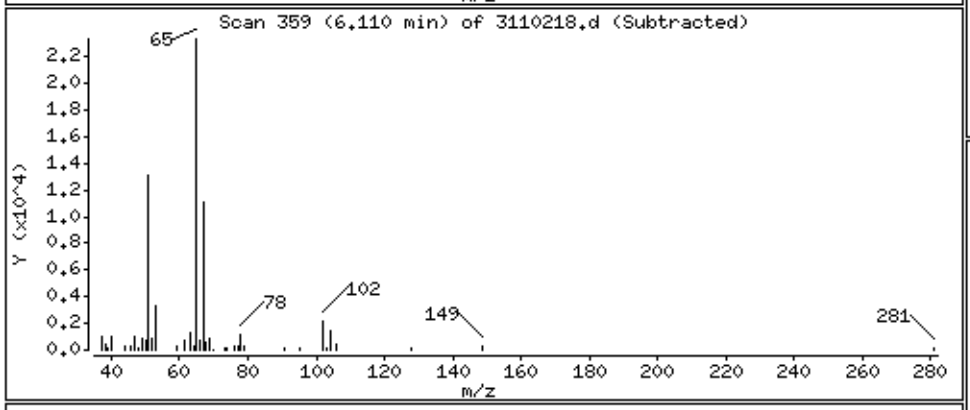
Column phase: RTX-624

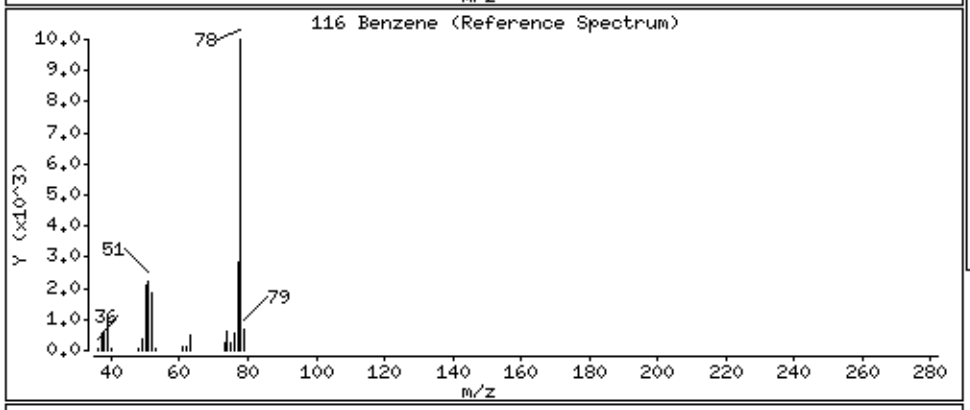
Column diameter: 0.25

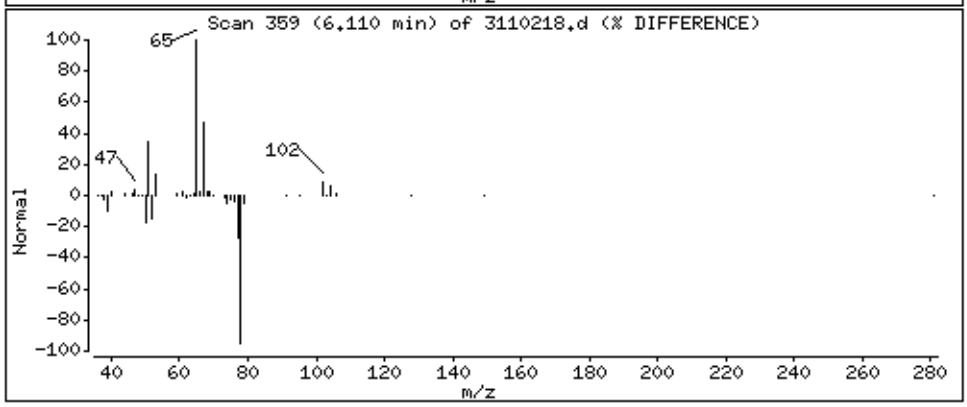
116 Benzene

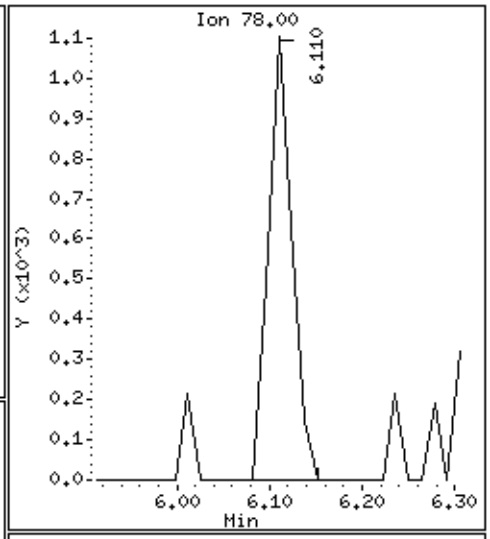
Concentration: 0.3846 PPBV

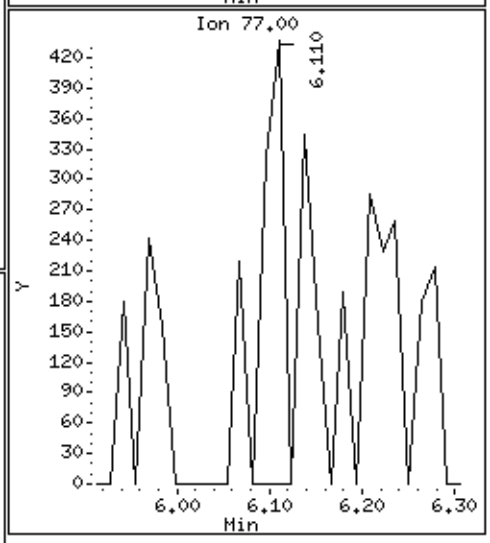












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

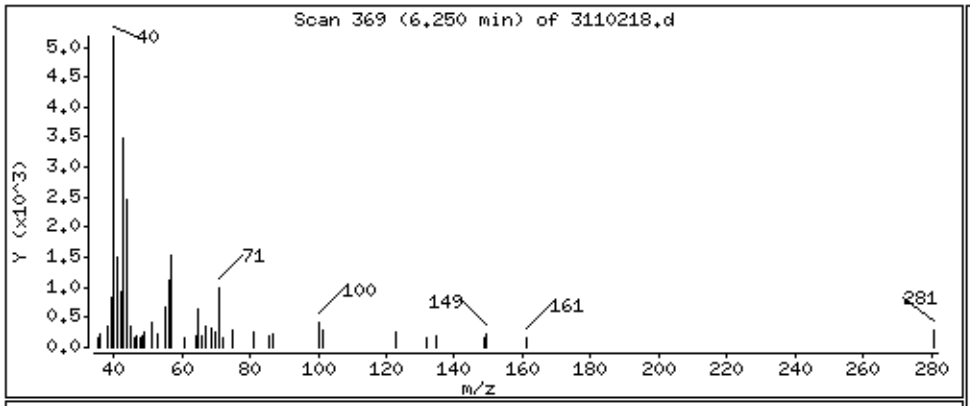
Operator: js

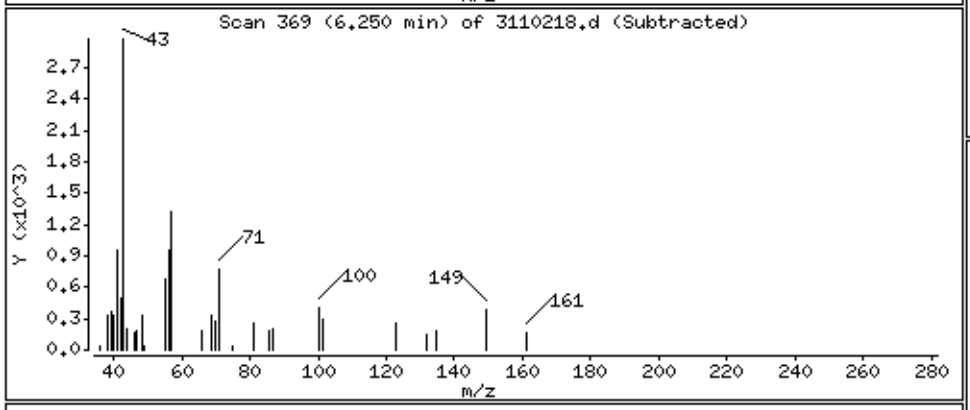
Column phase: RTX-624

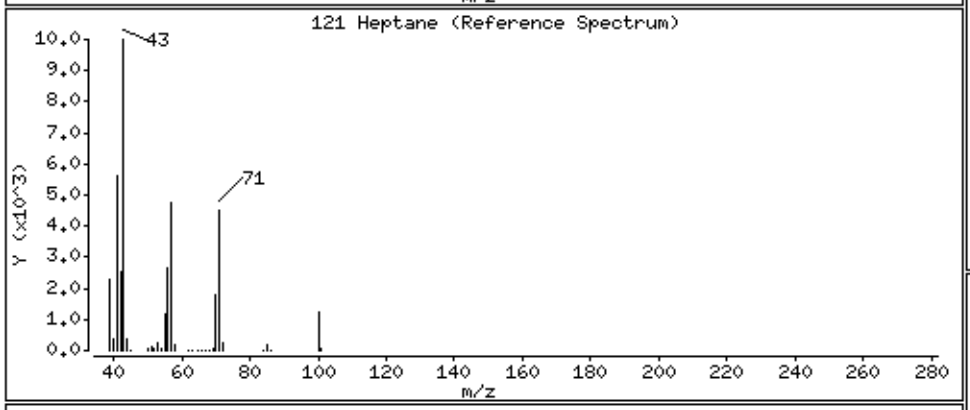
Column diameter: 0.25

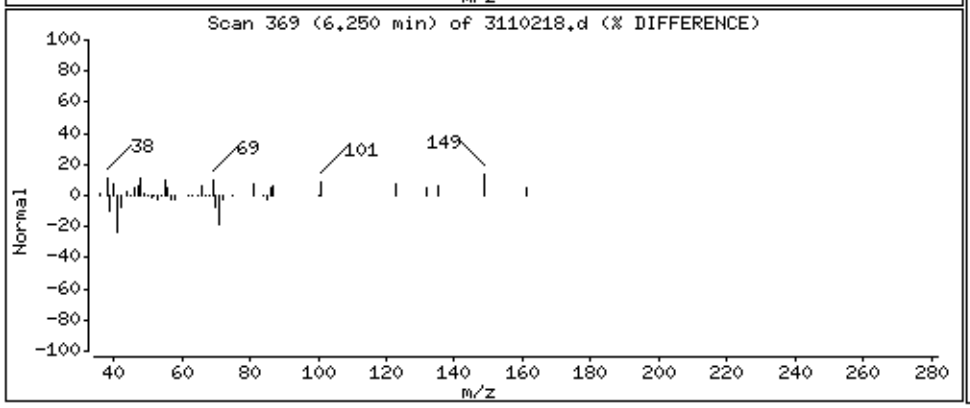
121 Heptane

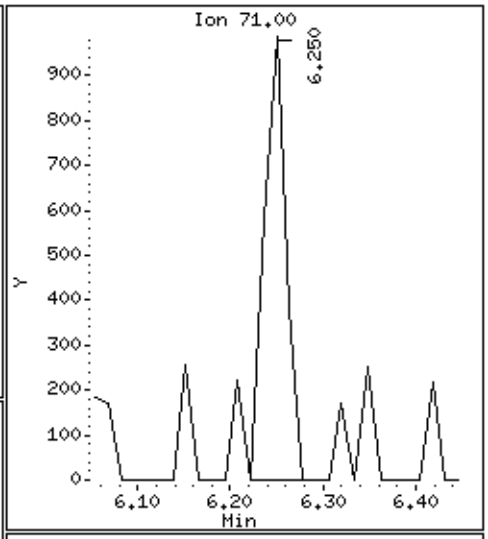
Concentration: 0.8218 PPBV

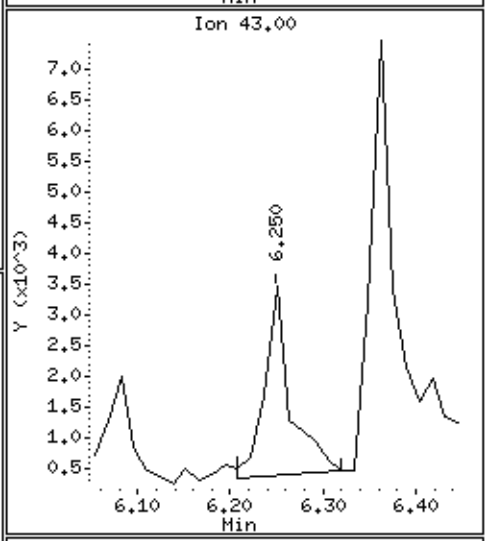


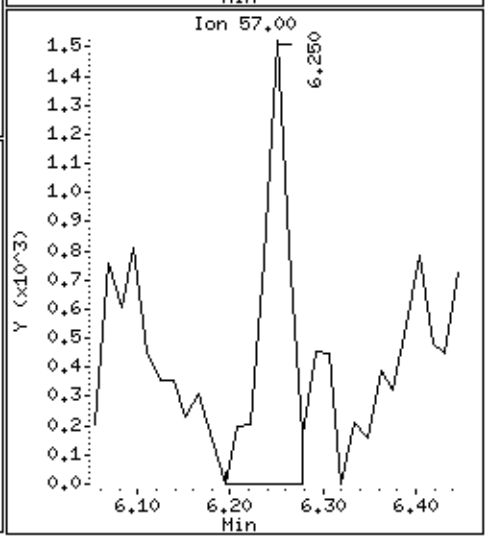












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

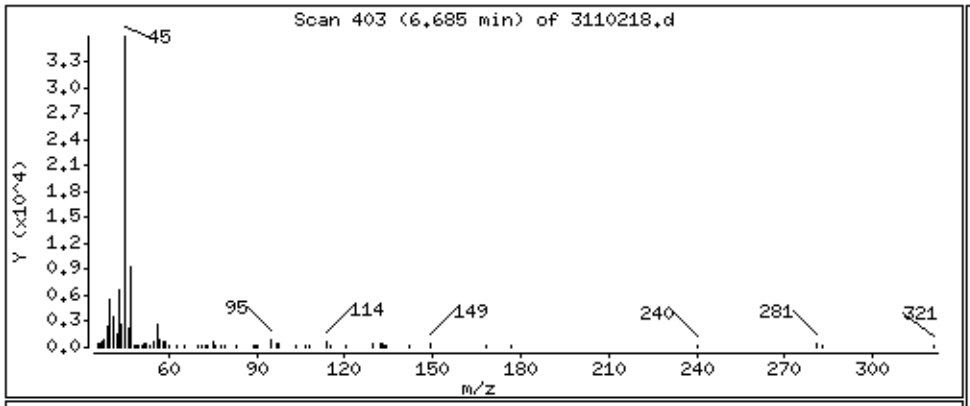
Operator: js

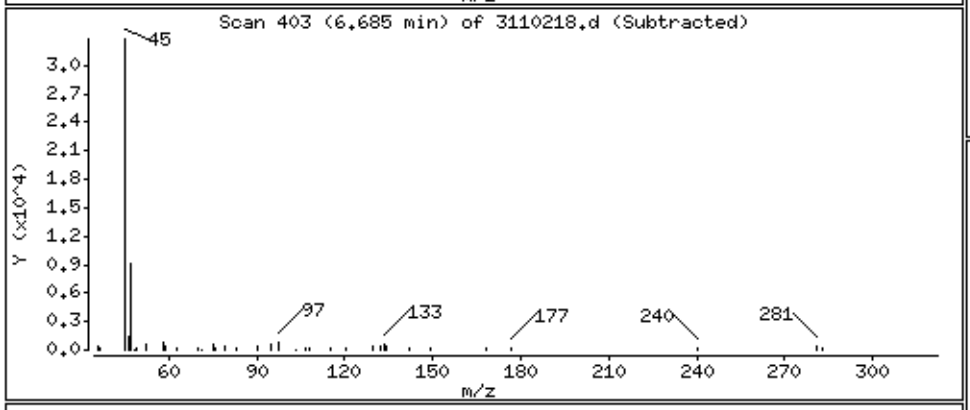
Column phase: RTX-624

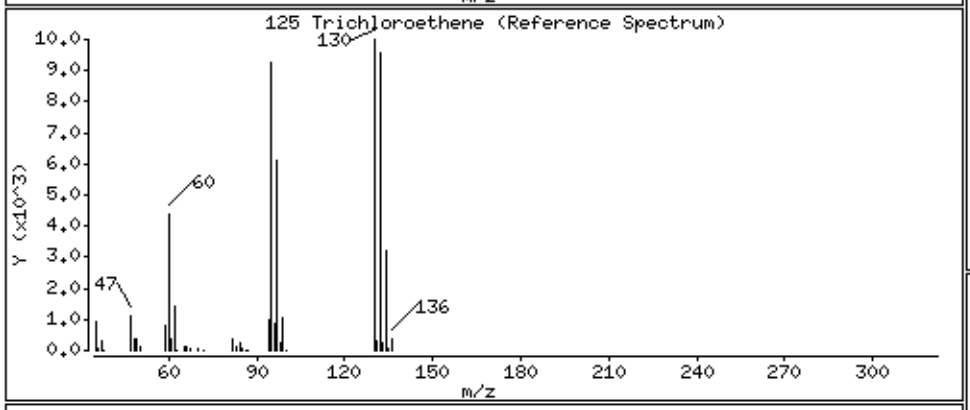
Column diameter: 0.25

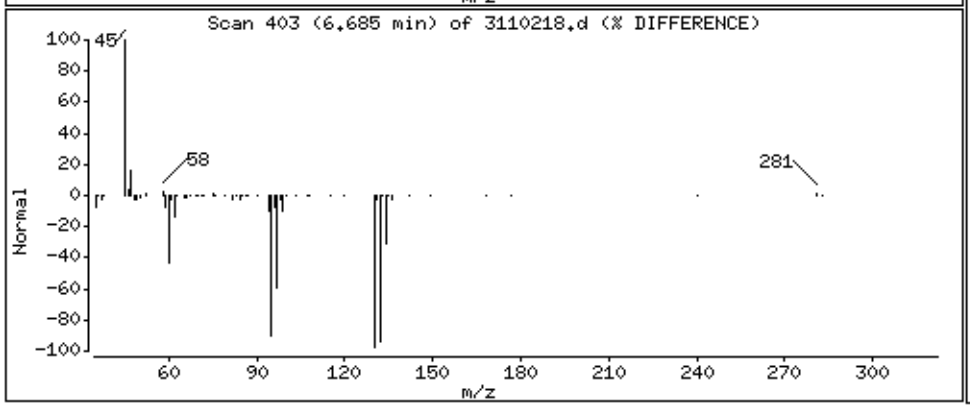
125 Trichloroethene

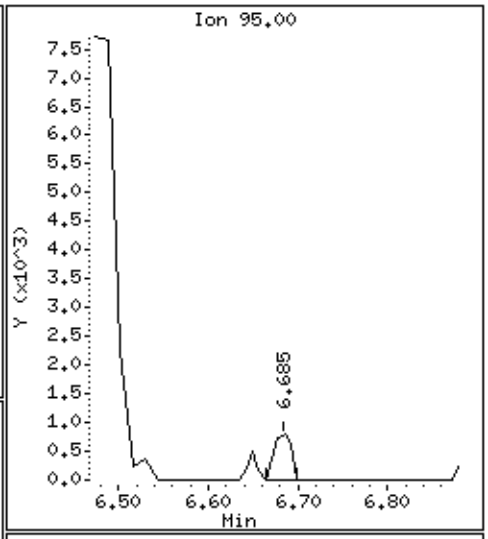
Concentration: 0.4225 PPBV

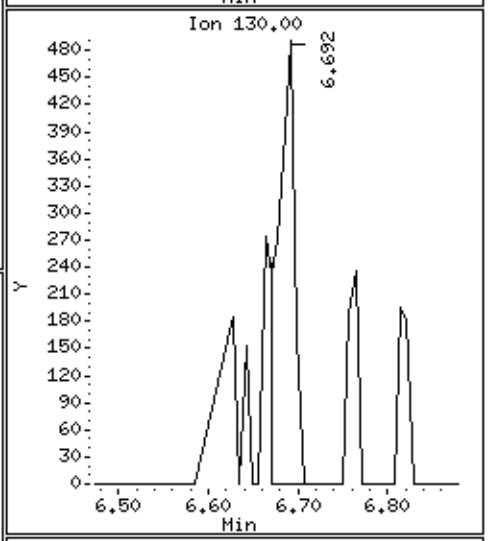


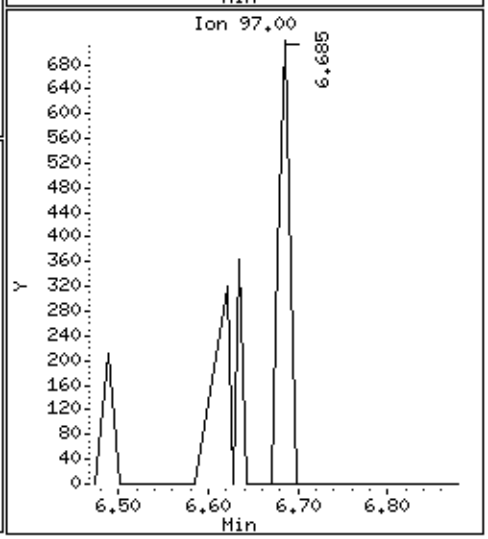












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

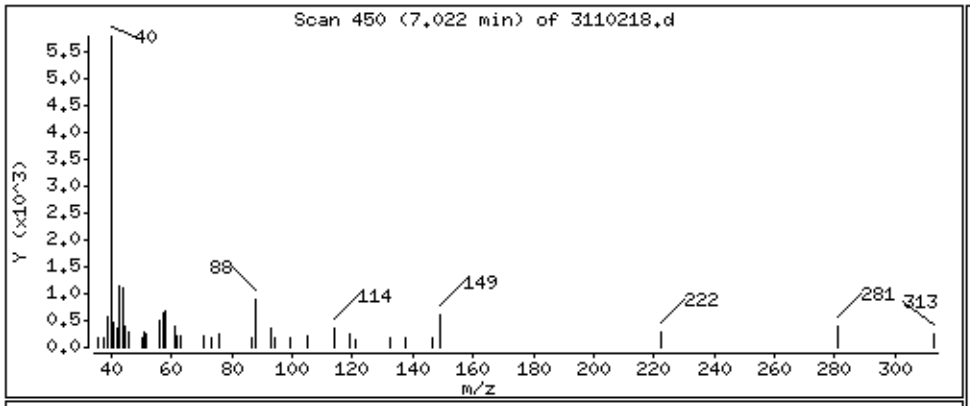
Operator: js

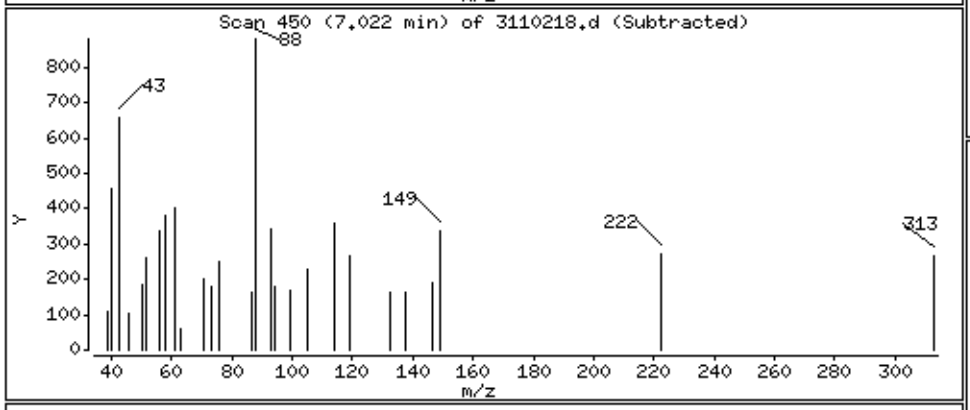
Column phase: RTX-624

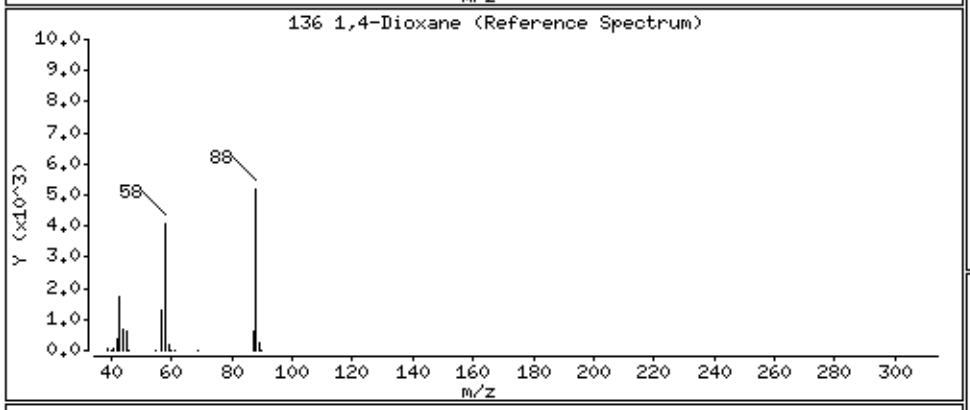
Column diameter: 0.25

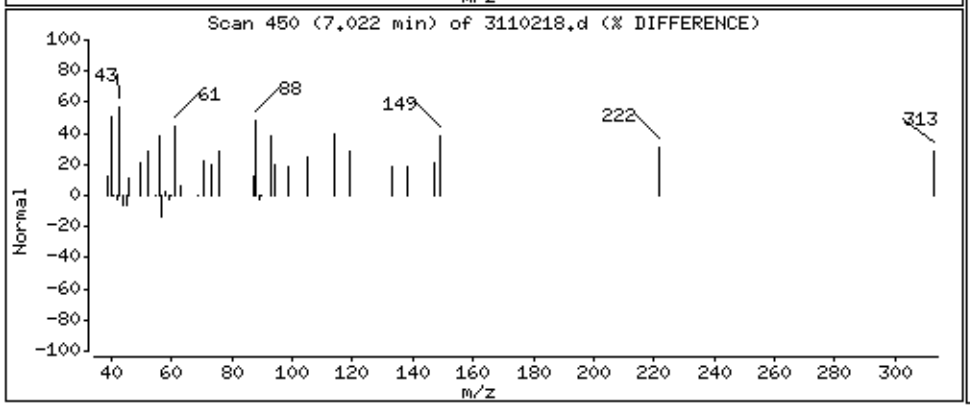
136 1,4-Dioxane

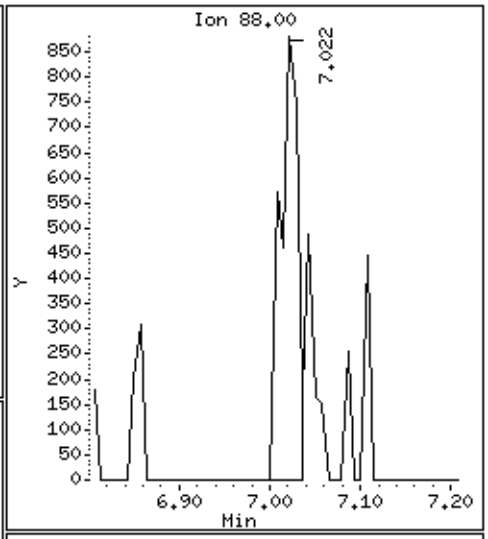
Concentration: 0.9264 PPBV

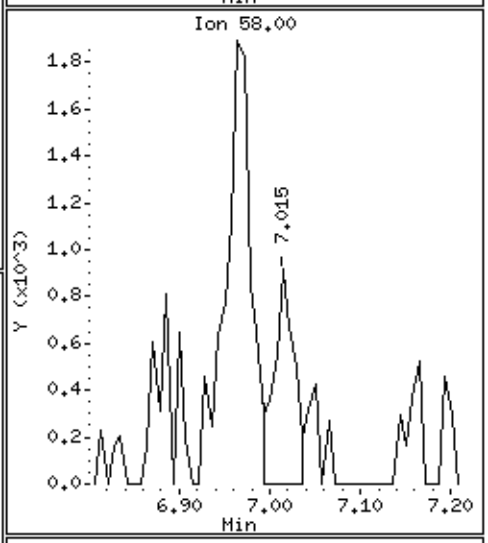


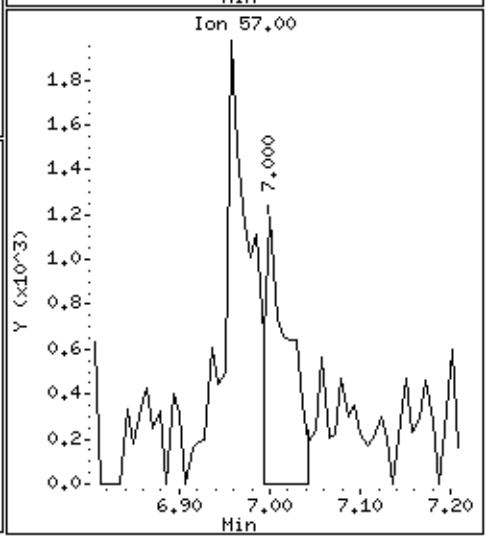












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

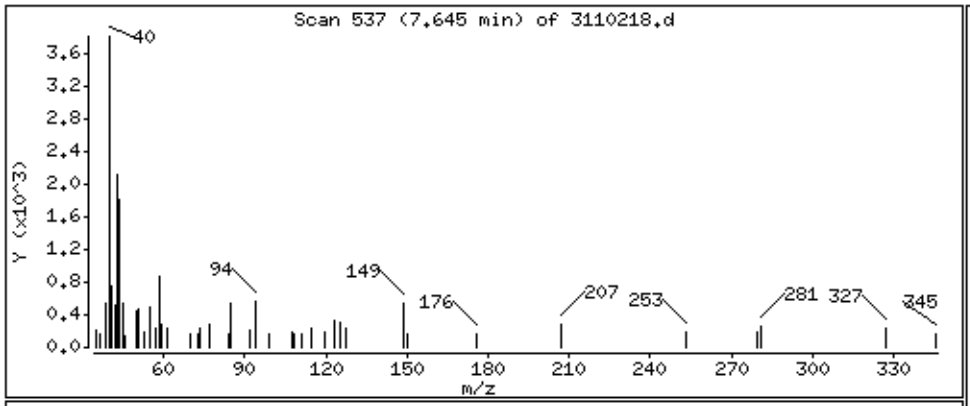
Operator: js

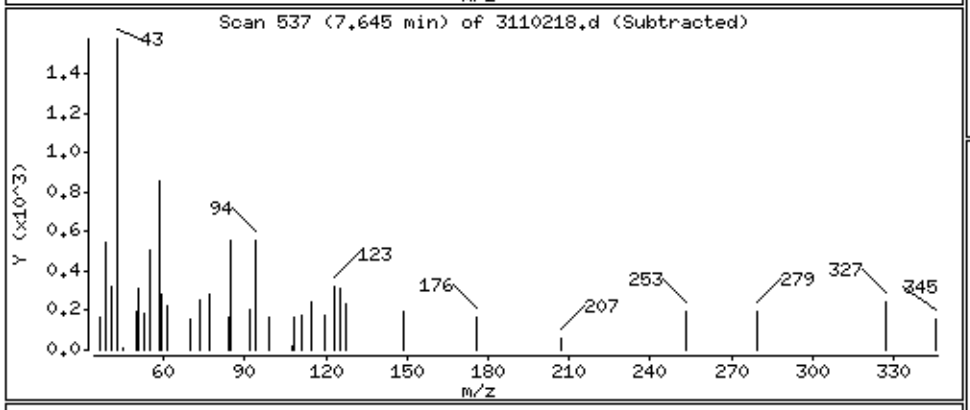
Column phase: RTX-624

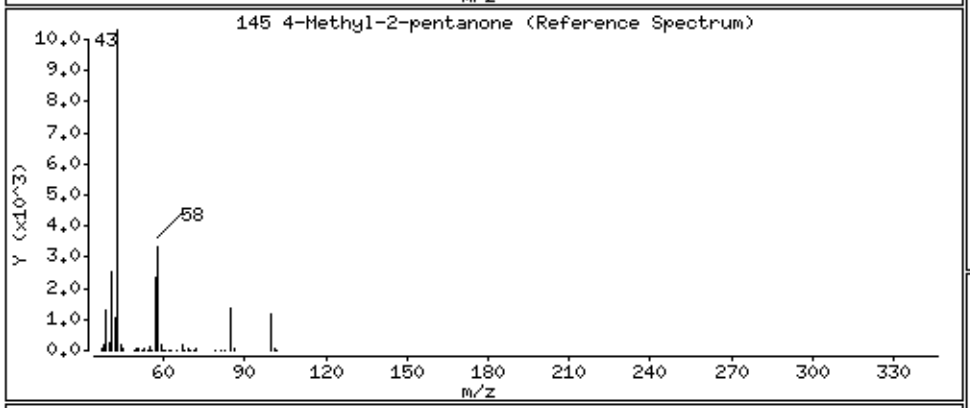
Column diameter: 0.25

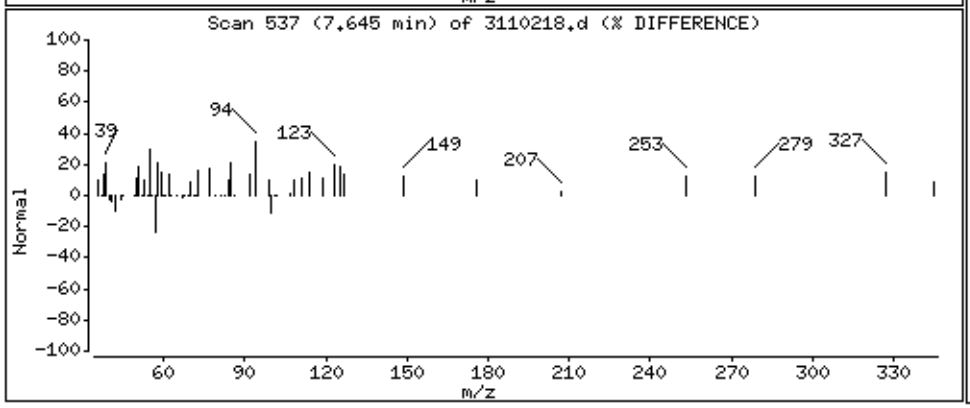
145 4-Methyl-2-pentanone

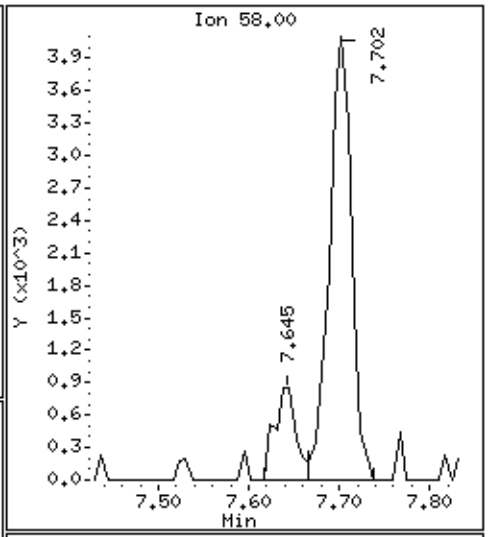
Concentration: 0.4875 PPBV

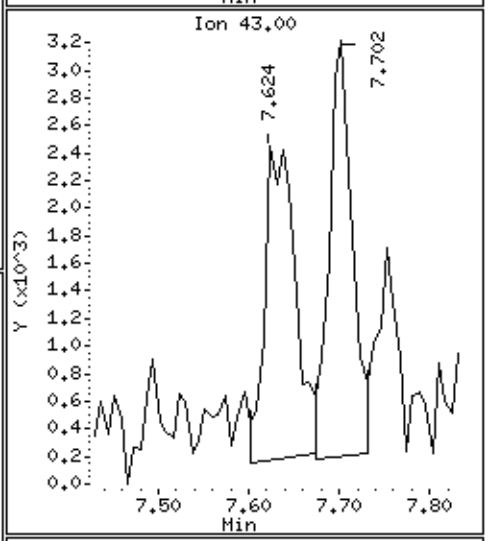


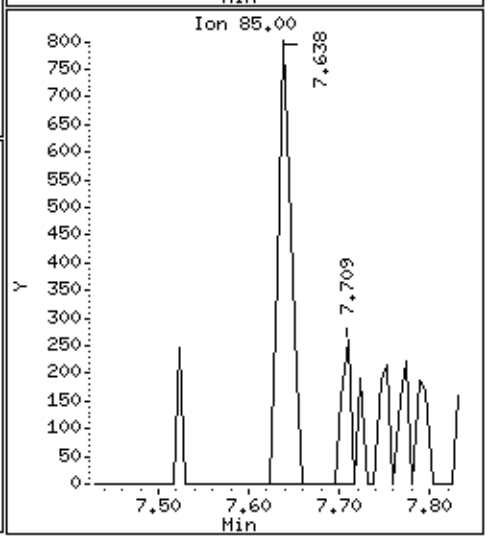












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

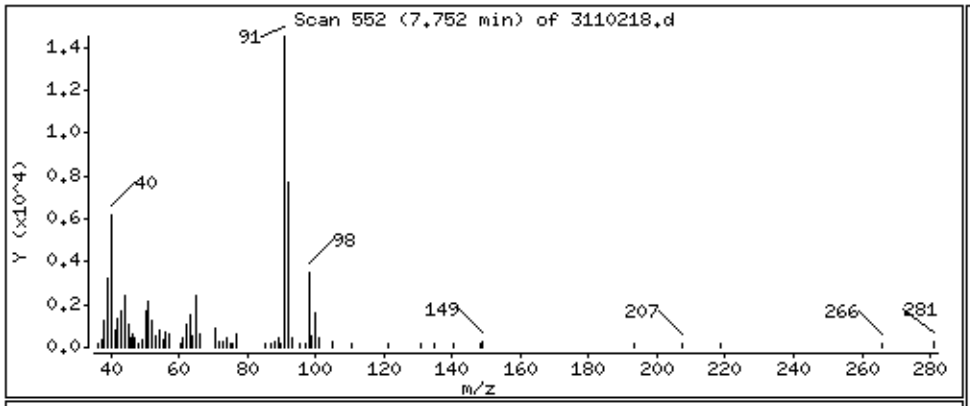
Operator: js

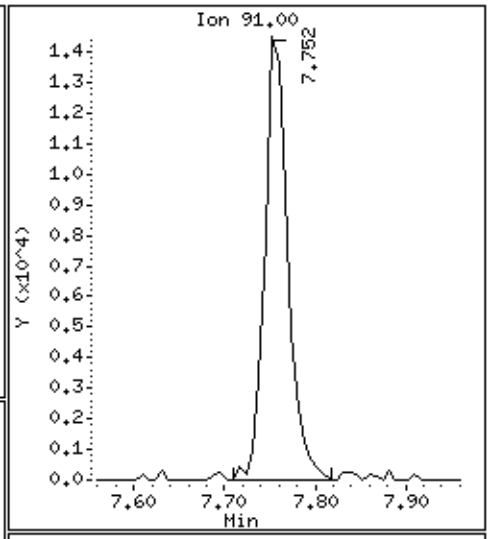
Column phase: RTX-624

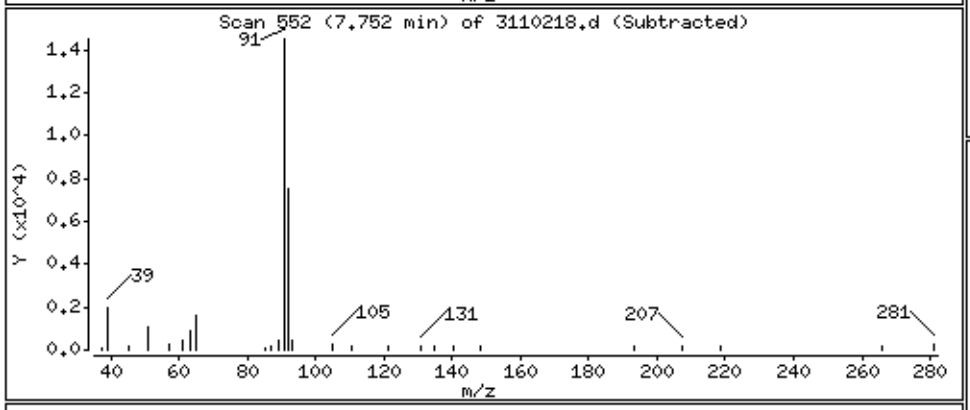
Column diameter: 0.25

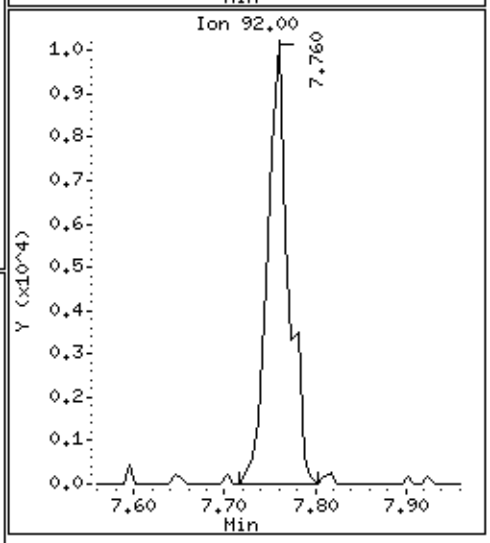
147 Toluene

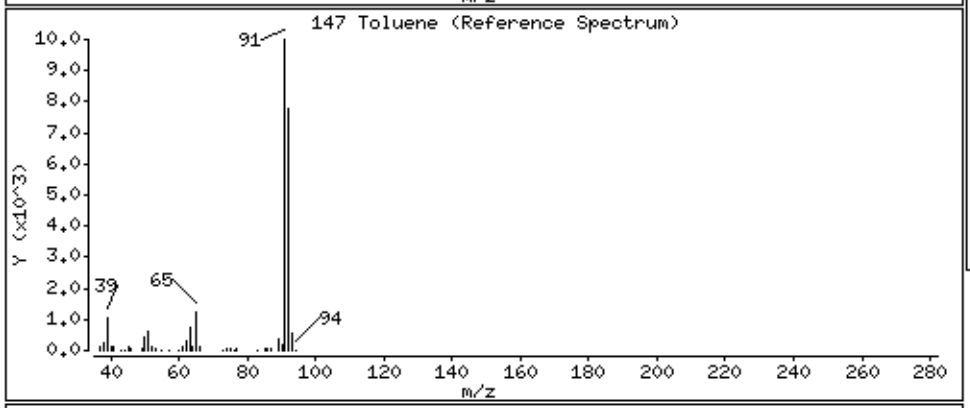
Concentration: 3.607 PPBV

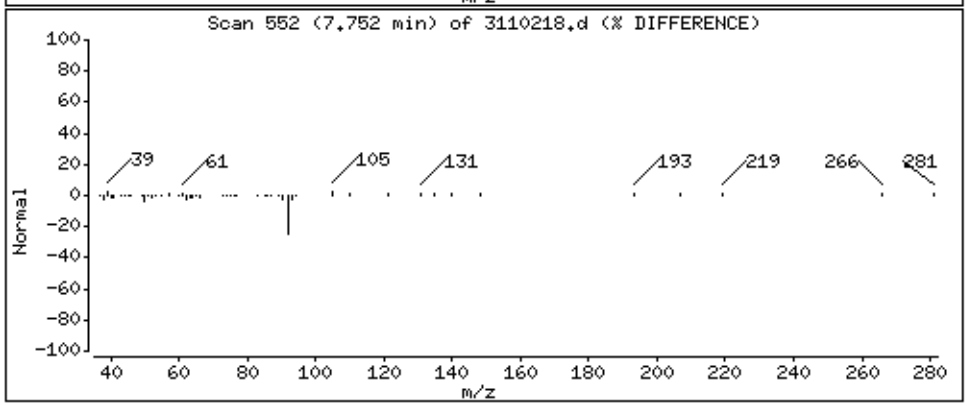












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

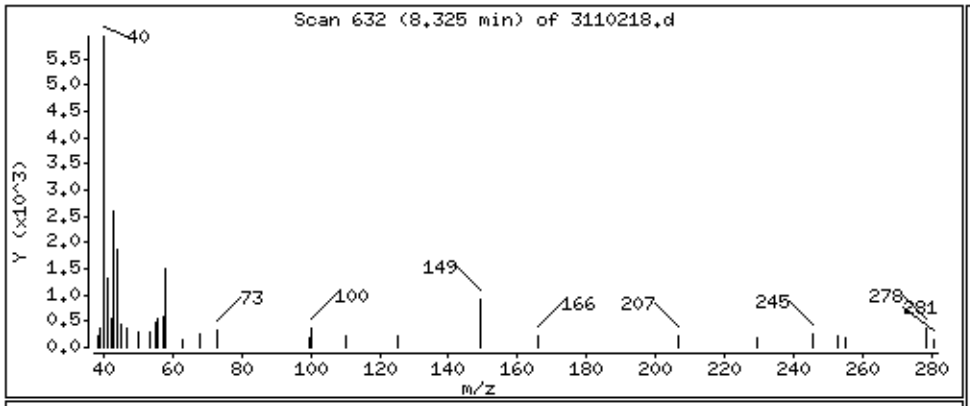
Operator: js

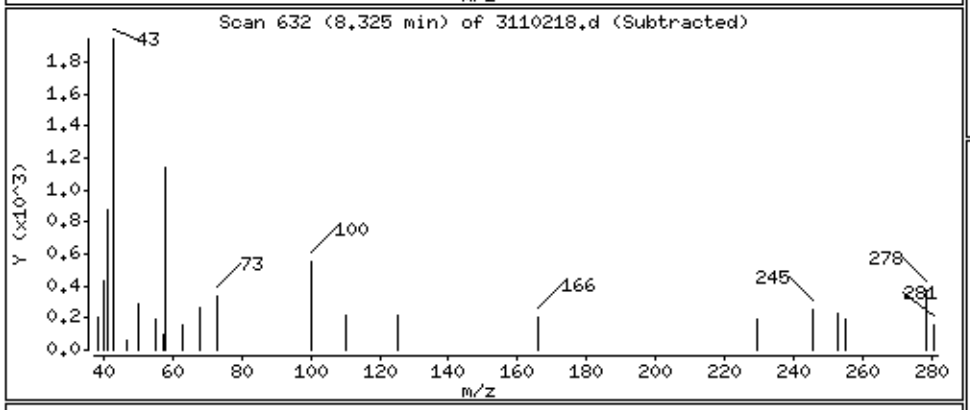
Column phase: RTX-624

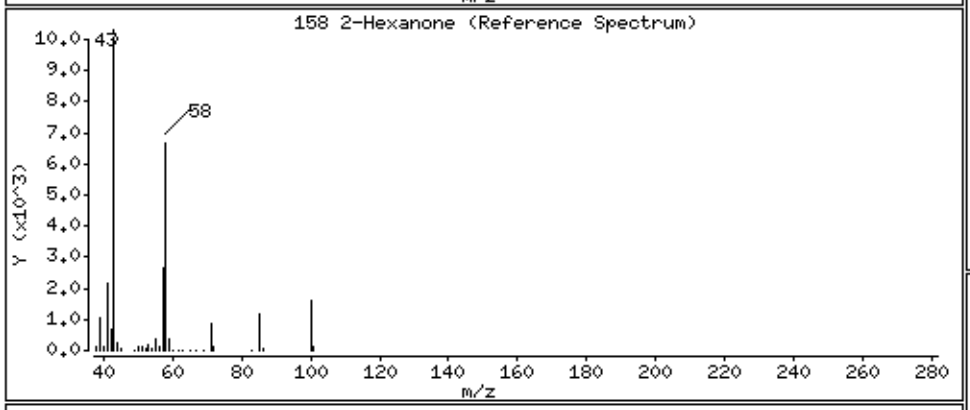
Column diameter: 0.25

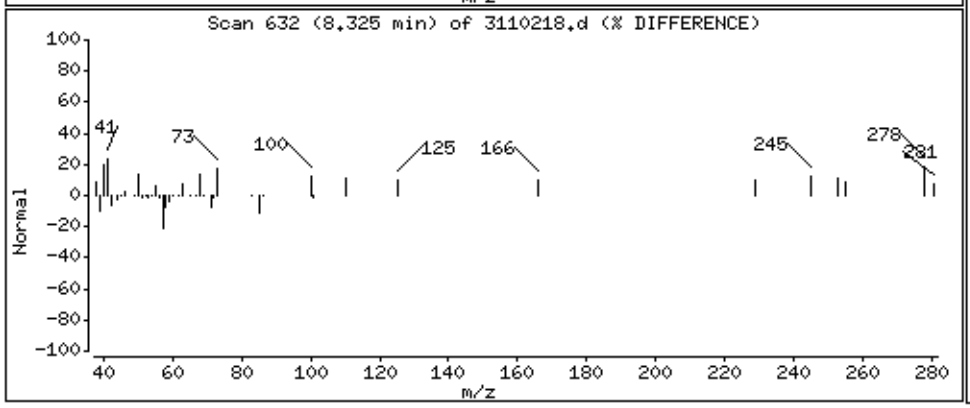
158 2-Hexanone

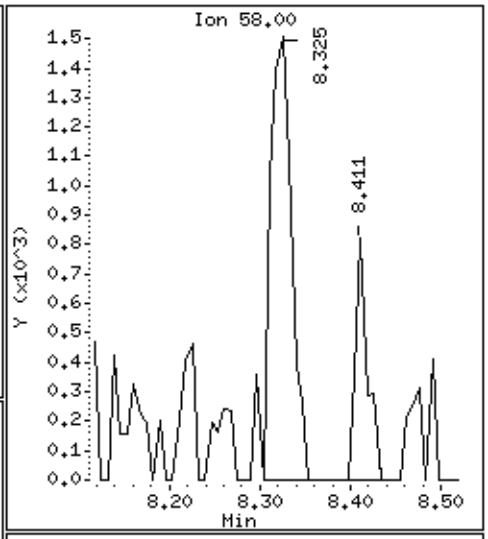
Concentration: 0.5508 PPBV

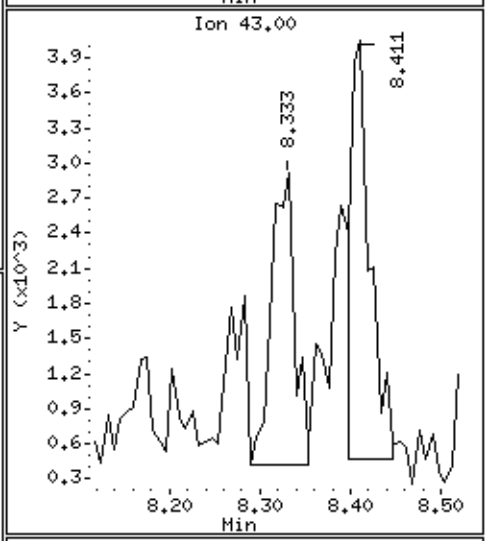


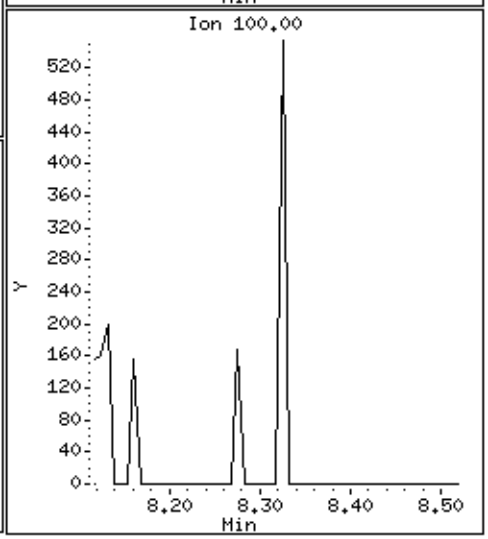












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

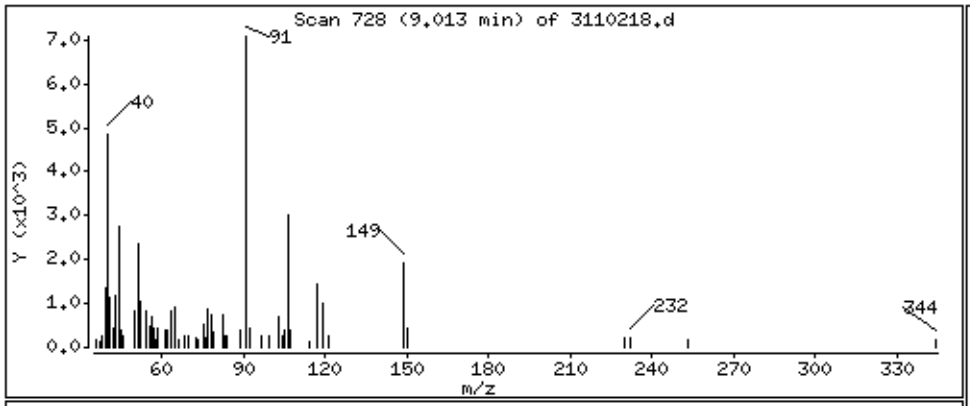
Operator: js

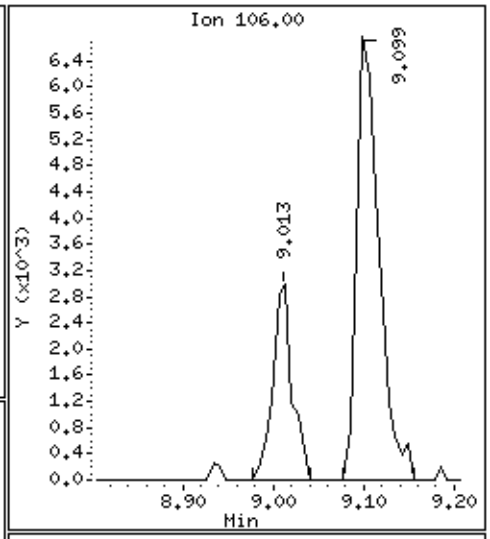
Column phase: RTX-624

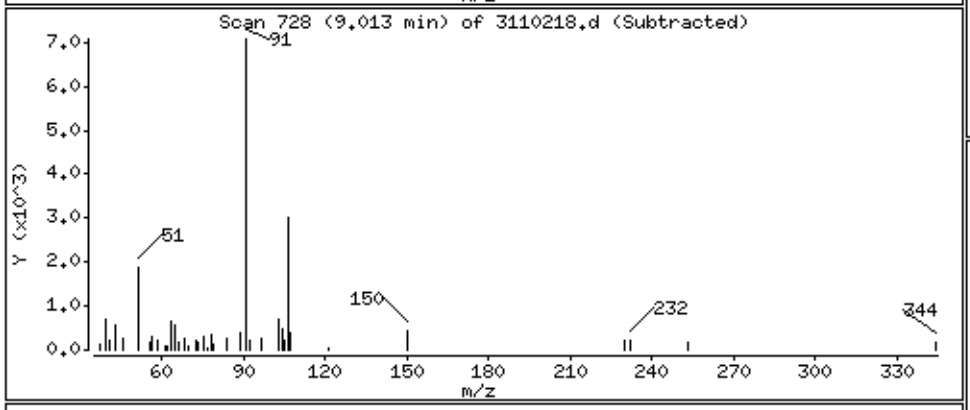
Column diameter: 0.25

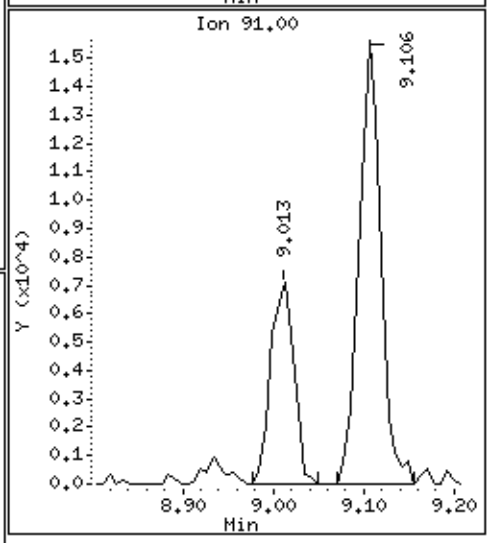
167 Ethyl Benzene

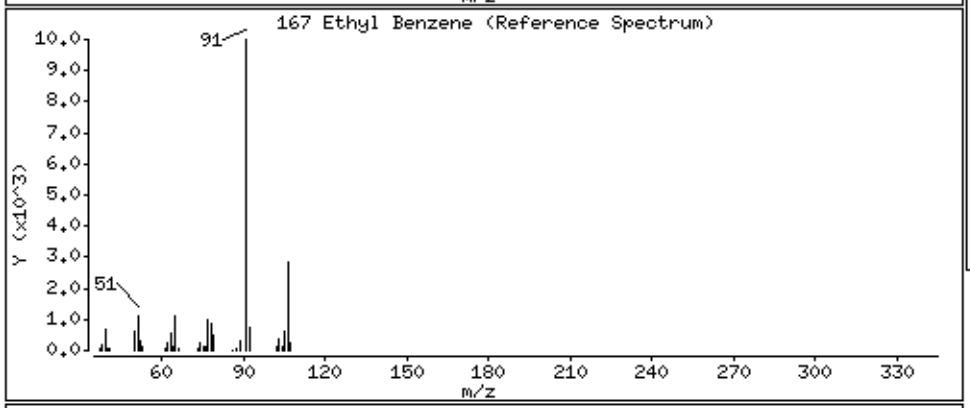
Concentration: 1.278 PPBV

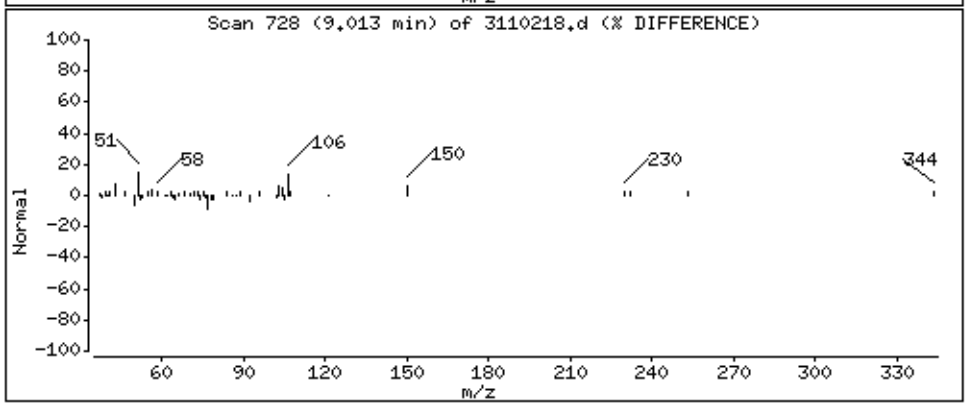












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

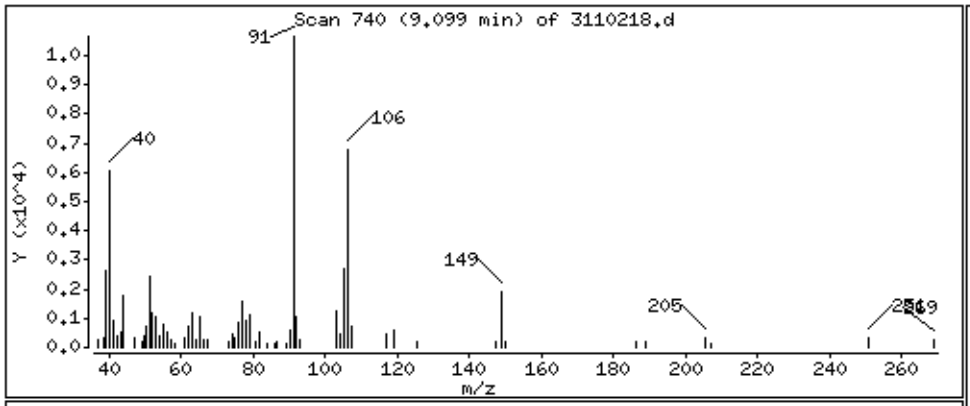
Operator: js

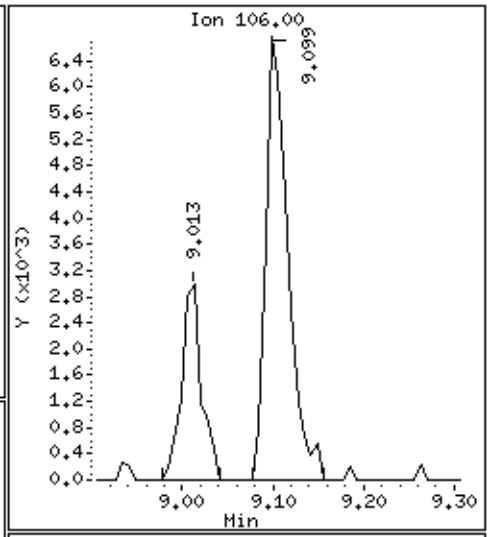
Column phase: RTX-624

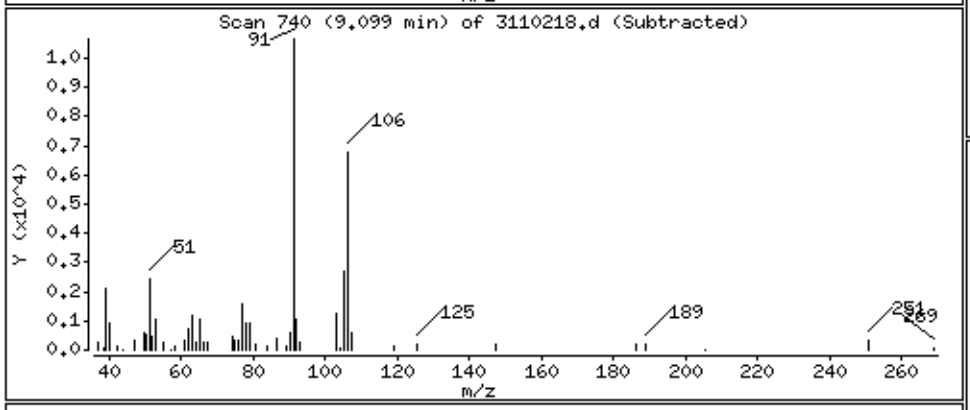
Column diameter: 0.25

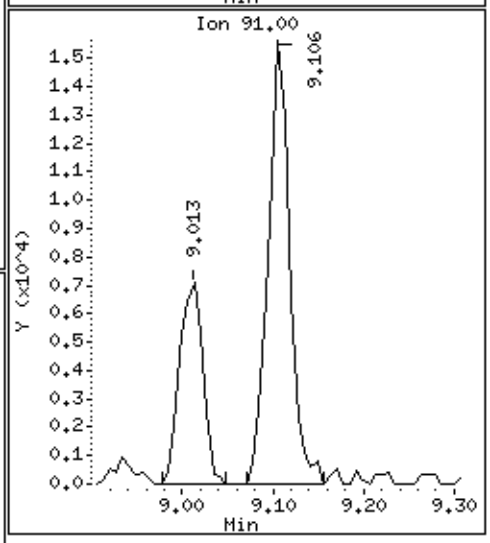
169 m,p-Xylene

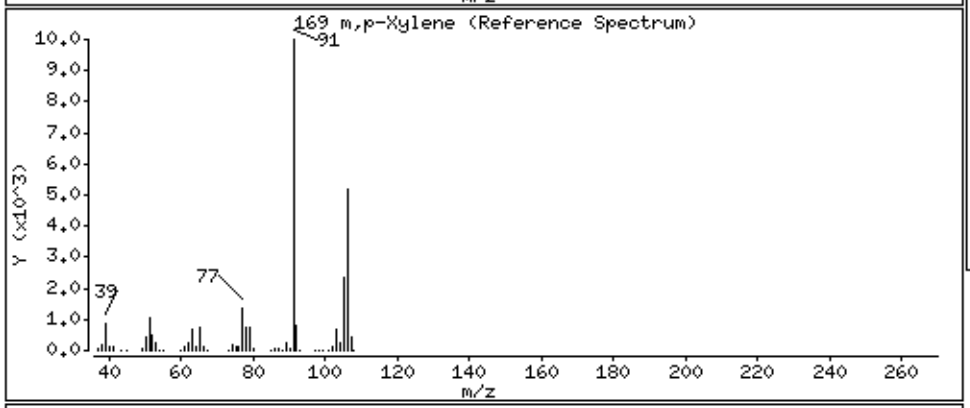
Concentration: 2.639 PPBV

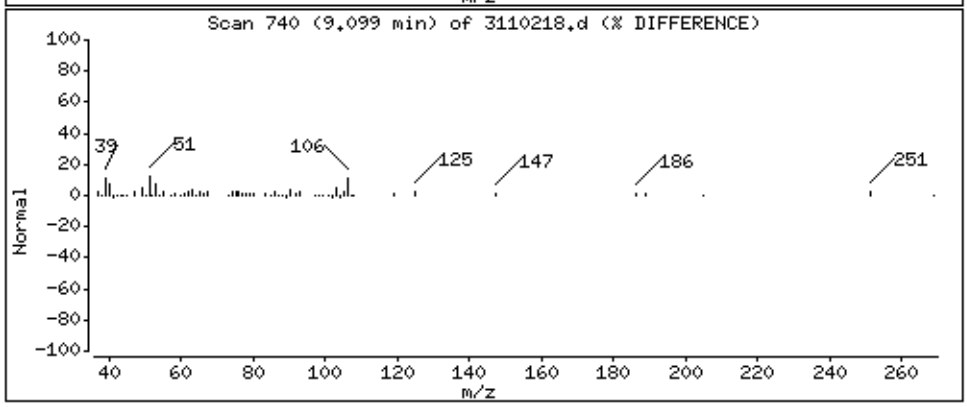












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

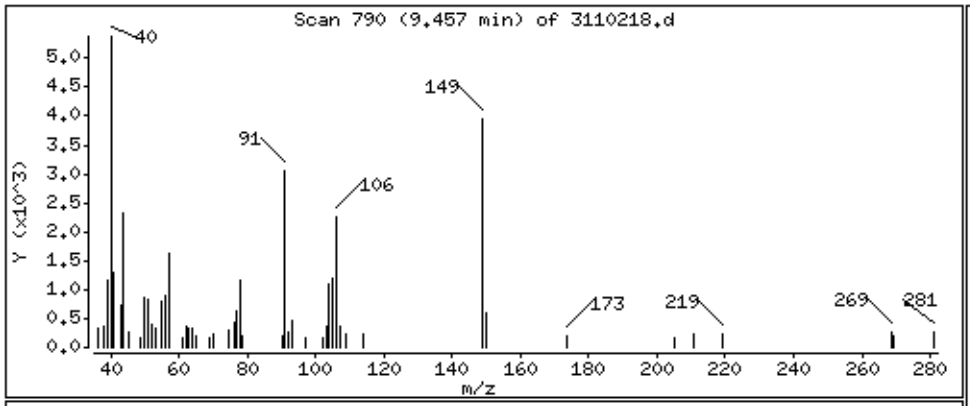
Operator: js

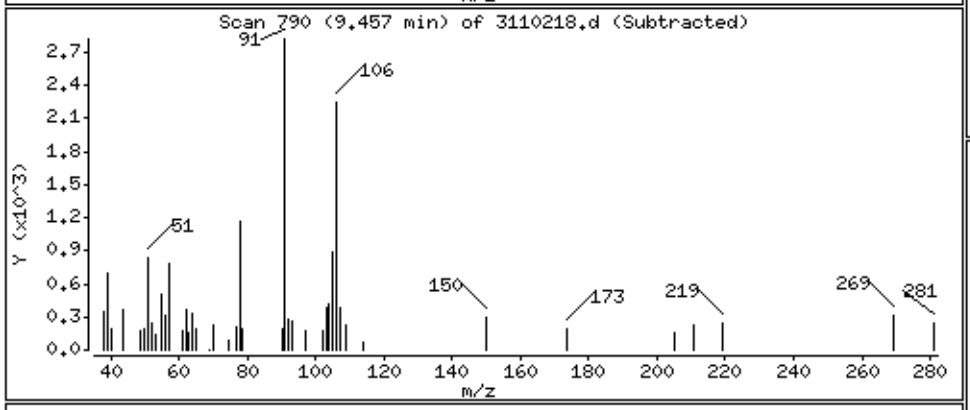
Column phase: RTX-624

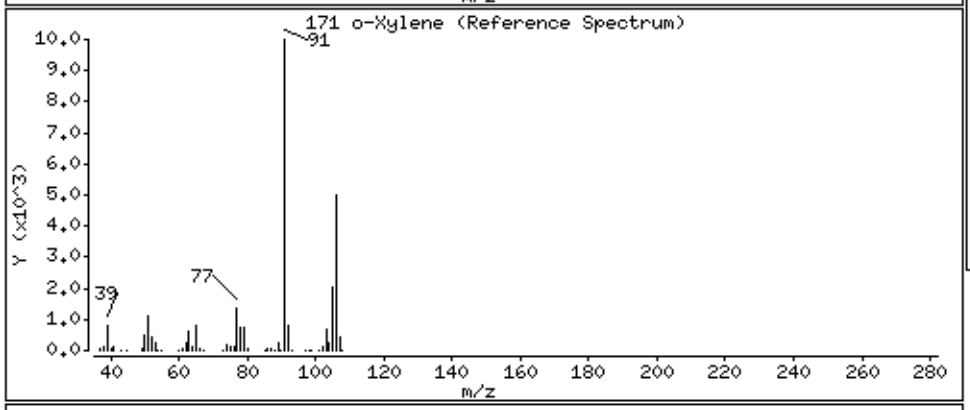
Column diameter: 0.25

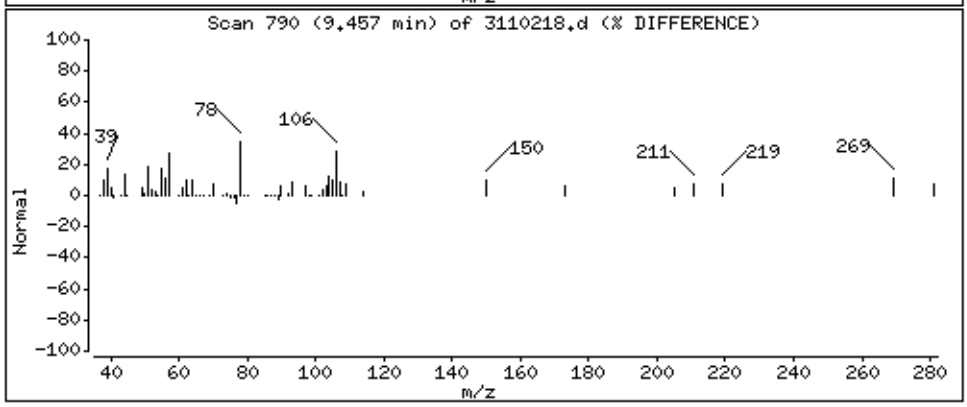
171 o-Xylene

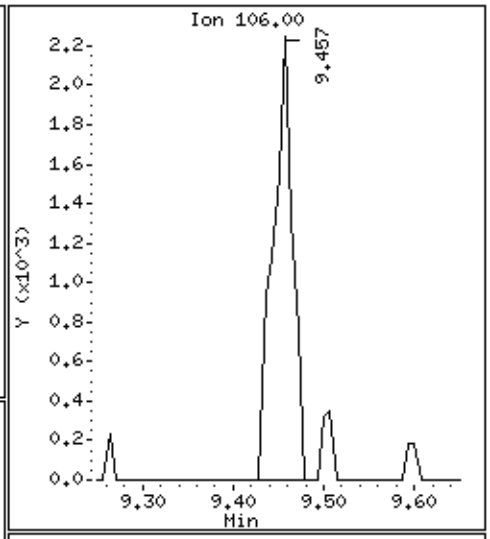
Concentration: 0.7957 PPBV

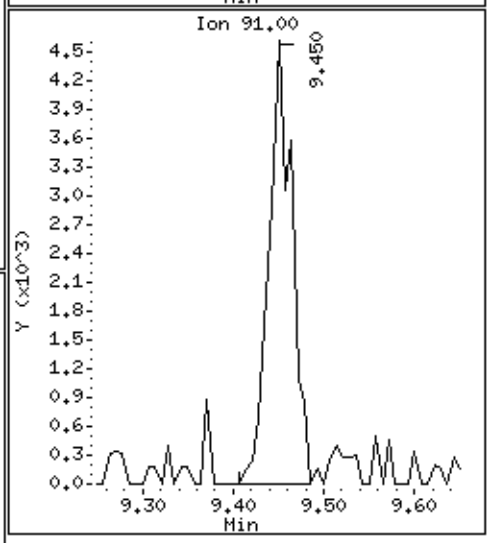












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

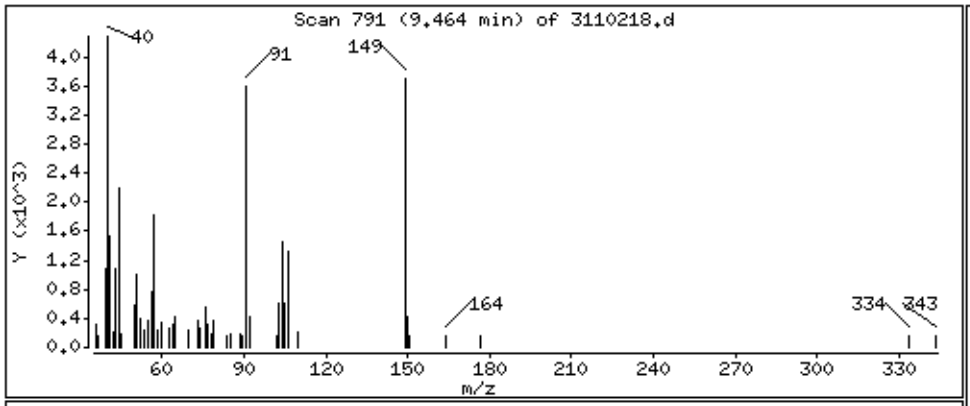
Operator: js

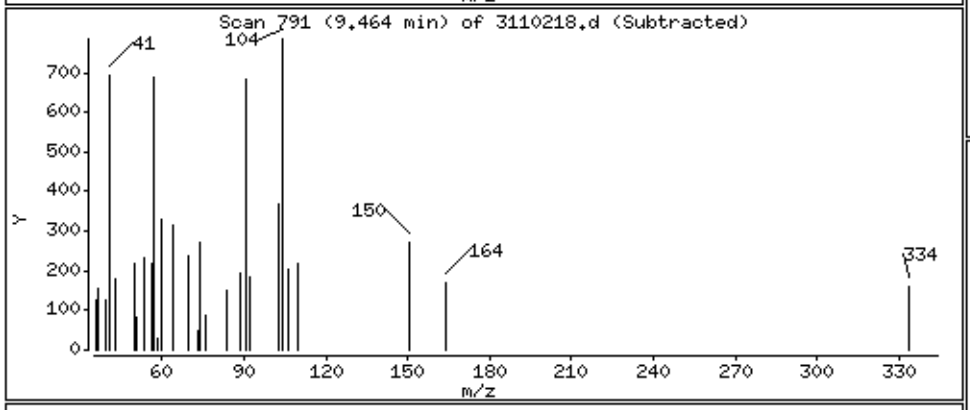
Column phase: RTX-624

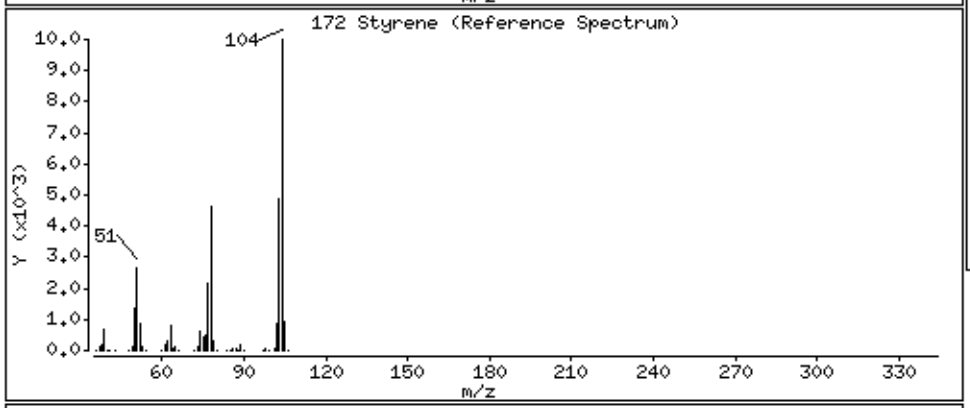
Column diameter: 0.25

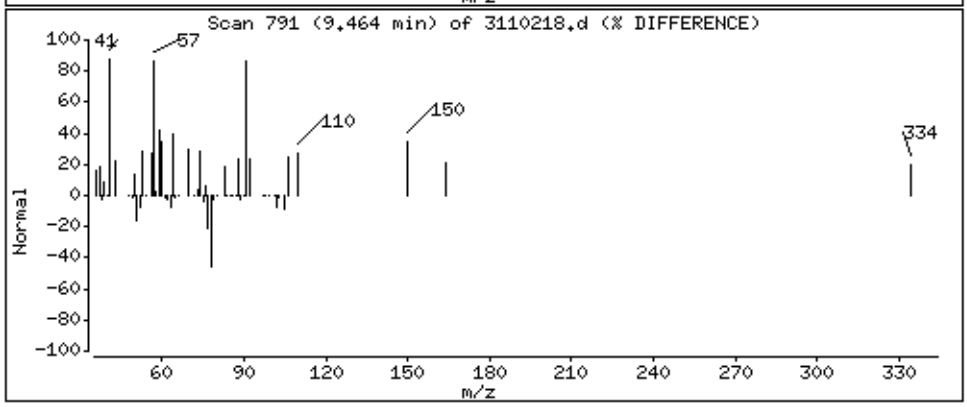
172 Styrene

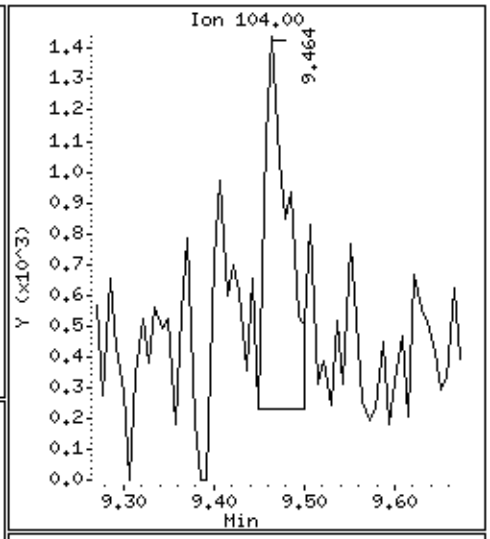
Concentration: 0.2920 PPBV

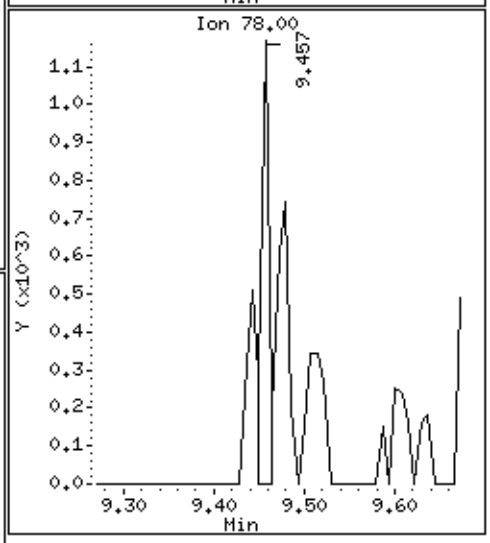












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

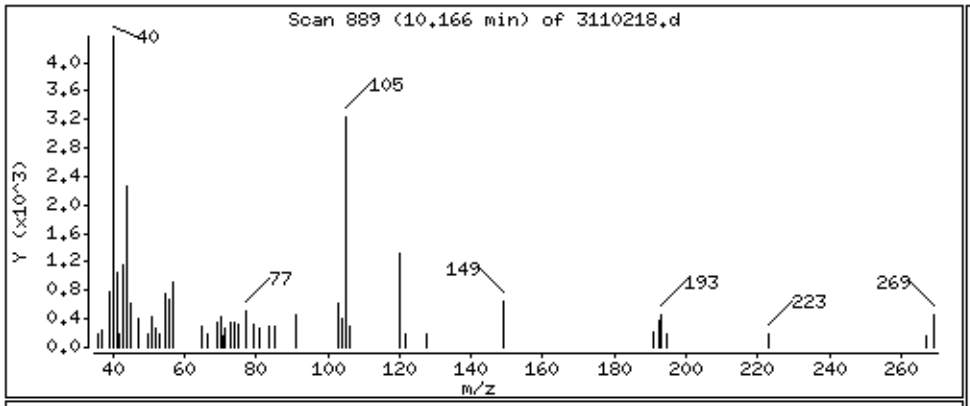
Operator: js

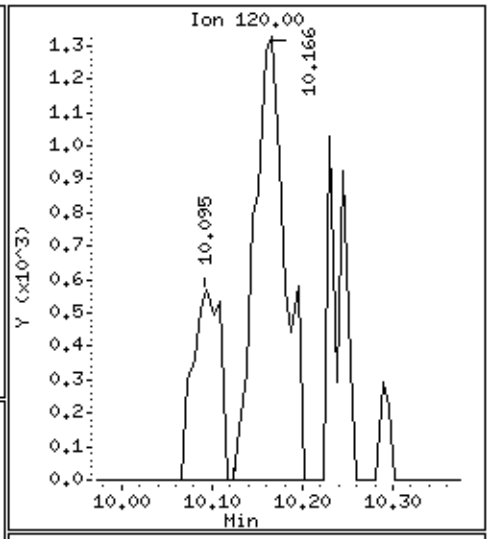
Column phase: RTX-624

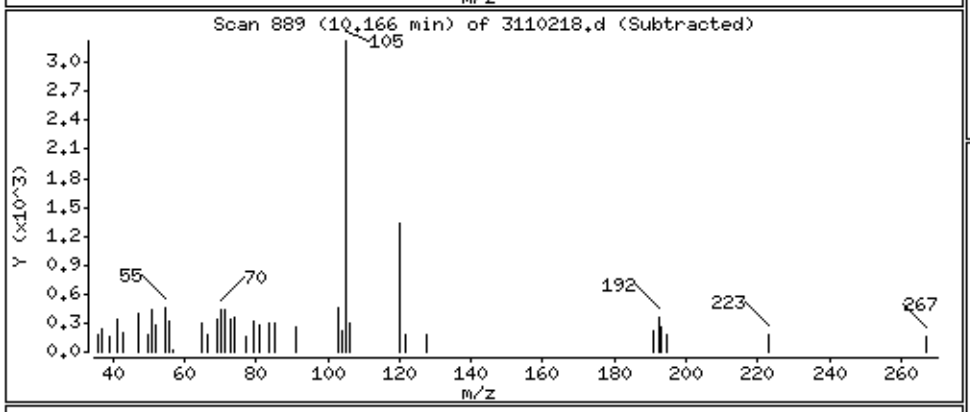
Column diameter: 0.25

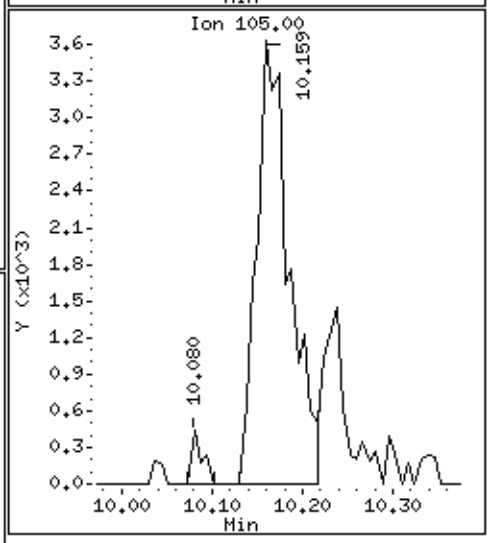
188 4-Ethyltoluene

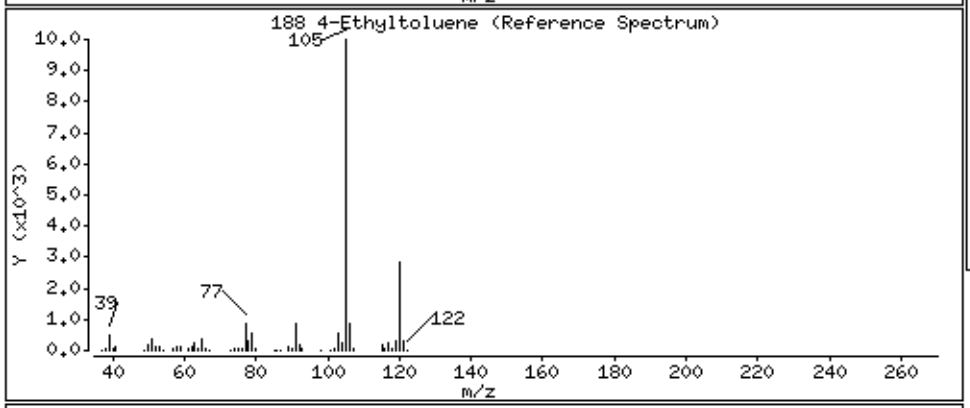
Concentration: 0.7554 PPBV

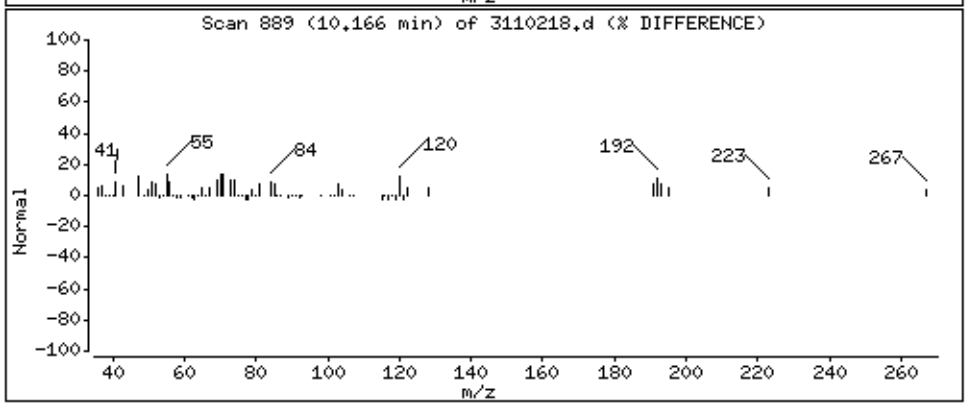












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

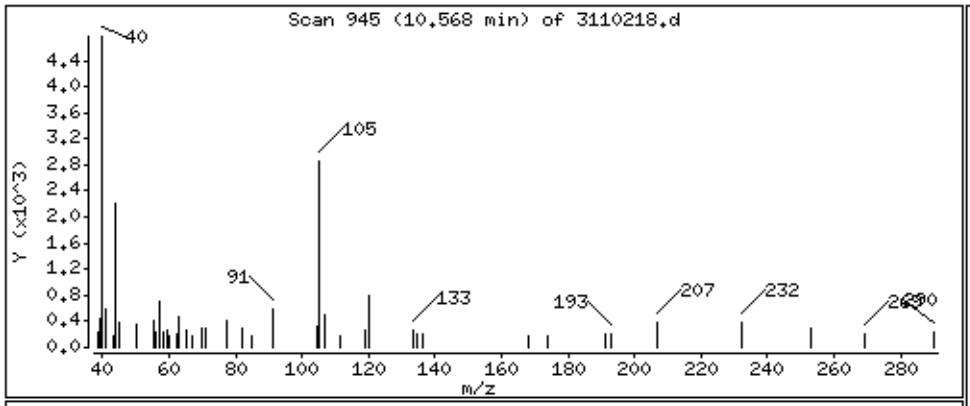
Operator: js

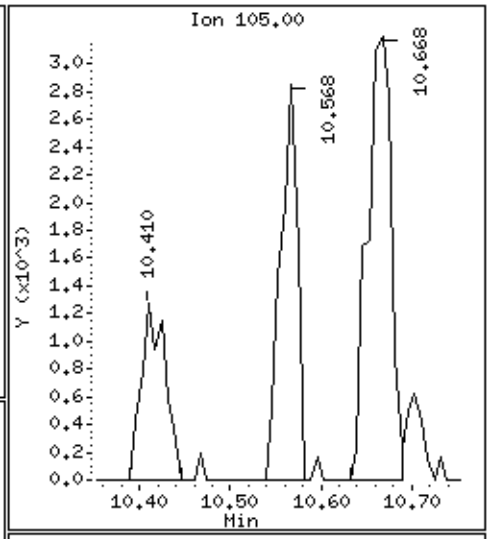
Column phase: RTX-624

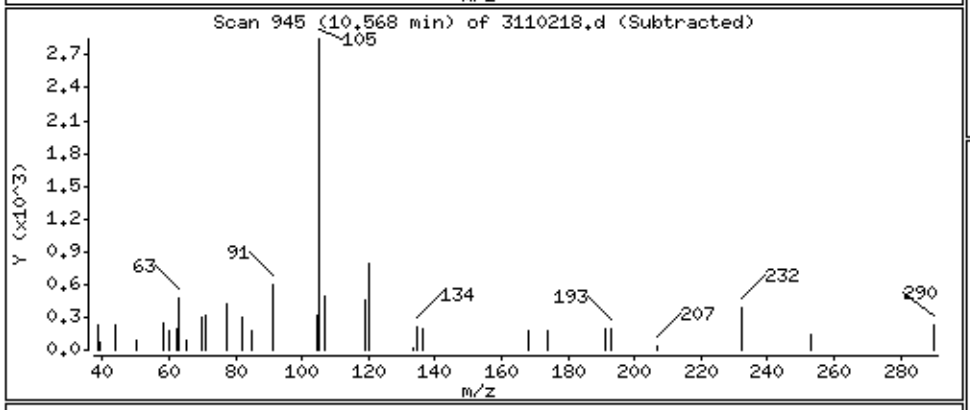
Column diameter: 0.25

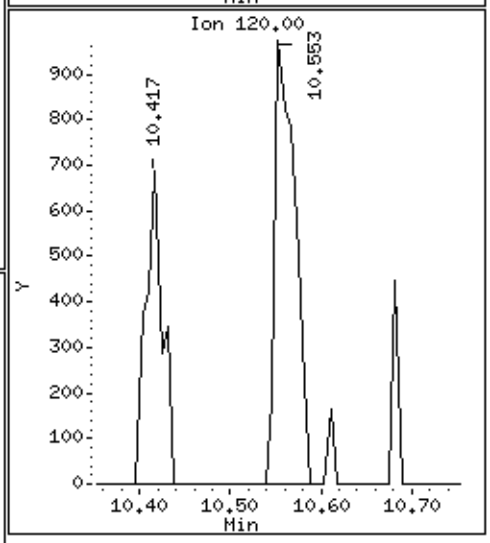
196 1,2,4-Trimethylbenzene

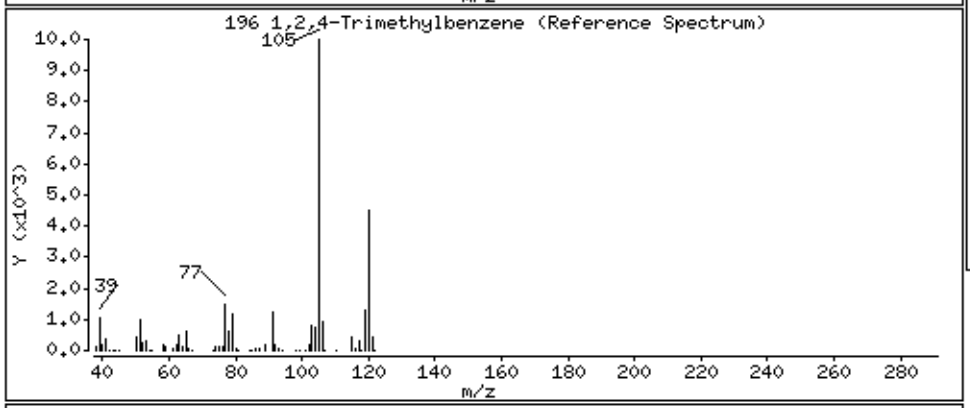
Concentration: 0.3067 PPBV

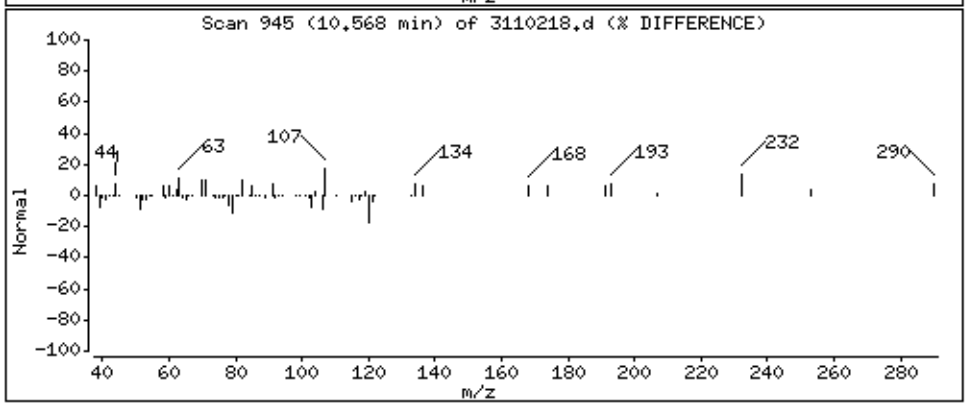












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

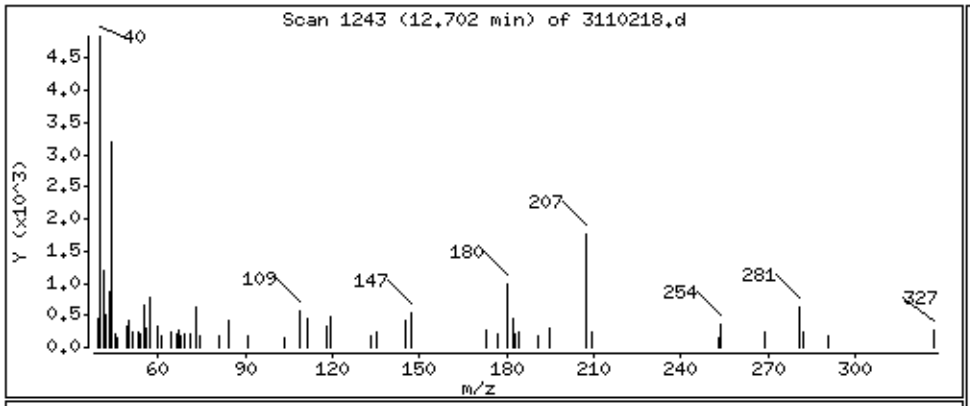
Operator: js

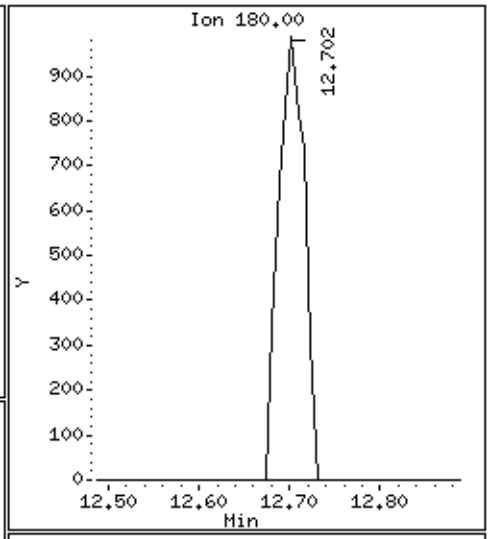
Column phase: RTX-624

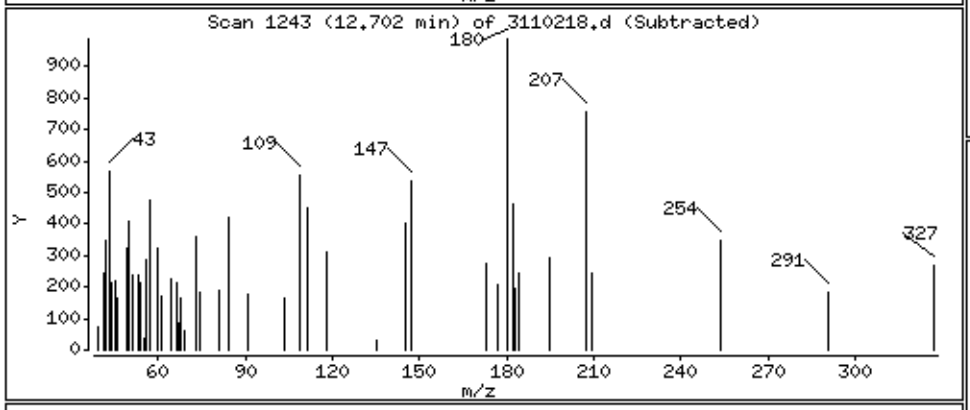
Column diameter: 0.25

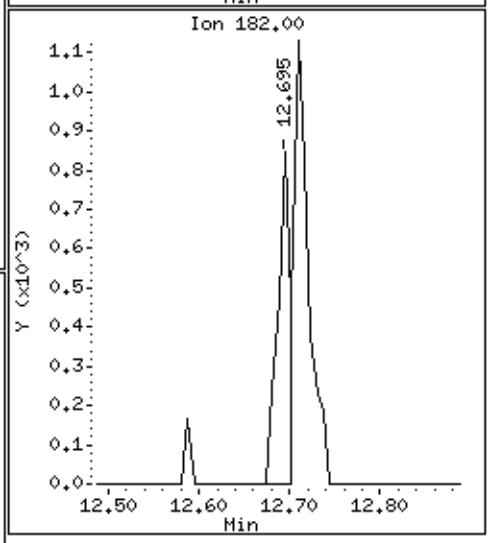
226 1,2,4-Trichlorobenzene

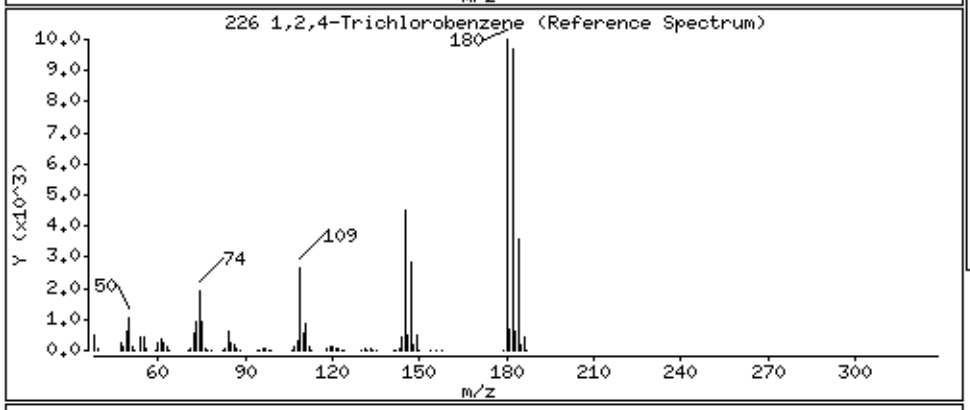
Concentration: 0.3143 PPBV

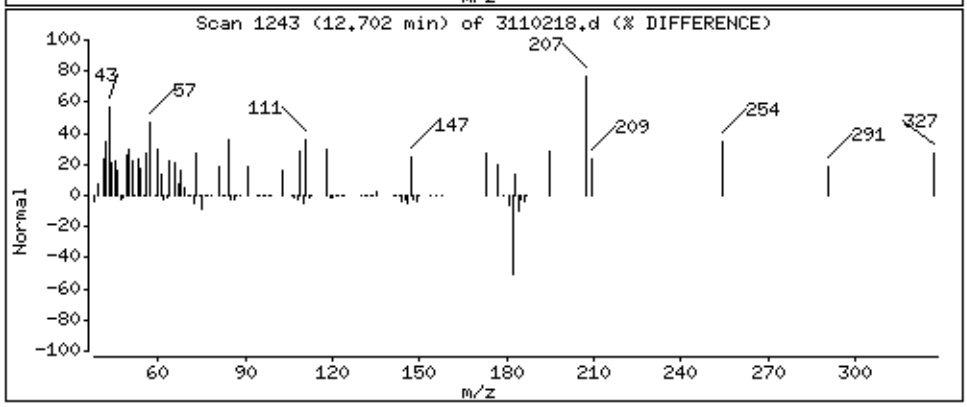












Data File: /chem/msd3.i/02nov15.b/3110218.d

Date : 02-NOV-2015 20:44

Client ID:

Instrument: msd3.i

Sample Info: 200ml 37317

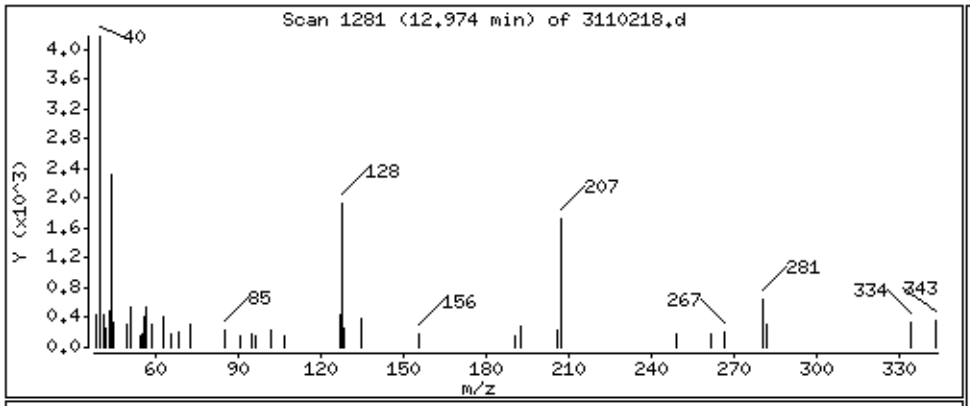
Operator: js

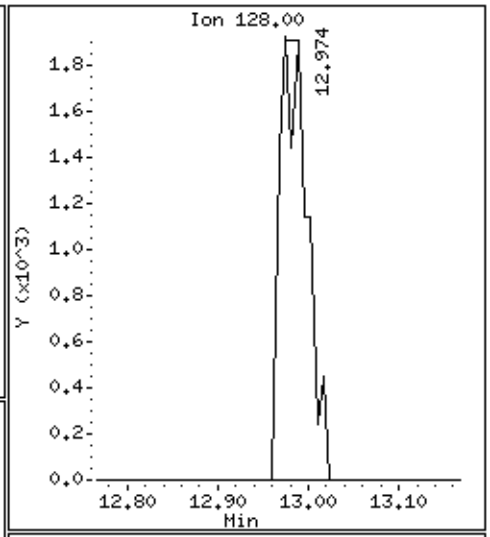
Column phase: RTX-624

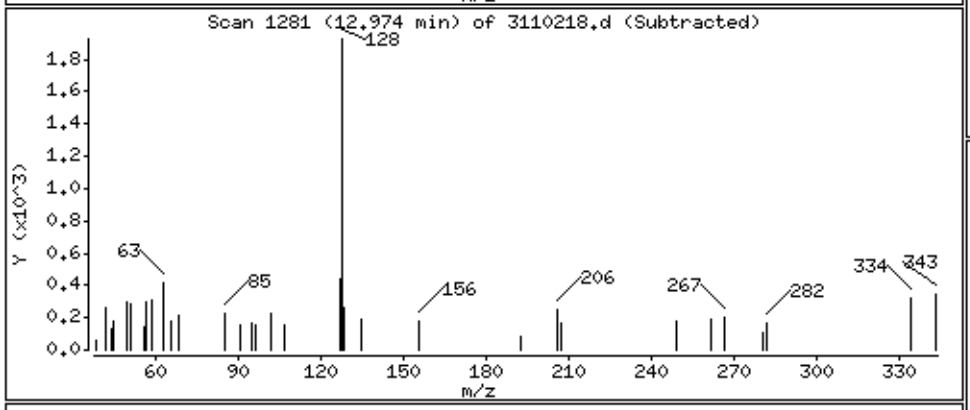
Column diameter: 0.25

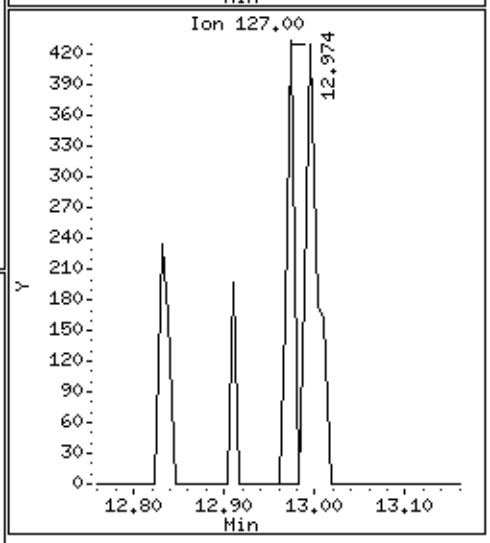
228 Naphthalene

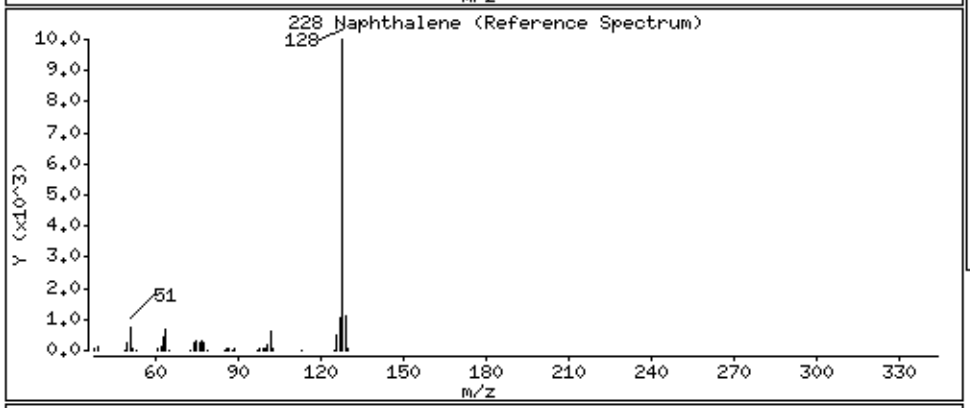
Concentration: 0.2507 PPBV

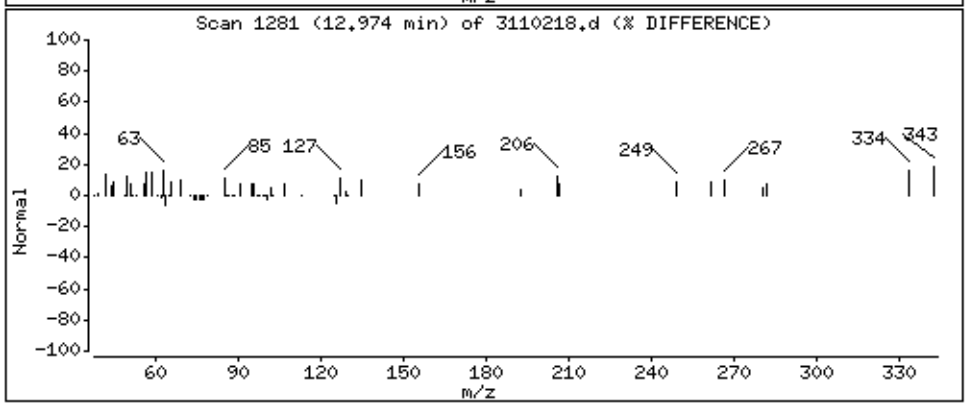












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B42SSV-2102815

Lab ID#: 1510593-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.4	1.1 J	12	5.4 J
Freon 11	2.4	0.57 J	14	3.2 J
Ethanol	9.8	160	18	300
Acetone	24	280	58	670
2-Propanol	9.8	46	24	110
Carbon Disulfide	9.8	0.88 J	30	2.7 J
Hexane	2.4	1.1 J	8.6	4.0 J
2-Butanone (Methyl Ethyl Ketone)	9.8	40	29	120
Tetrahydrofuran	2.4	2.4	7.2	7.2
Benzene	2.4	3.6	7.8	11
Heptane	2.4	2.4 J	10	9.8 J
Trichloroethene	2.4	1.3 J	13	6.9 J
4-Methyl-2-pentanone	2.4	2.8	10	12
Toluene	2.4	2.0 J	9.2	7.5 J
2-Hexanone	9.8	15	40	60
m,p-Xylene	2.4	1.0 J	11	4.4 J
Naphthalene	4.9	0.091 J	26	0.48 J

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Client Sample ID: B42SSV-2102815

Lab ID#: 1510593-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110220**	**Date of Collection:**	**10/28/15 3:42:00 PM**
Dil. Factor:	**4.89**	**Date of Analysis:**	**11/2/15 10:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.4	1.1 J	12	5.4 J
Freon 114	2.4	Not Detected	17	Not Detected
Chloromethane	24	Not Detected	50	Not Detected
Vinyl Chloride	2.4	Not Detected	6.2	Not Detected
1,3-Butadiene	2.4	Not Detected	5.4	Not Detected
Bromomethane	24	Not Detected	95	Not Detected
Chloroethane	9.8	Not Detected	26	Not Detected
Freon 11	2.4	0.57 J	14	3.2 J
Ethanol	9.8	160	18	300
Freon 113	2.4	Not Detected	19	Not Detected
1,1-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Acetone	24	280	58	670
2-Propanol	9.8	46	24	110
Carbon Disulfide	9.8	0.88 J	30	2.7 J
3-Chloropropene	9.8	Not Detected	31	Not Detected
Methylene Chloride	24	Not Detected	85	Not Detected
Methyl tert-butyl ether	2.4	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Hexane	2.4	1.1 J	8.6	4.0 J
1,1-Dichloroethane	2.4	Not Detected	9.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.8	40	29	120
cis-1,2-Dichloroethene	2.4	Not Detected	9.7	Not Detected
Tetrahydrofuran	2.4	2.4	7.2	7.2
Chloroform	2.4	Not Detected	12	Not Detected
1,1,1-Trichloroethane	2.4	Not Detected	13	Not Detected
Cyclohexane	2.4	Not Detected	8.4	Not Detected
Carbon Tetrachloride	2.4	Not Detected	15	Not Detected
2,2,4-Trimethylpentane	2.4	Not Detected	11	Not Detected
Benzene	2.4	3.6	7.8	11
1,2-Dichloroethane	2.4	Not Detected	9.9	Not Detected
Heptane	2.4	2.4 J	10	9.8 J
Trichloroethene	2.4	1.3 J	13	6.9 J
1,2-Dichloropropane	2.4	Not Detected	11	Not Detected
1,4-Dioxane	9.8	Not Detected	35	Not Detected
Bromodichloromethane	2.4	Not Detected	16	Not Detected
cis-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.4	2.8	10	12
Toluene	2.4	2.0 J	9.2	7.5 J
trans-1,3-Dichloropropene	2.4	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.4	Not Detected	13	Not Detected
Tetrachloroethene	2.4	Not Detected	16	Not Detected
2-Hexanone	9.8	15	40	60

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Client Sample ID: B42SSV-2102815

Lab ID#: 1510593-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110220**	**Date of Collection:**	**10/28/15 3:42:00 PM**
Dil. Factor:	**4.89**	**Date of Analysis:**	**11/2/15 10:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.4	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.4	Not Detected	19	Not Detected
Chlorobenzene	2.4	Not Detected	11	Not Detected
Ethyl Benzene	2.4	Not Detected	11	Not Detected
m,p-Xylene	2.4	1.0 J	11	4.4 J
o-Xylene	2.4	Not Detected	11	Not Detected
Styrene	2.4	Not Detected	10	Not Detected
Bromoform	2.4	Not Detected	25	Not Detected
Cumene	2.4	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	2.4	Not Detected	17	Not Detected
Propylbenzene	2.4	Not Detected	12	Not Detected
4-Ethyltoluene	2.4	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.4	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.4	Not Detected	15	Not Detected
1,4-Dichlorobenzene	2.4	Not Detected	15	Not Detected
alpha-Chlorotoluene	2.4	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.4	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	9.8	Not Detected	72	Not Detected
Hexachlorobutadiene	9.8	Not Detected	100	Not Detected
Naphthalene	4.9	0.091 J	26	0.48 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110220.d
Lab Smp Id: 1510593-07A
Inj Date : 02-NOV-2015 22:06
Operator : js Inst ID: msd3.i
Smp Info : 100ml 35613
Misc Info : 5.3 Hg->14.9 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 5
Dil Factor: 4.89000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	4.89000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	114370	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	83956			42.88- 102.88	73.41
5.592	5.592 (1.000)	49	311623			207.65- 267.65	272.47
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.474	6.488 (1.000)	114	450800	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	73750			0.00- 45.78	16.36
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.934	8.942 (1.000)	117	464907	25.0000		80.00- 120.00	100.00
8.941	8.934 (1.000)	82	283405			26.67- 86.67	60.96
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.124	6.124 (1.095)	65	265710	26.5928	26.593	80.00- 120.00	100.00
6.124	6.138 (1.095)	67	116301			22.68- 82.68	43.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.190)	98	523234	27.0376	27.038	80.00- 120.00	100.00
7.702	7.702 (1.190)	70	62407			0.00- 41.75	11.93
7.702	7.702 (1.190)	100	334419			34.13- 94.13	63.91
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.111)	174	283995	24.7324	24.732	80.00- 120.00	100.00
9.923	9.923 (1.111)	95	378725			96.73- 156.73	133.36
9.923	9.923 (1.111)	176	269027			65.47- 125.47	94.73
11 Freon 12					CAS #: 75-71-8		
1.604	1.605 (0.287)	85	2692	0.22527	1.102	80.00- 120.00	100.00(a)
1.604	1.605 (0.287)	87	2206			2.62- 62.62	81.95
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	1731	0.11613	0.5679	80.00- 120.00	100.00(a)
2.696	2.710 (0.482)	103	1109			33.61- 93.61	64.12
42 Ethanol					CAS #: 64-17-5		
3.102	3.074 (0.555)	45	97368	32.8971	160.87	80.00- 120.00	100.00
3.102	3.074 (0.555)	43	19086			0.00- 51.11	19.60
3.102	3.060 (0.555)	46	35375			10.70- 70.70	36.33
52 Acetone					CAS #: 67-64-1		
3.563	3.549 (0.637)	58	181414	57.6358	281.84	80.00- 120.00	100.00
3.563	3.549 (0.637)	43	798771			351.83- 411.83	440.30
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	2069	0.17919	0.8762	80.00- 120.00	100.00(a)
57 2-Propanol					CAS #: 67-63-0		
3.759	3.717 (0.672)	45	124942	9.38354	45.886	80.00- 120.00	100.00
3.745	3.717 (0.670)	43	25369			0.00- 48.10	20.30
3.759	3.717 (0.672)	59	4873			0.00- 33.34	3.90
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	2520	0.23393	1.144	80.00- 120.00	100.00(a)
4.487	4.501 (0.802)	43	2047			44.95- 104.95	81.23
4.487	4.501 (0.802)	86	240			0.00- 40.12	9.53
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	17551	8.07810	39.502	80.00- 120.00	100.00
5.396	5.382 (0.965)	43	159543			717.19- 777.19	909.02
5.396	5.396 (0.965)	57	9909			21.09- 81.09	56.46
99 Tetrahydrofuran					CAS #: 109-99-9		
5.606	5.592 (1.002)	42	4804	0.49971	2.444	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran (continued)							
5.634	5.592 (1.008)	71	966			0.00- 49.93	20.11
5.592	5.592 (1.000)	72	998			0.00- 50.49	20.78
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.944)	78	9082	0.72847	3.562	80.00- 120.00	100.00
6.096	6.110 (0.942)	77	2377			0.00- 54.02	26.18
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.965)	71	2358	0.49105	2.401	80.00- 120.00	100.00(a)
6.250	6.250 (0.965)	43	5941			309.54- 369.54	251.85
6.250	6.250 (0.965)	57	4914			143.16- 203.16	208.35
125 Trichloroethene					CAS #: 79-01-6		
6.671	6.678 (1.030)	95	1642	0.26164	1.279	80.00- 120.00	100.00(a)
6.685	6.678 (1.033)	130	2537			68.86- 128.86	154.51
6.685	6.678 (1.033)	97	1839			32.82- 92.82	112.03
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.631 (1.180)	58	4178	0.57475	2.810	80.00- 120.00	100.00
7.631	7.631 (1.179)	43	13024			274.73- 334.73	311.69
7.631	7.631 (1.179)	85	1557			0.00- 58.76	37.27
147 Toluene					CAS #: 108-88-3		
7.752	7.760 (1.198)	91	7030	0.40710	1.991	80.00- 120.00	100.00(a)
7.760	7.760 (1.199)	92	5158			27.05- 87.05	73.37
158 2-Hexanone					CAS #: 591-78-6		
8.325	8.318 (0.932)	58	30286	3.01611	14.749	80.00- 120.00	100.00
8.325	8.318 (0.932)	43	67863			189.79- 249.79	224.07
8.318	8.318 (0.931)	100	4294			0.00- 43.05	14.18
169 m,p-Xylene					CAS #: 108-38-3		
9.113	9.106 (1.020)	106	2095	0.20889	1.021	80.00- 120.00	100.00(a)
9.106	9.106 (1.019)	91	4396			185.23- 245.23	209.85
228 Naphthalene					CAS #: 91-20-3		
12.974	12.967 (1.452)	128	703	0.01868	0.09133	80.00- 120.00	100.00(a)
0.000	12.960 (0.000)	127	0			0.00- 42.95	0.00

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110220.d
Lab Smp Id: 1510593-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 5.3 Hg->14.9 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	114370	4.19
123 1,4-Difluorobenze	462095	277257	646933	450800	-2.44
163 Chlorobenzene-d5	458379	275027	641731	464907	1.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.47	-0.22
163 Chlorobenzene-d5	8.94	8.61	9.27	8.93	-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: 04-Nov-2015 08:10

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-07A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 5.3 Hg->14.9 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.593	106.37	70-130
$ 146 Toluene-d8	25.000	27.038	108.15	70-130
$ 177 4-Bromofluorobenze	25.000	24.732	98.93	70-130

Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

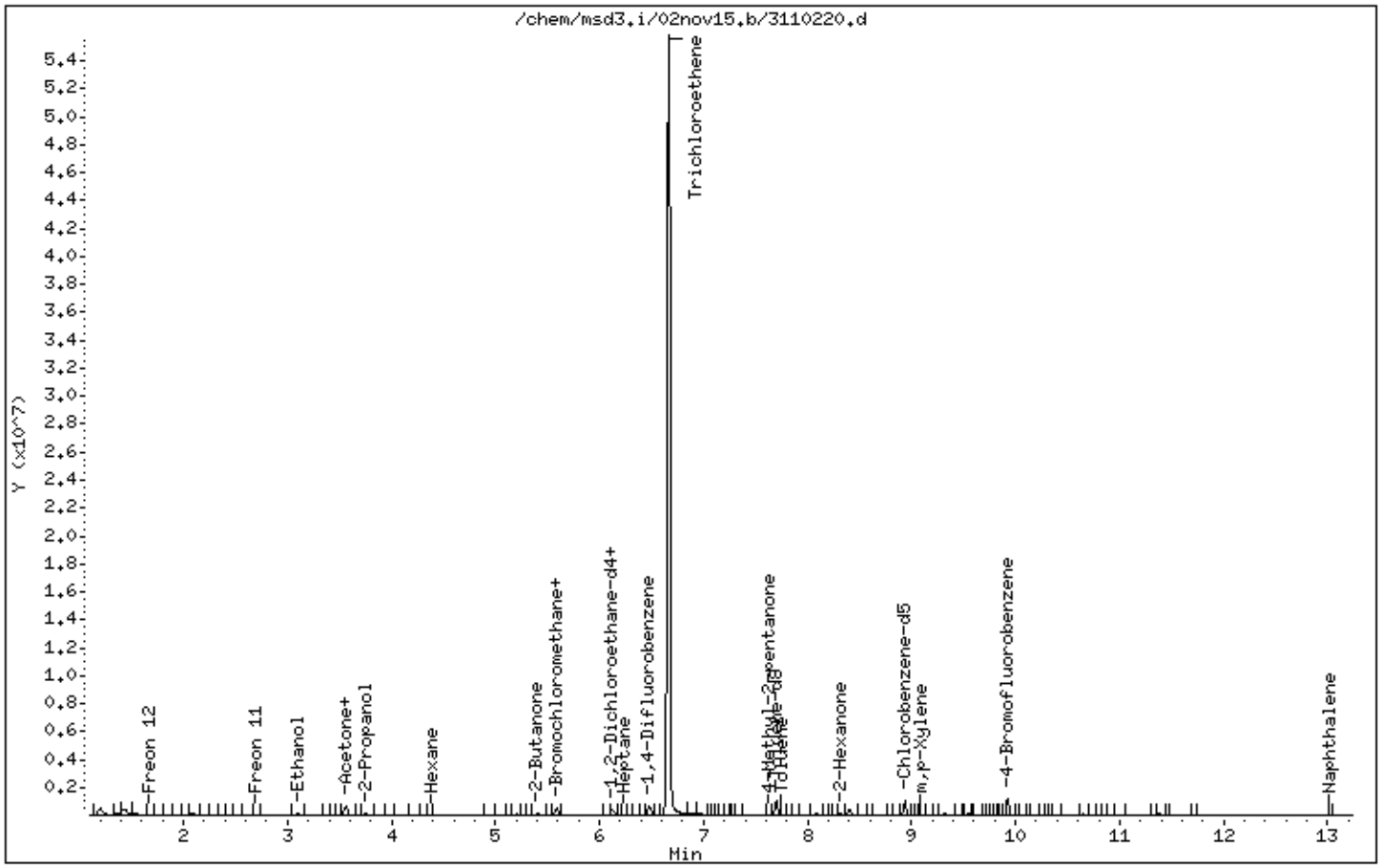
Instrument: msd3.i

Sample Info: 100ml 35613

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

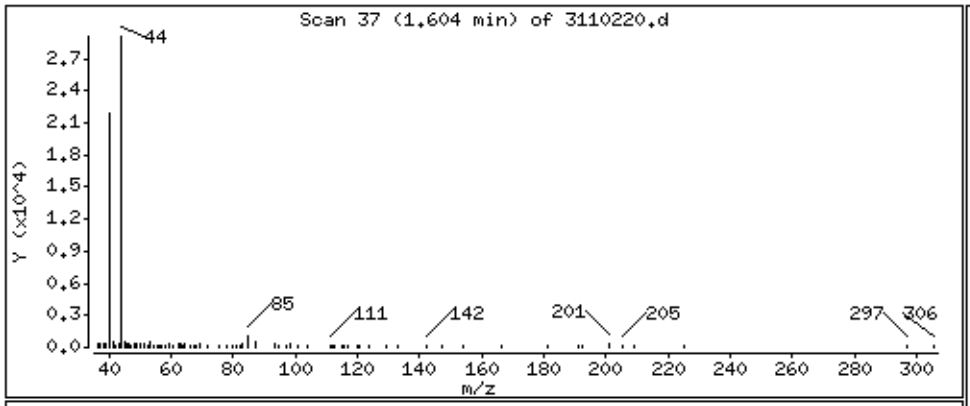
Operator: js

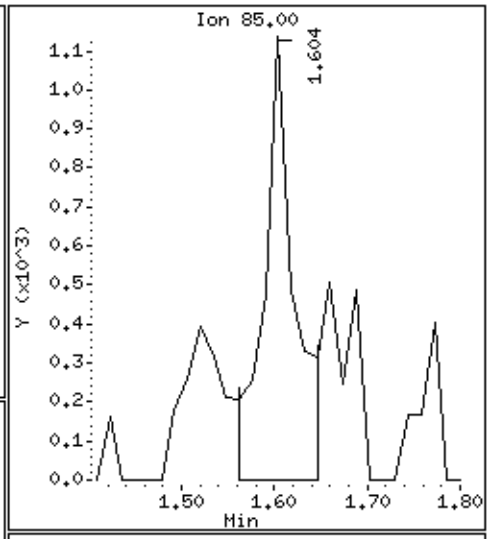
Column phase: RTX-624

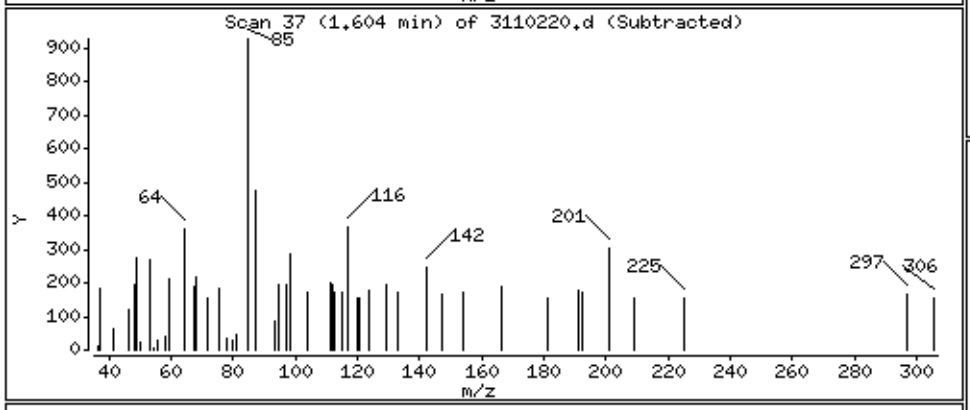
Column diameter: 0.25

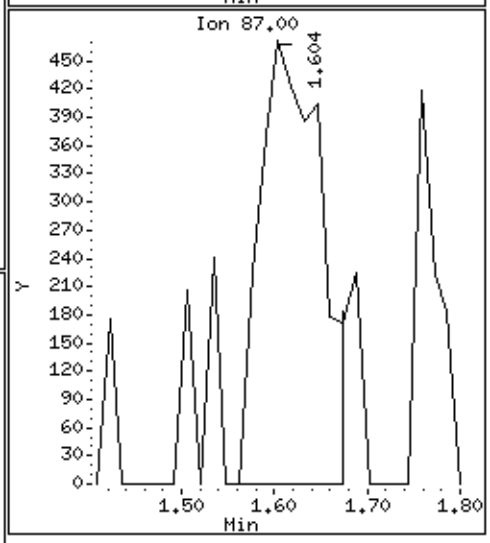
11 Freon 12

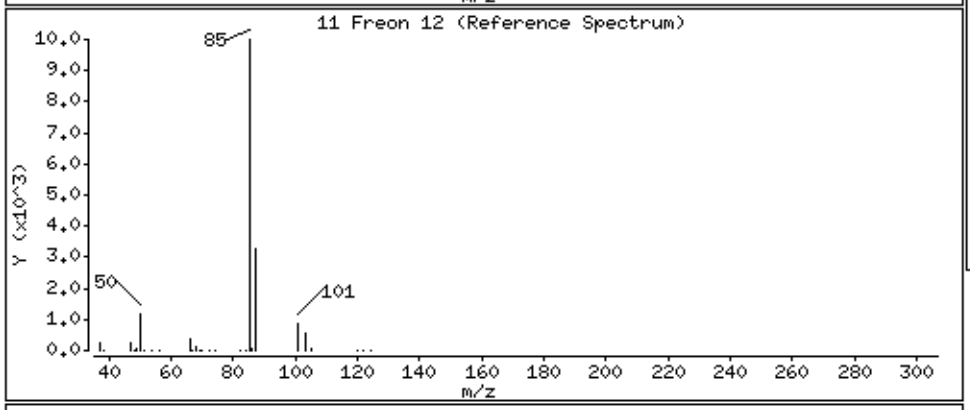
Concentration: 1.102 PPBV

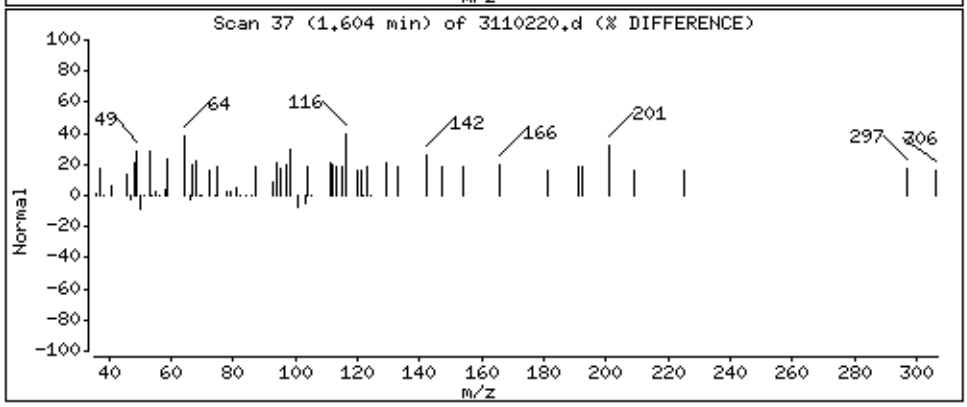












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

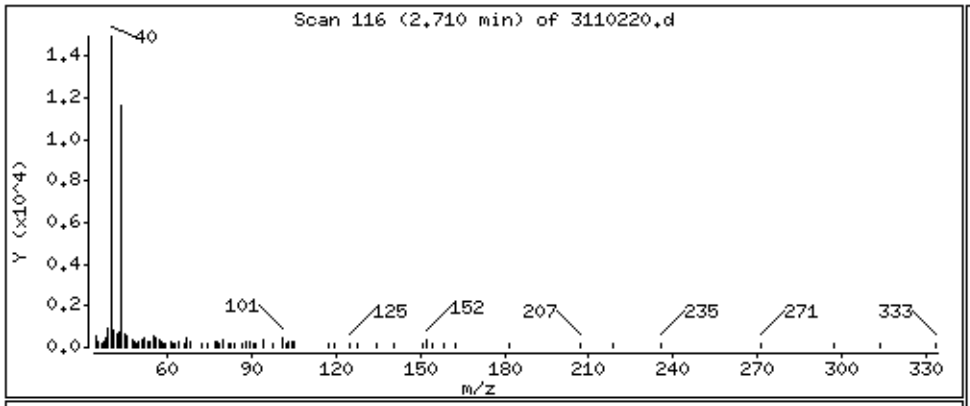
Operator: js

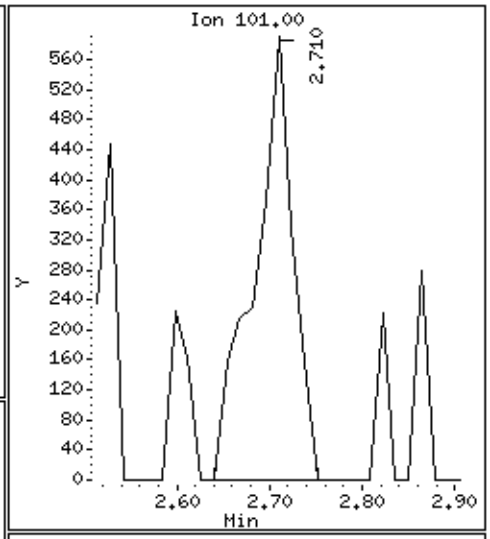
Column phase: RTX-624

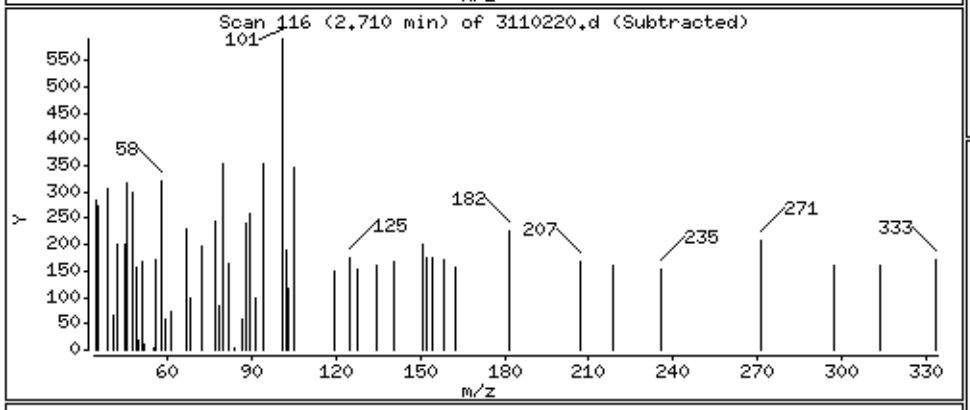
Column diameter: 0.25

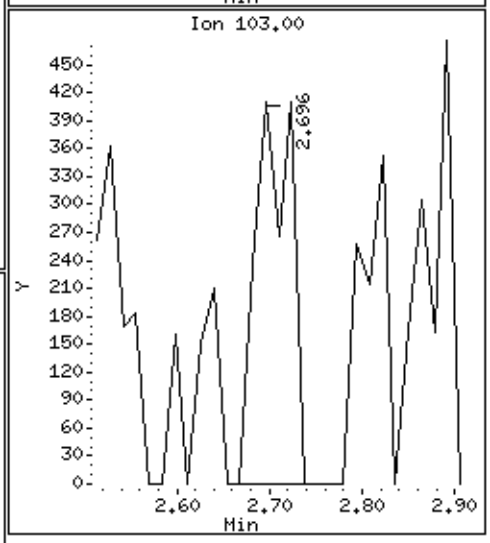
35 Freon 11

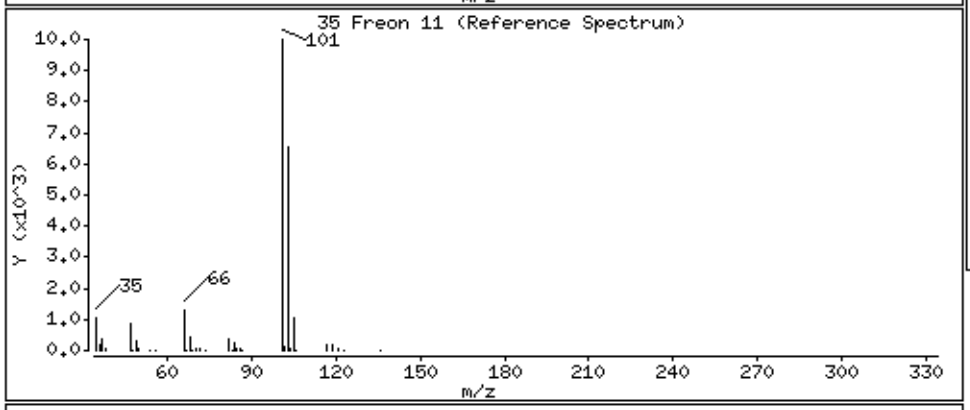
Concentration: 0.5679 PPBV

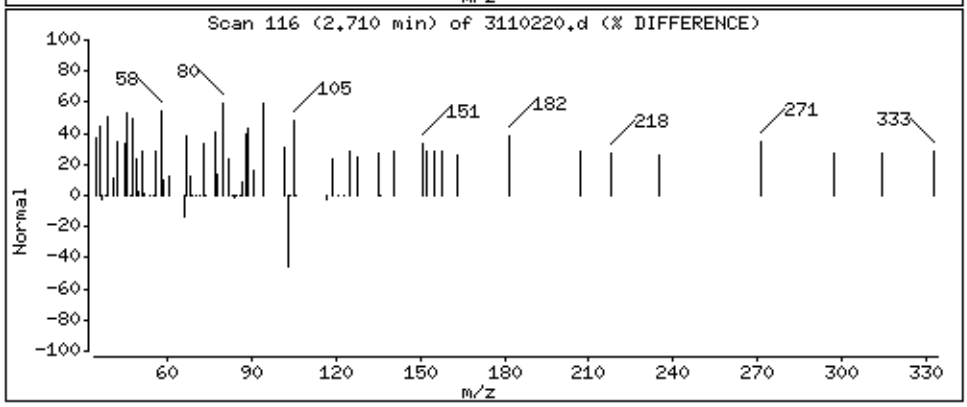












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

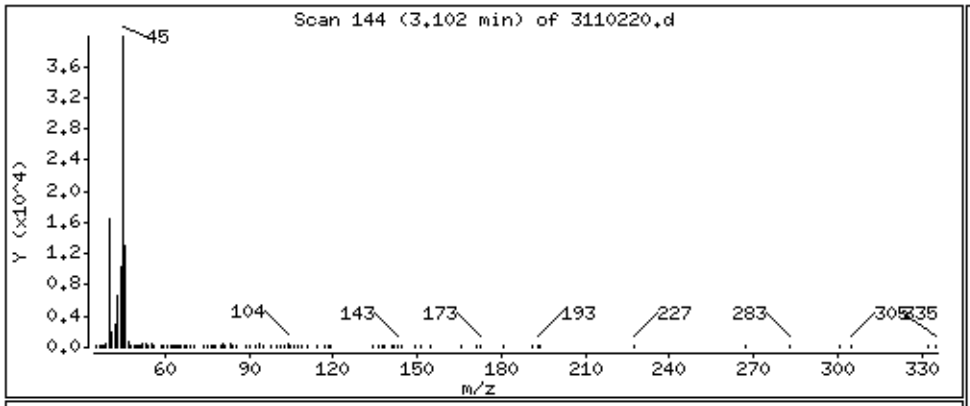
Operator: js

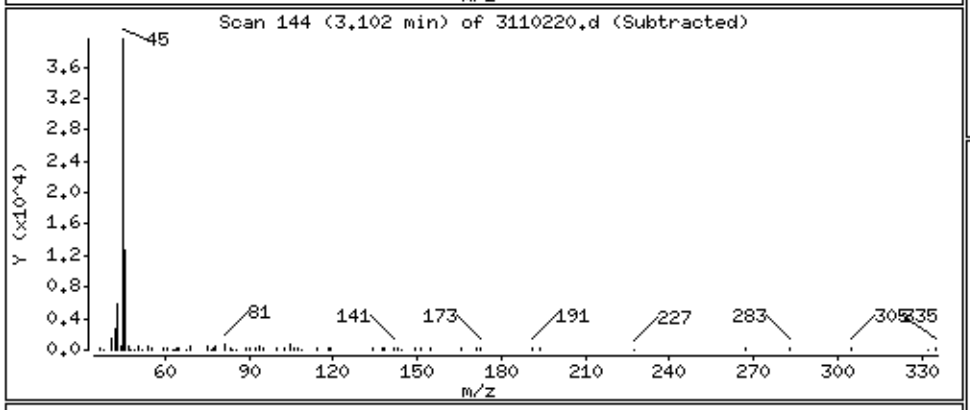
Column phase: RTX-624

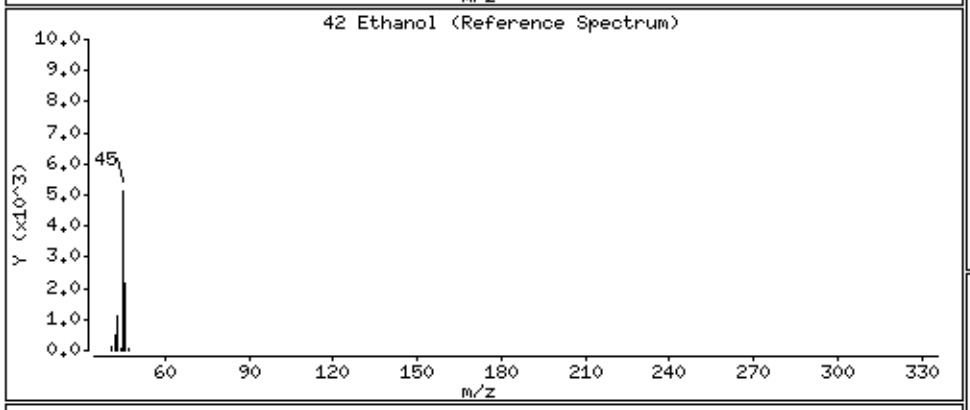
Column diameter: 0.25

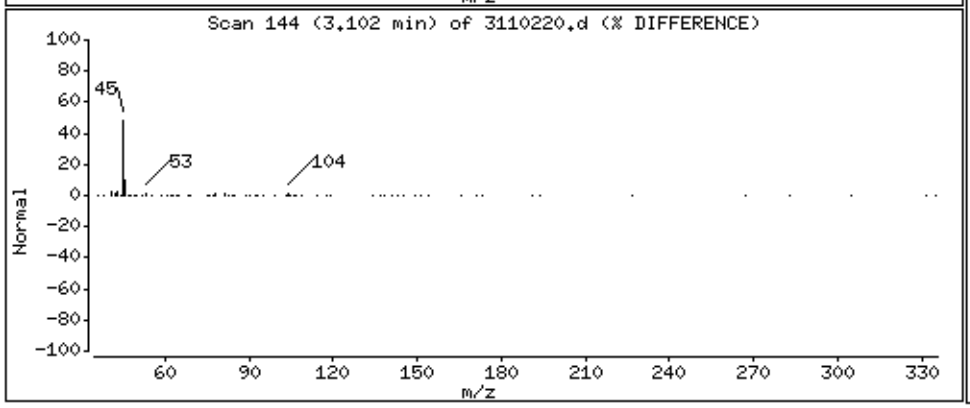
42 Ethanol

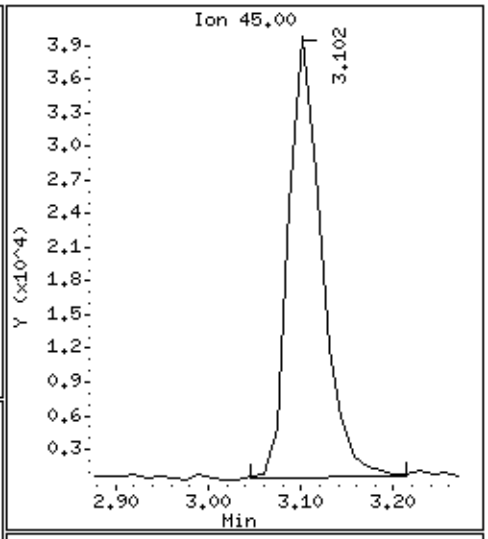
Concentration: 160.87 PPBV

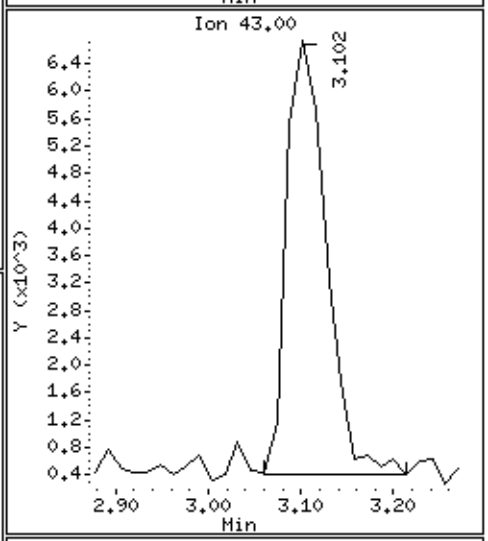


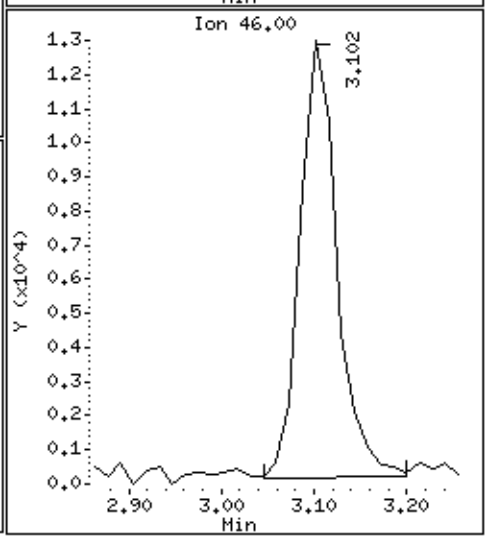












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

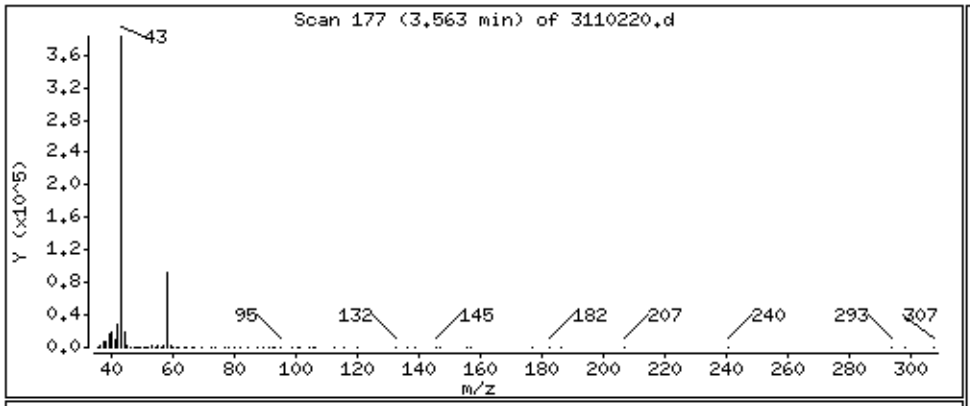
Operator: js

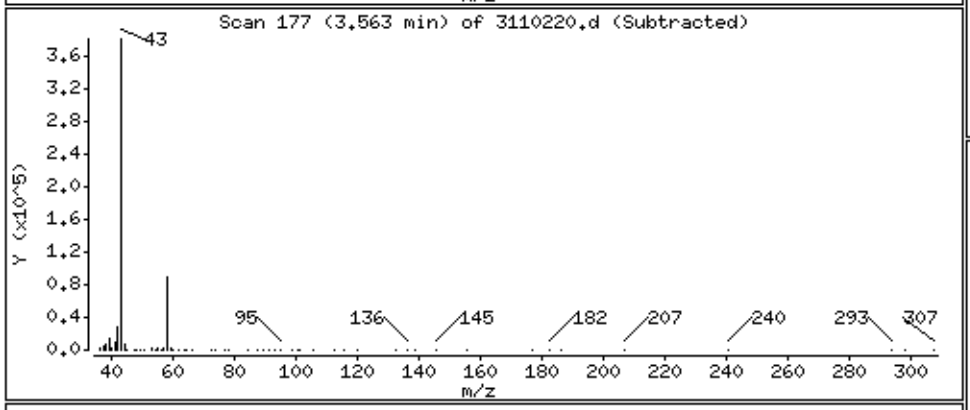
Column phase: RTX-624

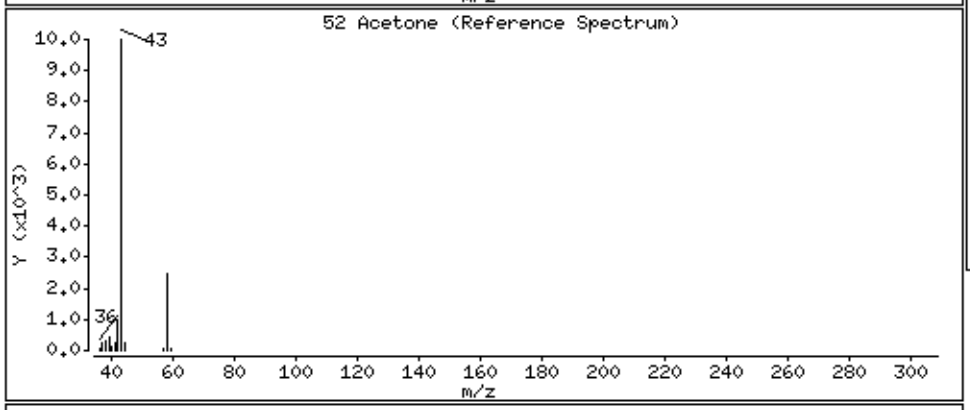
Column diameter: 0.25

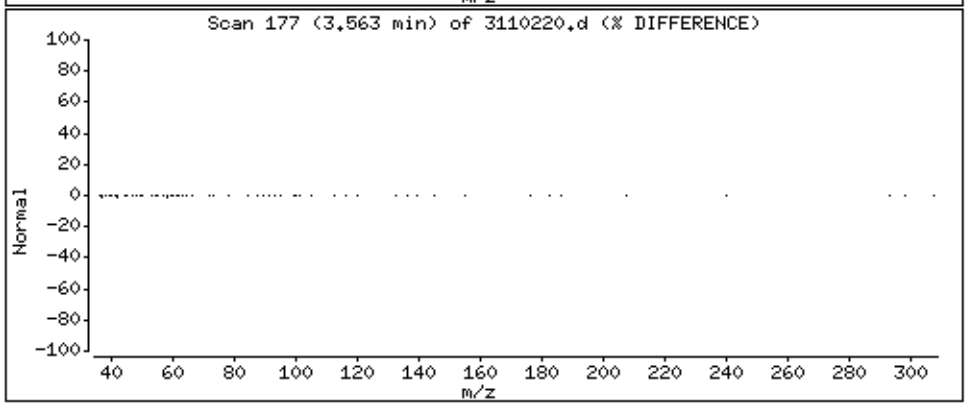
52 Acetone

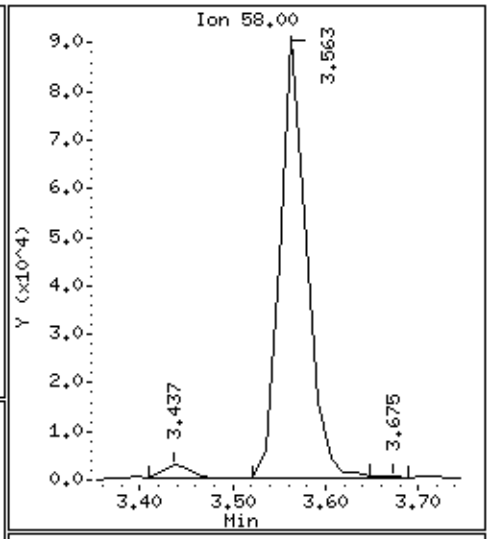
Concentration: 281.84 PPBV

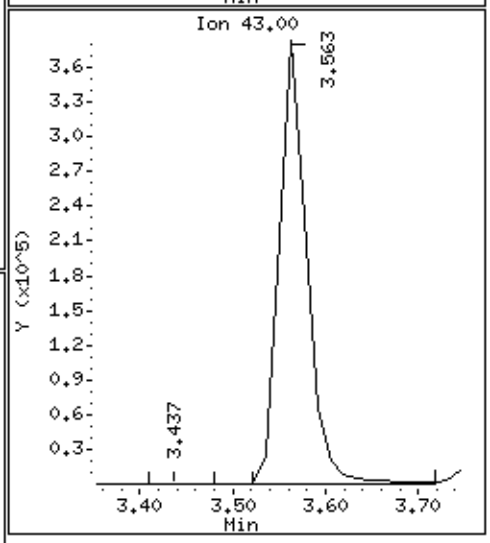












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

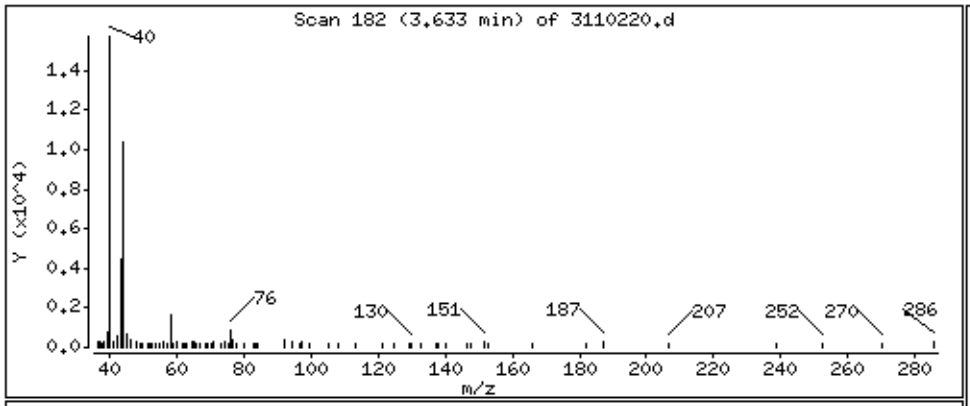
Operator: js

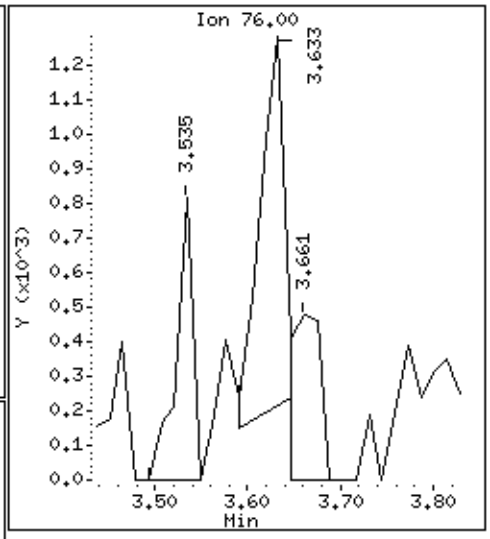
Column phase: RTX-624

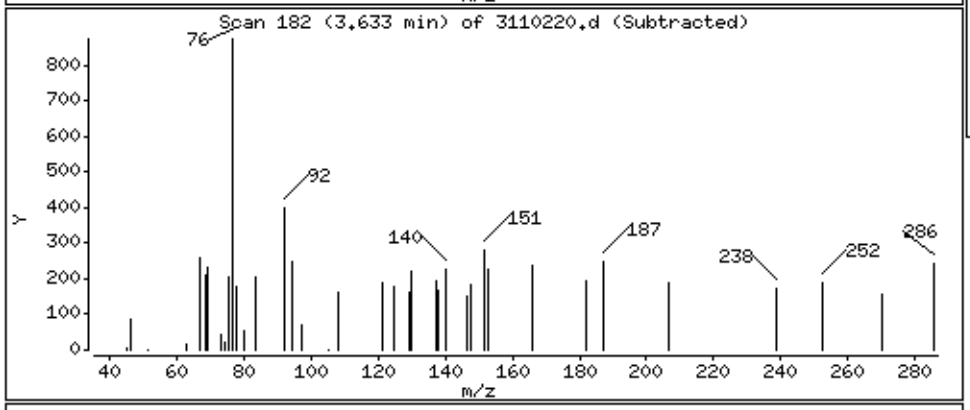
Column diameter: 0.25

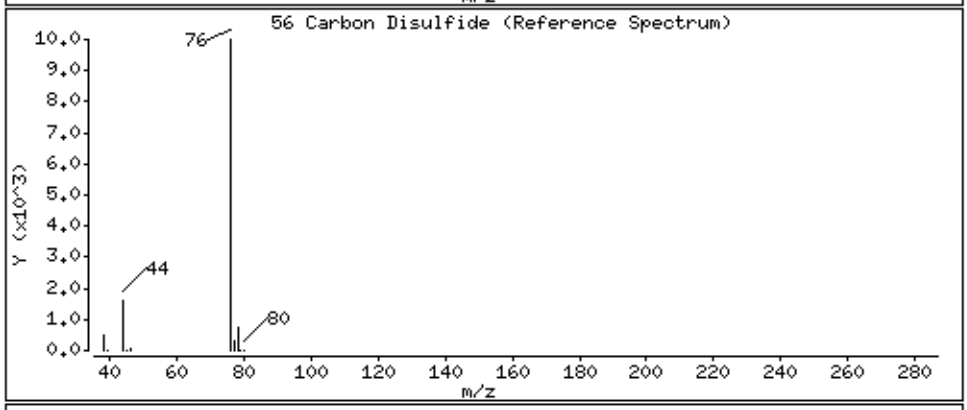
56 Carbon Disulfide

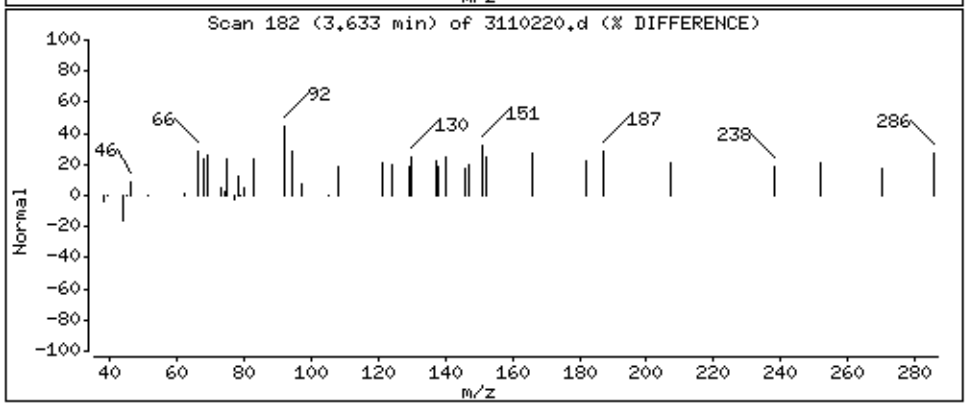
Concentration: 0.8762 PPBV











Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

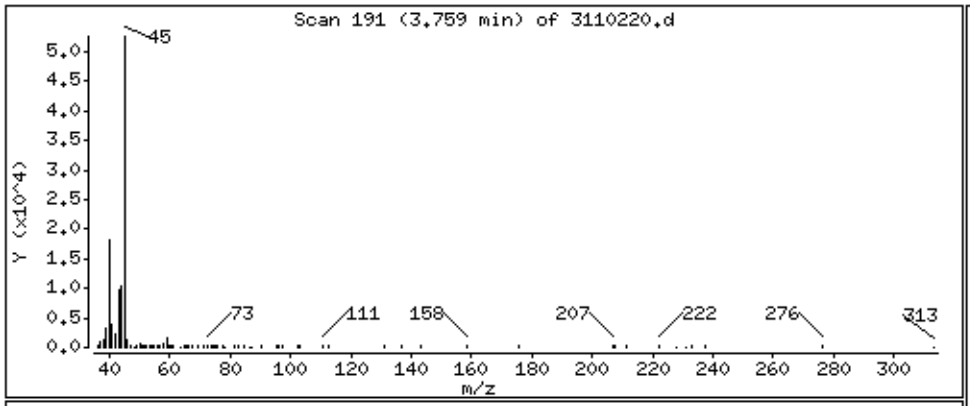
Operator: js

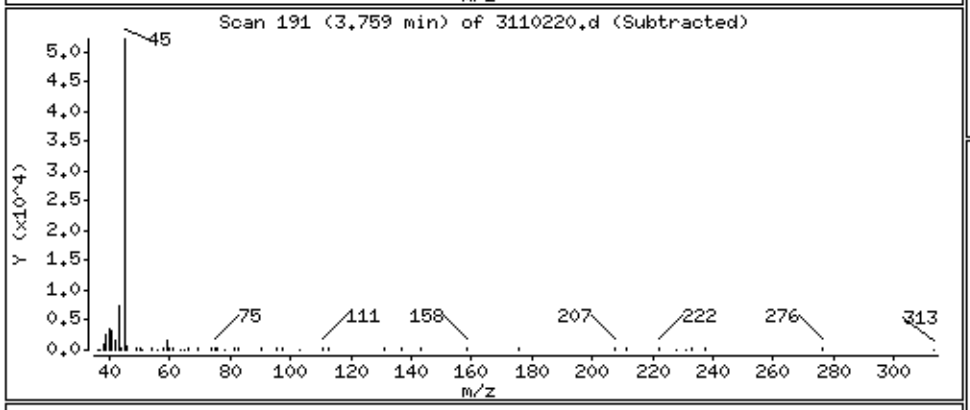
Column phase: RTX-624

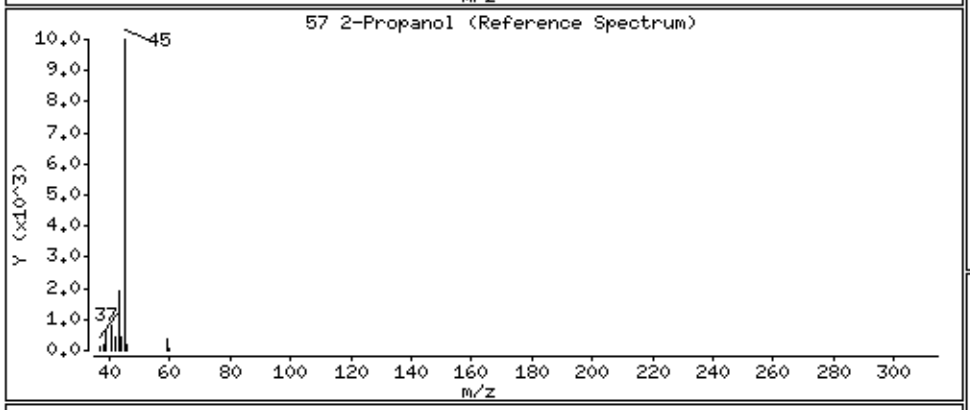
Column diameter: 0.25

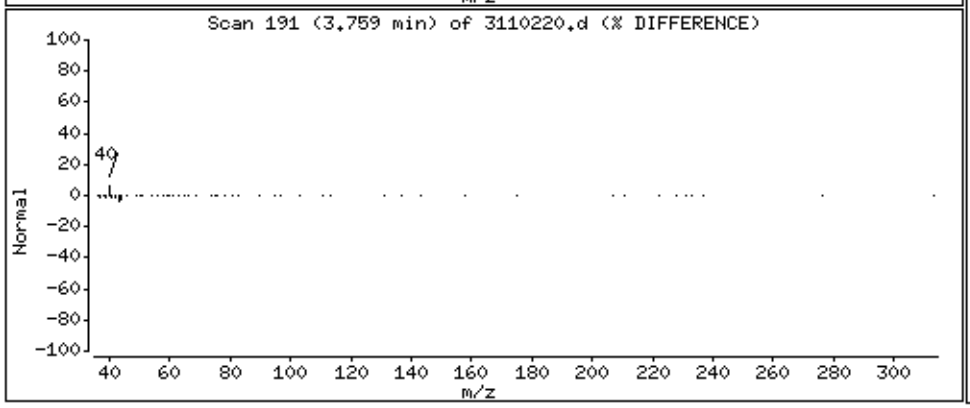
57 2-Propanol

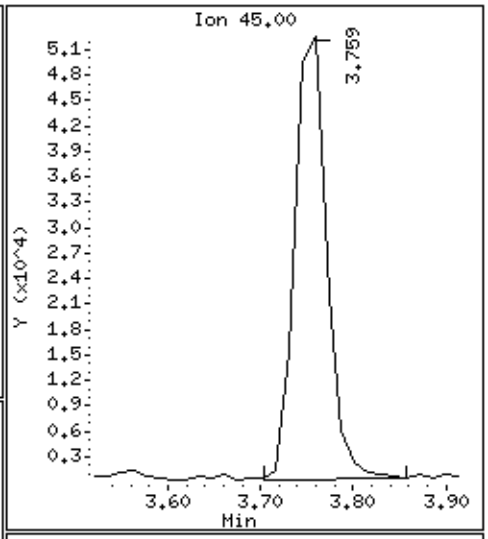
Concentration: 45.886 PPBV

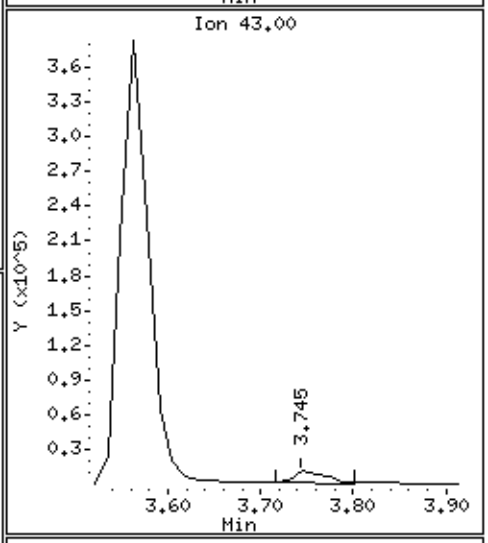


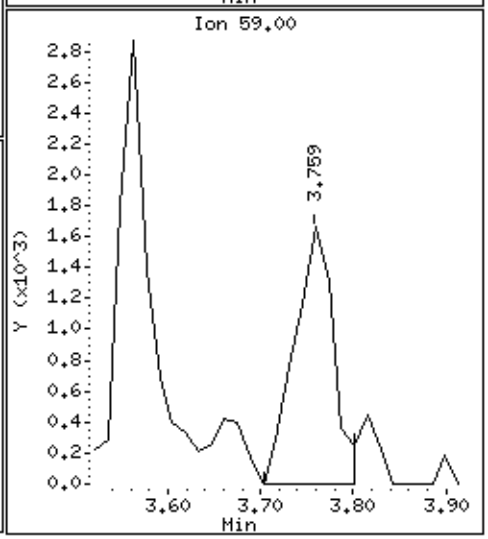












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

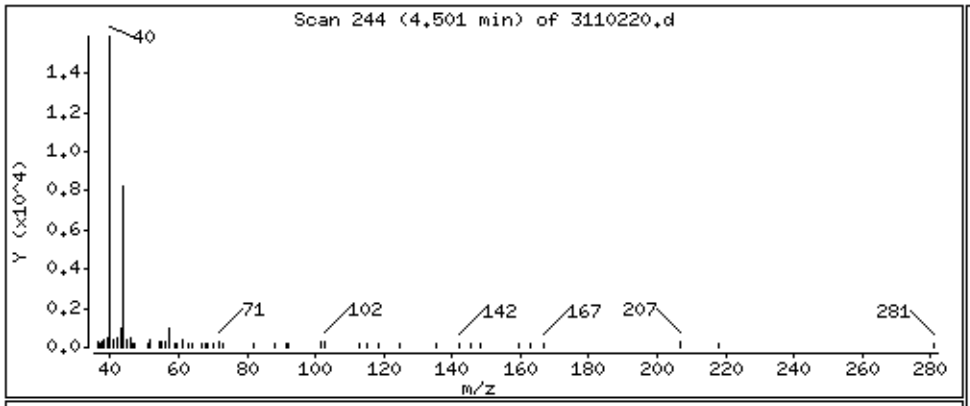
Operator: js

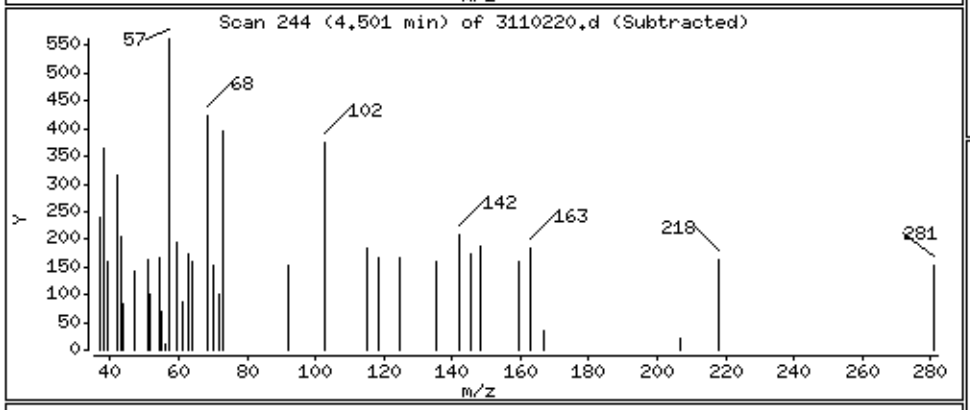
Column phase: RTX-624

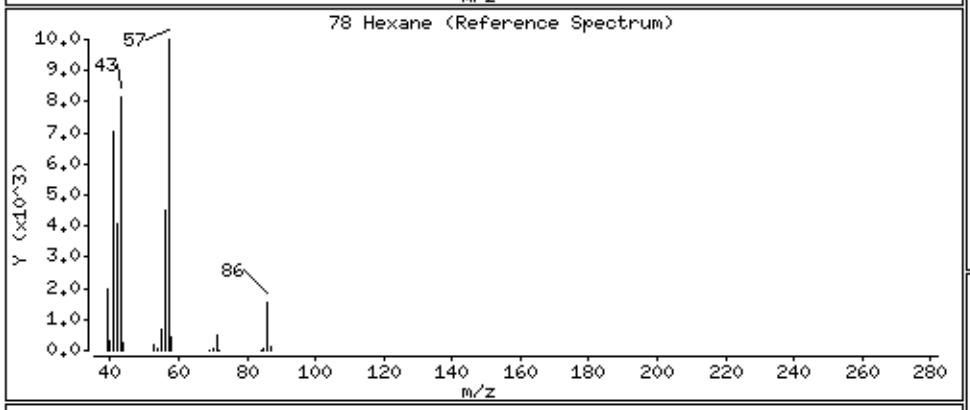
Column diameter: 0.25

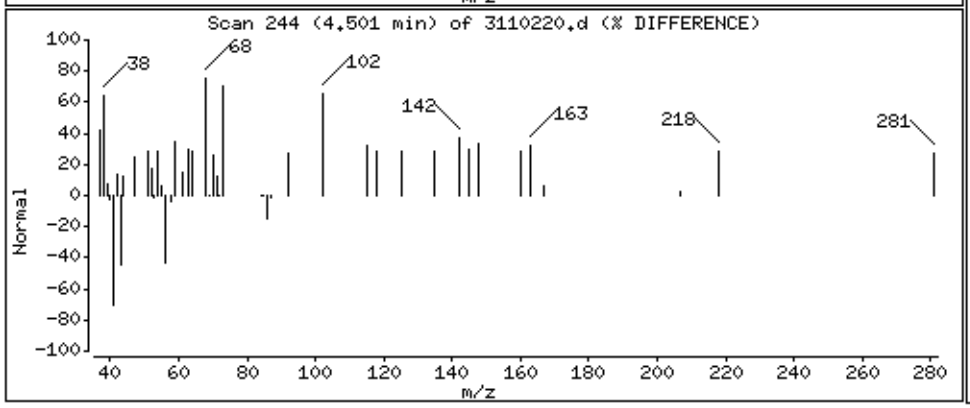
78 Hexane

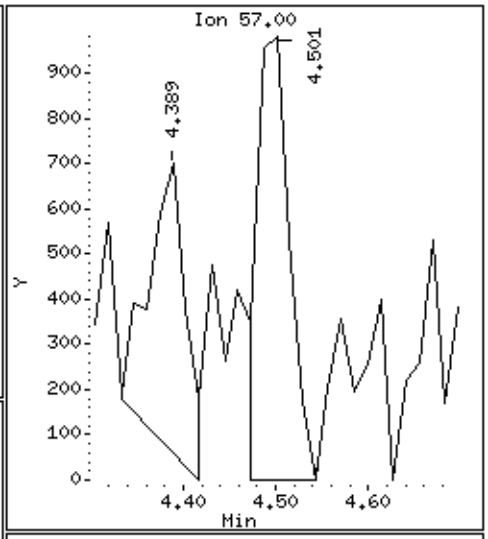
Concentration: 1.144 PPBV

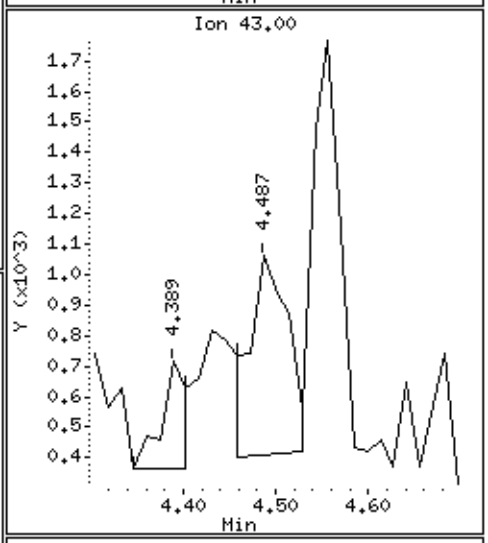


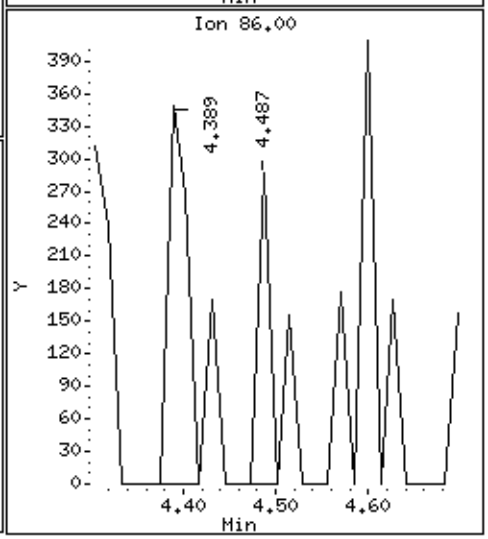












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

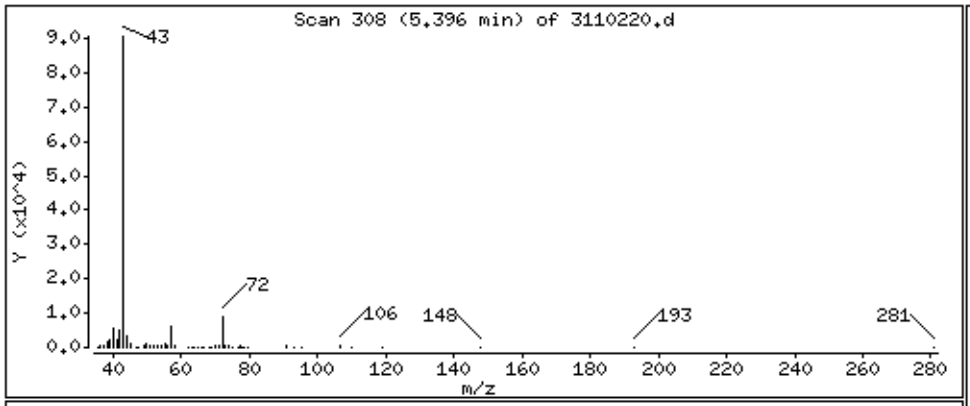
Operator: js

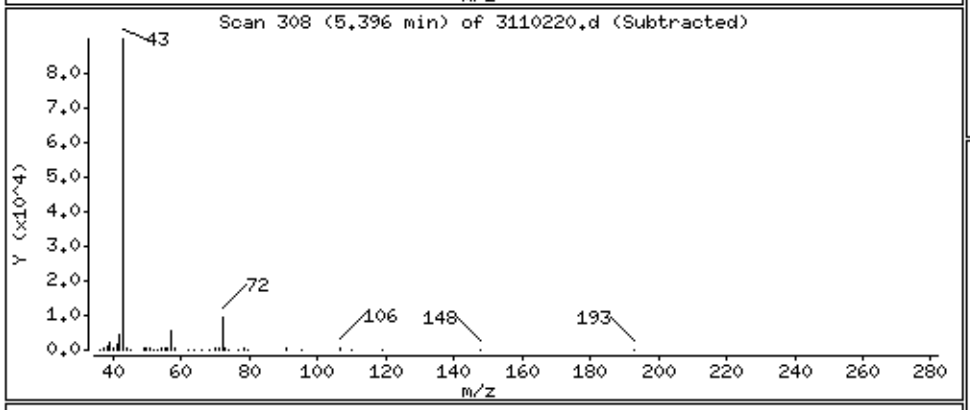
Column phase: RTX-624

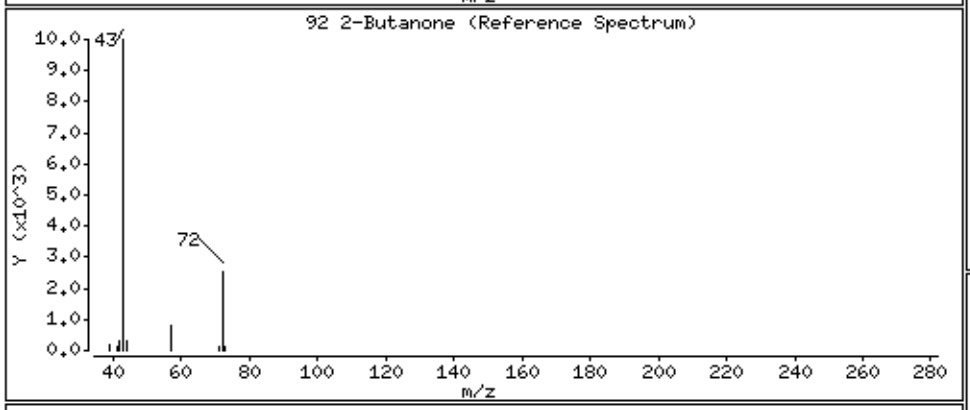
Column diameter: 0.25

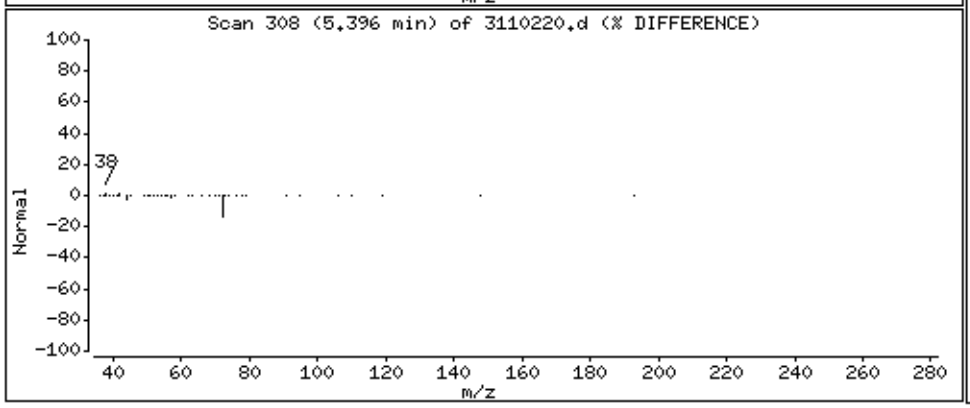
92 2-Butanone

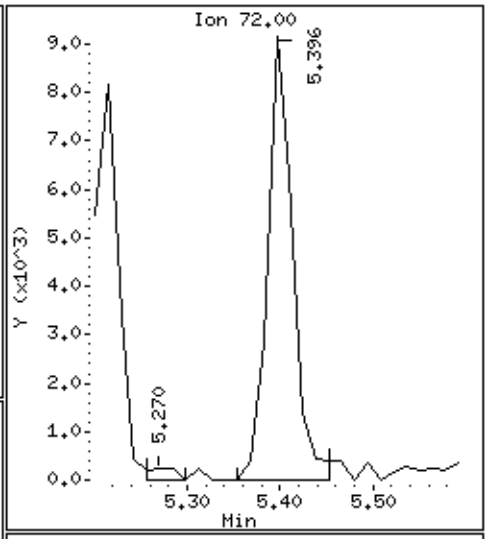
Concentration: 39.502 PPBV

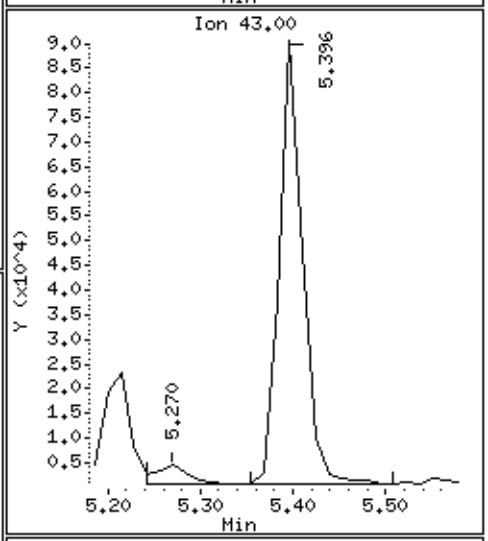


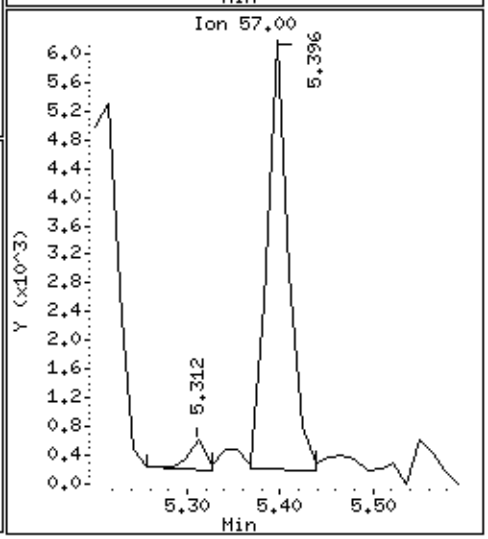












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

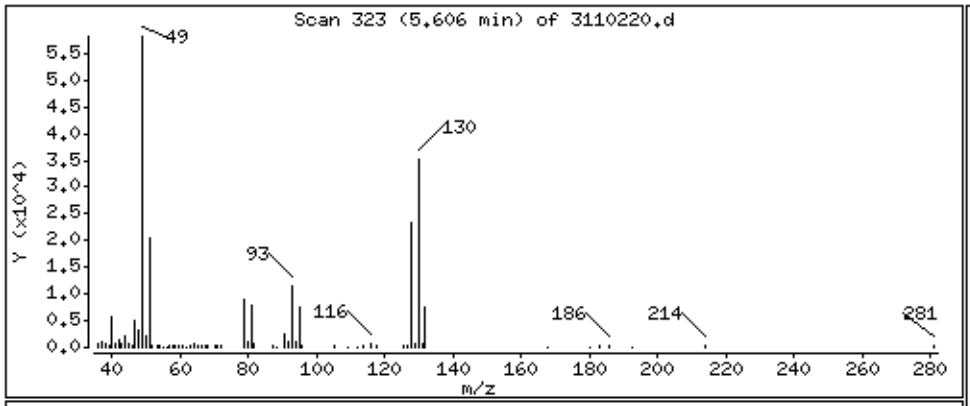
Operator: js

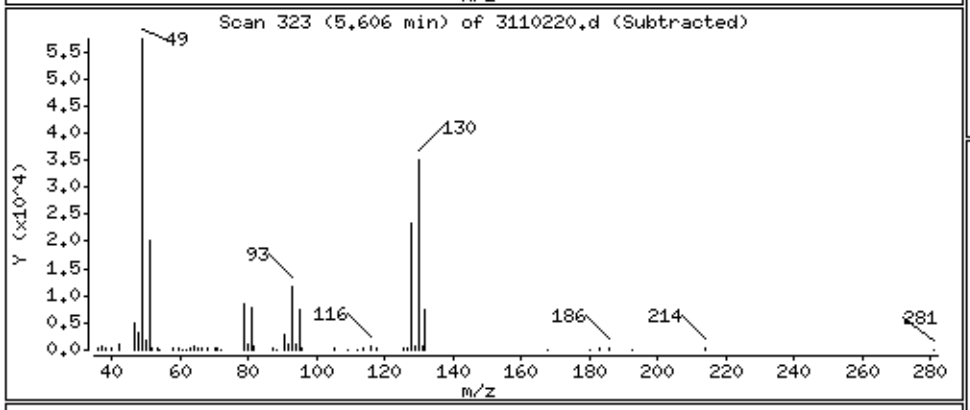
Column phase: RTX-624

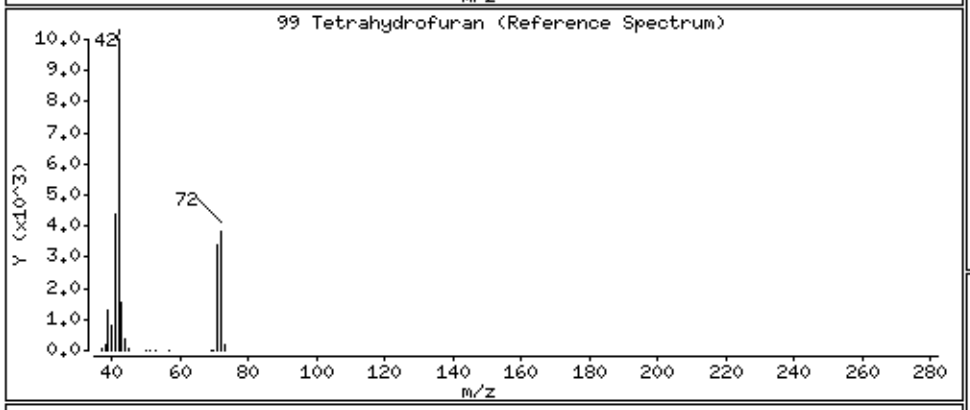
Column diameter: 0.25

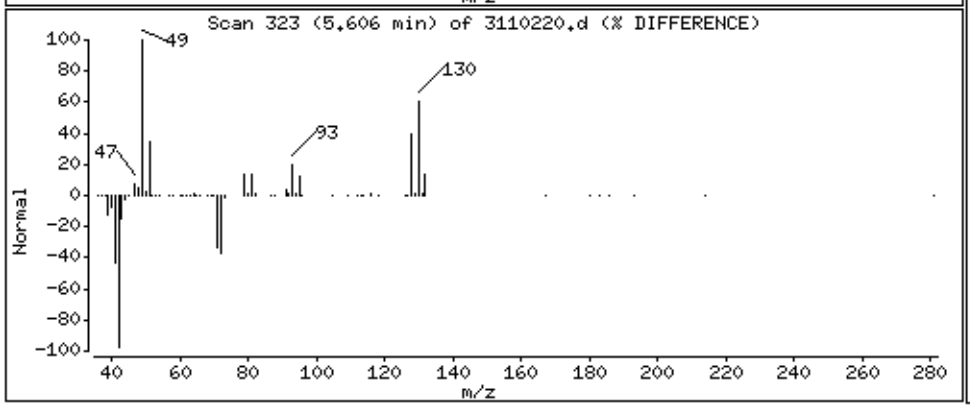
99 Tetrahydrofuran

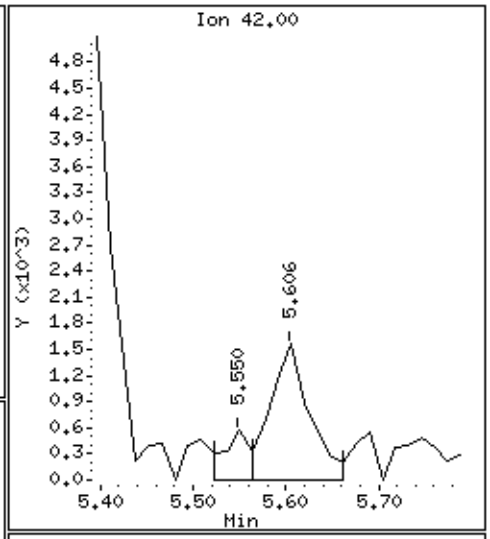
Concentration: 2.444 PPBV

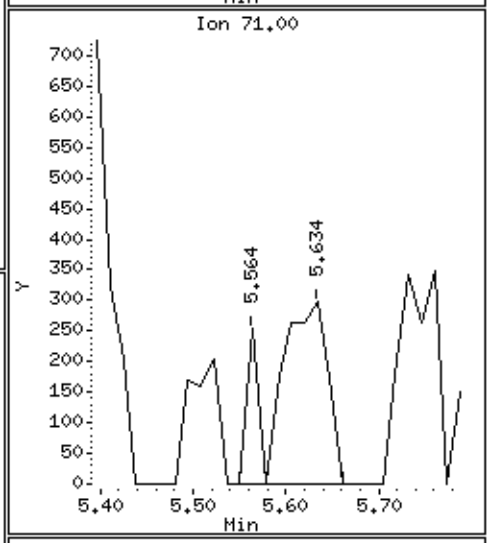


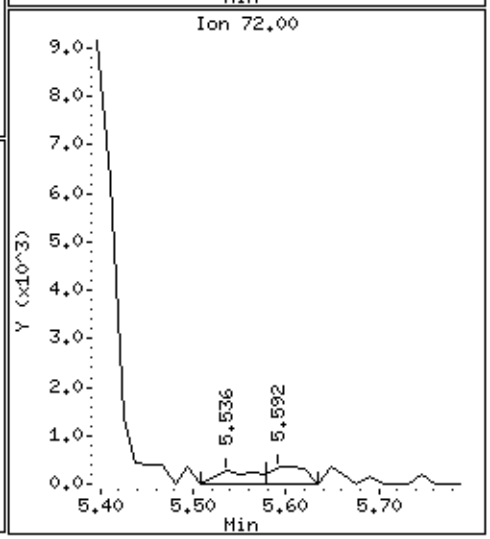












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

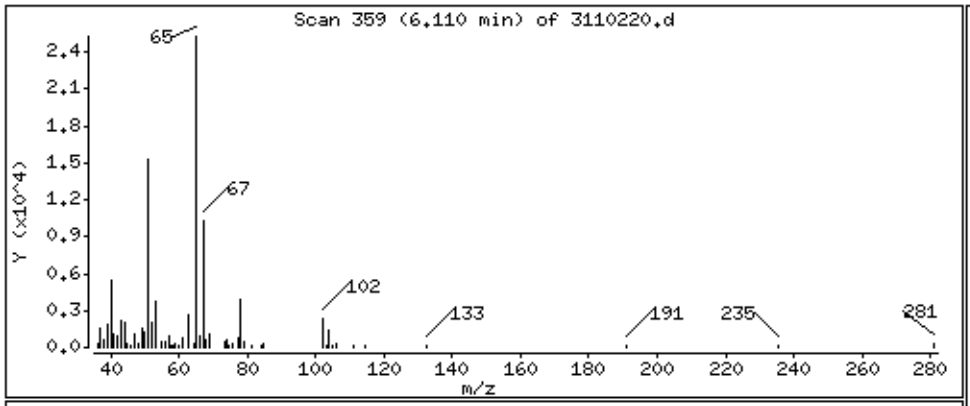
Operator: js

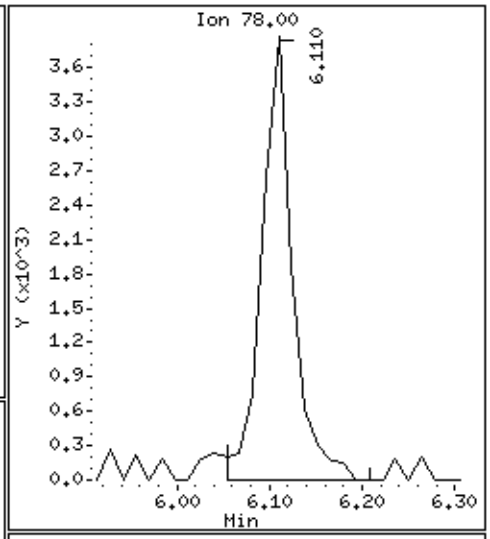
Column phase: RTX-624

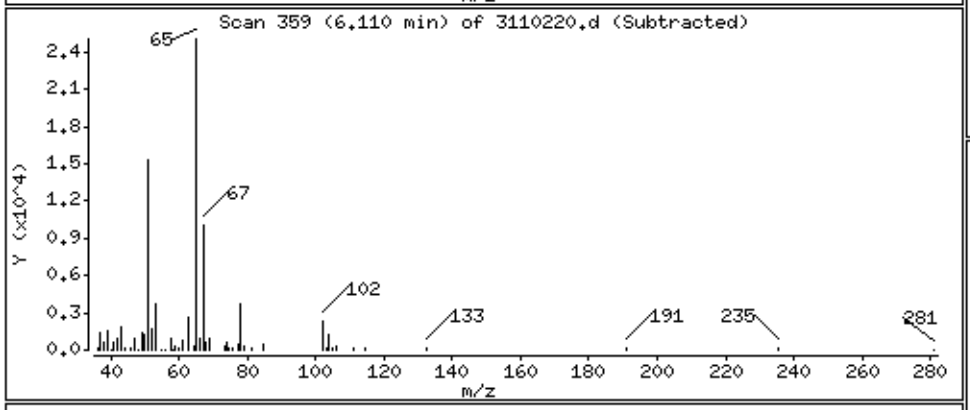
Column diameter: 0.25

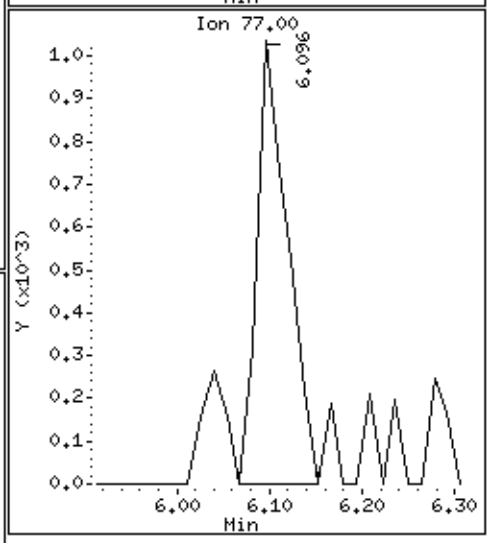
116 Benzene

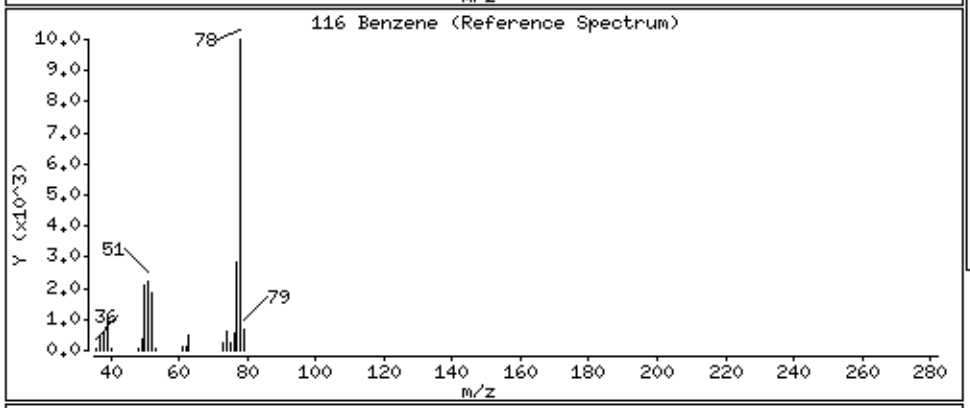
Concentration: 3.562 PPBV

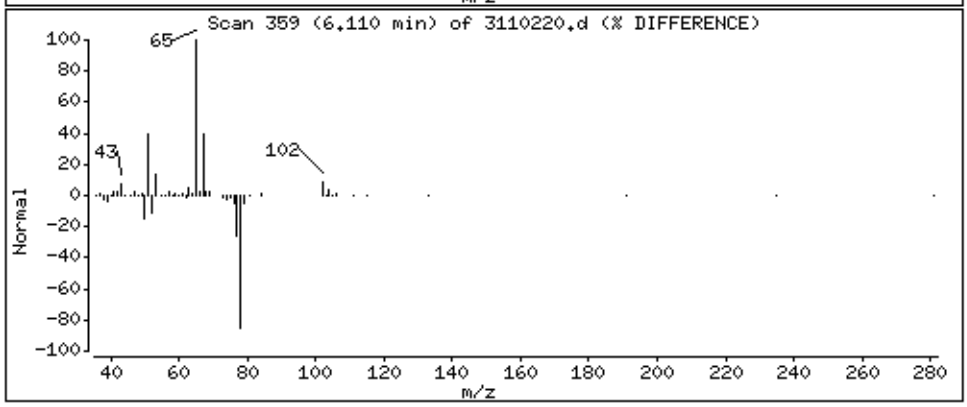












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

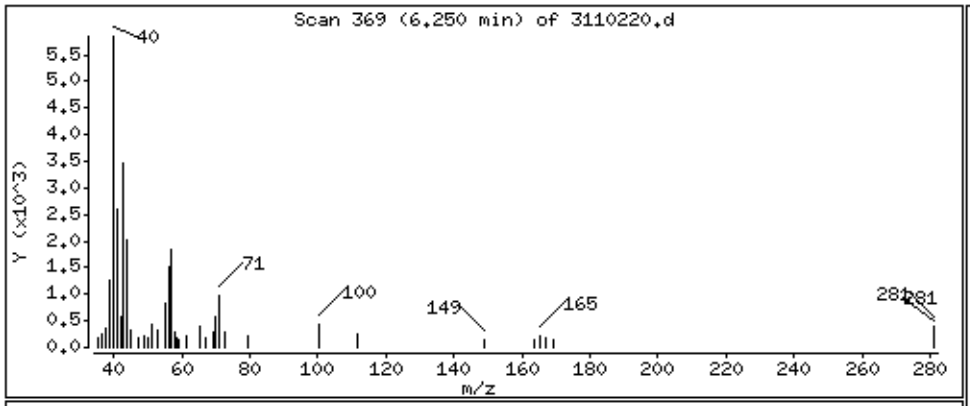
Operator: js

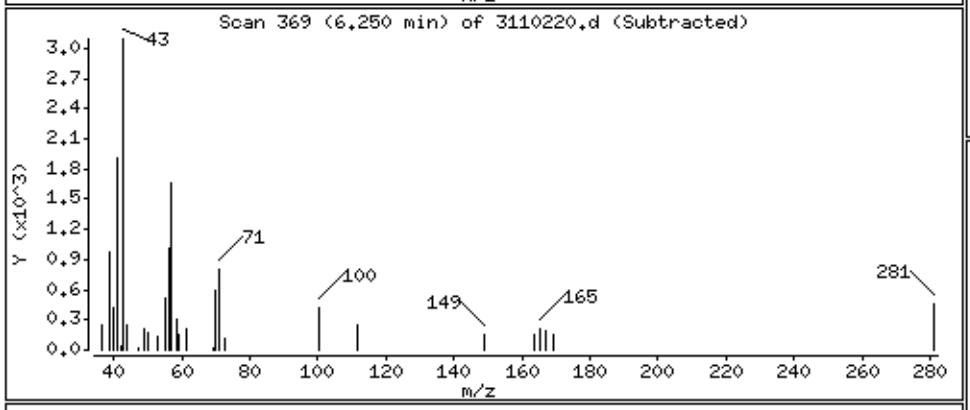
Column phase: RTX-624

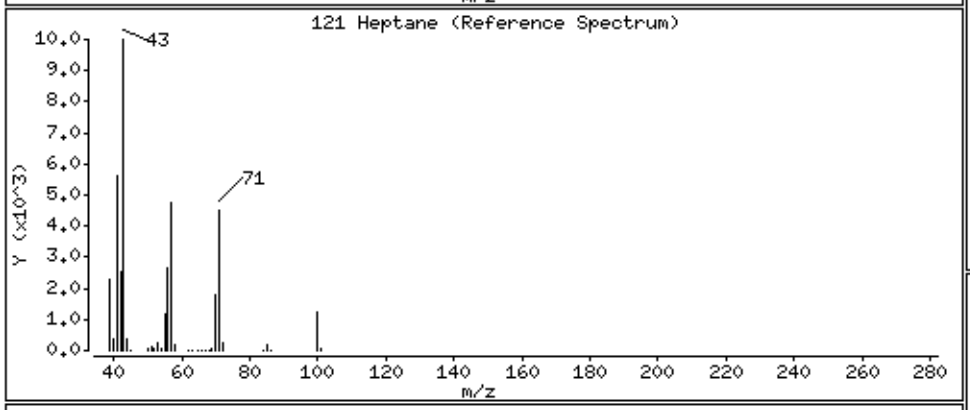
Column diameter: 0.25

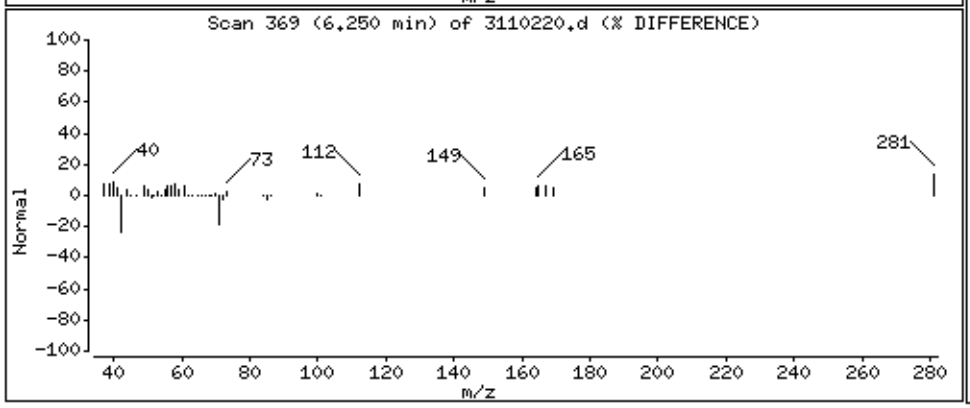
121 Heptane

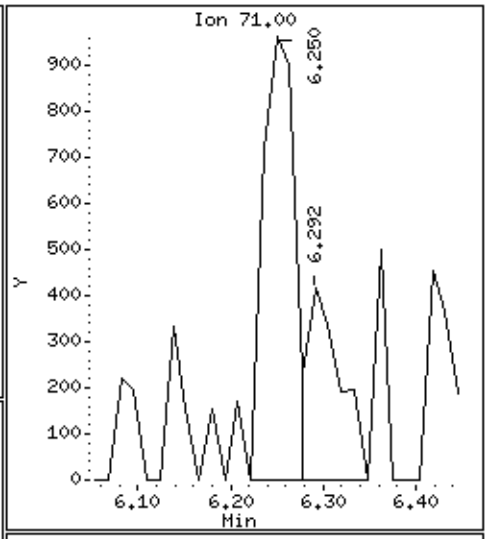
Concentration: 2.401 PPBV

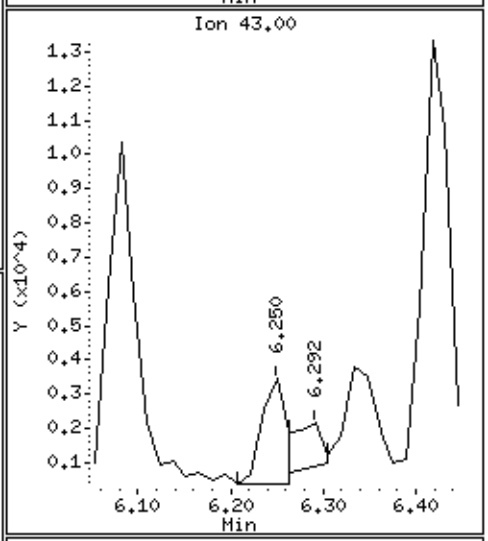


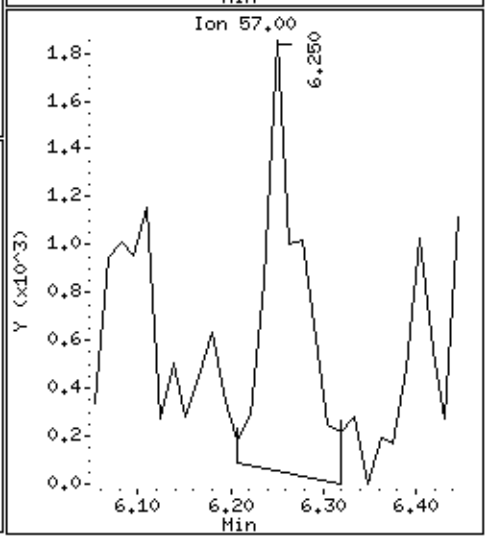












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

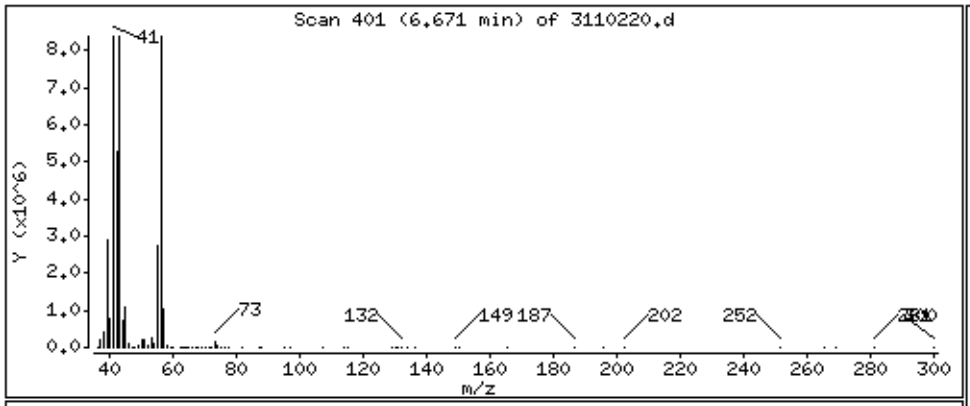
Operator: js

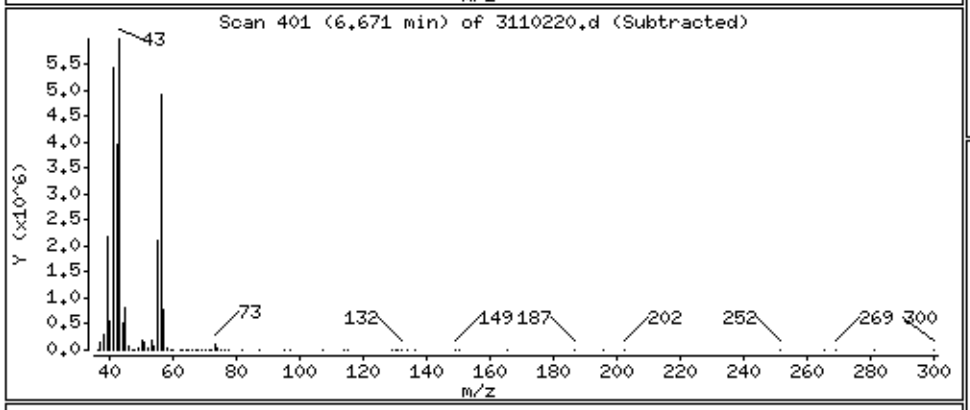
Column phase: RTX-624

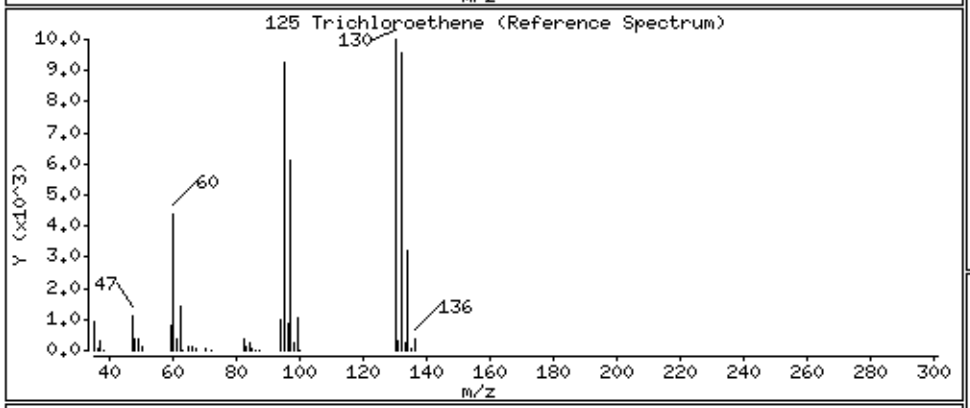
Column diameter: 0.25

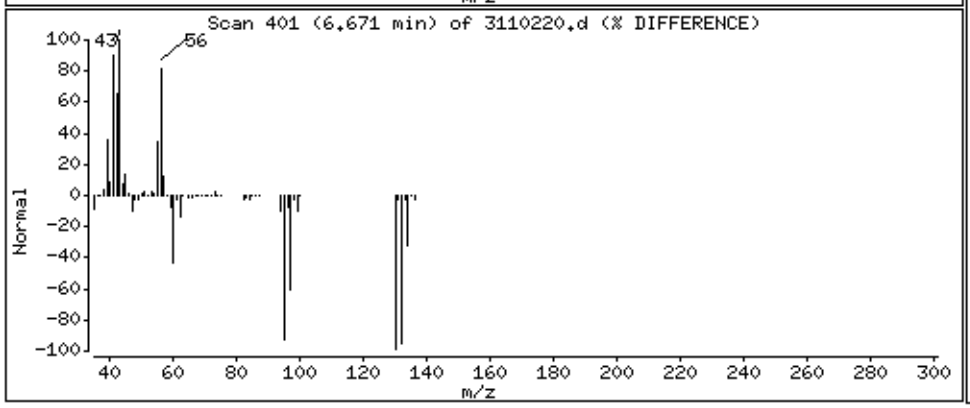
125 Trichloroethene

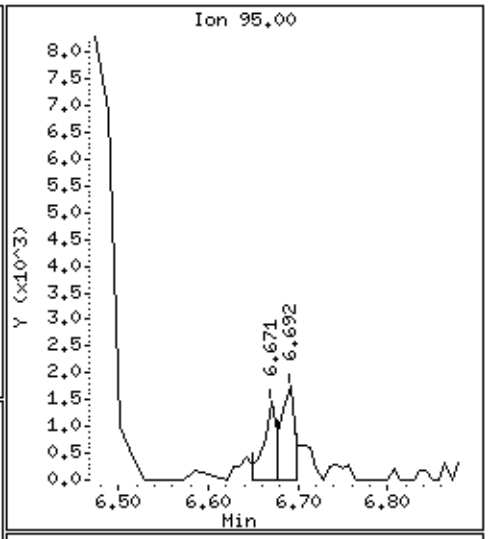
Concentration: 1.279 PPBV

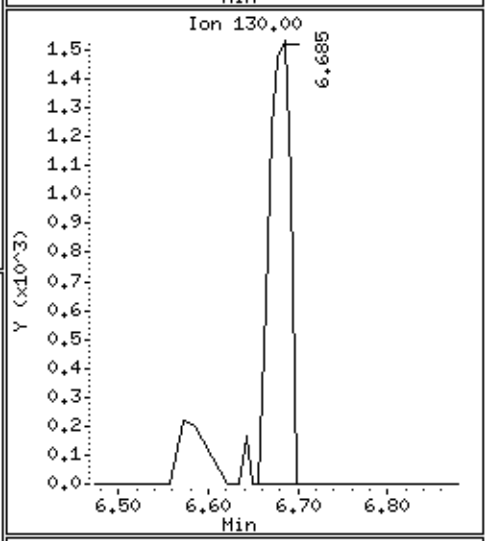


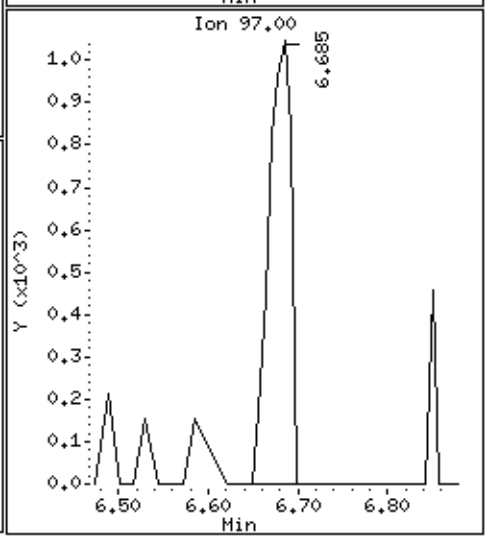












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

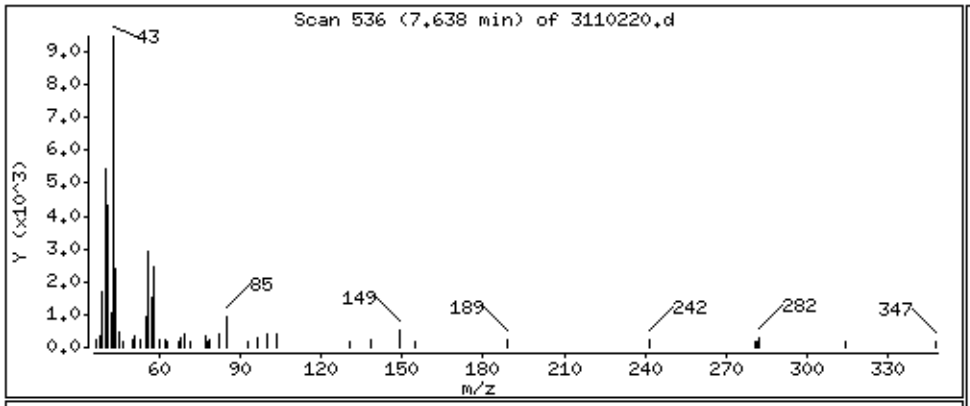
Operator: js

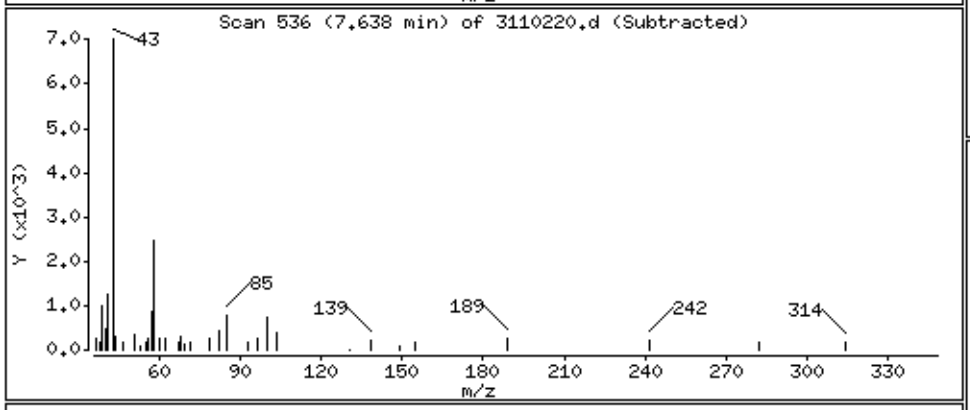
Column phase: RTX-624

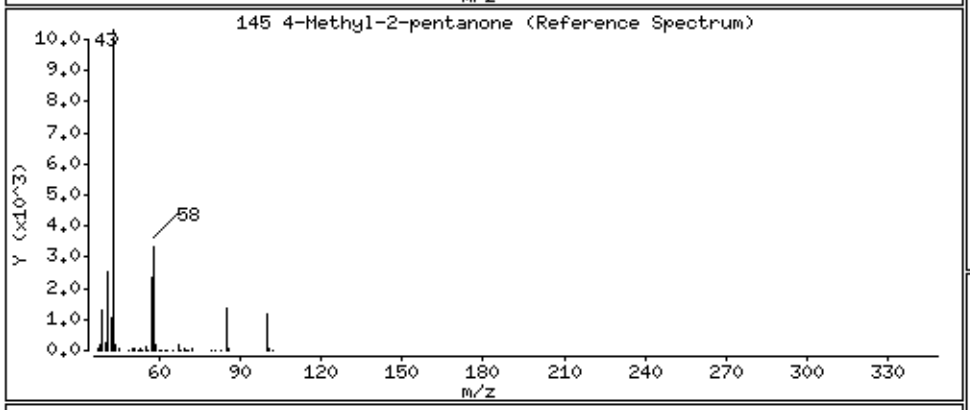
Column diameter: 0.25

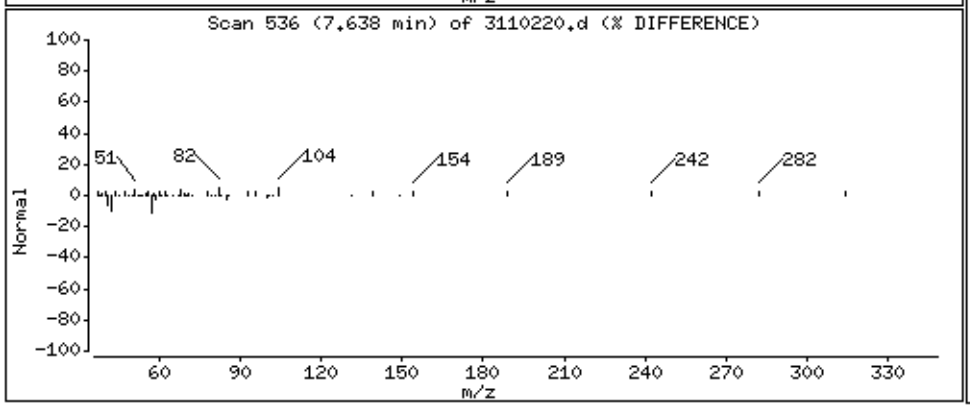
145 4-Methyl-2-pentanone

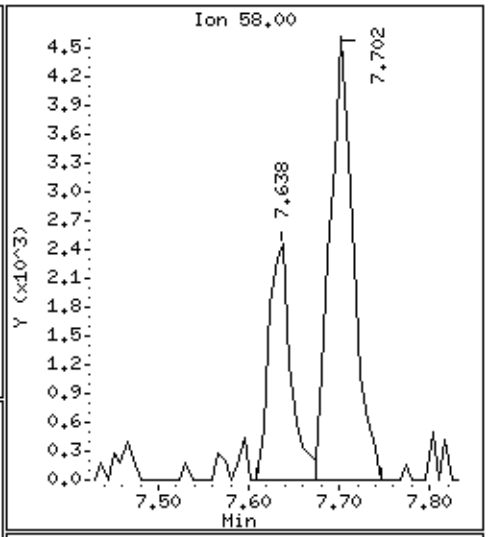
Concentration: 2.810 PPBV

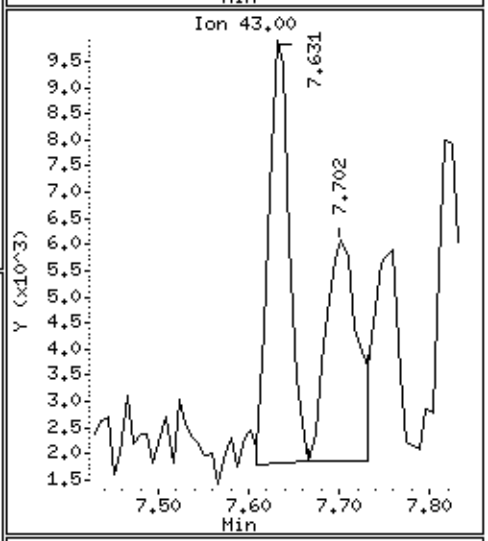


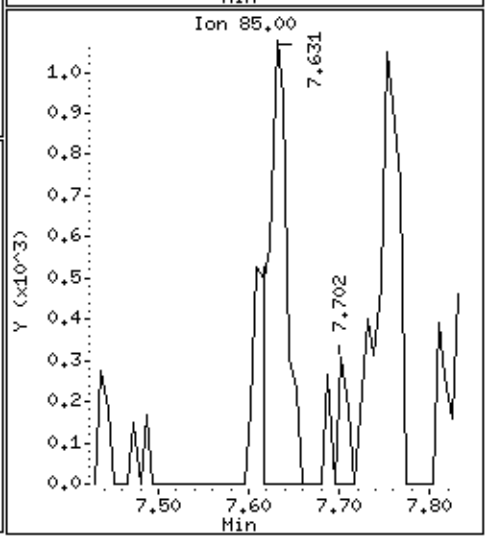












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

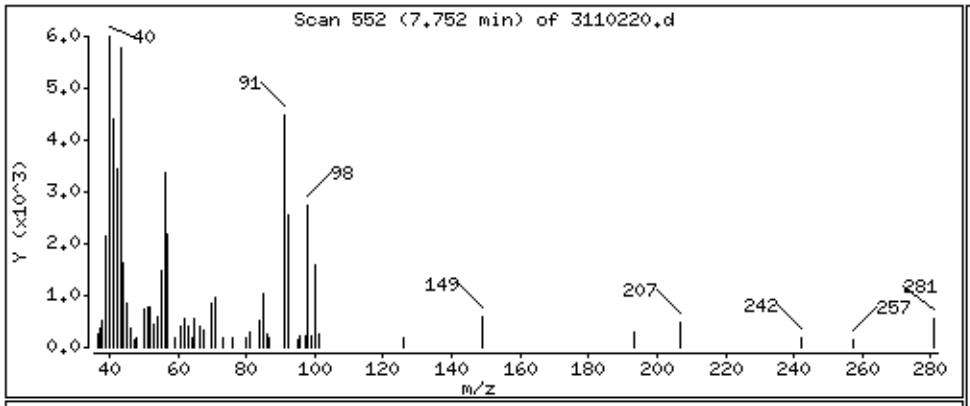
Operator: js

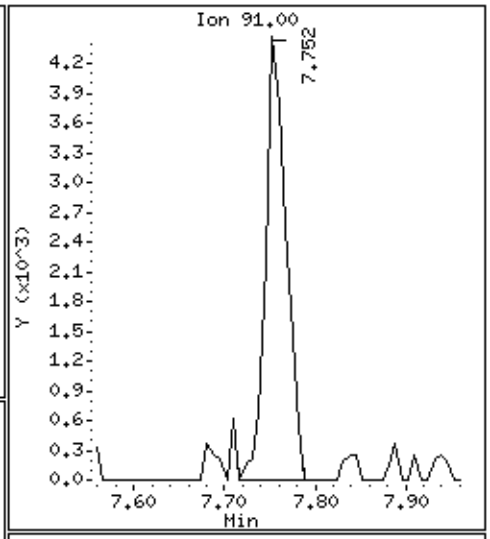
Column phase: RTX-624

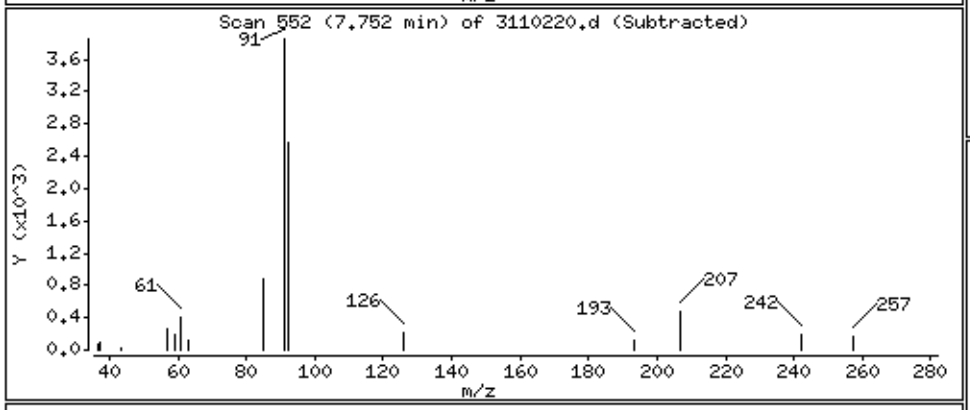
Column diameter: 0.25

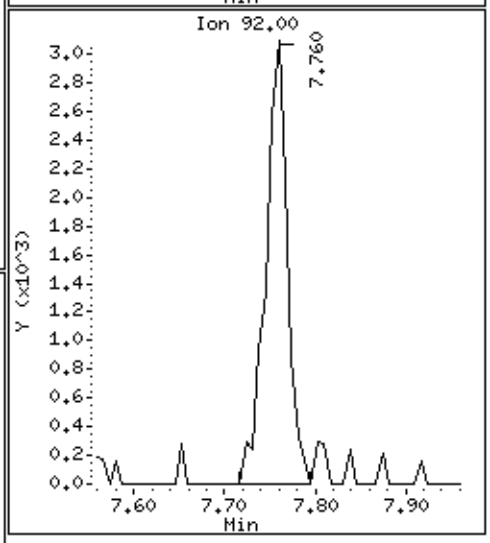
147 Toluene

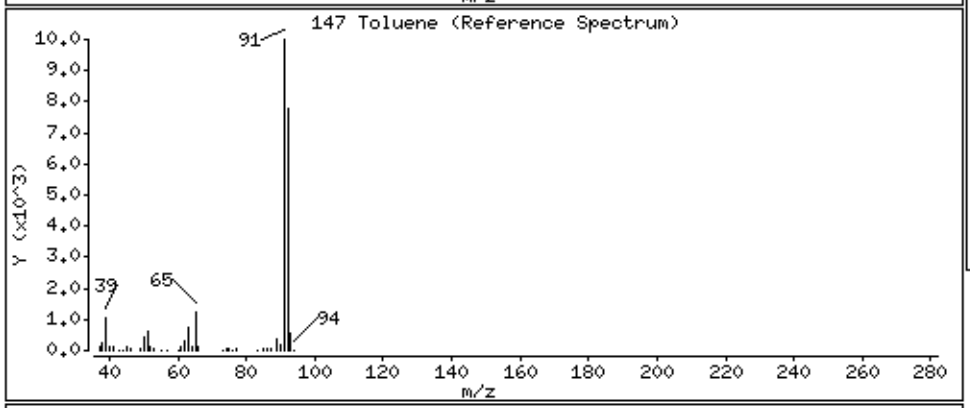
Concentration: 1.991 PPBV

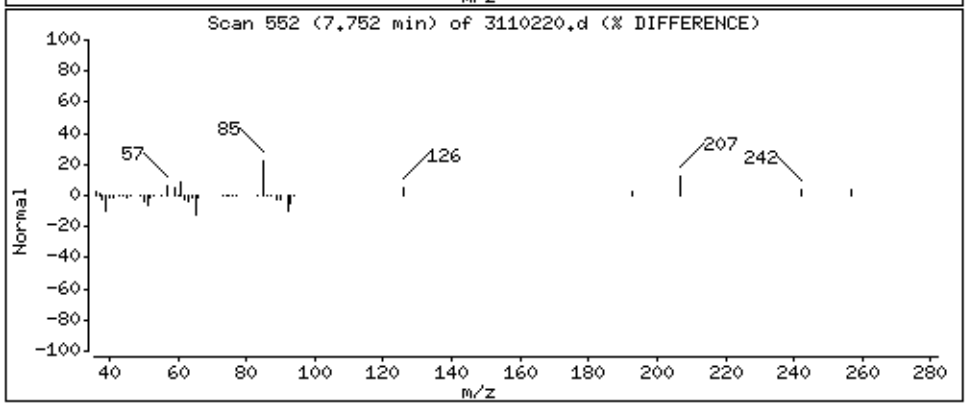












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

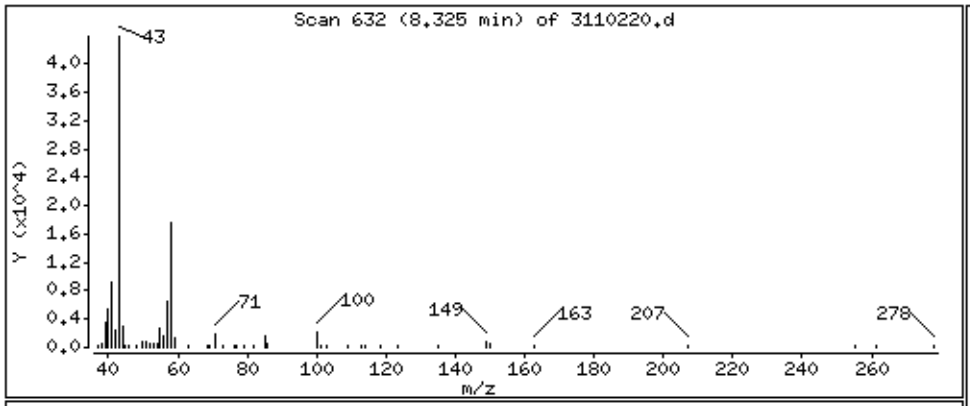
Operator: js

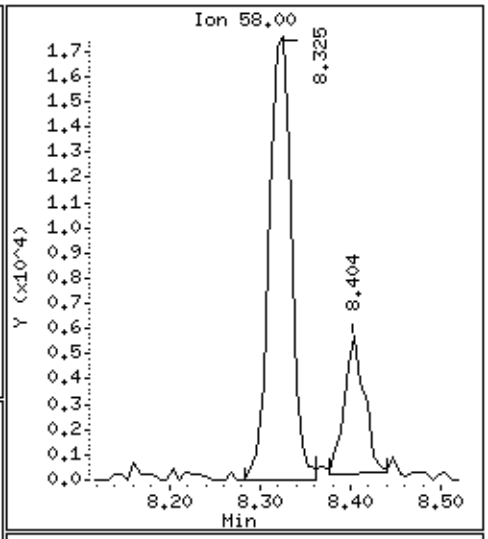
Column phase: RTX-624

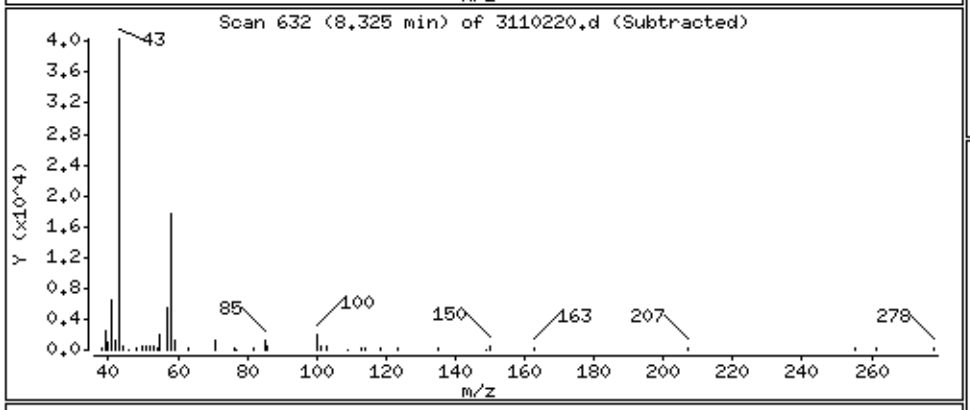
Column diameter: 0.25

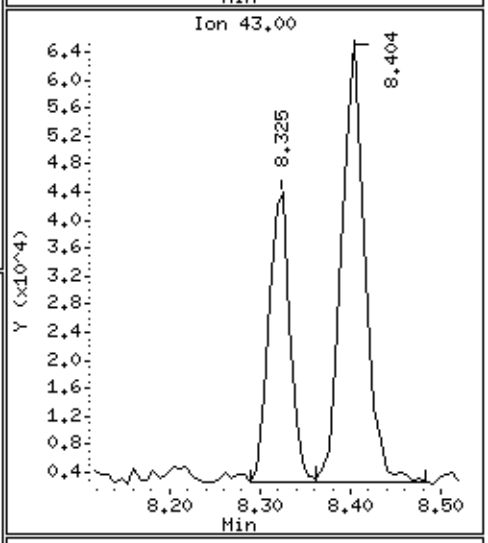
158 2-Hexanone

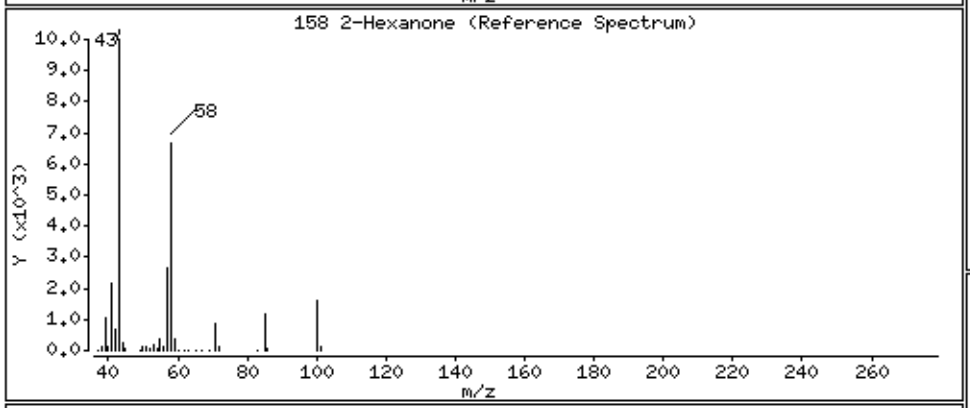
Concentration: 14.749 PPBV

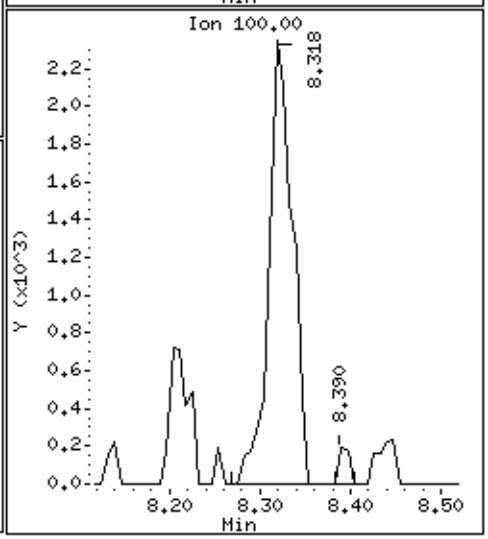


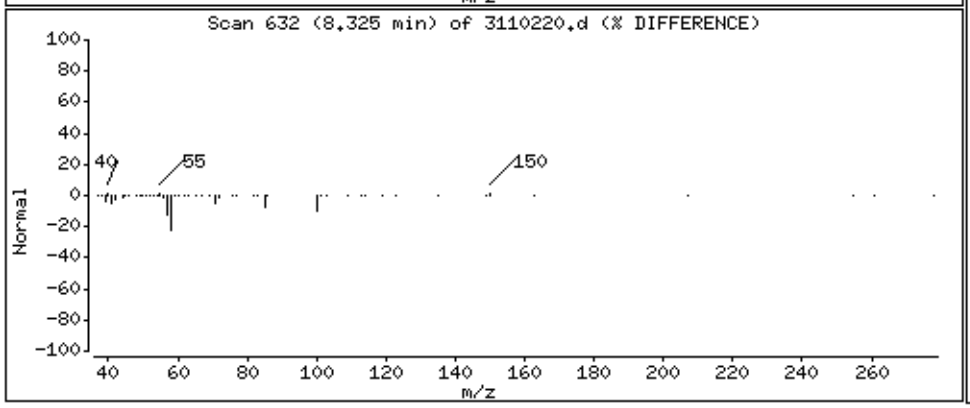












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

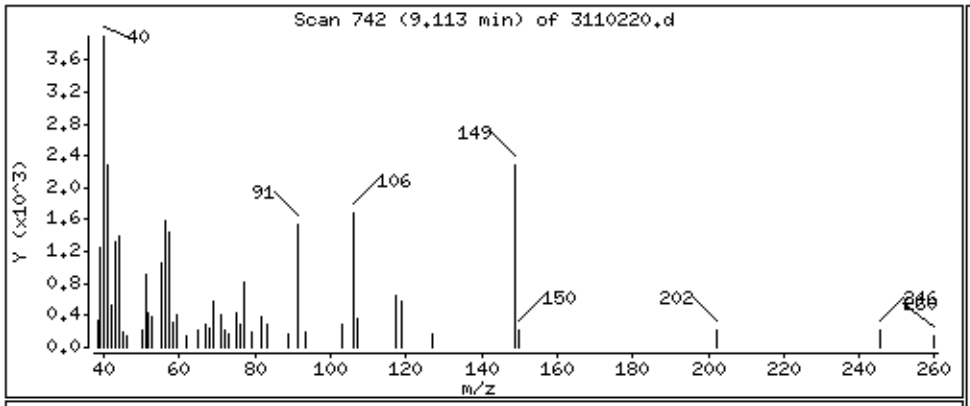
Operator: js

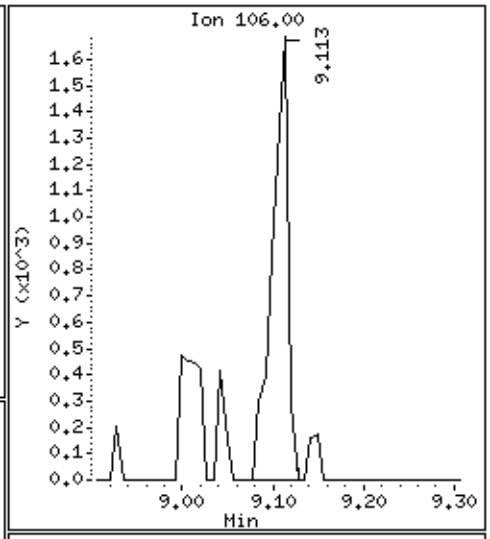
Column phase: RTX-624

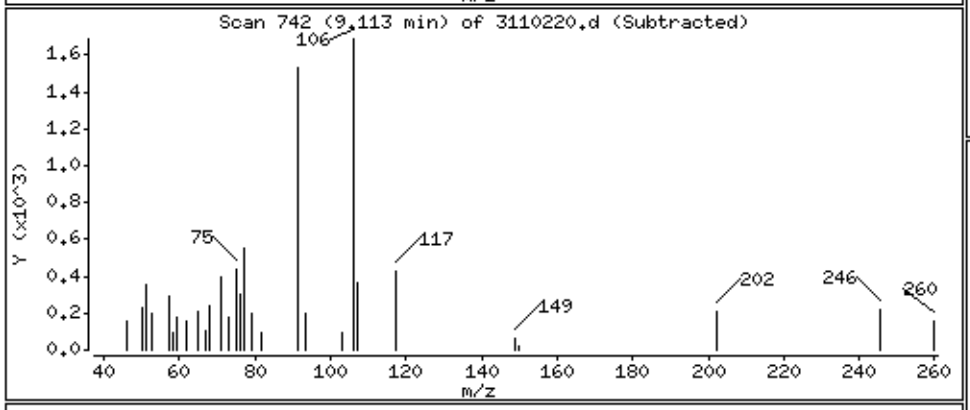
Column diameter: 0.25

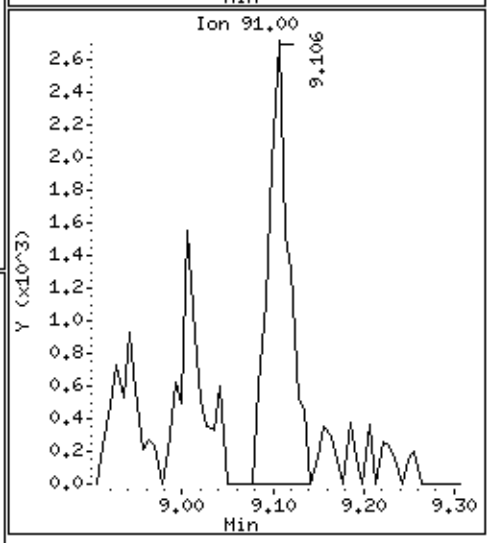
169 m,p-Xylene

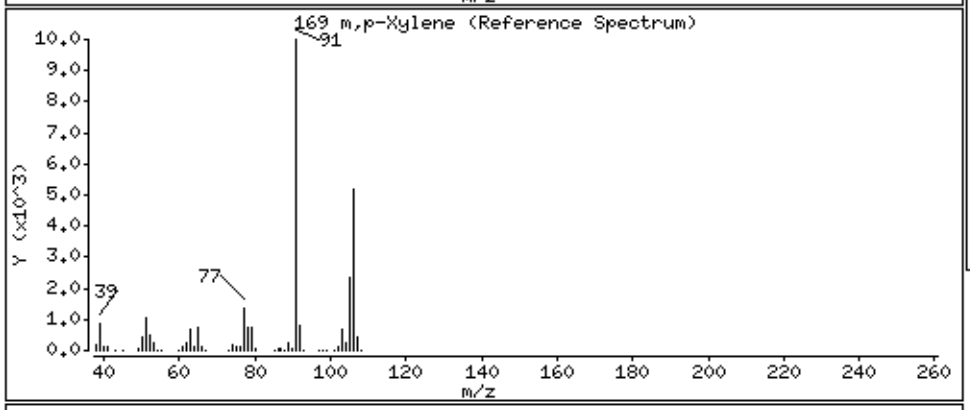
Concentration: 1.021 PPBV

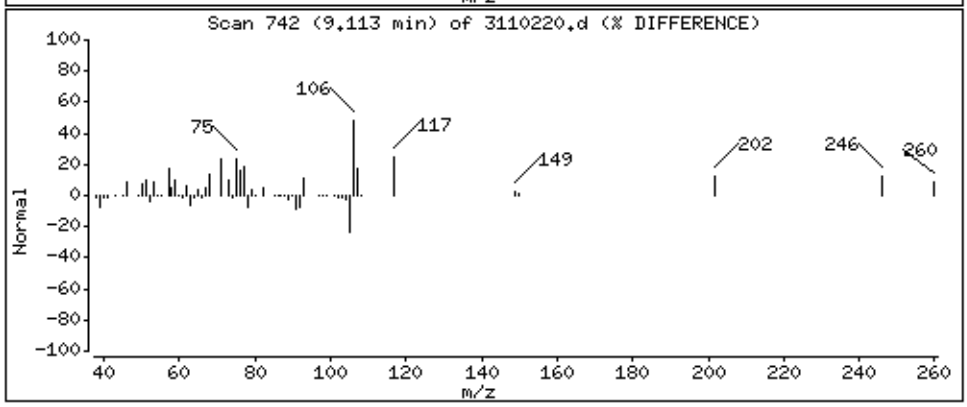












Data File: /chem/msd3.i/02nov15.b/3110220.d

Date : 02-NOV-2015 22:06

Client ID:

Instrument: msd3.i

Sample Info: 100ml 35613

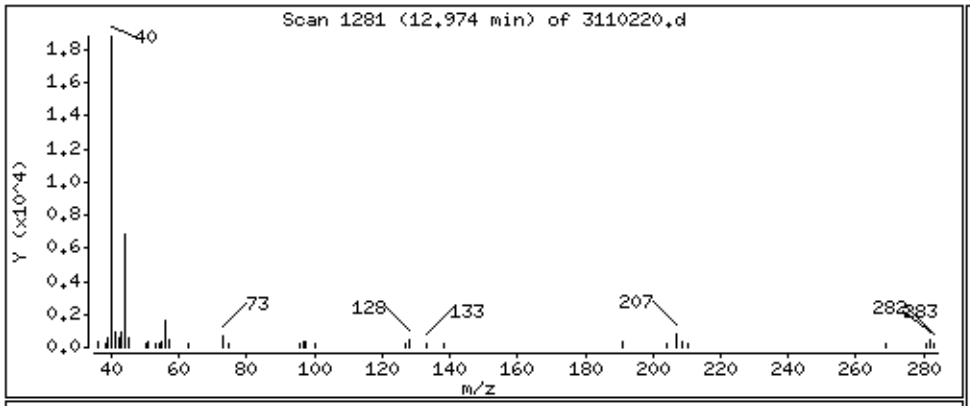
Operator: js

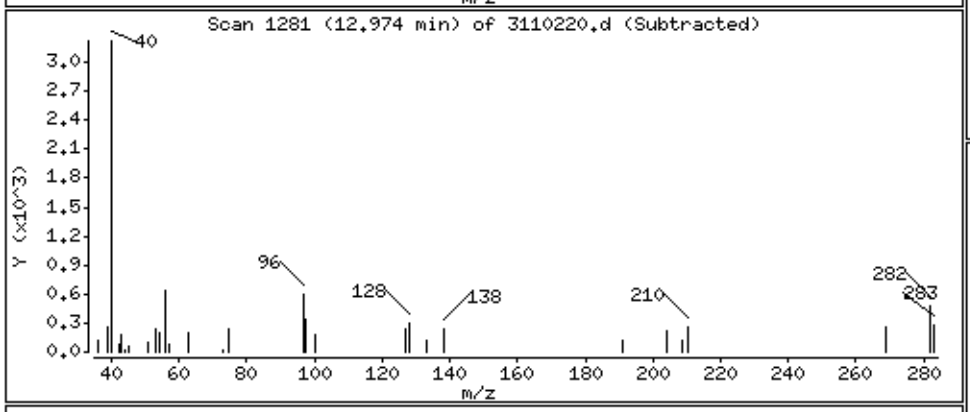
Column phase: RTX-624

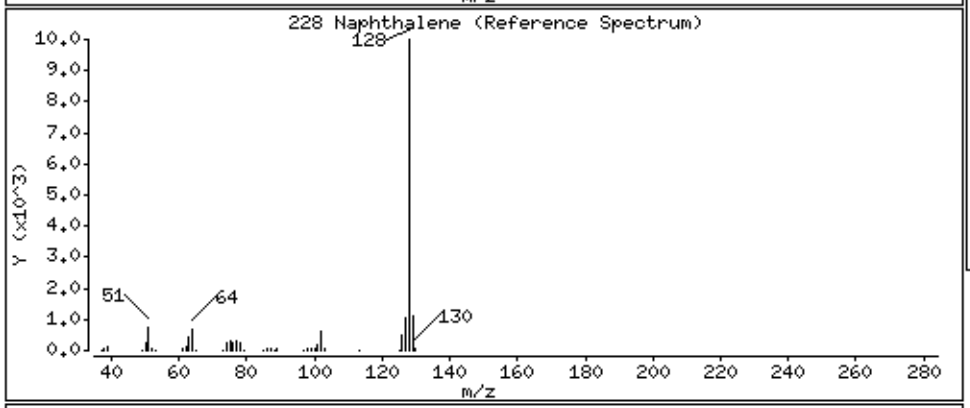
Column diameter: 0.25

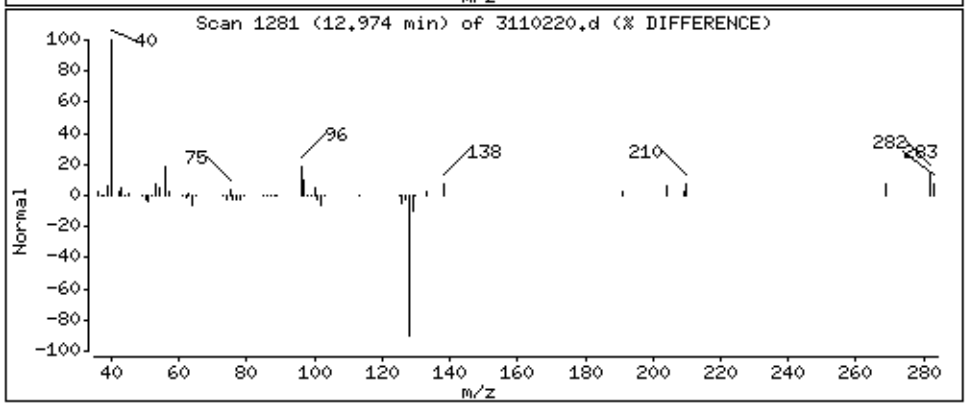
228 Naphthalene

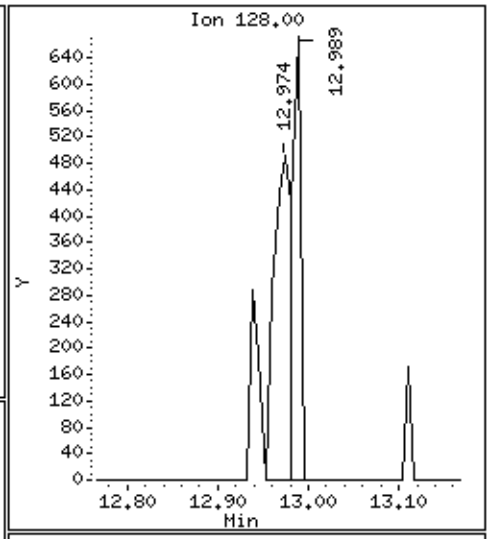
Concentration: 0.09133 PPBV

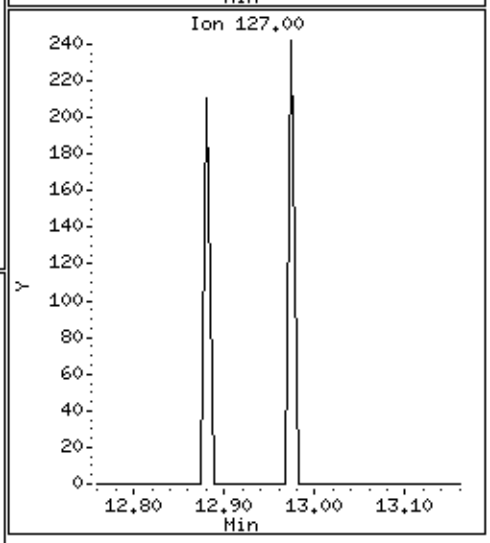












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B42SSV-3102815

Lab ID#: 1510593-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.77 J	5.6	3.8 J
Freon 11	1.1	0.60 J	6.4	3.4 J
Ethanol	4.6	80	8.6	150
Freon 113	1.1	0.16 J	8.7	1.2 J
Acetone	11	47	27	110
2-Propanol	4.6	11	11	28
Carbon Disulfide	4.6	5.6	14	18
Methylene Chloride	11	1.2 J	40	4.4 J
Hexane	1.1	0.64 J	4.0	2.2 J
2-Butanone (Methyl Ethyl Ketone)	4.6	11	13	32
Tetrahydrofuran	1.1	1.3	3.4	3.9
Benzene	1.1	0.44 J	3.6	1.4 J
Heptane	1.1	0.58 J	4.7	2.4 J
1,4-Dioxane	4.6	3.4 J	16	12 J
4-Methyl-2-pentanone	1.1	1.1 J	4.7	4.5 J
Toluene	1.1	1.2	4.3	4.4
2-Hexanone	4.6	3.6 J	19	15 J
Ethyl Benzene	1.1	0.35 J	4.9	1.5 J
m,p-Xylene	1.1	0.93 J	5.0	4.0 J
Styrene	1.1	0.86 J	4.8	3.7 J
1,2,4-Trimethylbenzene	1.1	0.32 J	5.6	1.6 J
1,4-Dichlorobenzene	1.1	0.38 J	6.8	2.3 J
Naphthalene	2.3	0.069 J	12	0.36 J

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Client Sample ID: B42SSV-3102815

Lab ID#: 1510593-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110221**	**Date of Collection:**	**10/28/15 1:16:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 10:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.77 J	5.6	3.8 J
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	0.60 J	6.4	3.4 J
Ethanol	4.6	80	8.6	150
Freon 113	1.1	0.16 J	8.7	1.2 J
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	47	27	110
2-Propanol	4.6	11	11	28
Carbon Disulfide	4.6	5.6	14	18
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	1.2 J	40	4.4 J
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	0.64 J	4.0	2.2 J
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	11	13	32
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	1.3	3.4	3.9
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	0.44 J	3.6	1.4 J
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	0.58 J	4.7	2.4 J
Trichloroethene	1.1	Not Detected	6.1	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	3.4 J	16	12 J
Bromodichloromethane	1.1	Not Detected	7.6	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	1.1 J	4.7	4.5 J
Toluene	1.1	1.2	4.3	4.4
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.7	Not Detected
2-Hexanone	4.6	3.6 J	19	15 J

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Client Sample ID: B42SSV-3102815

Lab ID#: 1510593-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110221**	**Date of Collection:**	**10/28/15 1:16:00 PM**
Dil. Factor:	**2.28**	**Date of Analysis:**	**11/2/15 10:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.7	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	0.35 J	4.9	1.5 J
m,p-Xylene	1.1	0.93 J	5.0	4.0 J
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	0.86 J	4.8	3.7 J
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.8	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	0.32 J	5.6	1.6 J
1,3-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,4-Dichlorobenzene	1.1	0.38 J	6.8	2.3 J
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected
Naphthalene	2.3	0.069 J	12	0.36 J

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	121	70-130
4-Bromofluorobenzene	94	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110221.d
Lab Smp Id: 1510593-08A
Inj Date : 02-NOV-2015 22:32
Operator : js Inst ID: msd3.i
Smp Info : 200ml 35646
Misc Info : 3.3 Hg->15.1 psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 03-Nov-2015 09:10 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 6
Dil Factor: 2.28000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	2.28000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	97736	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	81814			42.88- 102.88	83.71
5.592	5.592 (1.000)	49	289651			207.65- 267.65	296.36
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	410317	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	68538			0.00- 45.78	16.70
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	475254	25.0000		80.00- 120.00	100.00
8.935	8.934 (1.000)	82	268771			26.67- 86.67	56.55
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	258110	30.2286	30.229	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	114441			22.68- 82.68	44.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	495196	28.1134	28.113	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	62544			0.00- 41.75	12.63
7.702	7.702 (1.187)	100	317390			34.13- 94.13	64.09
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	274779	23.4088	23.409	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	361671			96.73- 156.73	131.62
9.923	9.923 (1.110)	176	265890			65.47- 125.47	96.77
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	3459	0.33872	0.7723	80.00- 120.00	100.00(a)
1.619	1.605 (0.289)	87	1050			2.62- 62.62	30.36
35 Freon 11					CAS #: 75-69-4		
2.682	2.710 (0.480)	101	3364	0.26410	0.6021	80.00- 120.00	100.00(a)
2.682	2.710 (0.480)	103	1460			33.61- 93.61	43.42
42 Ethanol					CAS #: 64-17-5		
3.116	3.074 (0.557)	45	88621	35.0377	79.886	80.00- 120.00	100.00
3.116	3.074 (0.557)	43	18674			0.00- 51.11	21.07
3.116	3.060 (0.557)	46	34373			10.70- 70.70	38.79
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	475	0.06832	0.1558	80.00- 120.00	100.00(a)
3.368	3.368 (0.602)	153	292			35.19- 95.19	61.48
3.354	3.368 (0.600)	101	601			88.07- 148.07	126.70
52 Acetone					CAS #: 67-64-1		
3.563	3.549 (0.637)	58	55728	20.7182	47.238	80.00- 120.00	100.00
3.563	3.549 (0.637)	43	230990			351.83- 411.83	414.49
56 Carbon Disulfide					CAS #: 75-15-0		
3.619	3.633 (0.647)	76	24487	2.48174	5.658	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.759	3.717 (0.672)	45	56309	4.94873	11.283	80.00- 120.00	100.00
3.759	3.717 (0.672)	43	10791			0.00- 48.10	19.17
3.745	3.717 (0.670)	59	2405			0.00- 33.34	4.27
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	4466	0.55176	1.258	80.00- 120.00	100.00(a)
4.039	4.053 (0.722)	84	2848			9.02- 69.02	63.77
4.053	4.053 (0.725)	51	1882			0.00- 59.58	42.16
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	2588	0.28114	0.6410	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
78 Hexane (continued)							
4.487	4.501 (0.802)	43	1164			44.95- 104.95	44.98
4.571	4.501 (0.817)	86	165			0.00- 40.12	6.39
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	8840	4.76121	10.856	80.00- 120.00	100.00
5.396	5.382 (0.965)	43	68024			717.19- 777.19	769.47
5.396	5.396 (0.965)	57	5326			21.09- 81.09	60.25
99 Tetrahydrofuran					CAS #: 109-99-9		
5.606	5.592 (1.002)	42	4719	0.57441	1.310	80.00- 120.00	100.00
5.606	5.592 (1.002)	71	1370			0.00- 49.93	29.03
5.620	5.592 (1.005)	72	1634			0.00- 50.49	34.64
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	2175	0.19167	0.4370	80.00- 120.00	100.00(a)
6.096	6.110 (0.940)	77	1001			0.00- 54.02	46.05
121 Heptane					CAS #: 142-82-5		
6.236	6.250 (0.961)	71	1113	0.25465	0.5806	80.00- 120.00	100.00(a)
6.250	6.250 (0.963)	43	2038			309.54- 369.54	183.09
6.264	6.250 (0.965)	57	1947			143.16- 203.16	174.98
136 1,4-Dioxane					CAS #: 123-91-1		
7.022	7.008 (1.082)	88	4269	1.48716	3.391	80.00- 120.00	100.00(a)
7.015	7.008 (1.081)	58	5304			79.36- 139.36	124.22
7.051	7.008 (1.087)	57	222			6.63- 66.63	5.22
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.631 (1.177)	58	3204	0.48425	1.104	80.00- 120.00	100.00(a)
7.638	7.631 (1.177)	43	8465			274.73- 334.73	264.21
7.631	7.631 (1.176)	85	755			0.00- 58.76	23.57
147 Toluene					CAS #: 108-88-3		
7.753	7.760 (1.195)	91	8043	0.51171	1.167	80.00- 120.00	100.00
7.753	7.760 (1.195)	92	4393			27.05- 87.05	54.62
158 2-Hexanone					CAS #: 591-78-6		
8.326	8.318 (0.931)	58	16148	1.57313	3.587	80.00- 120.00	100.00(a)
8.319	8.318 (0.930)	43	34920			189.79- 249.79	216.25
8.319	8.318 (0.930)	100	1966			0.00- 43.05	12.18
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.006 (1.008)	106	1270	0.15561	0.3548	80.00- 120.00	100.00(a)
9.013	9.006 (1.008)	91	4960			294.90- 354.90	390.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
169 m,p-Xylene					CAS #: 108-38-3		
9.099	9.106 (1.018)	106	4174	0.40712	0.9282	80.00- 120.00	100.00(a)
9.106	9.106 (1.018)	91	9158			185.23- 245.23	219.39
172 Styrene					CAS #: 100-42-5		
9.465	9.472 (1.058)	104	6196	0.37771	0.8612	80.00- 120.00	100.00(a)
9.465	9.472 (1.058)	78	2277			26.13- 86.13	36.76
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	3947	0.14254	0.3250	80.00- 120.00	100.00(a)
10.546	10.553 (1.179)	120	928			13.81- 73.81	23.53
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.919	10.926 (1.221)	146	3152	0.16808	0.3832	80.00- 120.00	100.00(a)
10.926	10.926 (1.222)	148	1613			32.78- 92.78	51.17
10.926	10.926 (1.222)	111	2238			10.80- 70.80	71.02
228 Naphthalene					CAS #: 91-20-3		
12.967	12.967 (1.450)	128	1171	0.03043	0.06939	80.00- 120.00	100.00(a)
0.000	12.960 (0.000)	127	0			0.00- 42.95	0.00

QC Flag Legend

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

Report Date: 04-Nov-2015 08:36

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110221.d
Lab Smp Id: 1510593-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.3 Hg->15.1 psi

Calibration Date: 02-NOV-2015
Calibration Time: 08:58

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	97736	-10.96
123 1,4-Difluorobenze	462095	277257	646933	410317	-11.21
163 Chlorobenzene-d5	458379	275027	641731	475254	3.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 04-Nov-2015 08:36

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510593-08A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 3.3 Hg->15.1 psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	30.229	120.91	70-130
$ 146 Toluene-d8	25.000	28.113	112.45	70-130
$ 177 4-Bromofluorobenze	25.000	23.409	93.64	70-130

Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

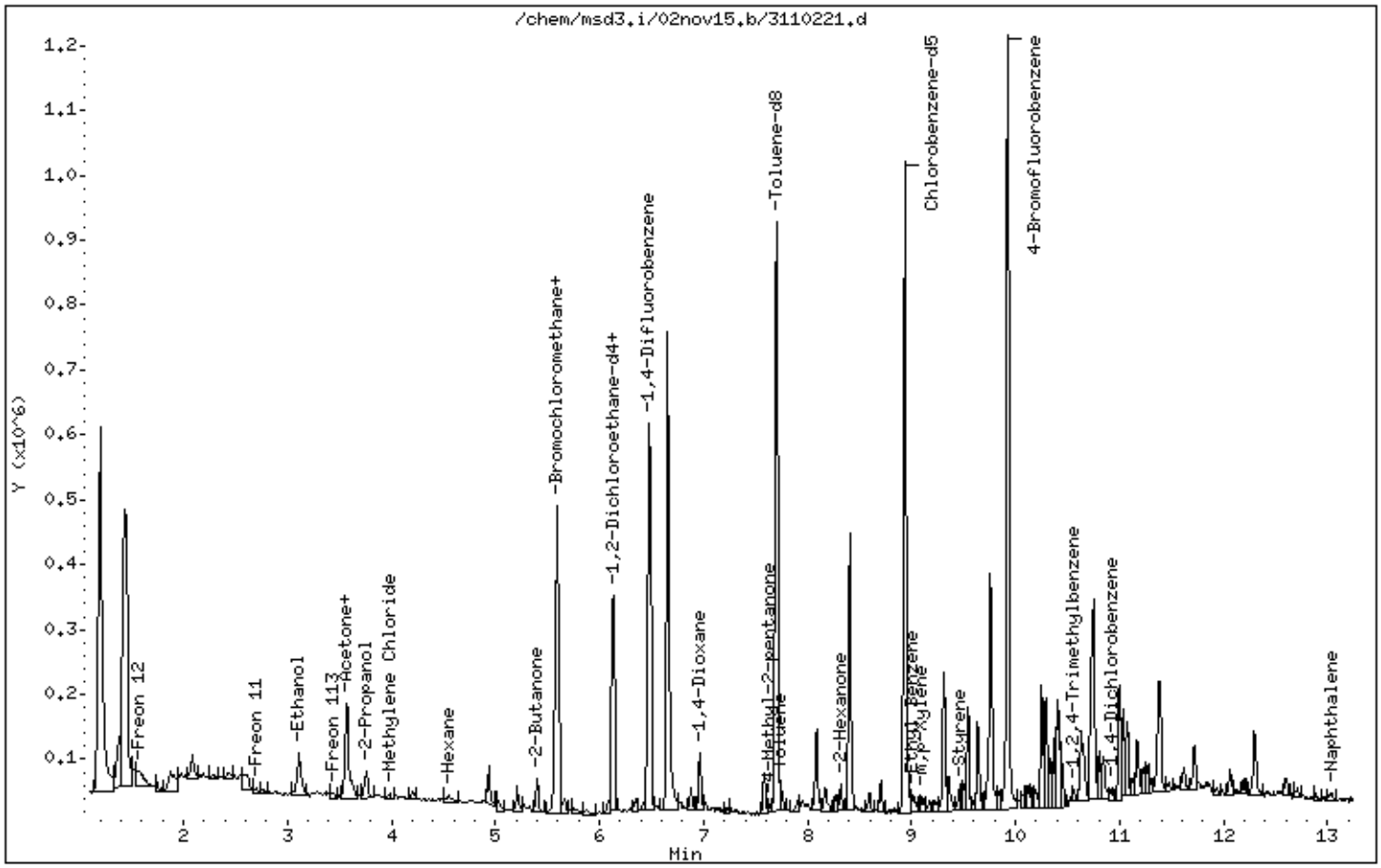
Instrument: msd3.i

Sample Info: 200ml 35646

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

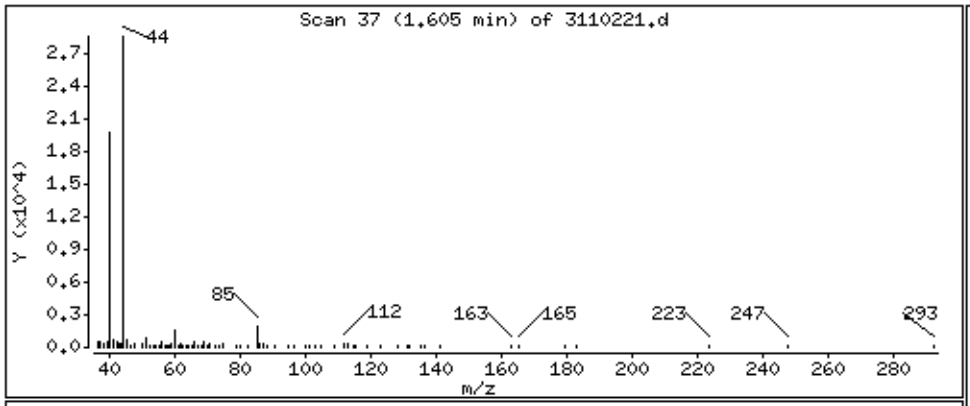
Operator: js

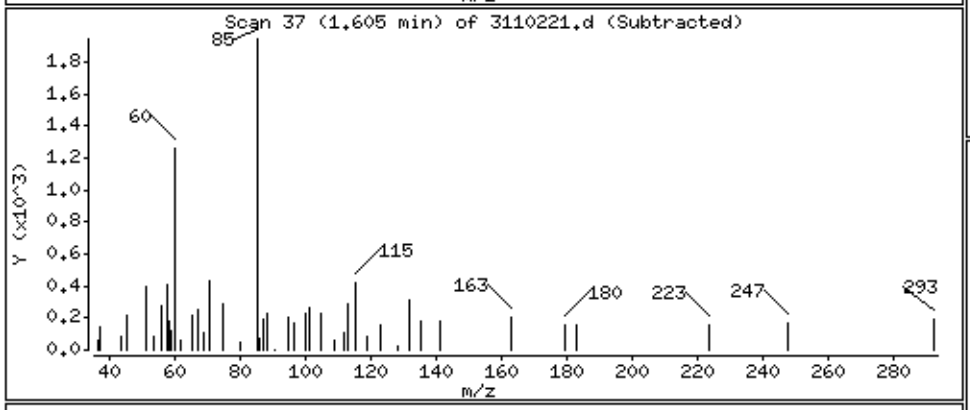
Column phase: RTX-624

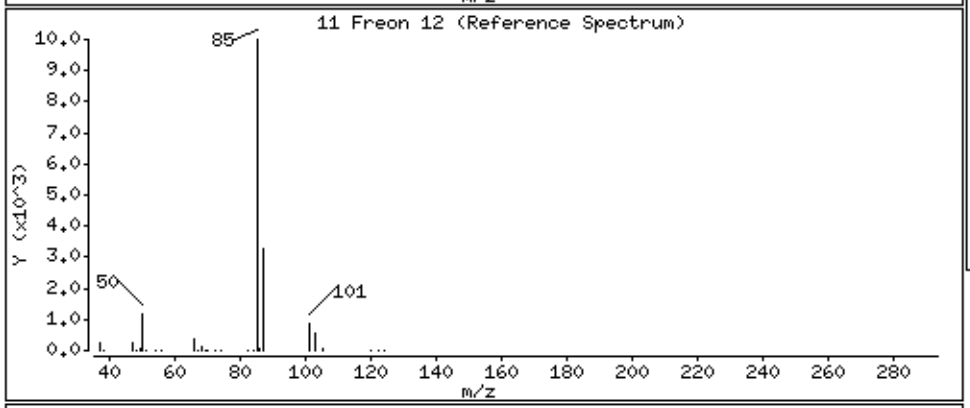
Column diameter: 0.25

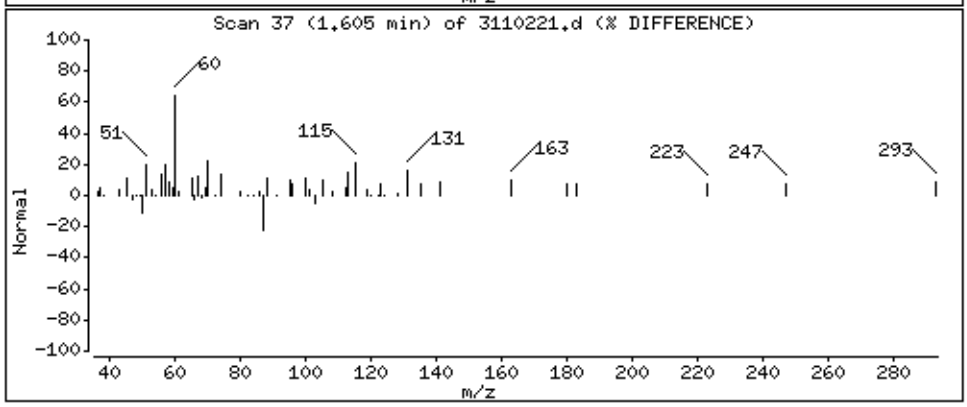
11 Freon 12

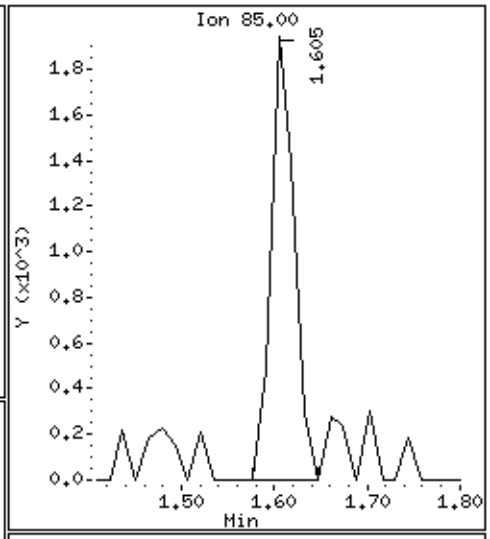
Concentration: 0.7723 PPBV

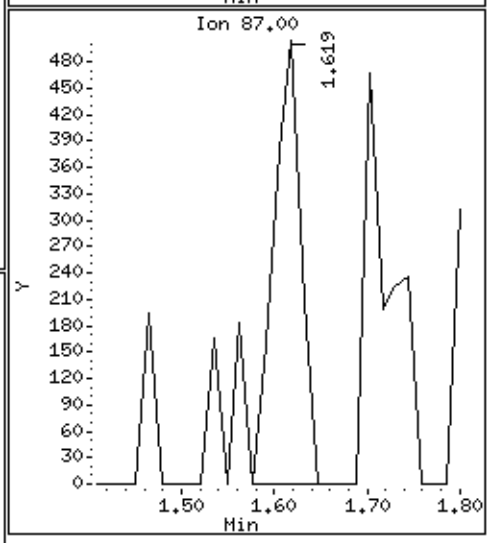












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

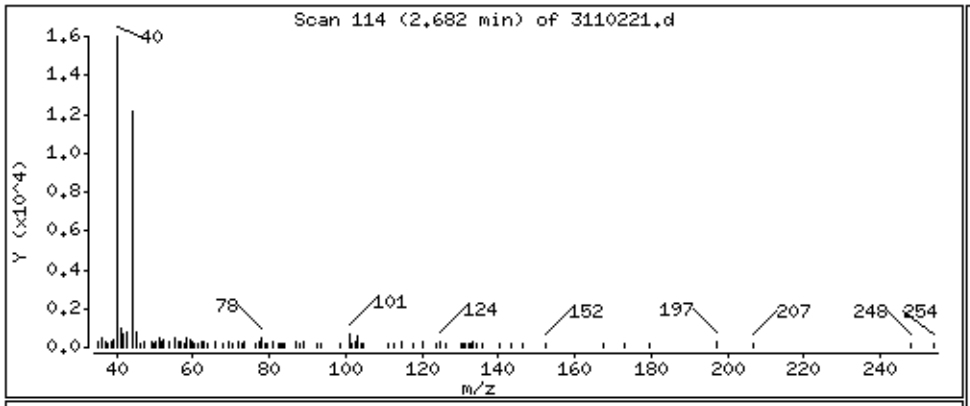
Operator: js

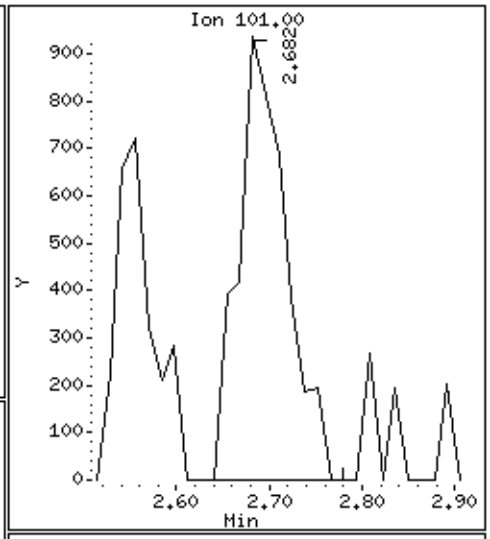
Column phase: RTX-624

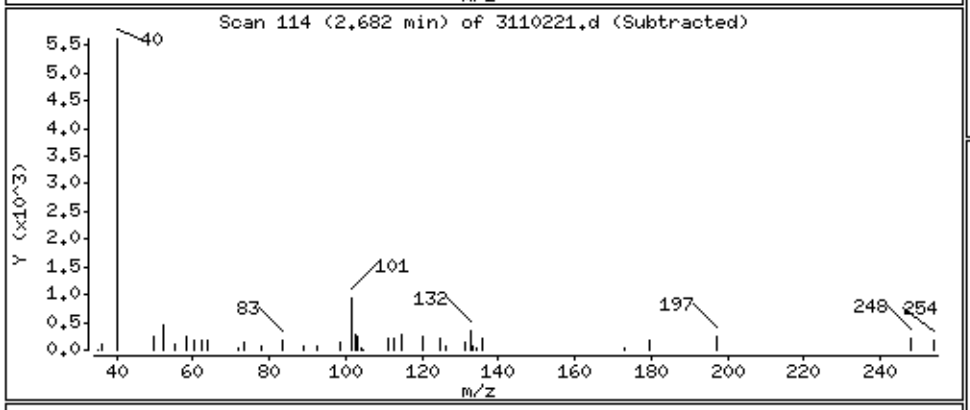
Column diameter: 0.25

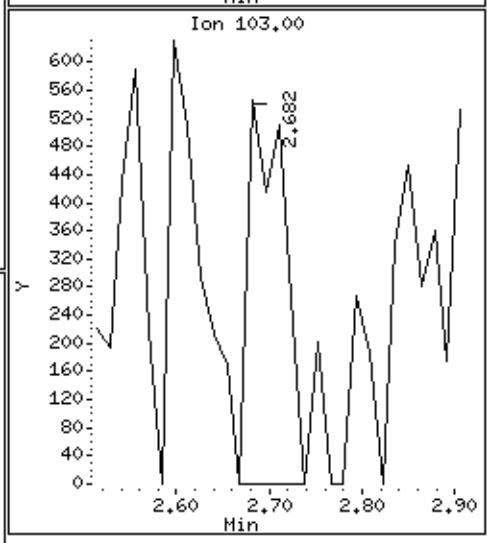
35 Freon 11

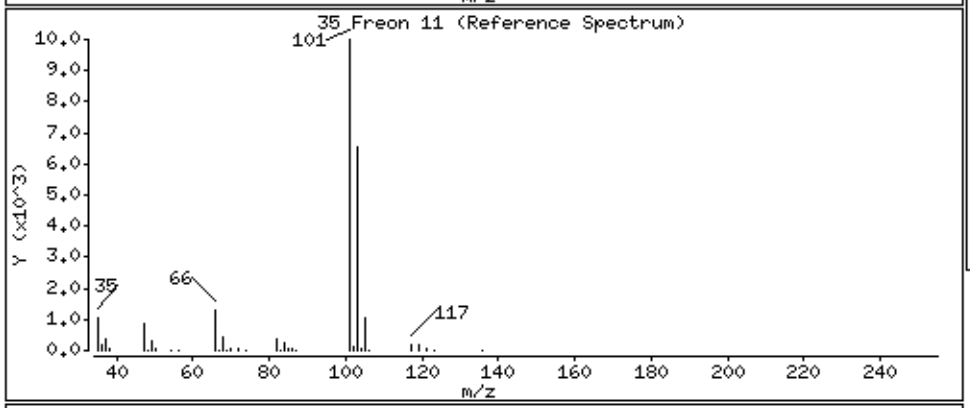
Concentration: 0.6021 PPBV

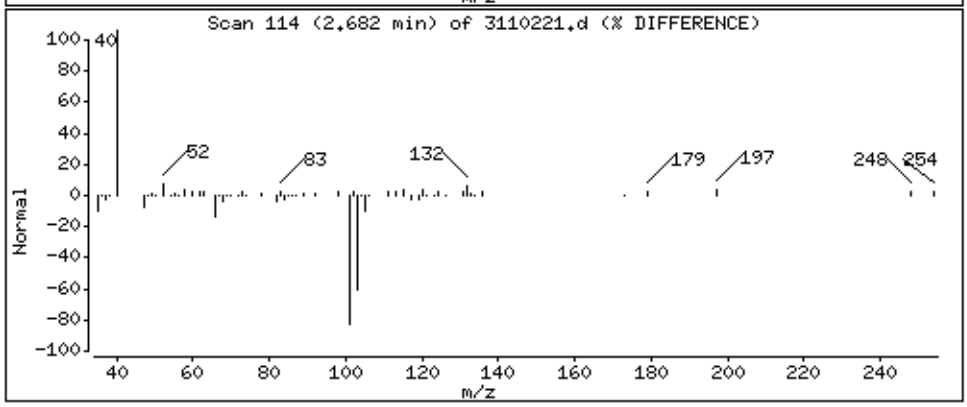












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

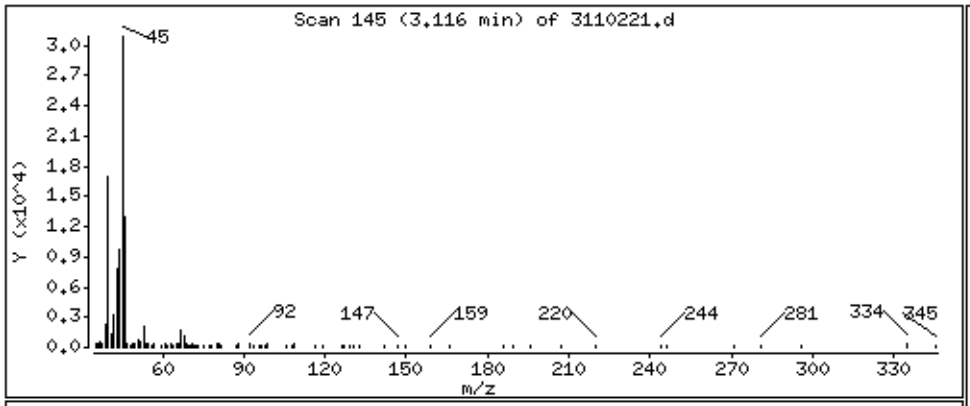
Operator: js

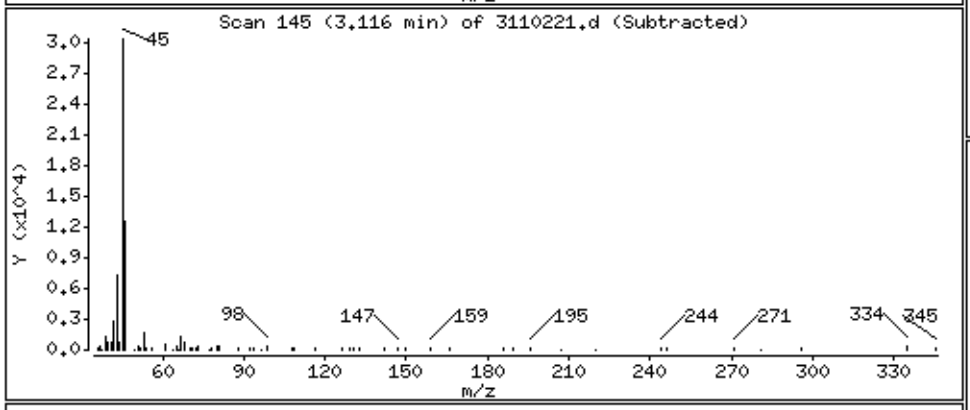
Column phase: RTX-624

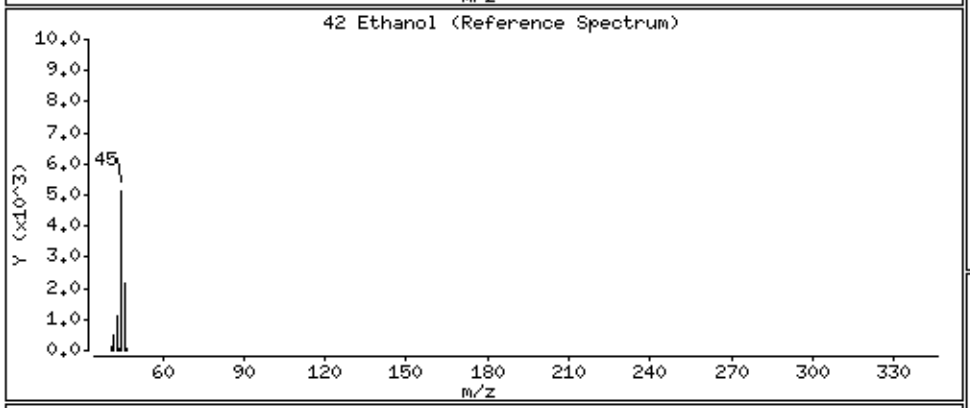
Column diameter: 0.25

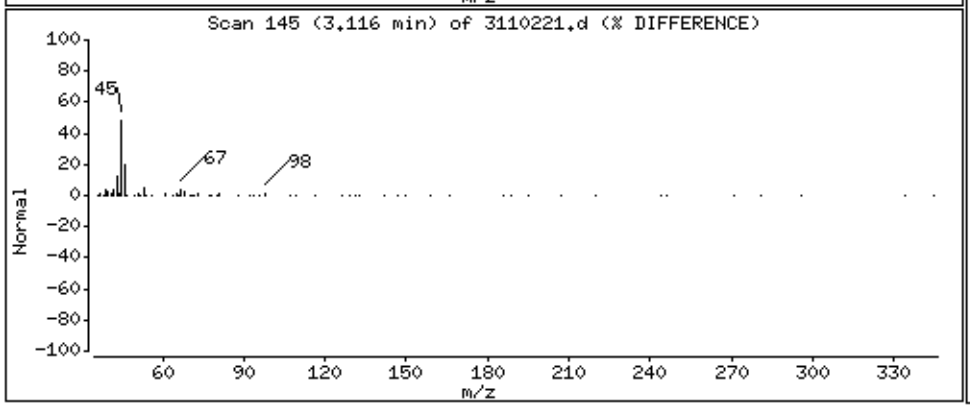
42 Ethanol

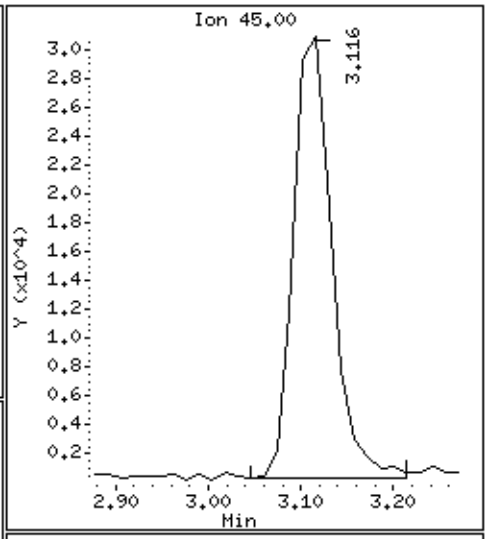
Concentration: 79.886 PPBV

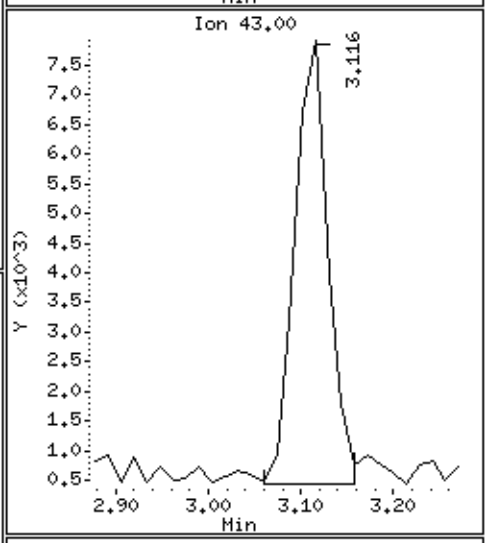


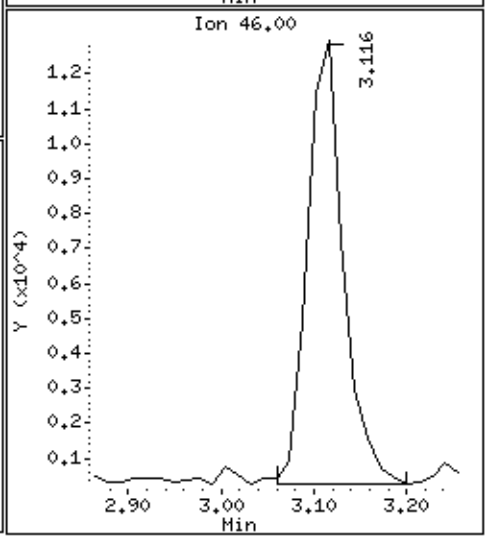












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

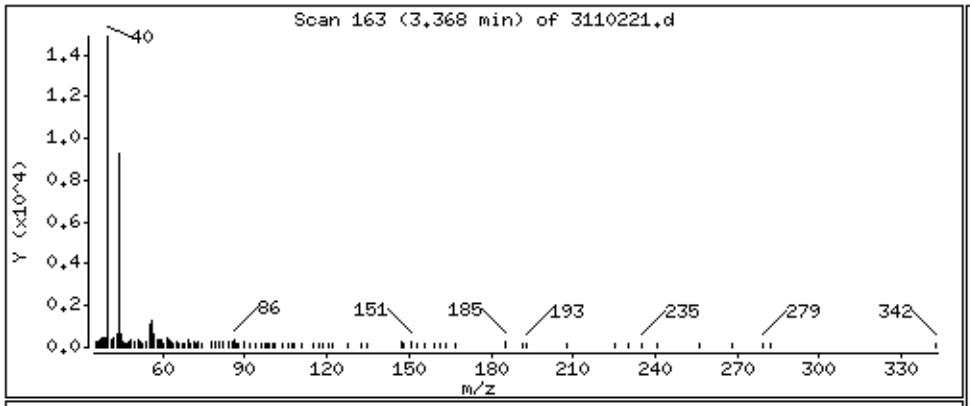
Operator: js

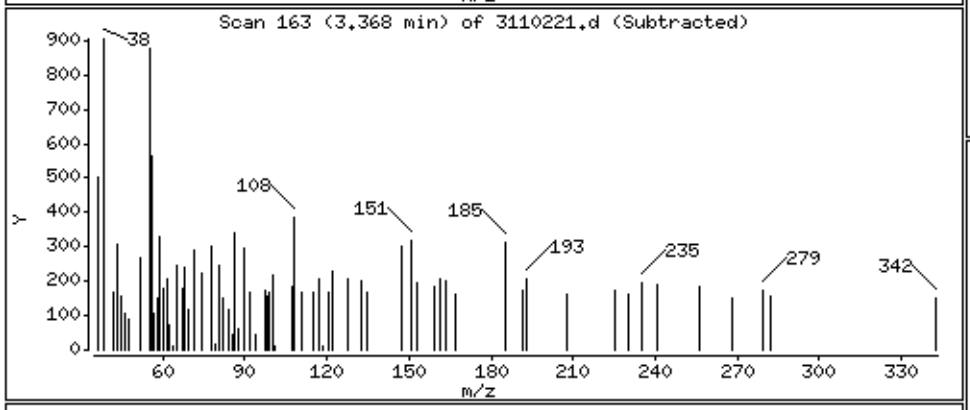
Column phase: RTX-624

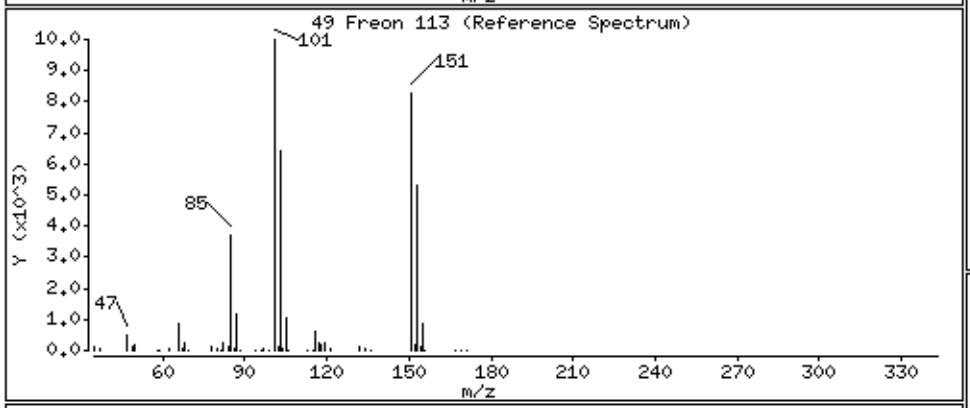
Column diameter: 0.25

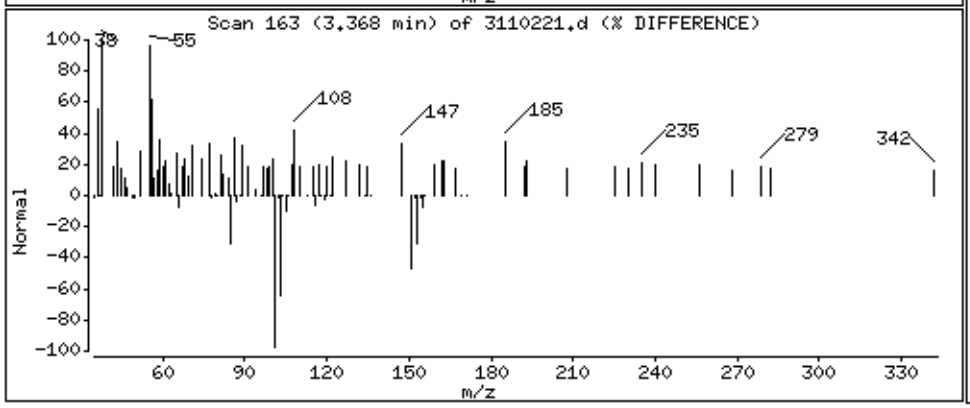
49 Freon 113

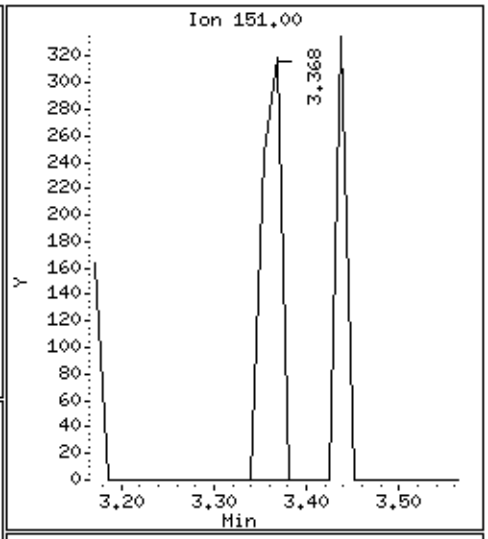
Concentration: 0.1558 PPBV

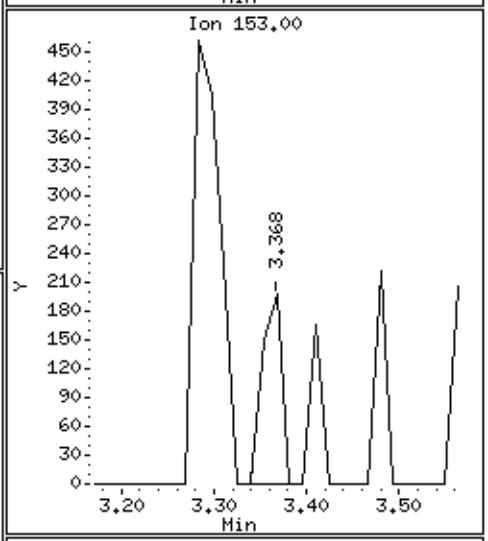


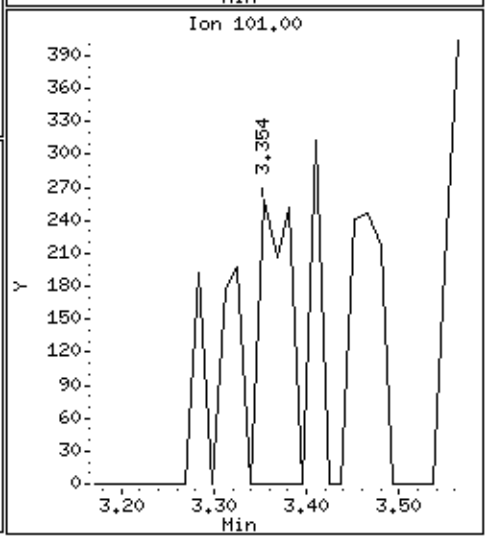












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

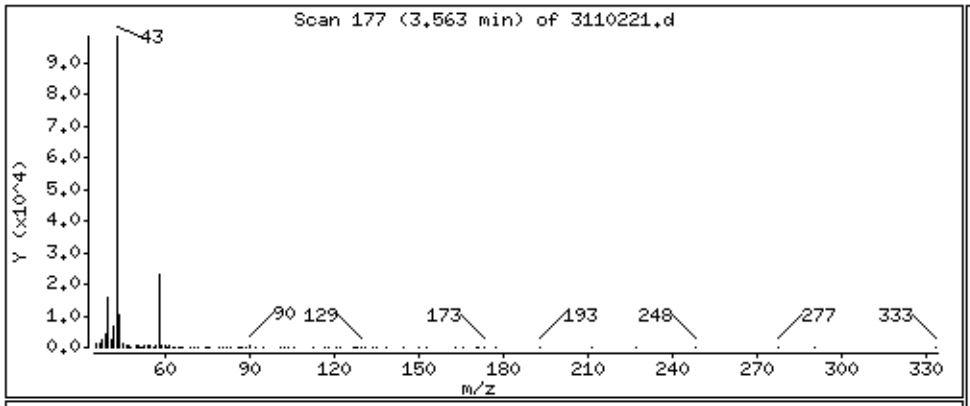
Operator: js

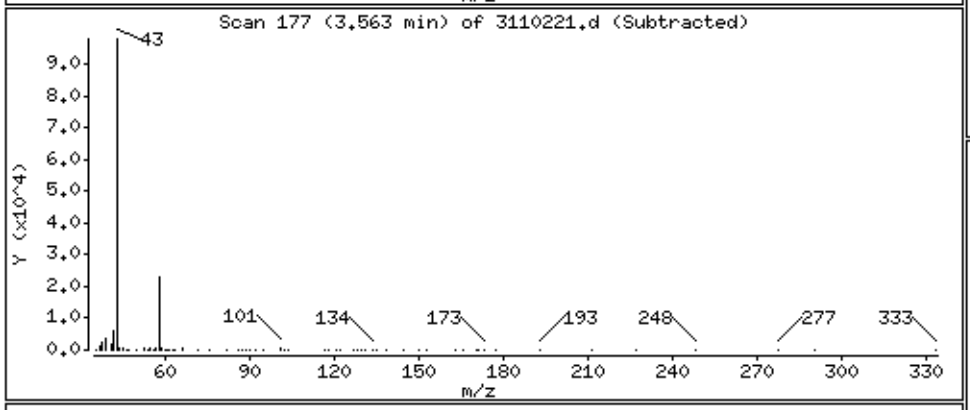
Column phase: RTX-624

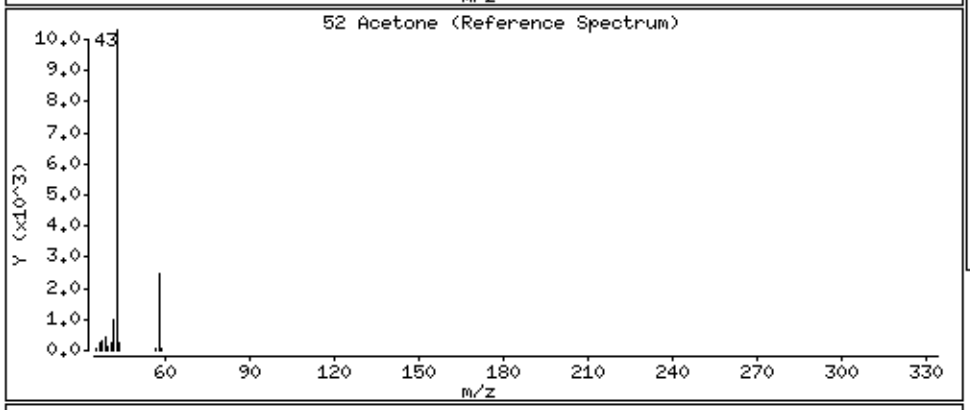
Column diameter: 0.25

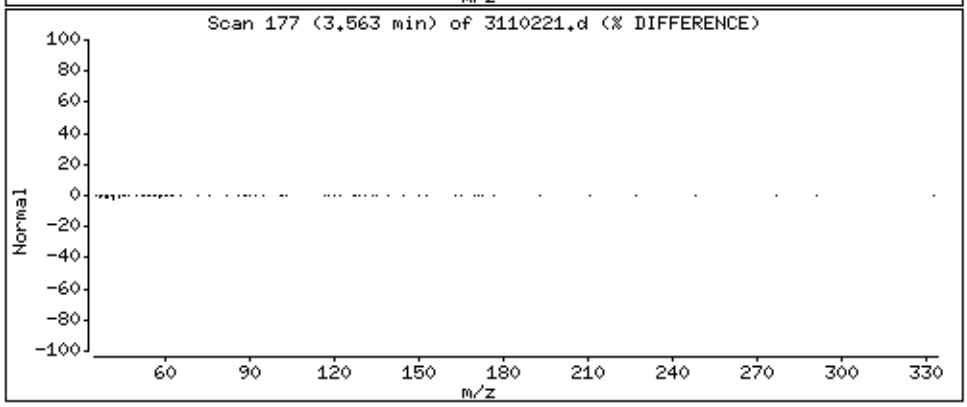
52 Acetone

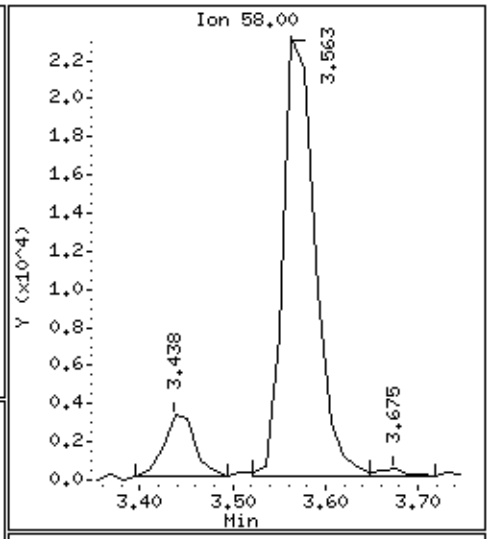
Concentration: 47.238 PPBV

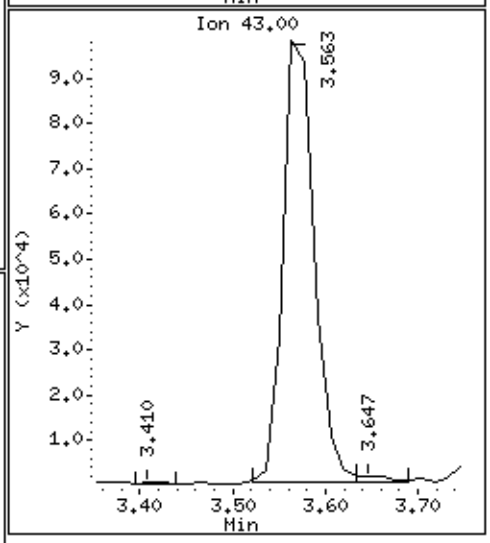












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

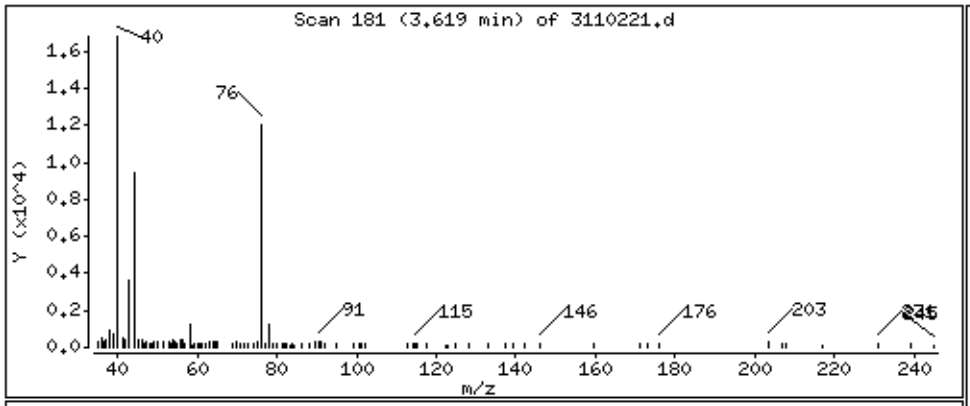
Operator: js

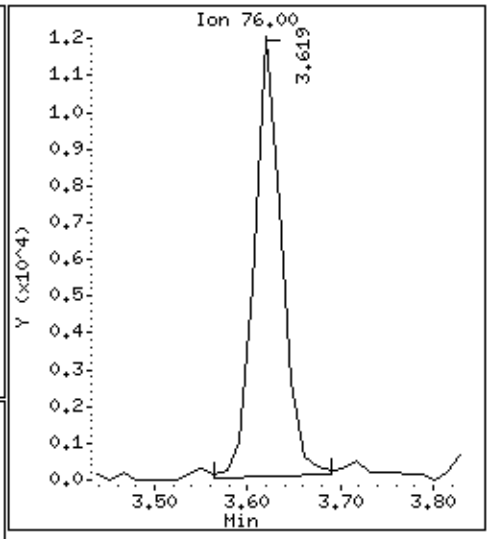
Column phase: RTX-624

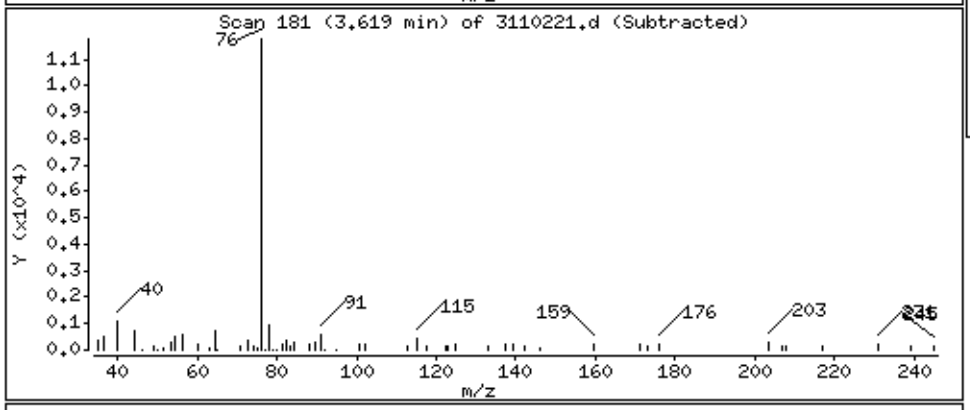
Column diameter: 0.25

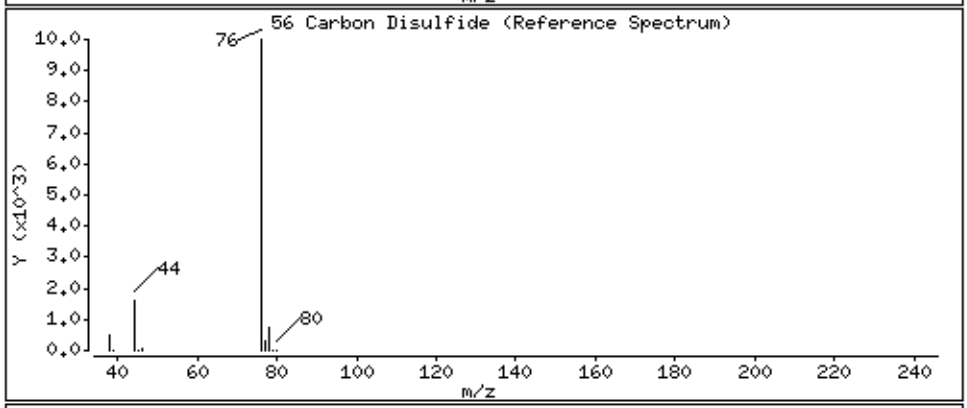
56 Carbon Disulfide

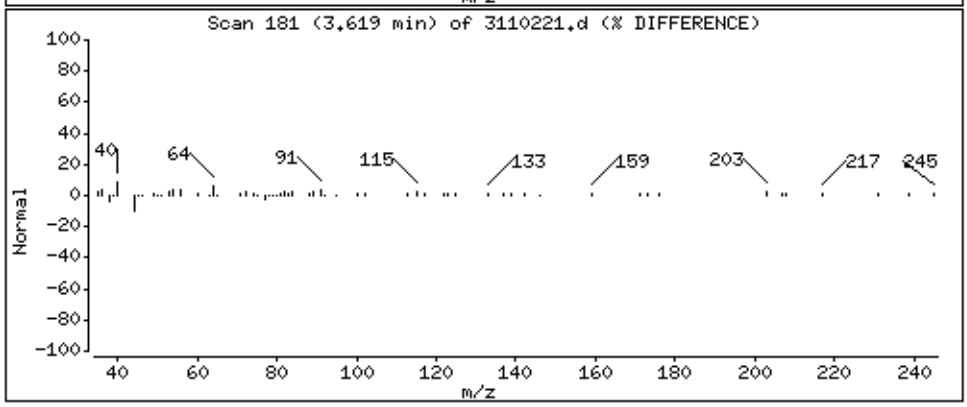
Concentration: 5.658 PPBV











Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

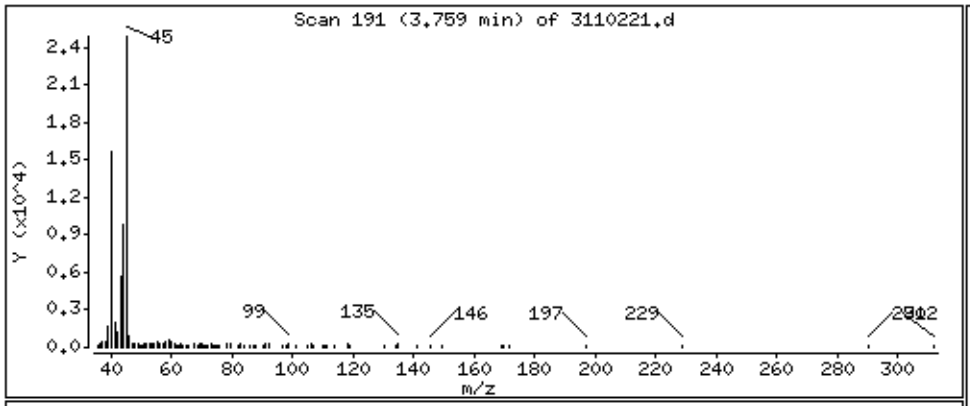
Operator: js

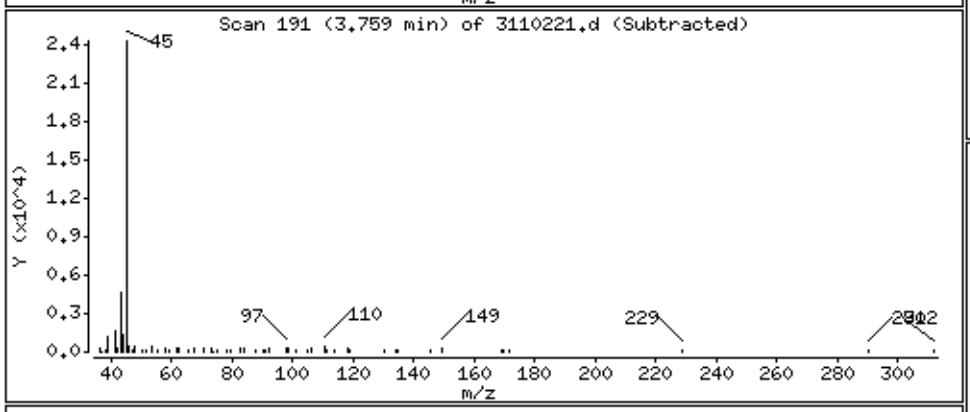
Column phase: RTX-624

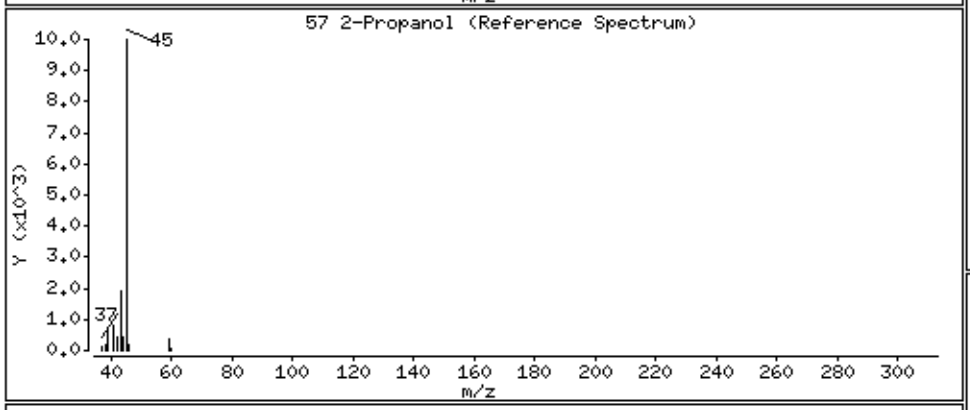
Column diameter: 0.25

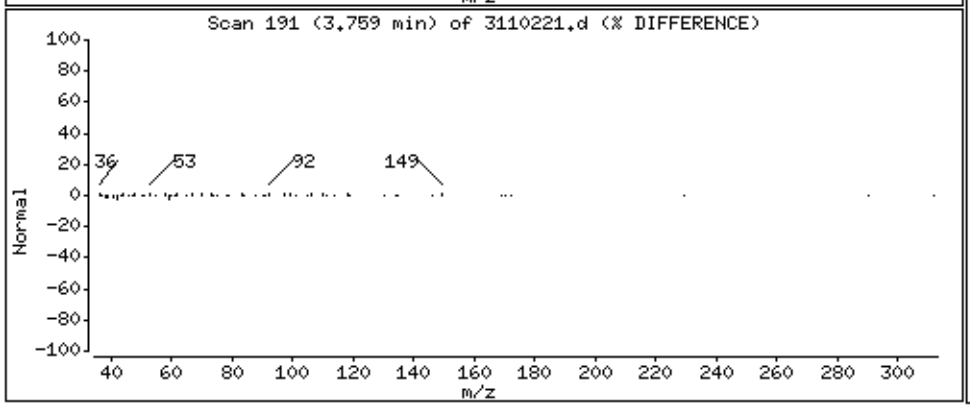
57 2-Propanol

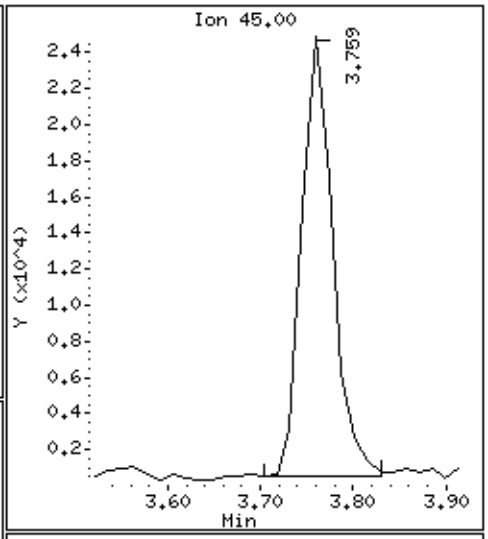
Concentration: 11.283 PPBV

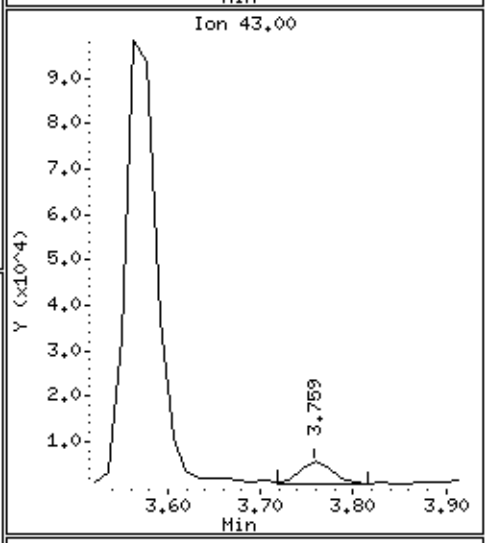


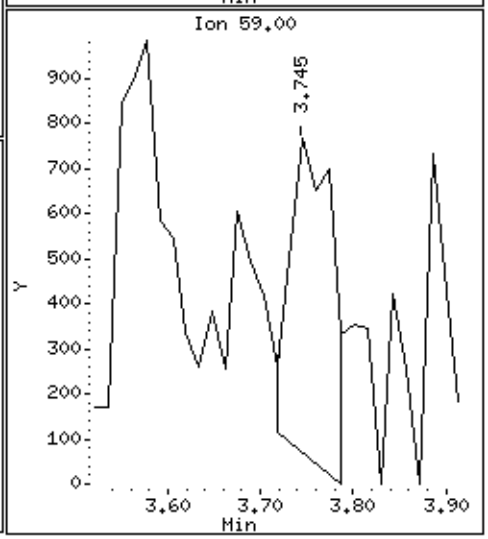












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

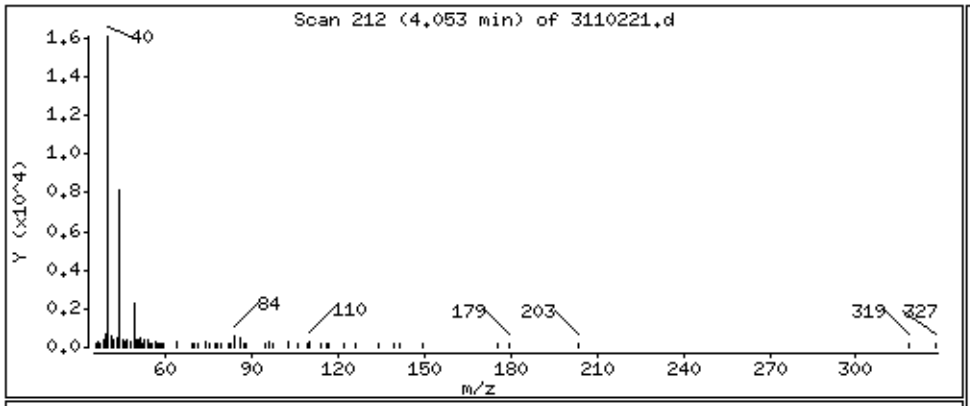
Operator: js

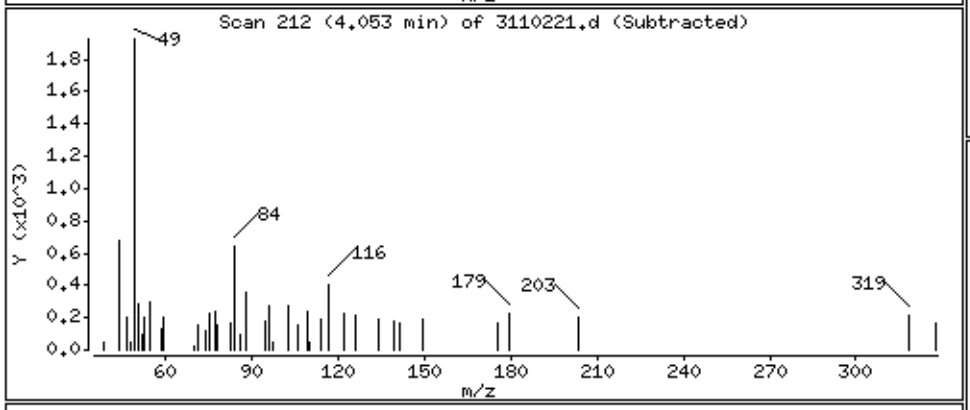
Column phase: RTX-624

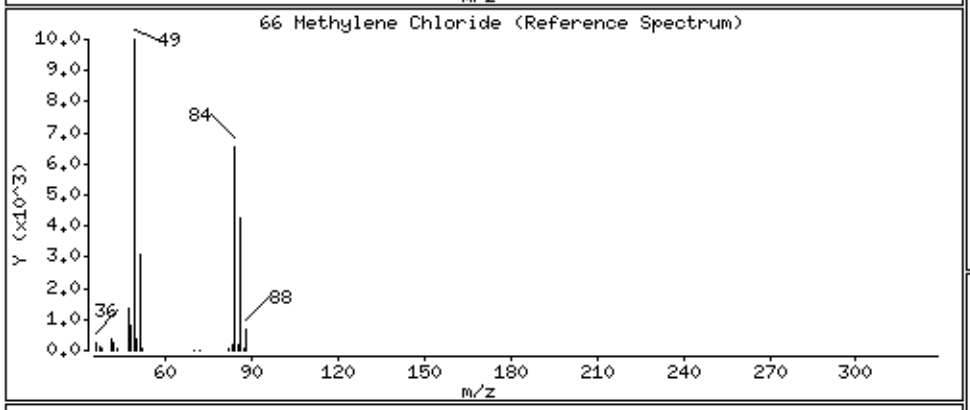
Column diameter: 0.25

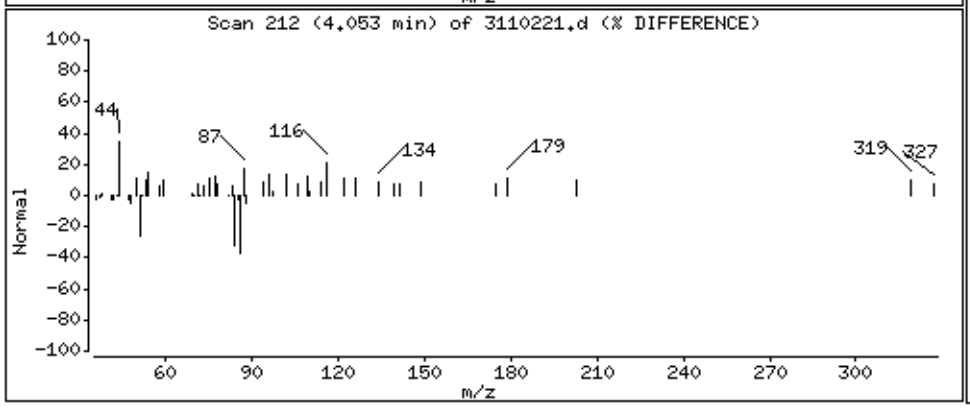
66 Methylene Chloride

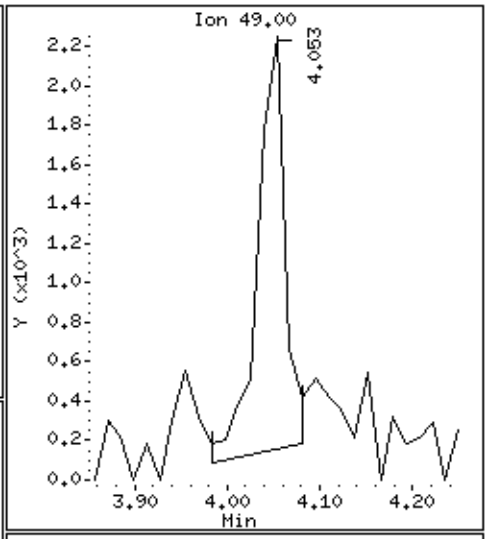
Concentration: 1.258 PPBV

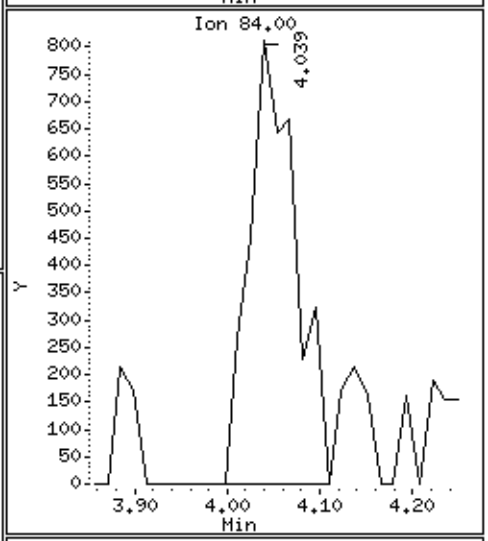


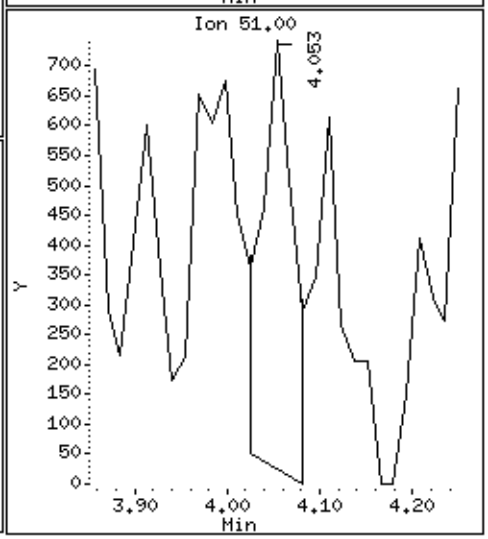












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

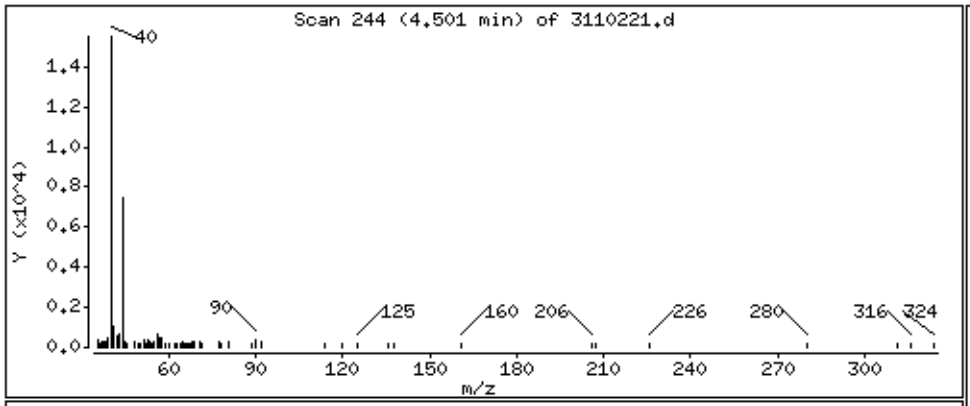
Operator: js

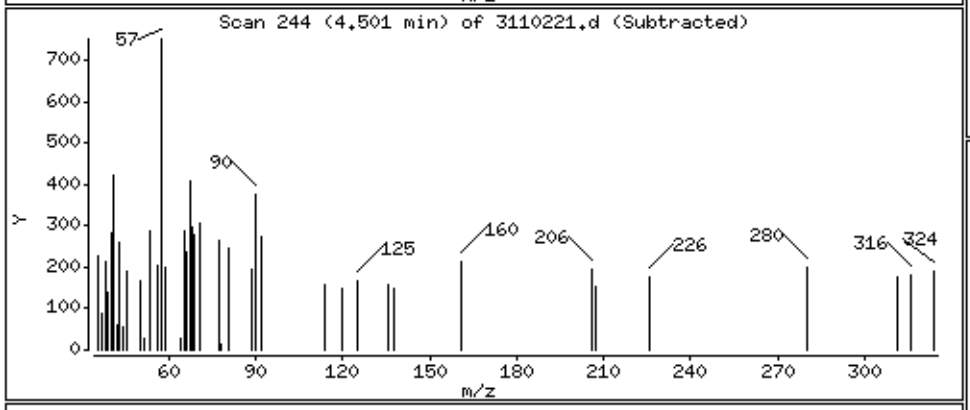
Column phase: RTX-624

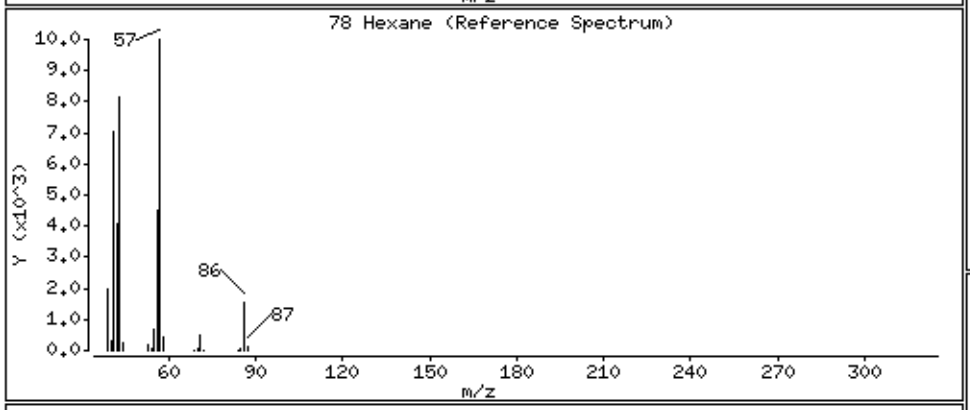
Column diameter: 0.25

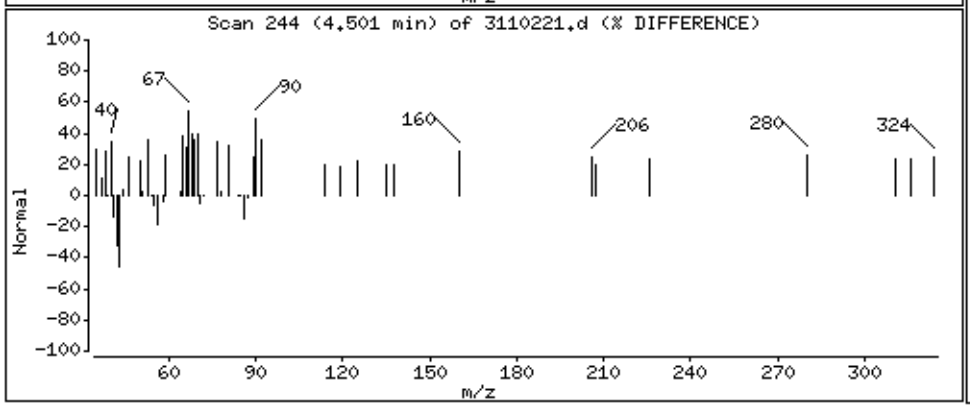
78 Hexane

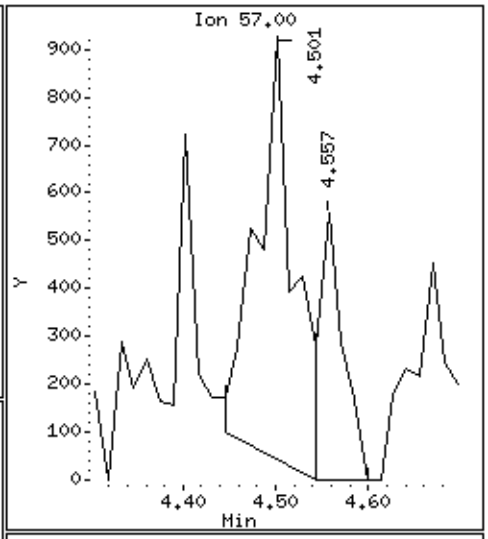
Concentration: 0.6410 PPBV

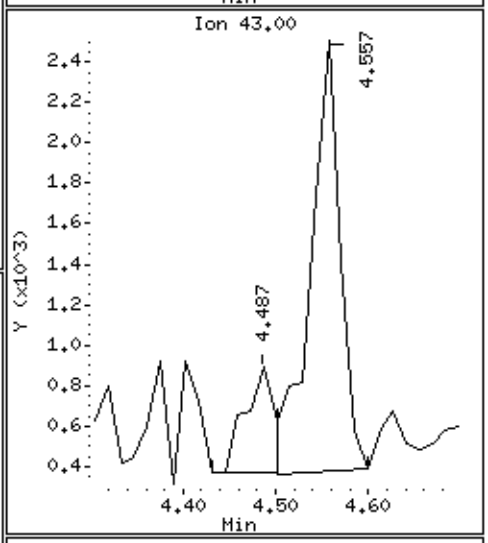


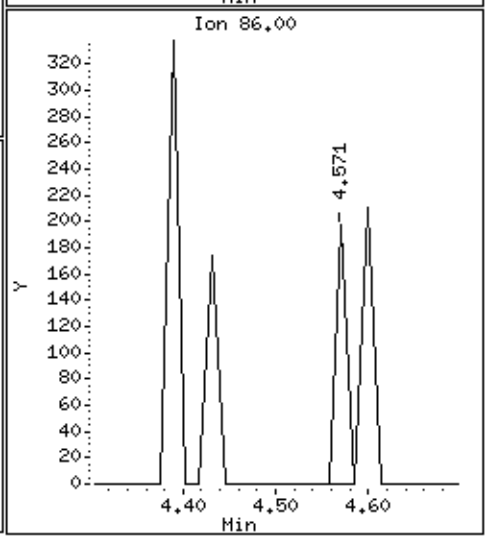












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

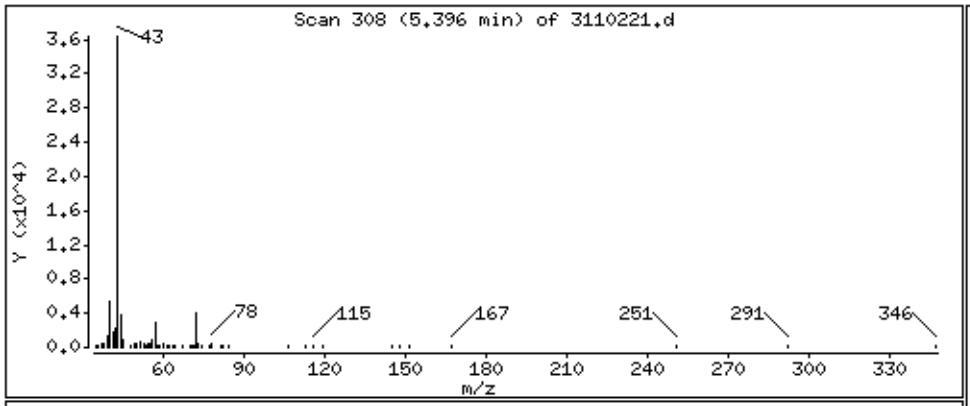
Operator: js

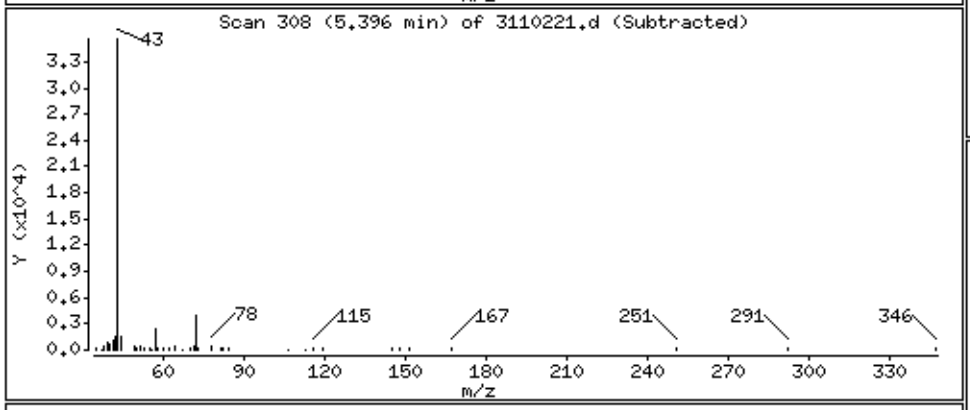
Column phase: RTX-624

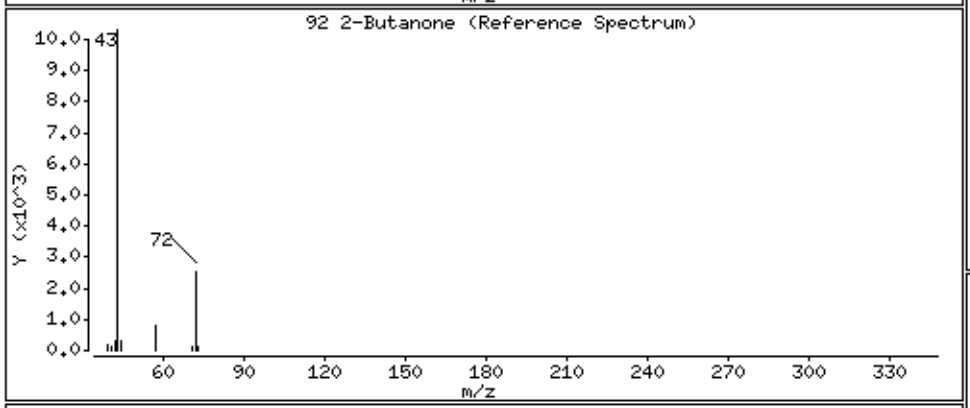
Column diameter: 0.25

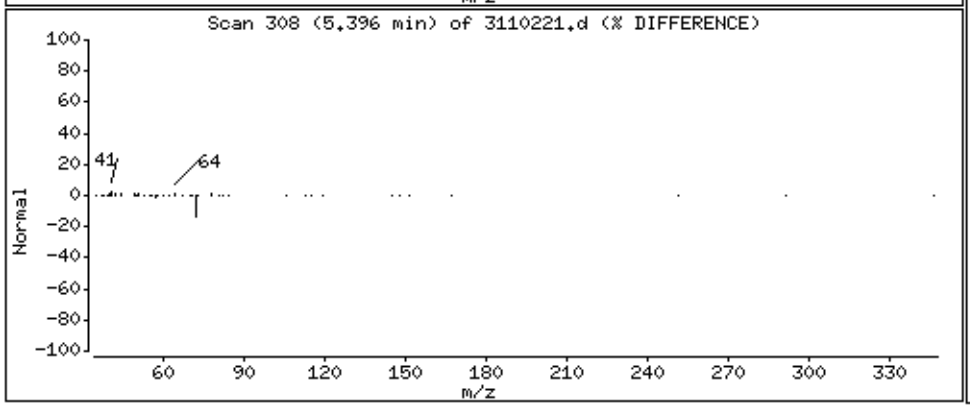
92 2-Butanone

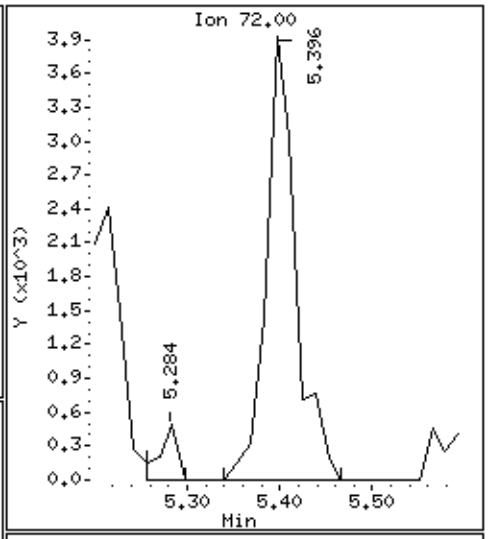
Concentration: 10.856 PPBV

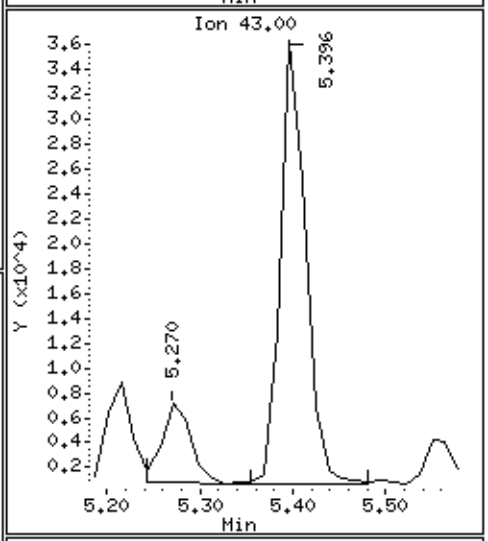


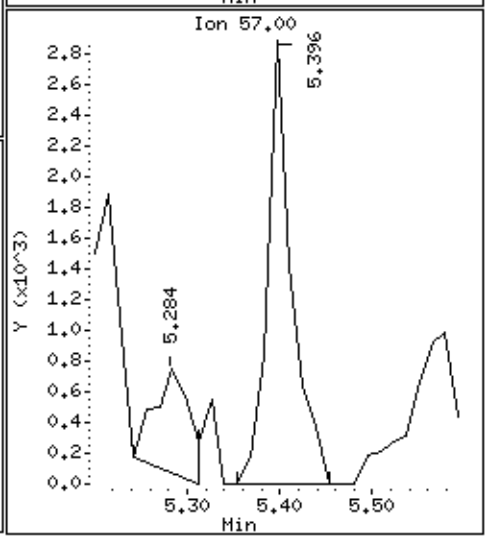












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

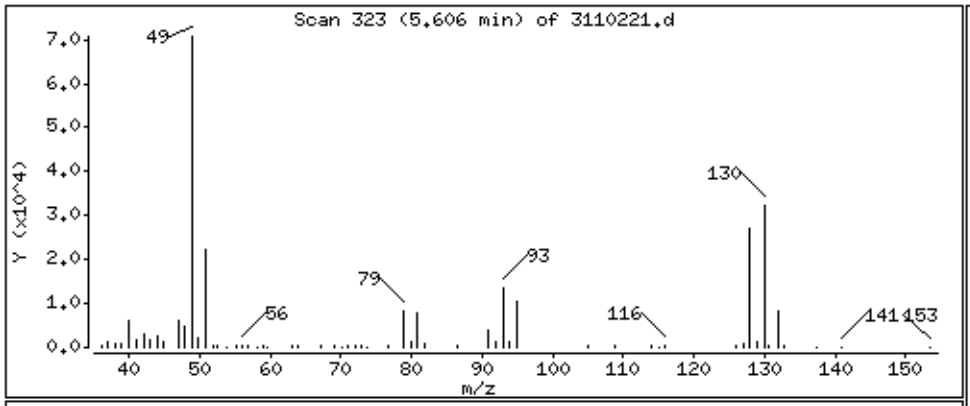
Operator: js

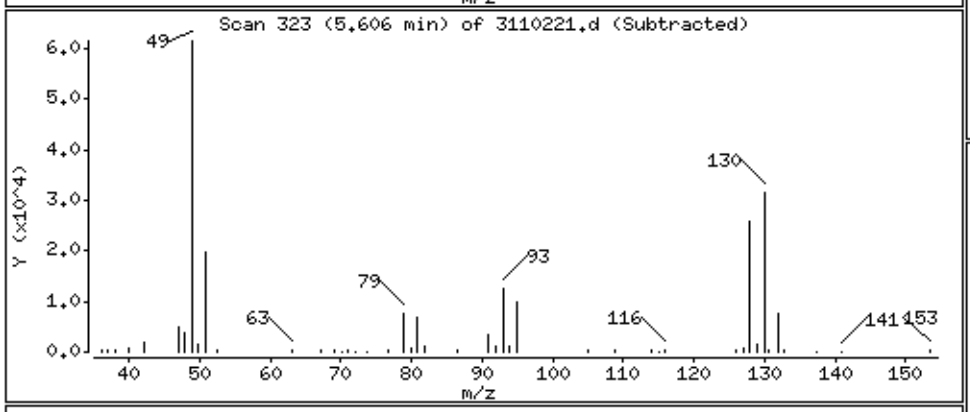
Column phase: RTX-624

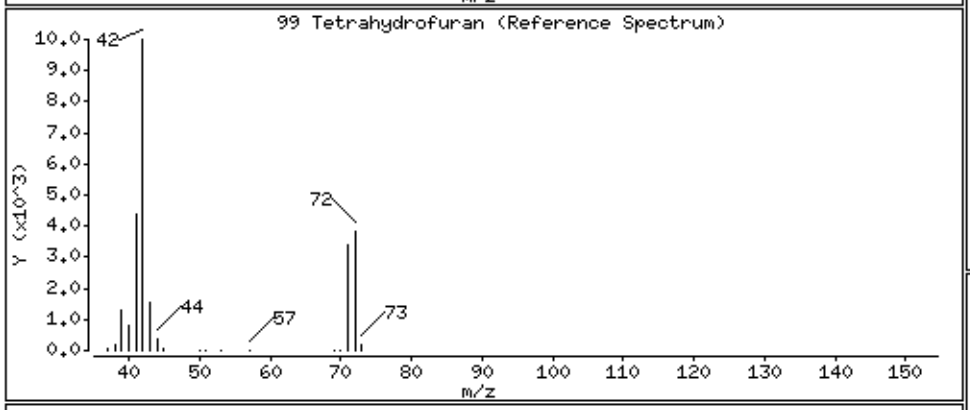
Column diameter: 0.25

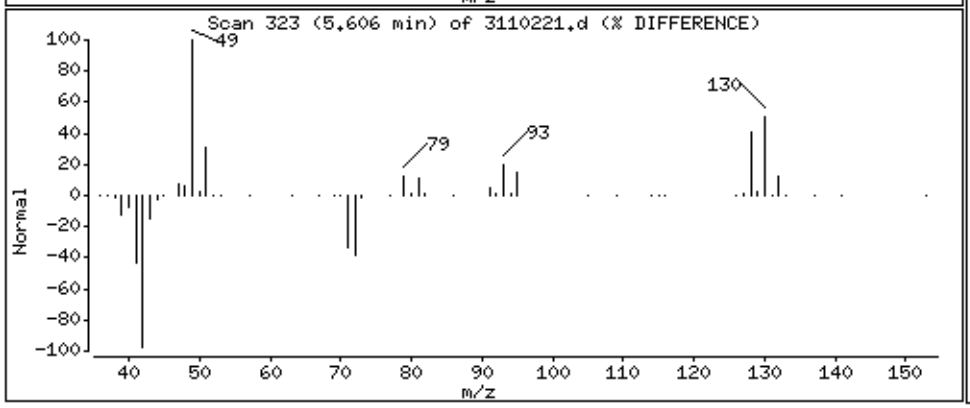
99 Tetrahydrofuran

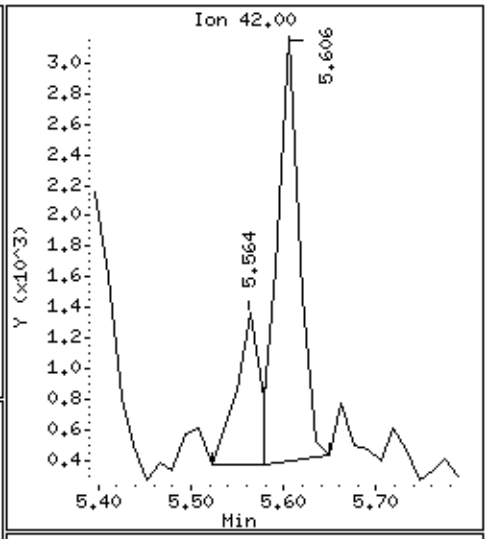
Concentration: 1.310 PPBV

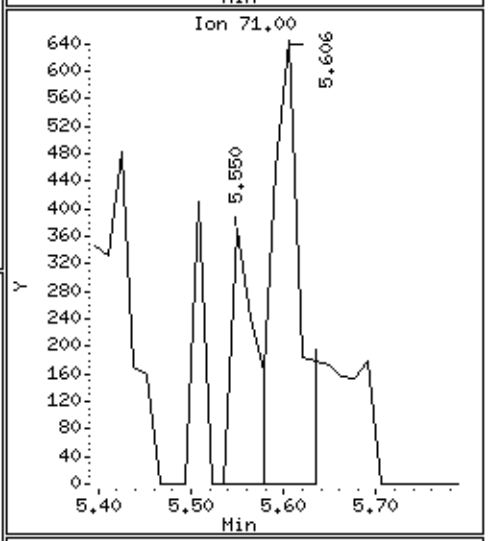


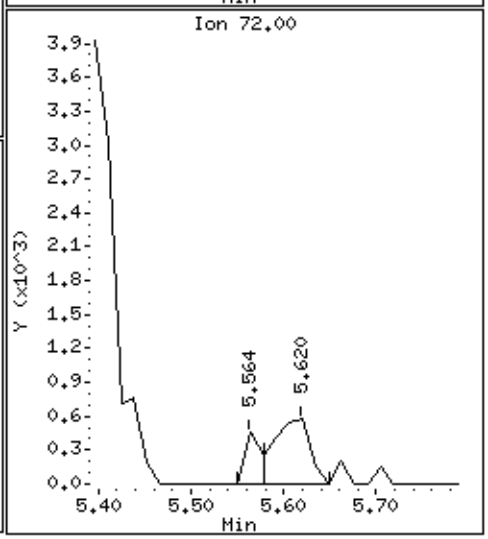












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

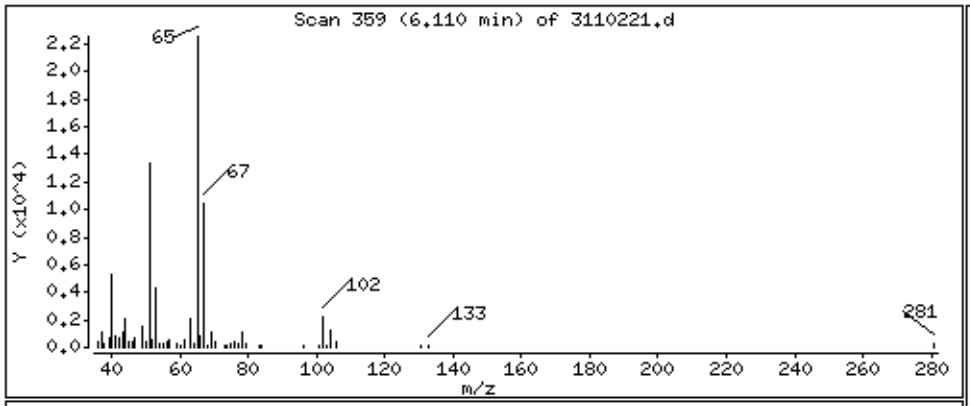
Operator: js

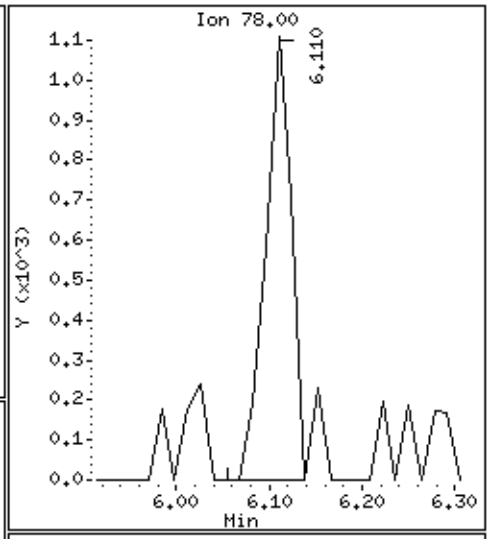
Column phase: RTX-624

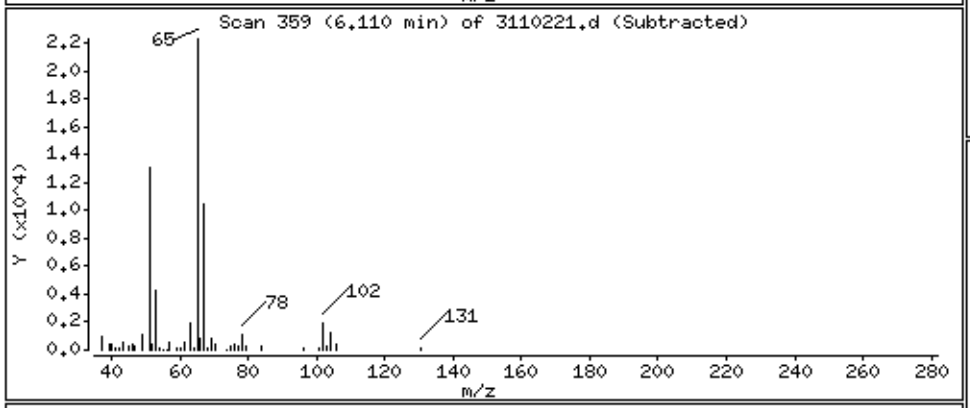
Column diameter: 0.25

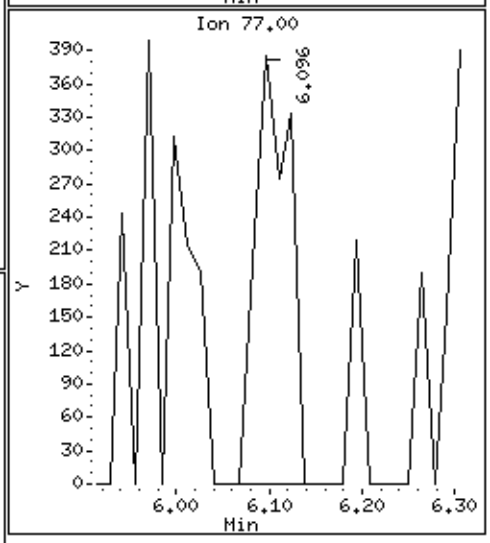
116 Benzene

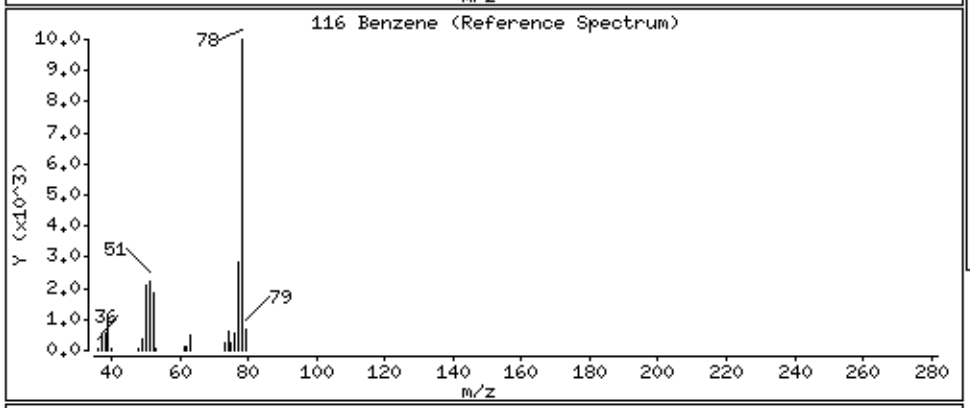
Concentration: 0.4370 PPBV

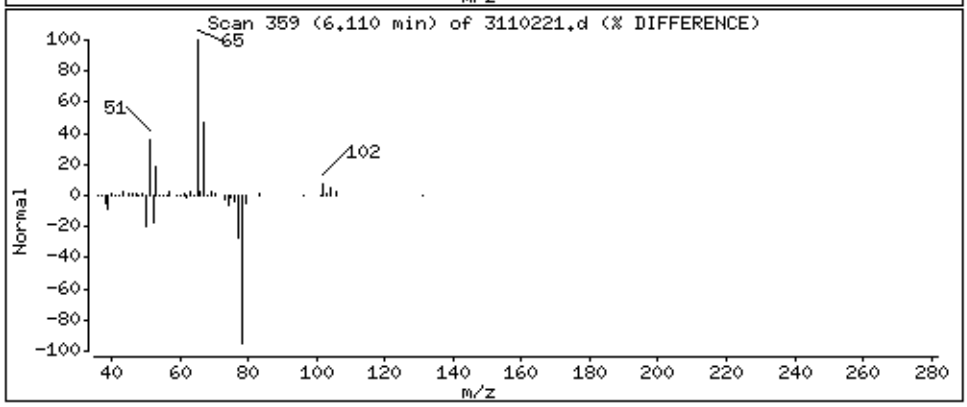












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

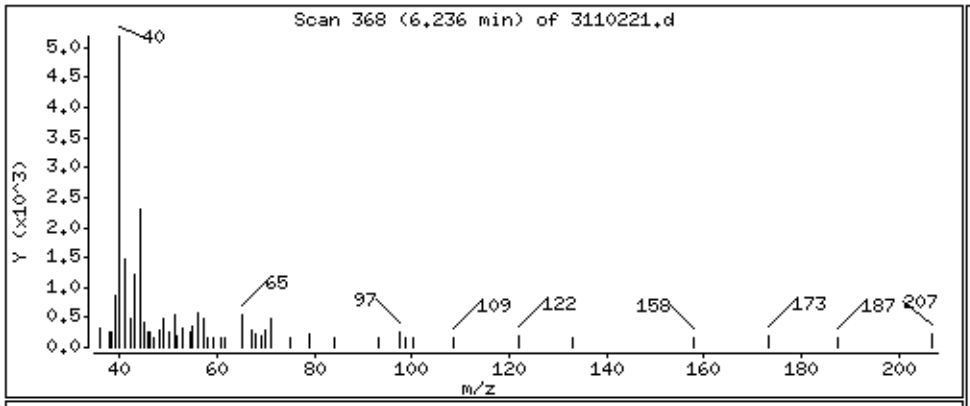
Operator: js

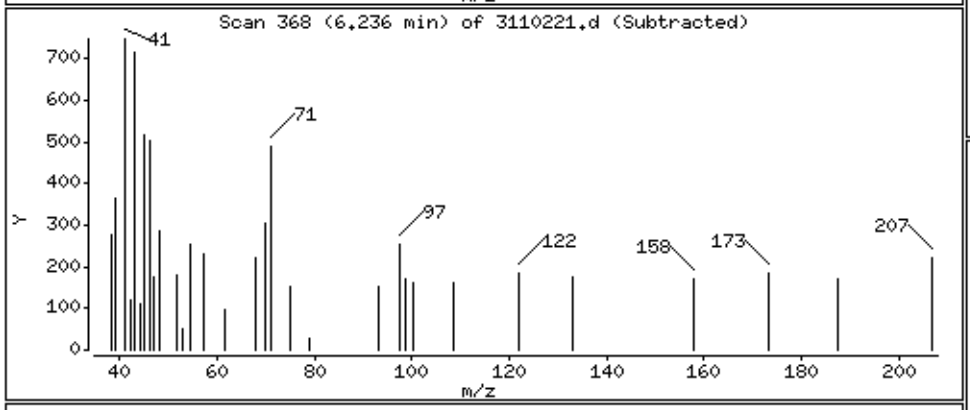
Column phase: RTX-624

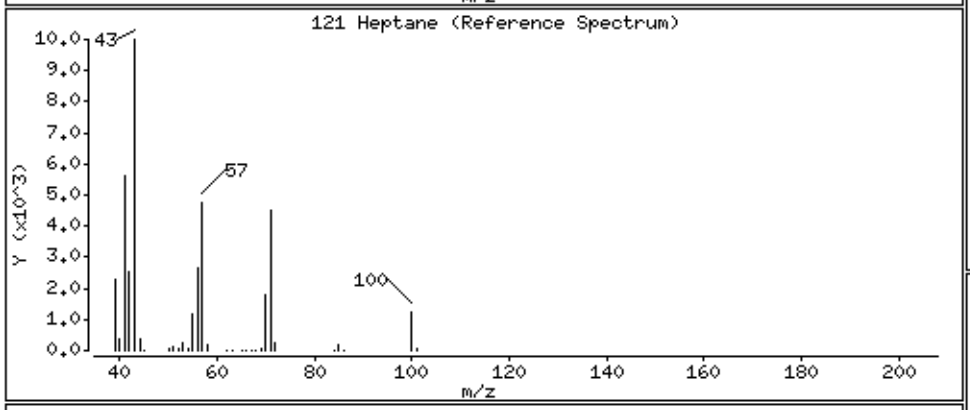
Column diameter: 0.25

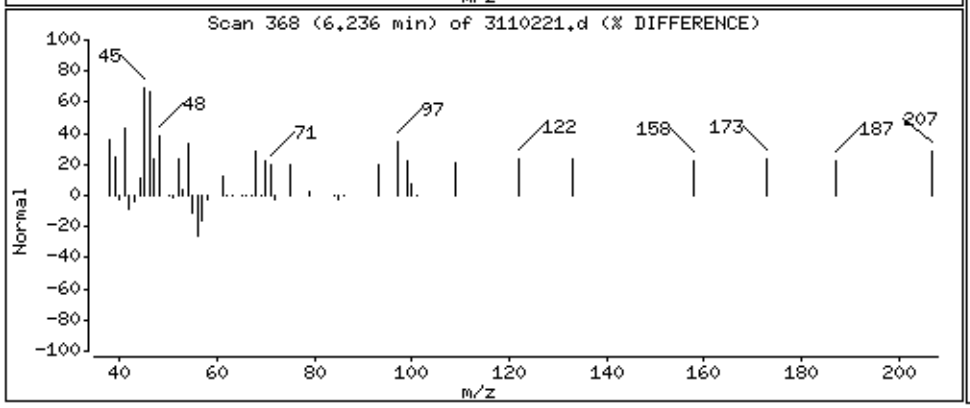
121 Heptane

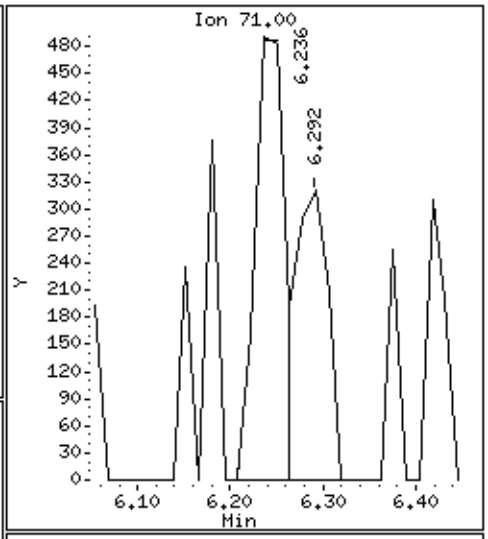
Concentration: 0.5806 PPBV

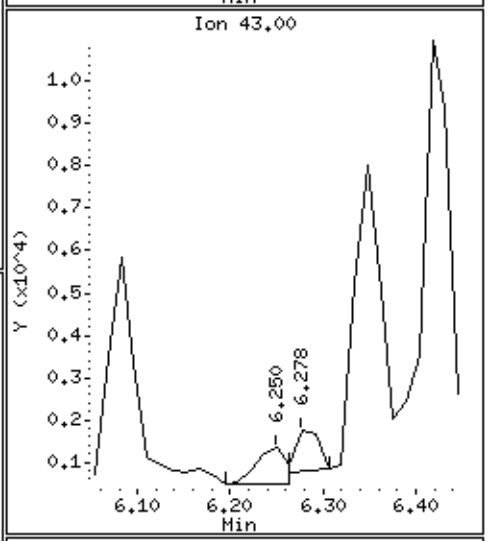


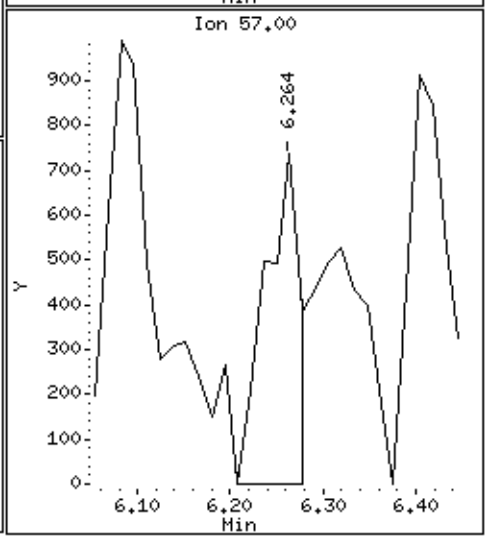












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

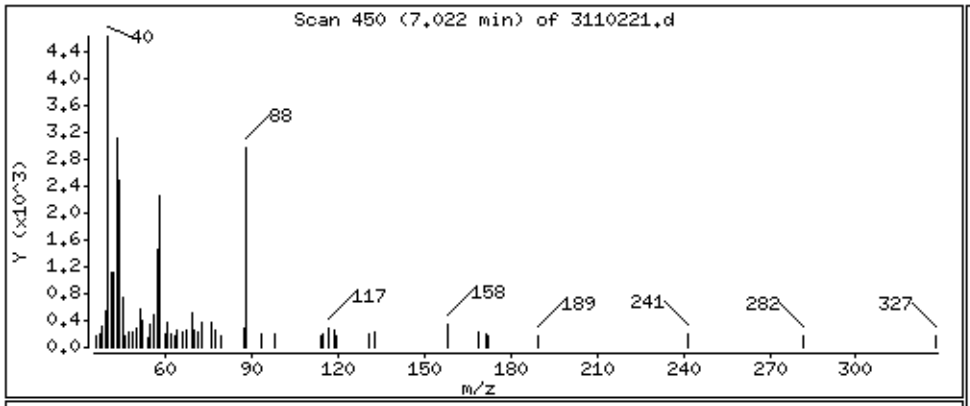
Operator: js

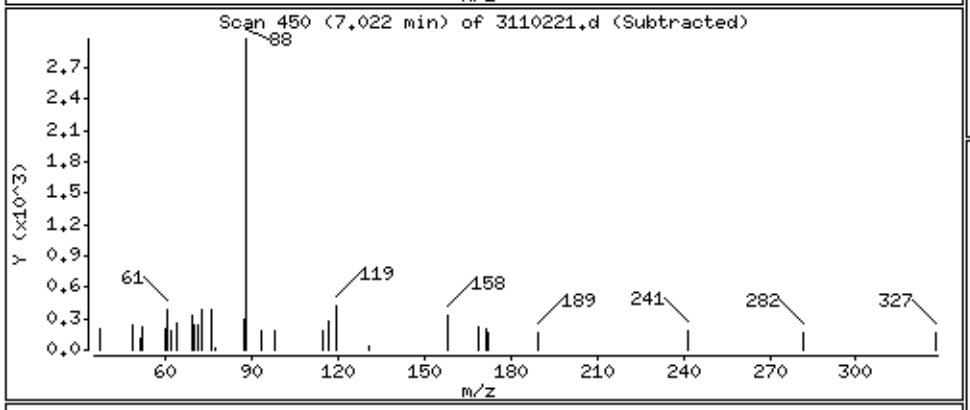
Column phase: RTX-624

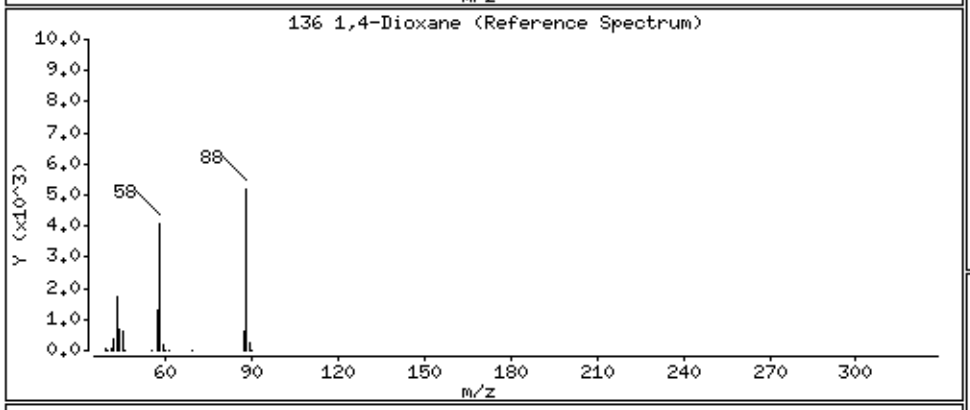
Column diameter: 0.25

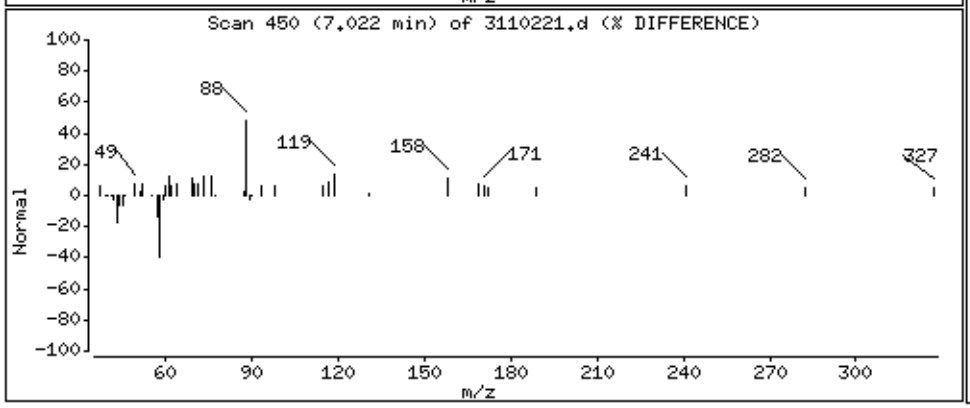
136 1,4-Dioxane

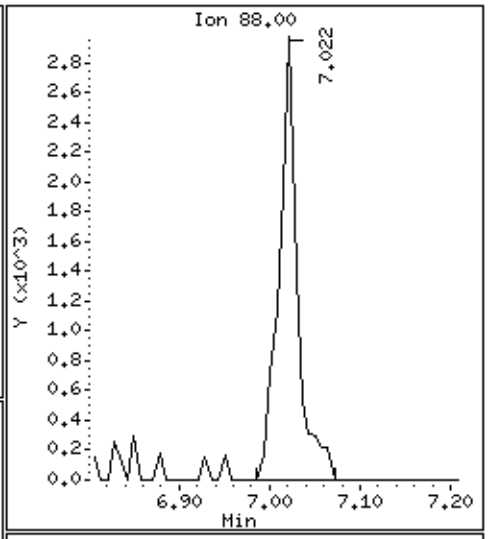
Concentration: 3.391 PPBV

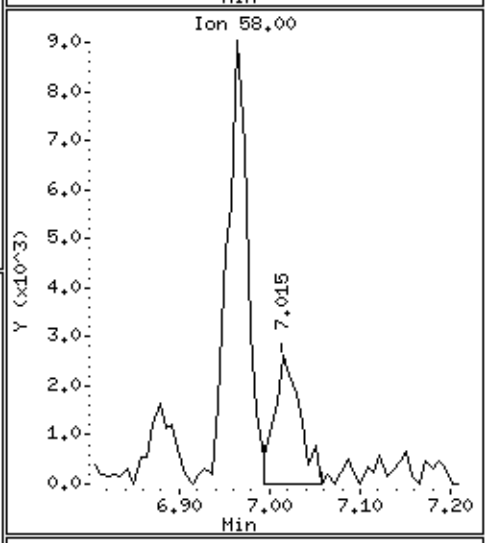


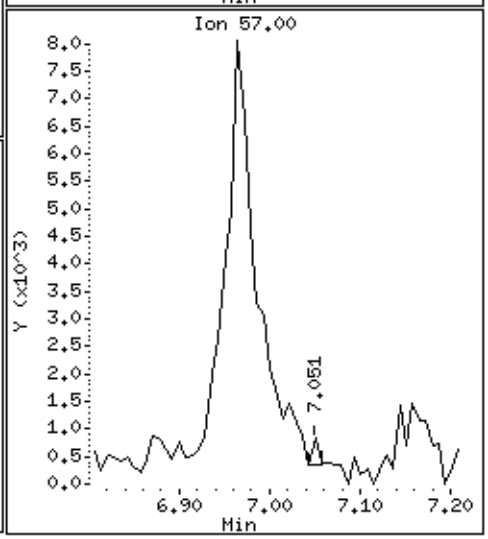












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

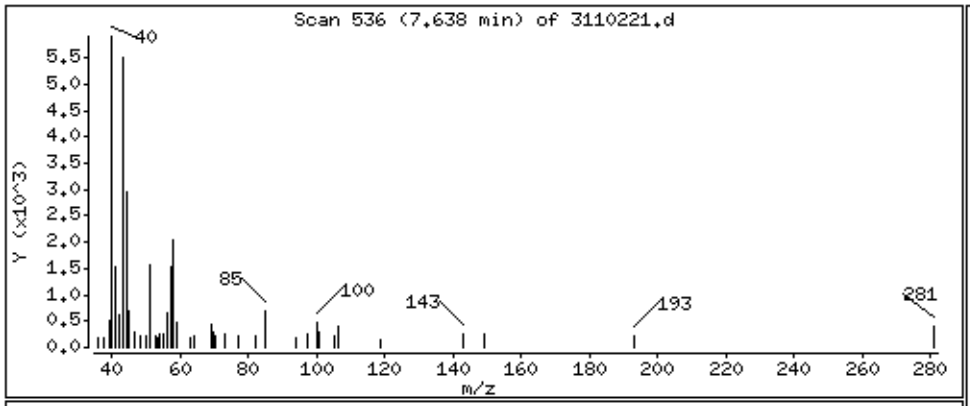
Operator: js

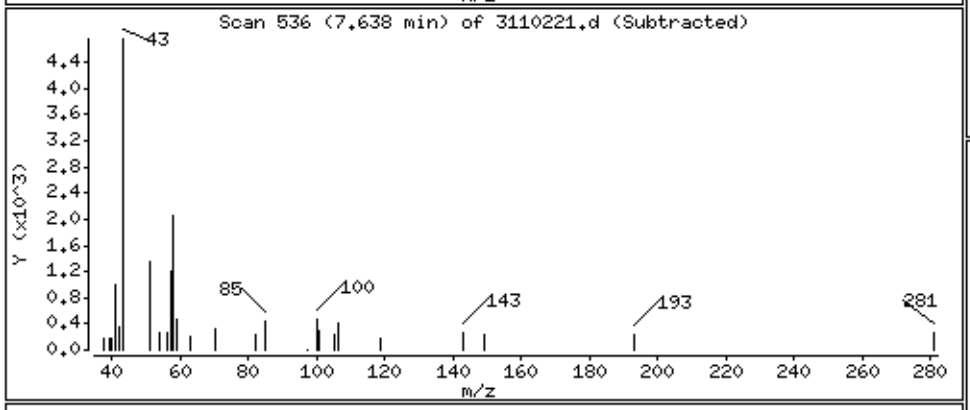
Column phase: RTX-624

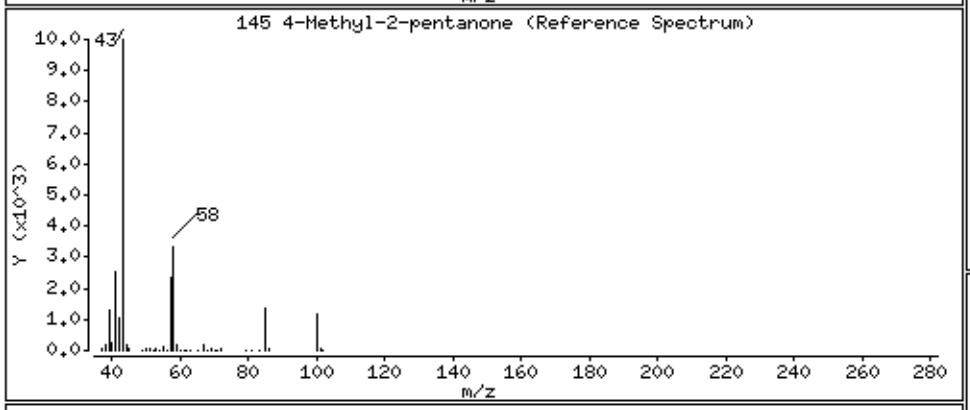
Column diameter: 0.25

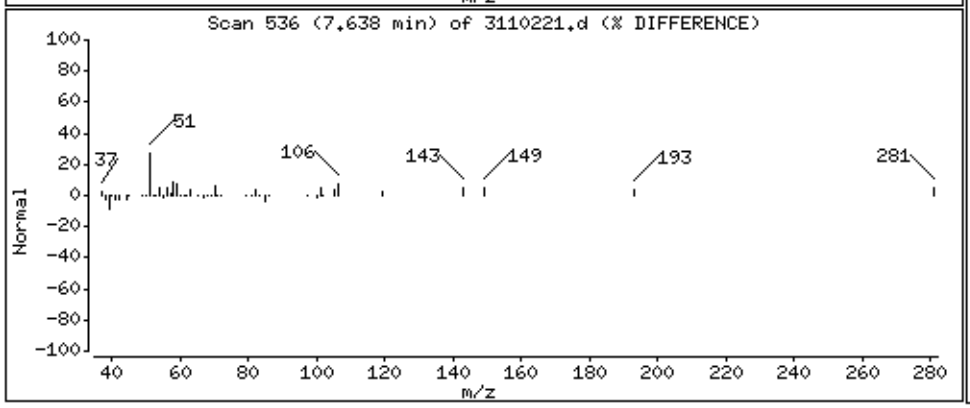
145 4-Methyl-2-pentanone

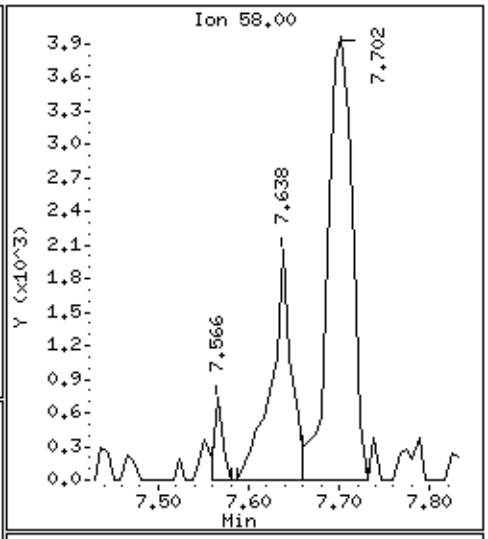
Concentration: 1.104 PPBV

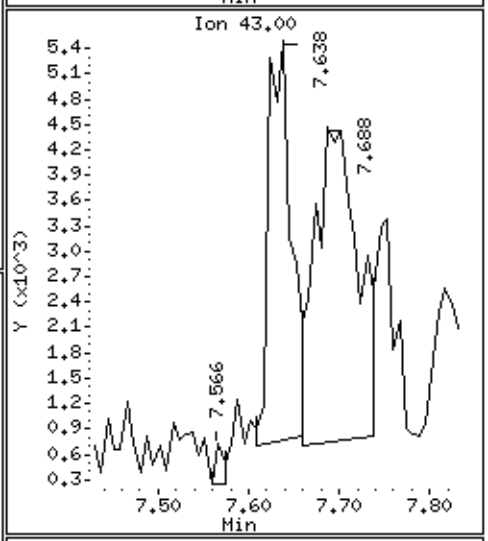


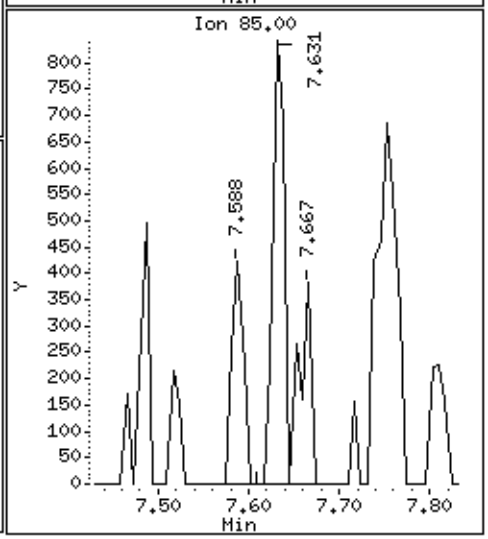












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

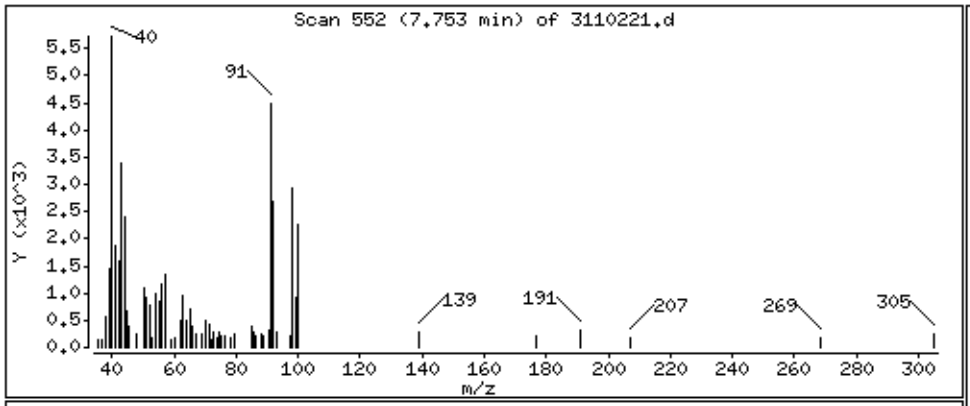
Operator: js

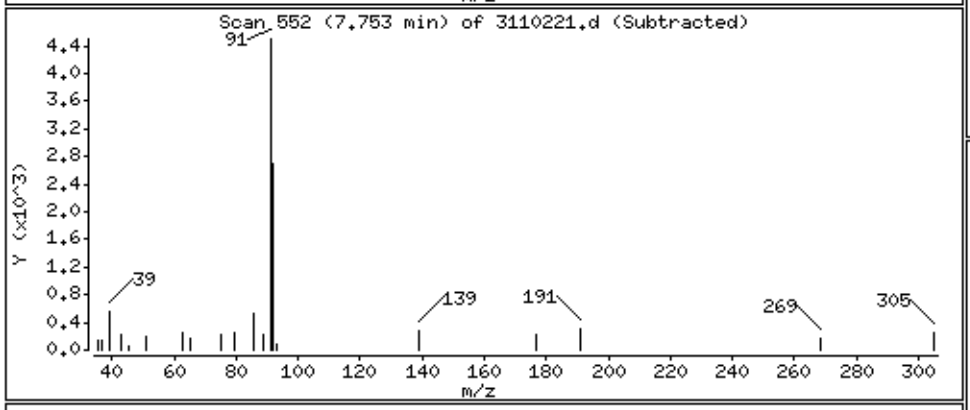
Column phase: RTX-624

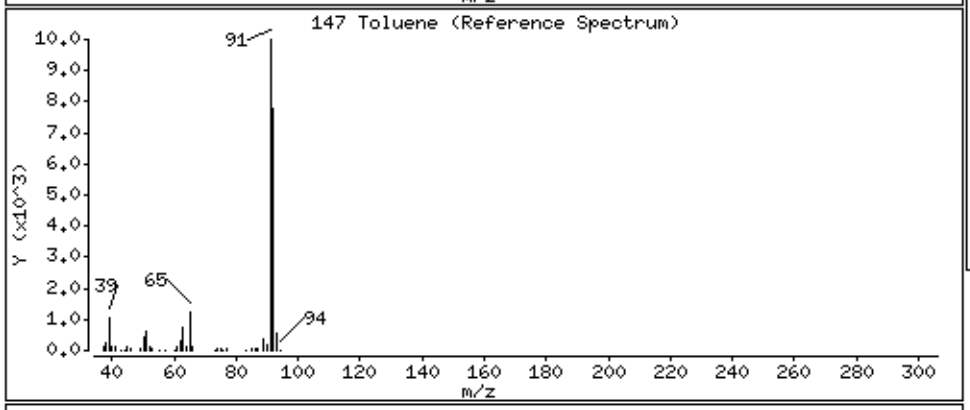
Column diameter: 0.25

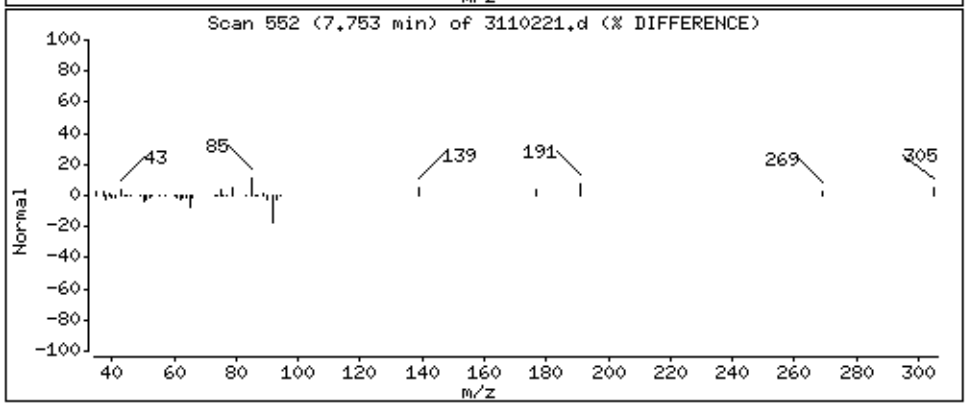
147 Toluene

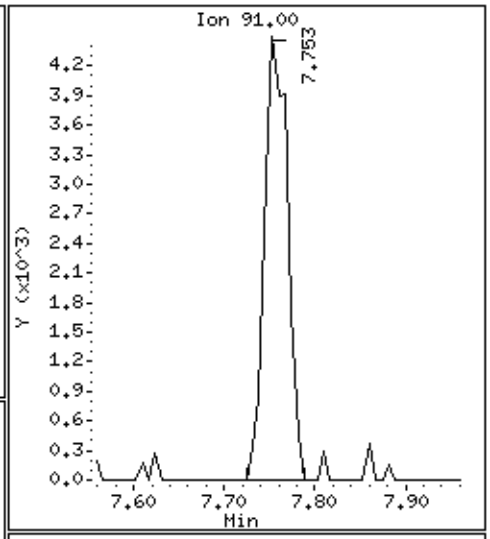
Concentration: 1.167 PPBV

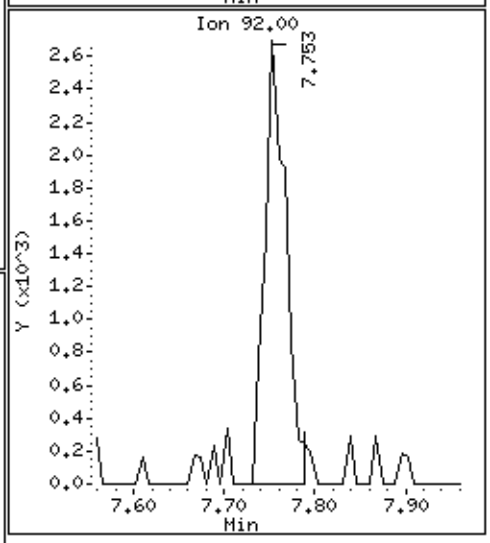












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

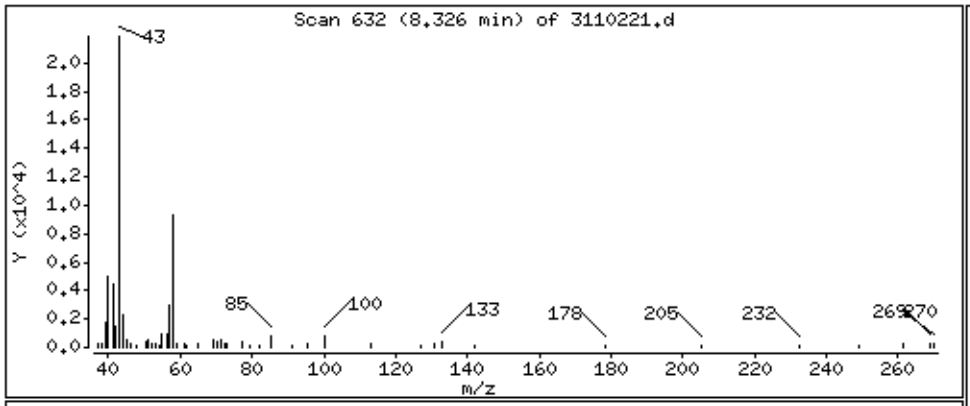
Operator: js

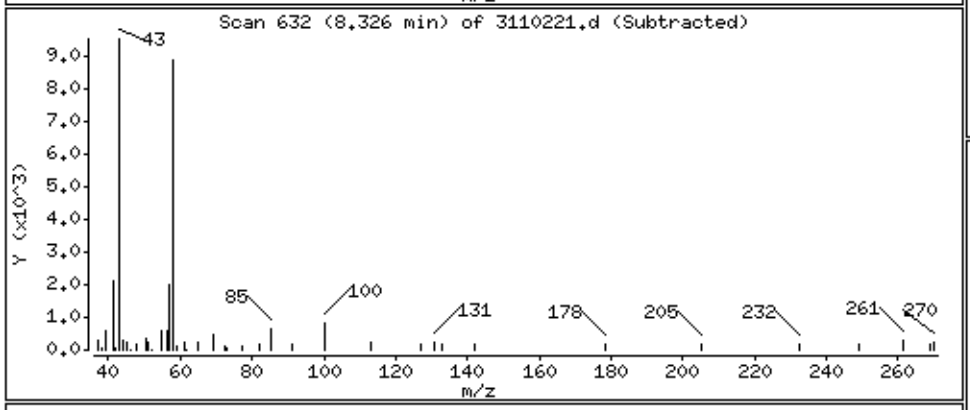
Column phase: RTX-624

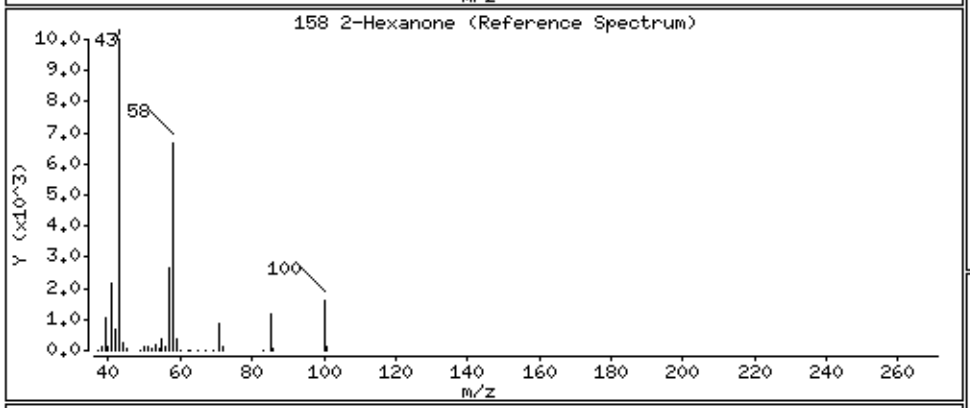
Column diameter: 0.25

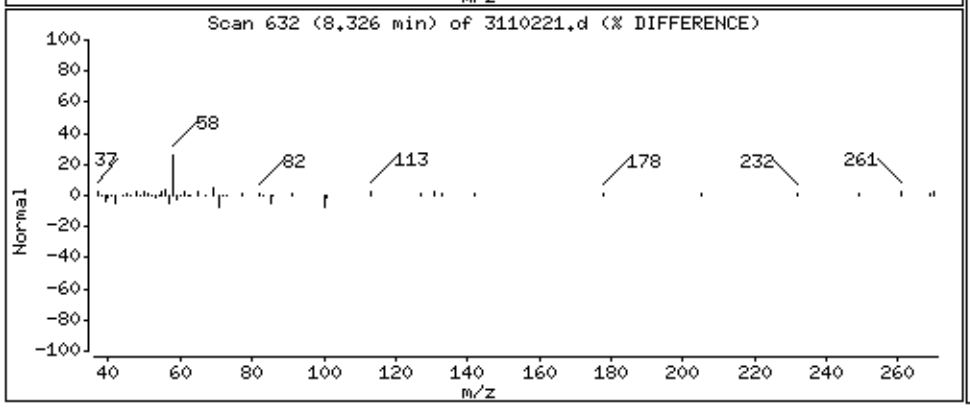
158 2-Hexanone

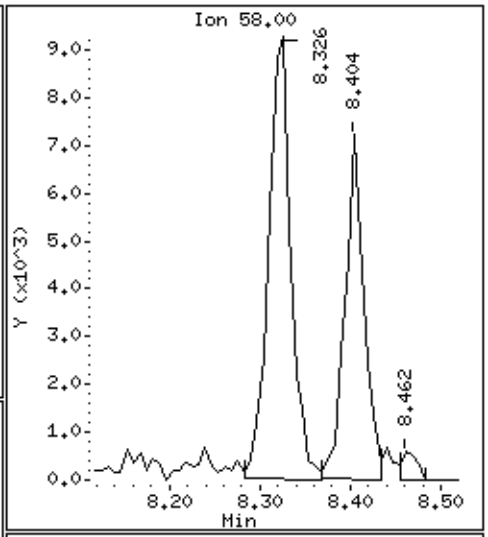
Concentration: 3.587 PPBV

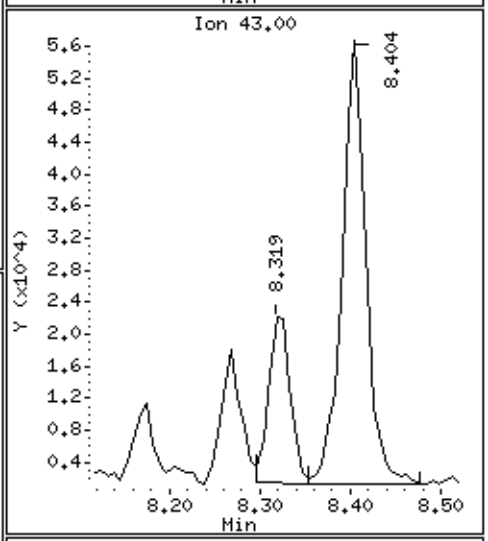


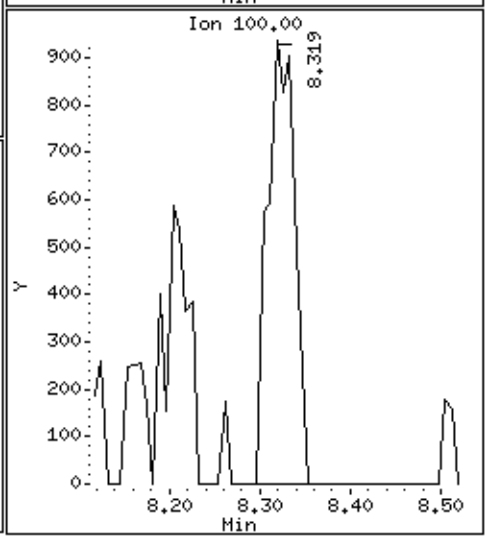












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

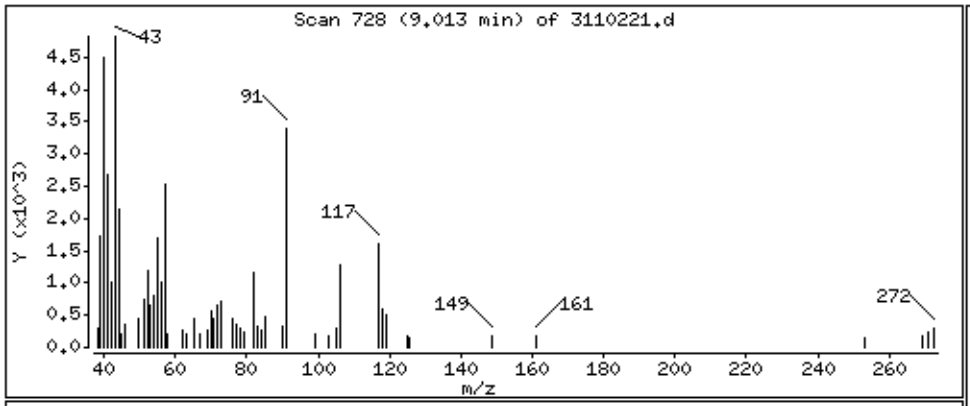
Operator: js

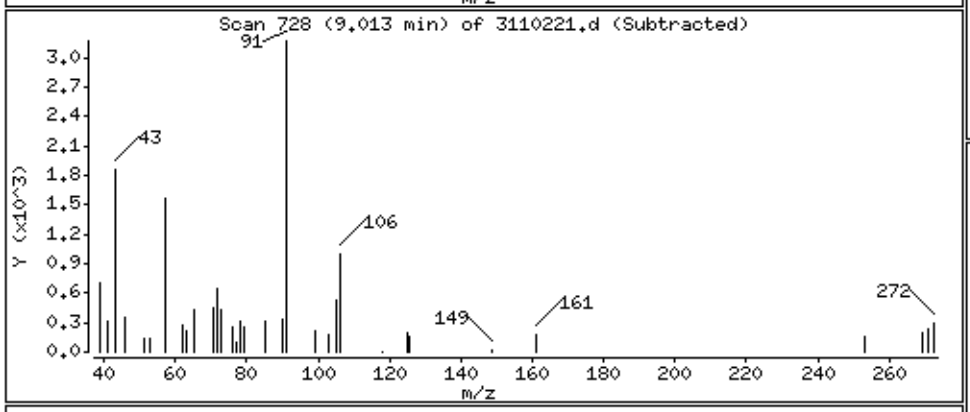
Column phase: RTX-624

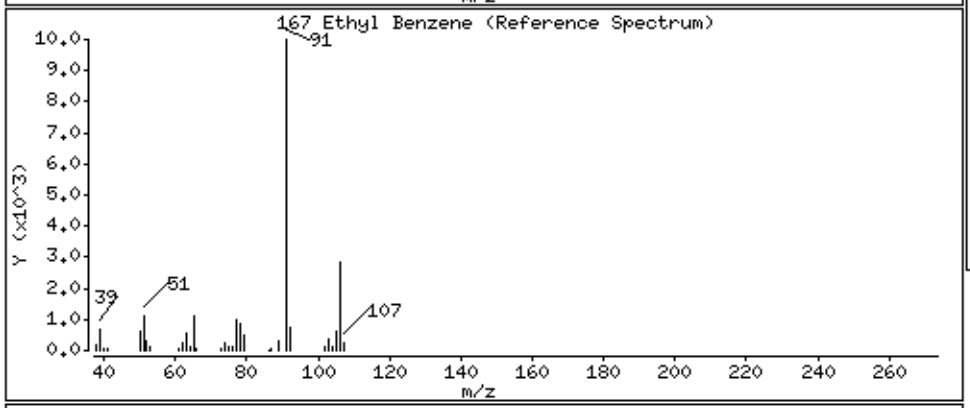
Column diameter: 0.25

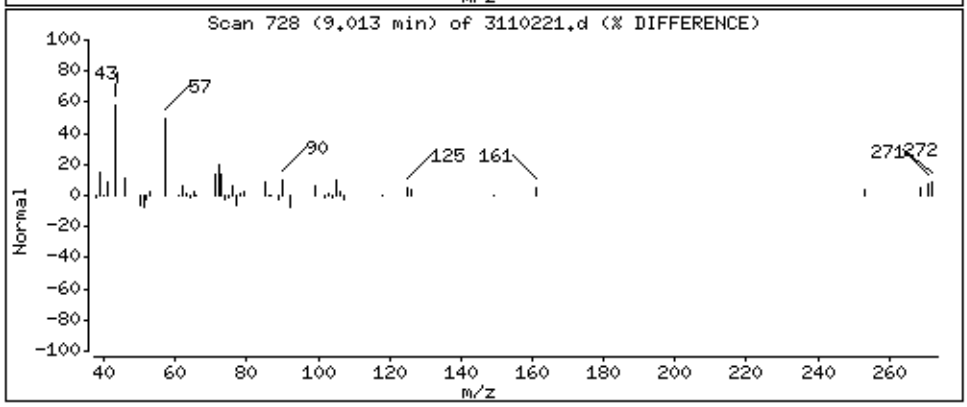
167 Ethyl Benzene

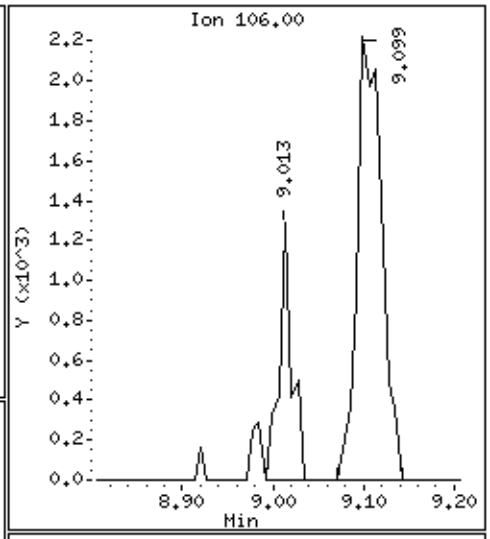
Concentration: 0.3548 PPBV

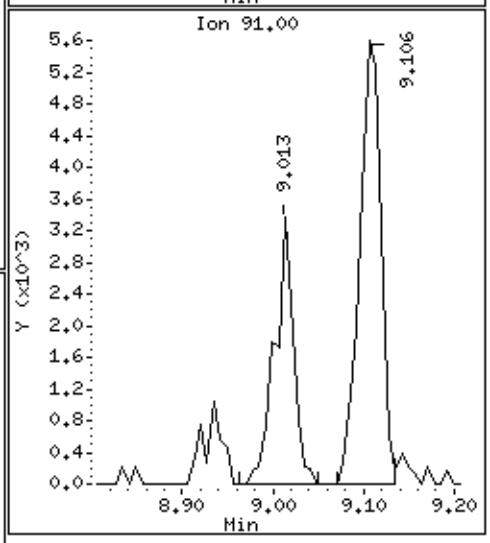












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

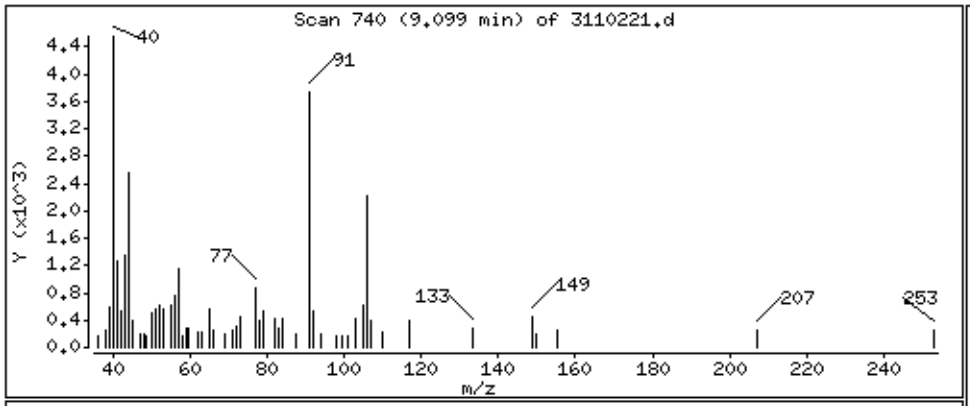
Operator: js

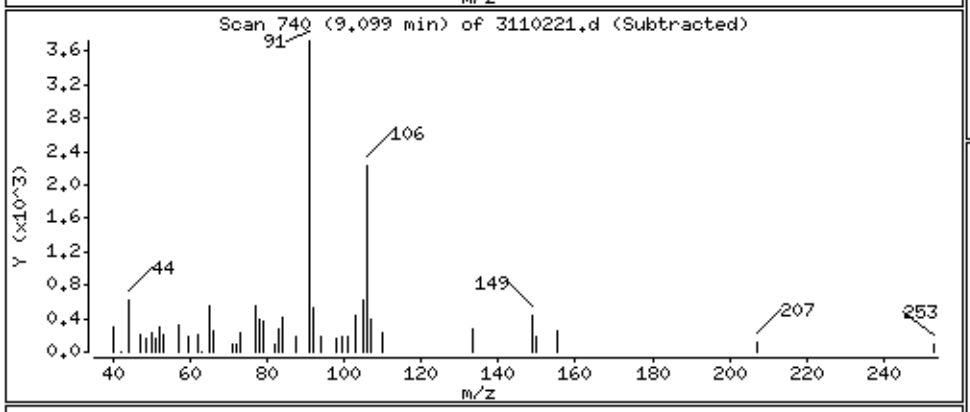
Column phase: RTX-624

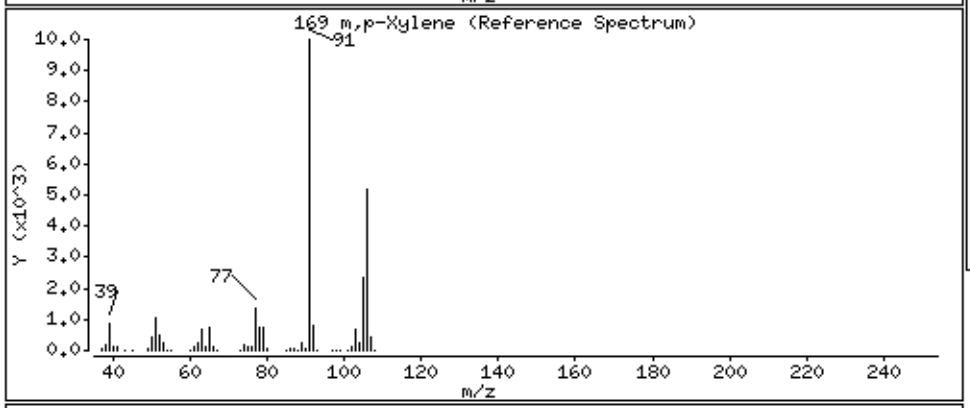
Column diameter: 0.25

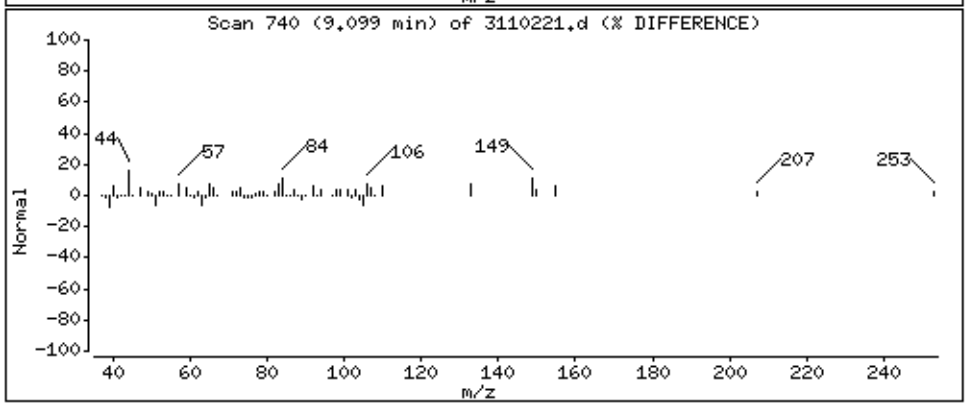
169 m,p-Xylene

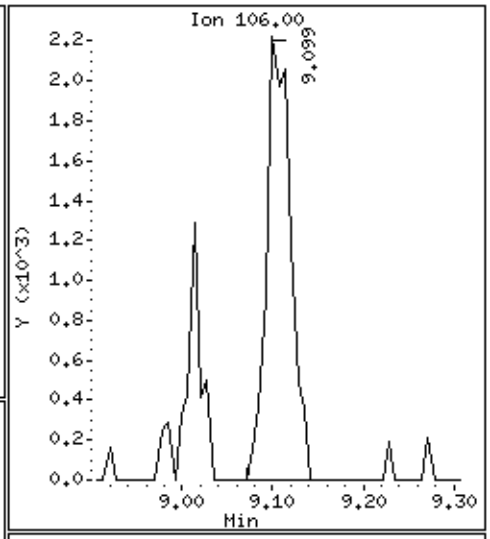
Concentration: 0.9282 PPBV

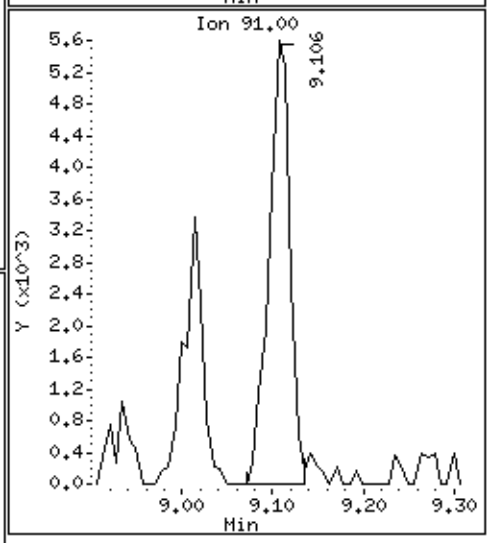












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

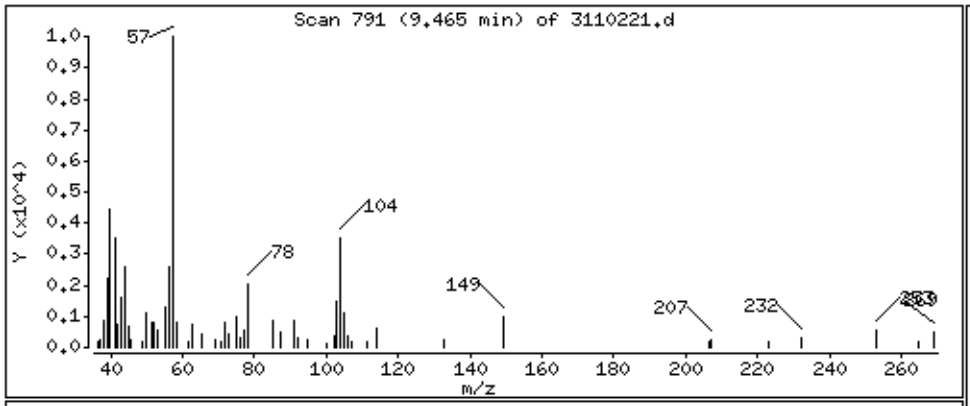
Operator: js

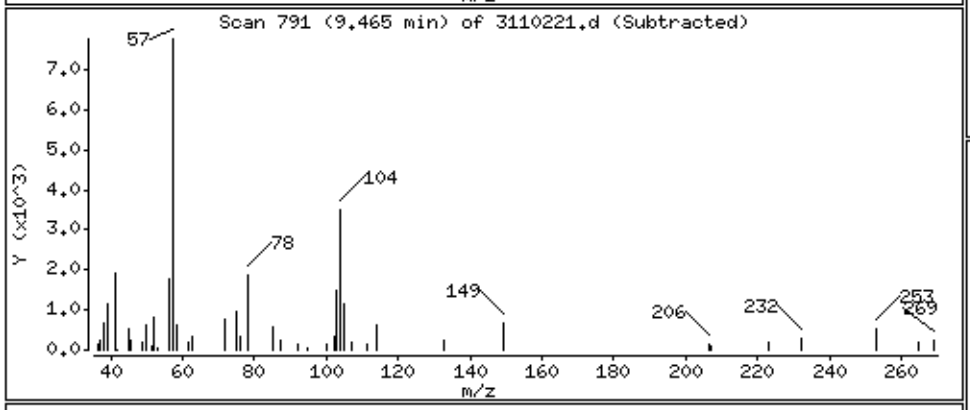
Column phase: RTX-624

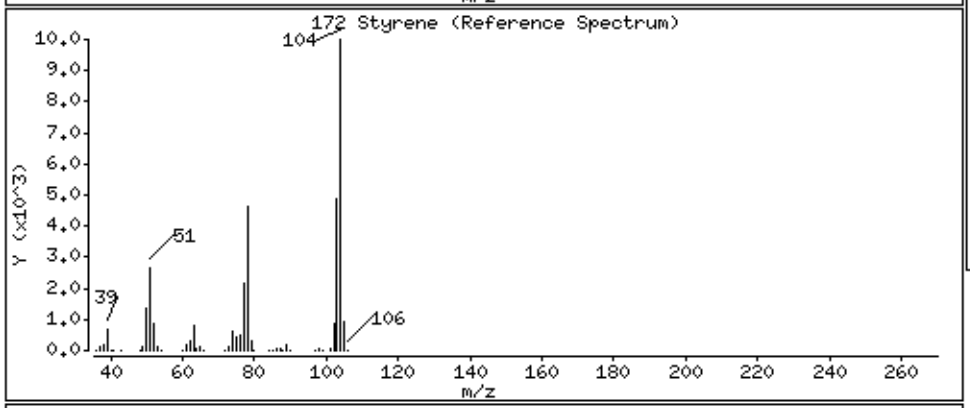
Column diameter: 0.25

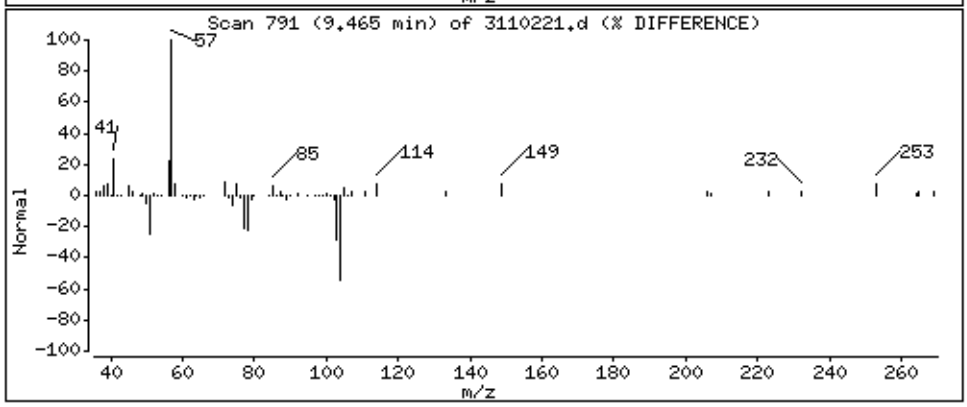
172 Styrene

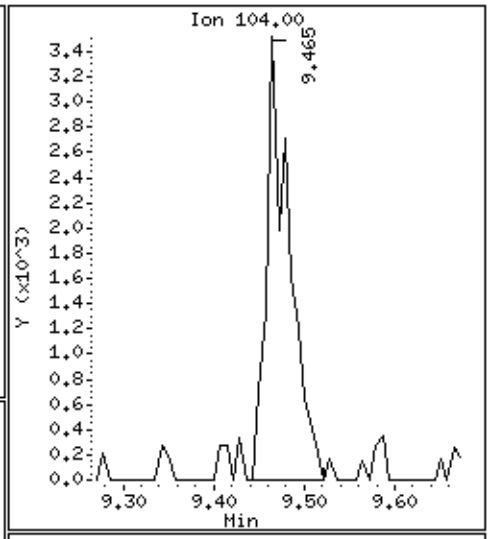
Concentration: 0.8612 PPBV

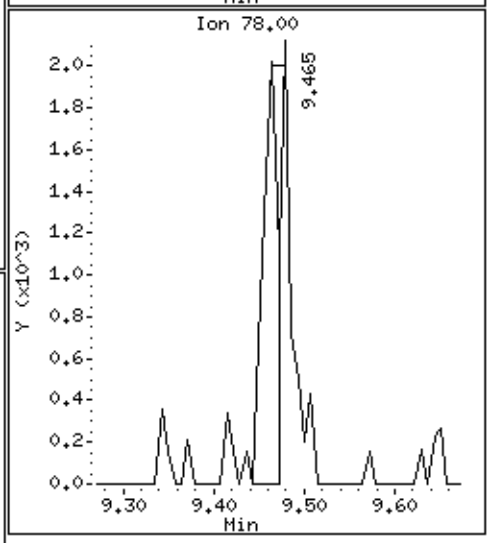












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

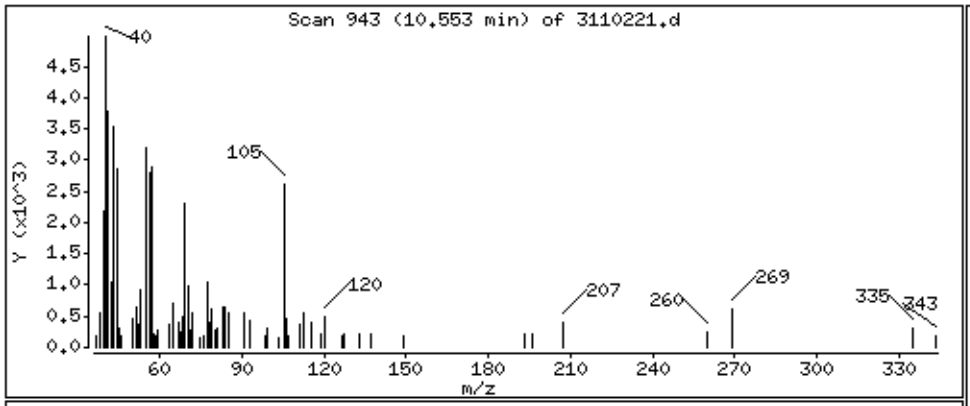
Operator: js

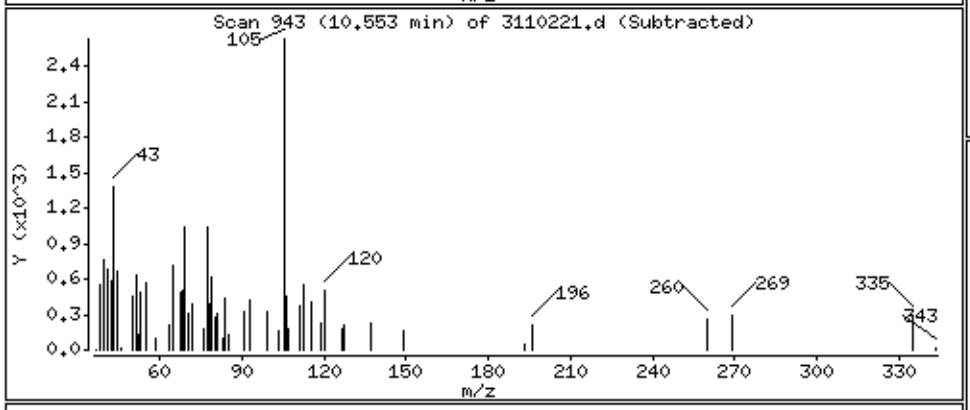
Column phase: RTX-624

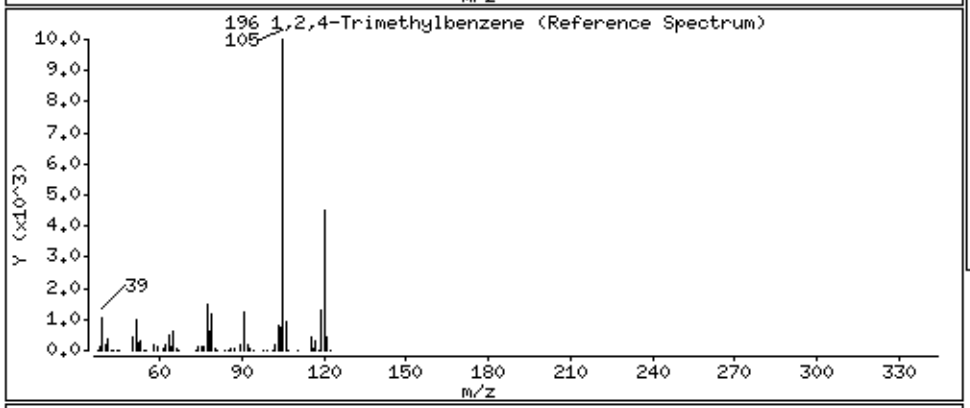
Column diameter: 0.25

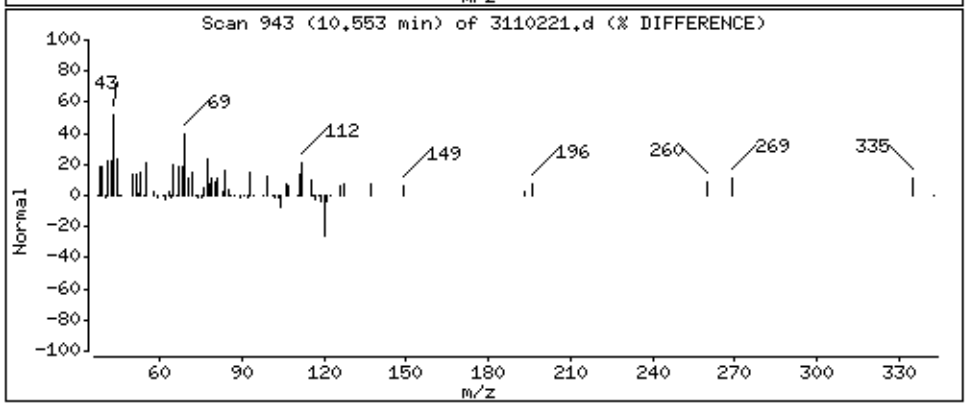
196 1,2,4-Trimethylbenzene

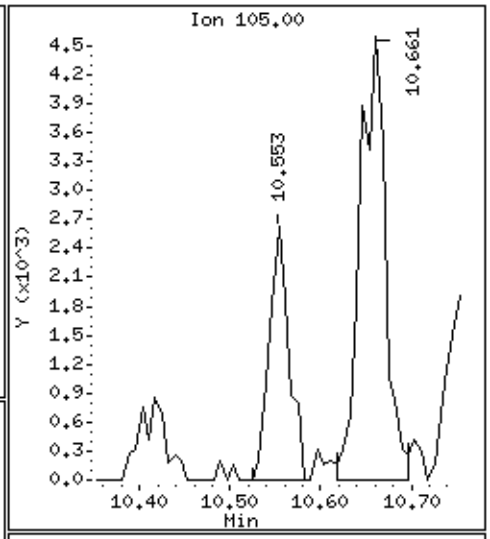
Concentration: 0.3250 PPBV

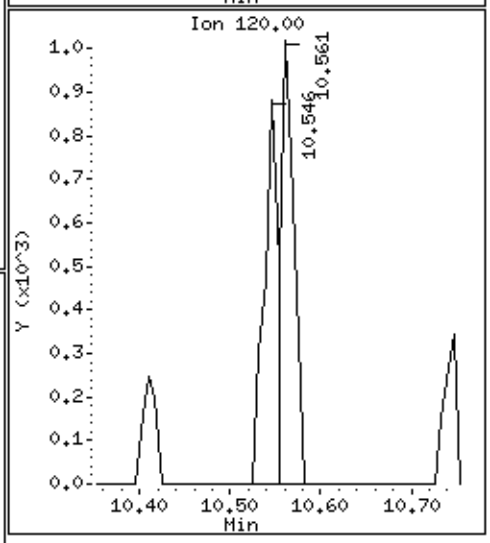












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

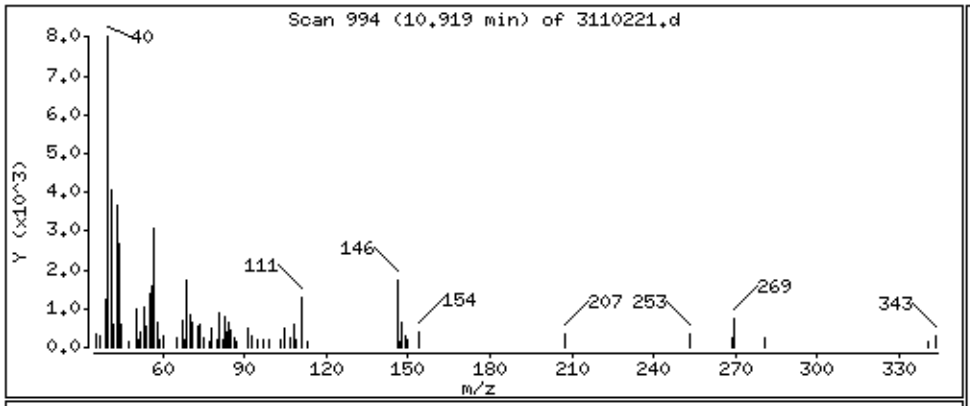
Operator: js

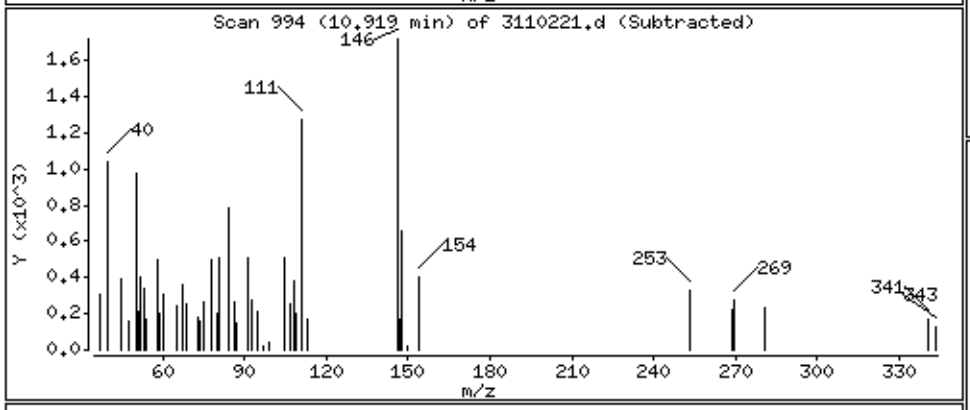
Column phase: RTX-624

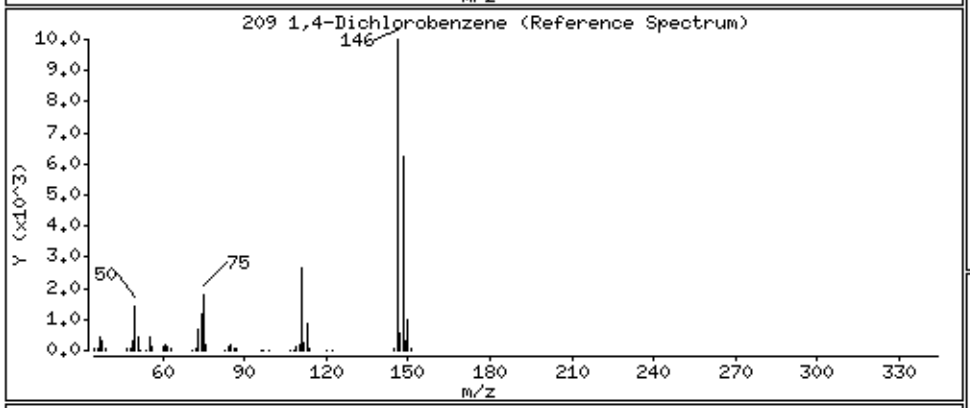
Column diameter: 0.25

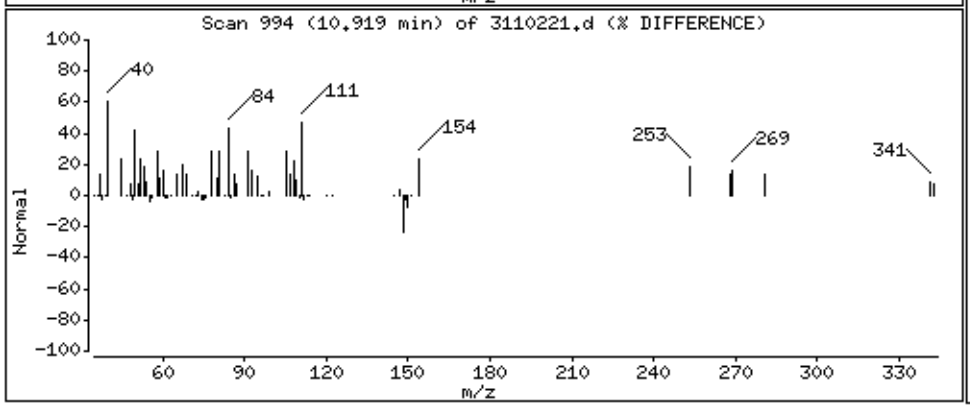
209 1,4-Dichlorobenzene

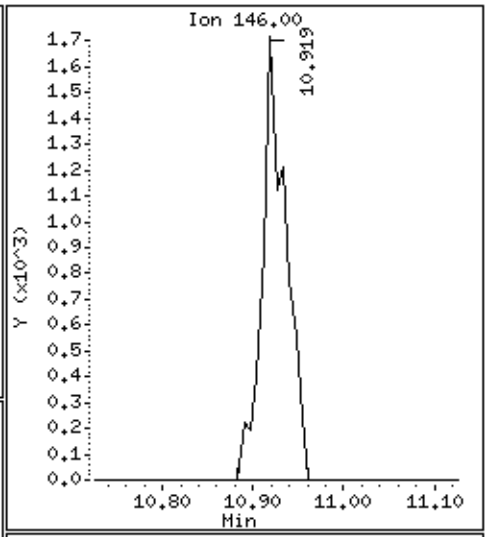
Concentration: 0.3832 PPBV

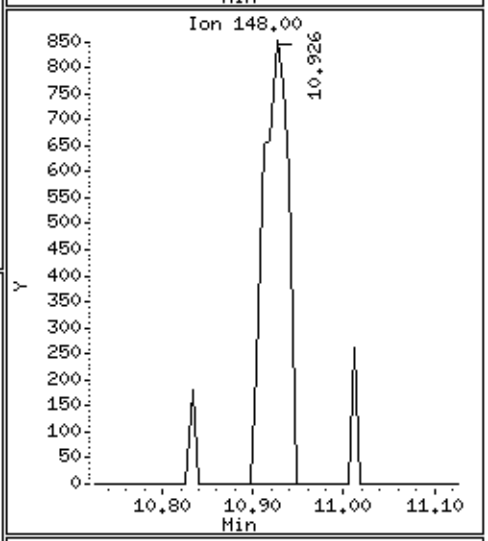


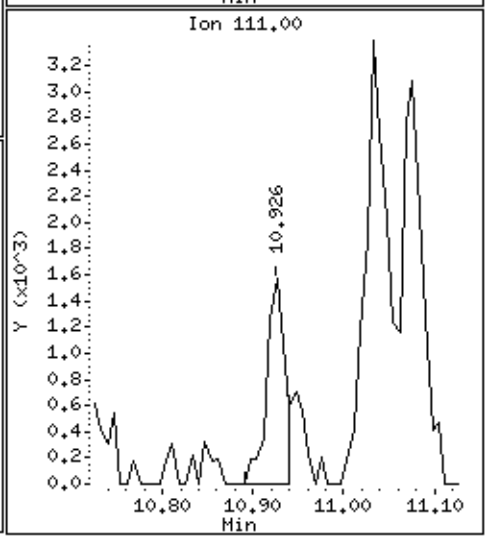












Data File: /chem/msd3.i/02nov15.b/3110221.d

Date : 02-NOV-2015 22:32

Client ID:

Instrument: msd3.i

Sample Info: 200ml 35646

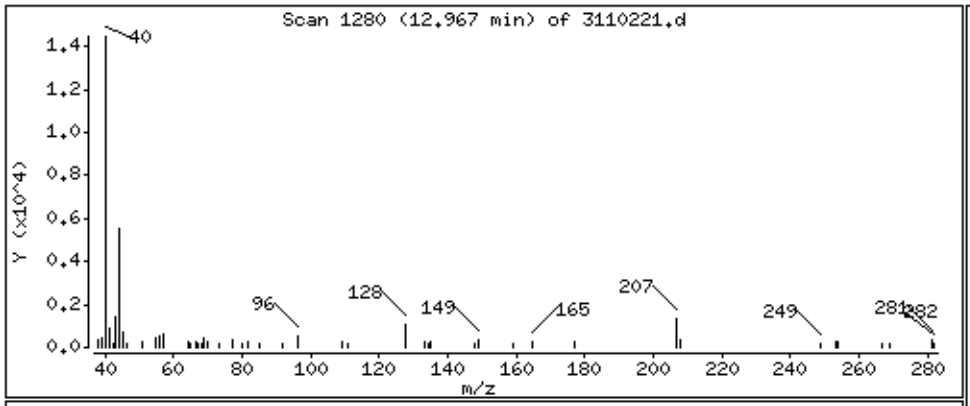
Operator: js

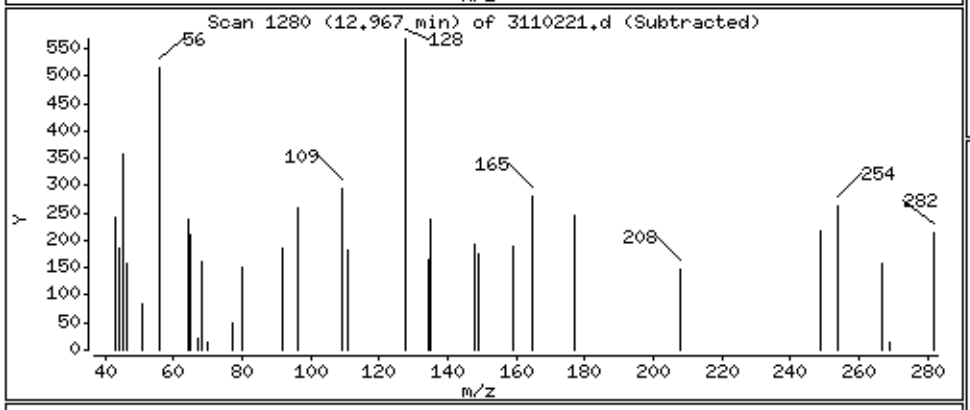
Column phase: RTX-624

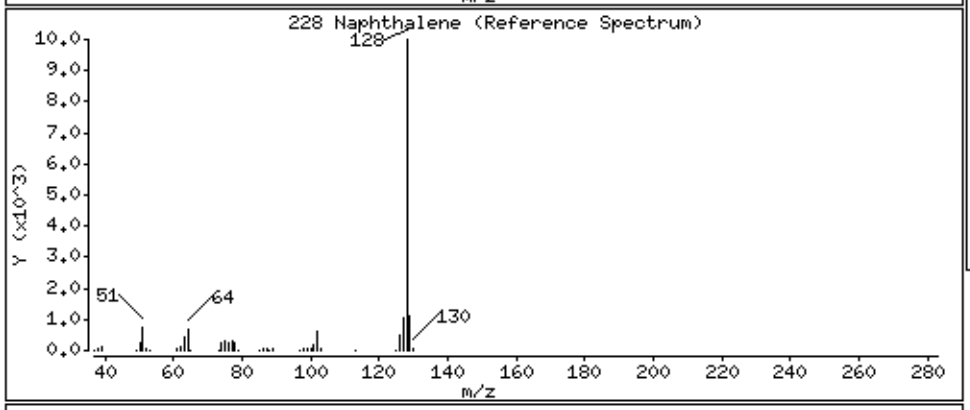
Column diameter: 0.25

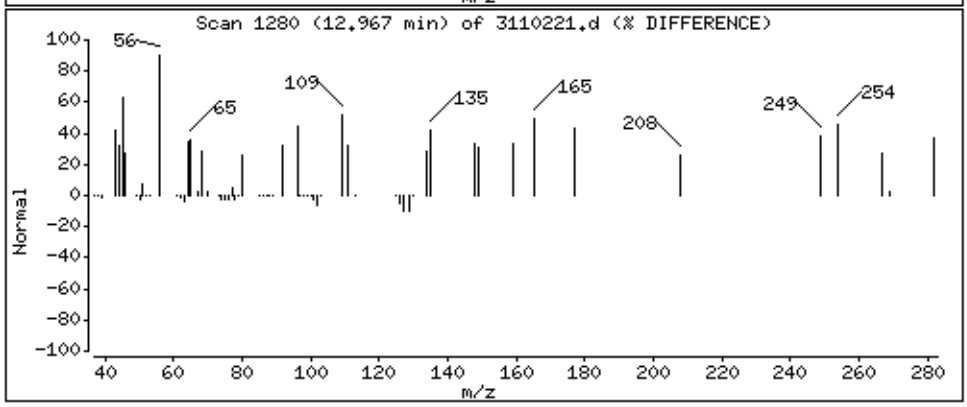
228 Naphthalene

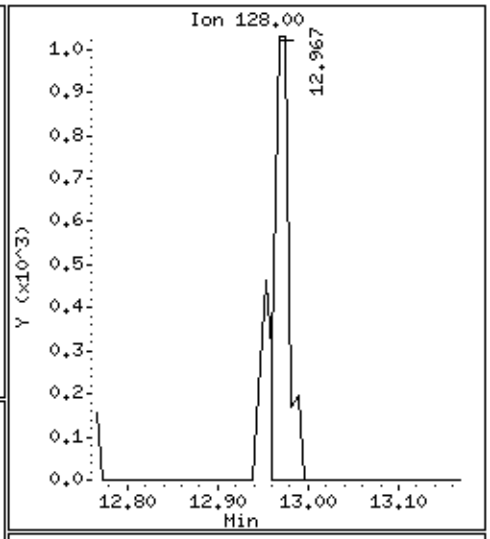
Concentration: 0.06939 PPBV

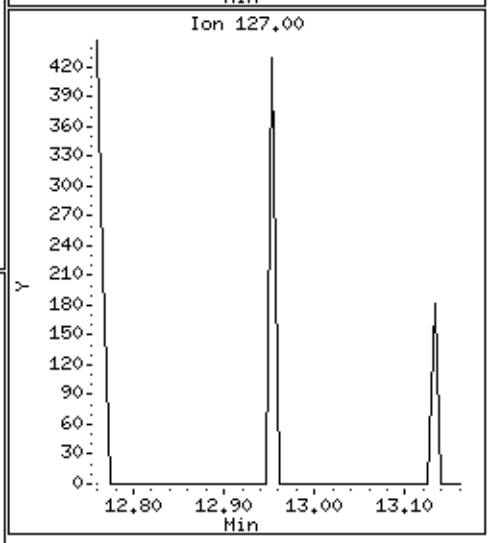












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 1510593-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 12:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	0.82 J	12	2.0 J
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.43 J	6.2	1.3 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	0.15 J	2.0	0.61 J
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1510593-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110206a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 12:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.19 J	2.4	0.95 J
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	0.084 J	15	0.62 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110206a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 02-NOV-2015 12:04
Operator : sab Inst ID: msd3.i
Smp Info : 200ml 403
Misc Info : humid
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 02-Nov-2015 11:50 mskidmor Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	115156	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	87197			42.88- 102.88	75.72
5.592	5.592 (1.000)	49	295100			207.65- 267.65	256.26
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	510708	25.0000		80.00- 120.00	100.00
6.488	6.474 (1.000)	88	86383			0.00- 45.78	16.91
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.941	8.942 (1.000)	117	507607	25.0000		80.00- 120.00	100.00
8.941	8.934 (1.000)	82	294570			26.67- 86.67	58.03
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	251664	25.0151	25.015	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	116645			22.68- 82.68	46.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	551458	25.1533	25.153	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	65233			0.00- 41.75	11.83
7.702	7.702 (1.187)	100	362740			34.13- 94.13	65.78
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.923 (1.111)	174	307517	24.5280	24.528	80.00- 120.00	100.00
9.930	9.923 (1.111)	95	399517			96.73- 156.73	129.92
9.930	9.923 (1.111)	176	288180			65.47- 125.47	93.71
52 Acetone					CAS #: 67-64-1		
3.563	3.549 (0.637)	58	2616	0.82544	0.8254	80.00- 120.00	100.00(aH)
3.577	3.549 (0.640)	43	6494			351.83- 411.83	248.26
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	4961	0.42673	0.4267	80.00- 120.00	100.00(a)
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.631 (1.177)	58	1219	0.14802	0.1480	80.00- 120.00	100.00(a)
7.631	7.631 (1.176)	43	3559			274.73- 334.73	291.78
7.638	7.631 (1.177)	85	400			0.00- 58.76	32.80
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.245	10.231 (1.146)	120	2792	0.19385	0.1938	80.00- 120.00	100.00(a)
10.252	10.231 (1.147)	105	4833			180.29- 240.29	173.12
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.702	12.688 (1.421)	180	1326	0.08353	0.08353	80.00- 120.00	100.00(a)
12.702	12.688 (1.421)	182	595			64.08- 124.08	44.88

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Report Date: 02-Nov-2015 12:48

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110206a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: humid

Calibration Date: 02-NOV-2015
Calibration Time: 08:58
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	115156	4.91
123 1,4-Difluorobenze	462095	277257	646933	510708	10.52
163 Chlorobenzene-d5	458379	275027	641731	507607	10.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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: 02-Nov-2015 12:48

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12mdl.sub
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.015	100.06	70-130
$ 146 Toluene-d8	25.000	25.153	100.61	70-130
$ 177 4-Bromofluorobenze	25.000	24.528	98.11	70-130

Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

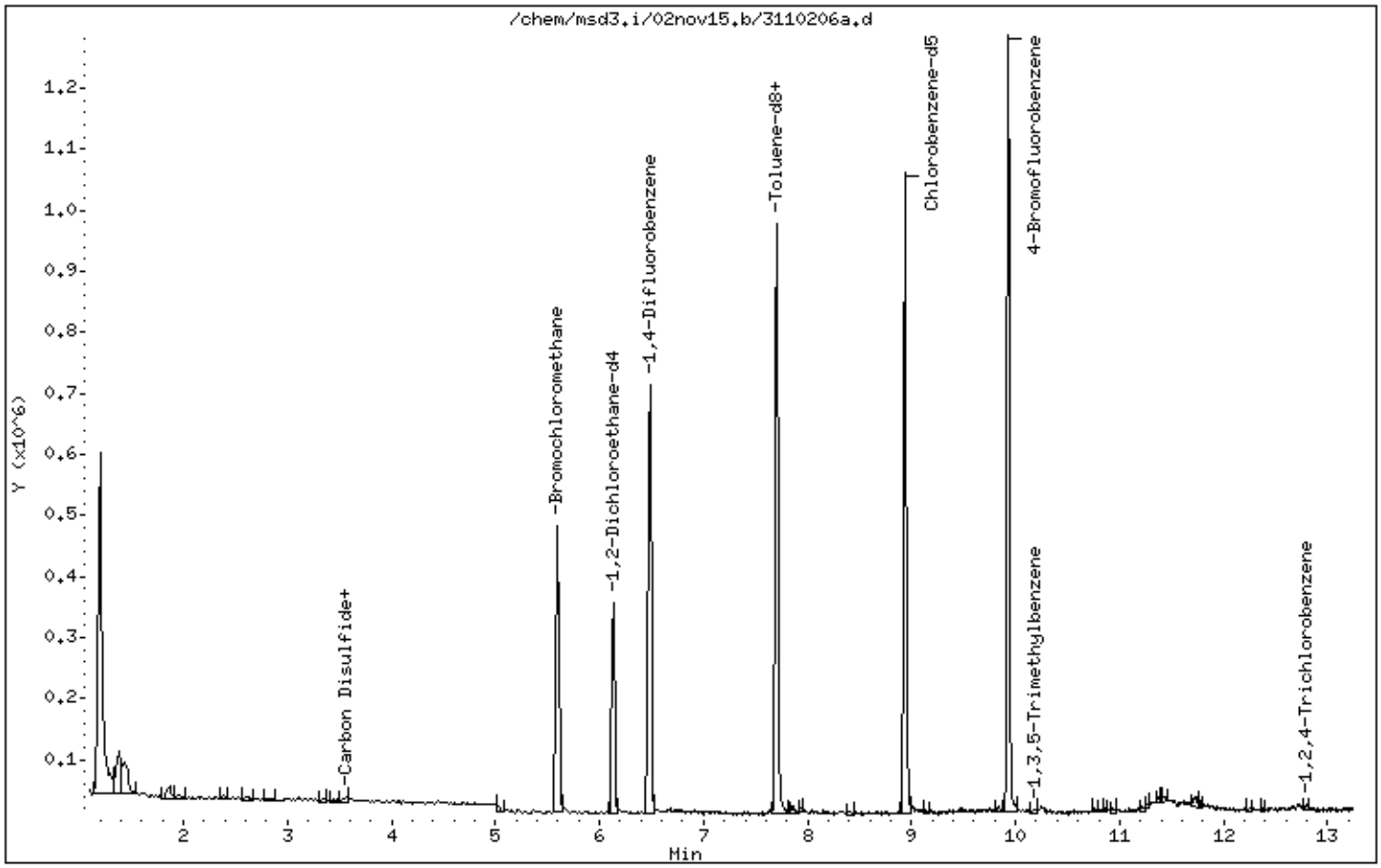
Instrument: msd3.i

Sample Info: 200ml 403

Operator: sab

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200ml 403

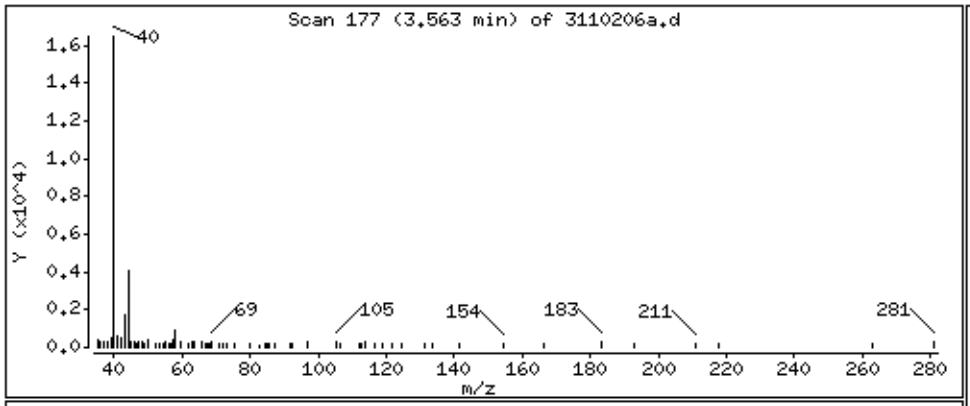
Operator: sab

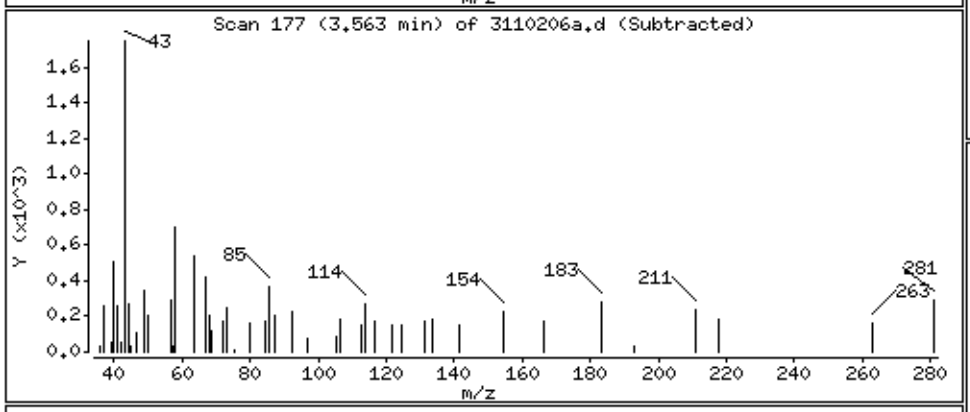
Column phase: RTX-624

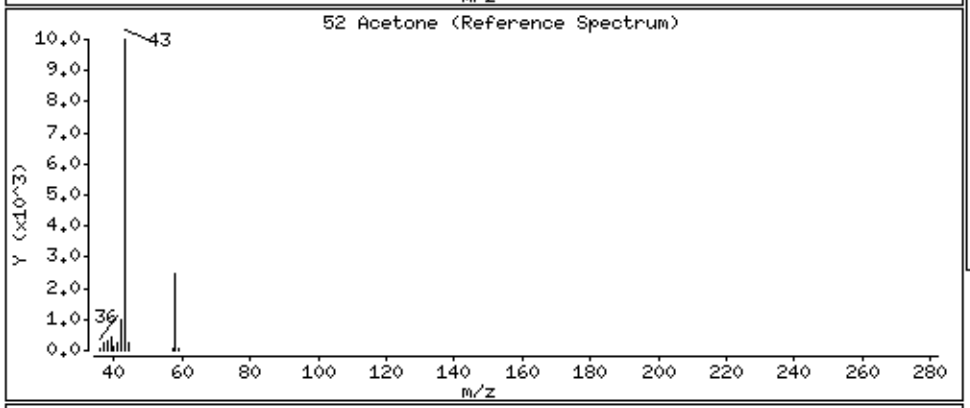
Column diameter: 0.25

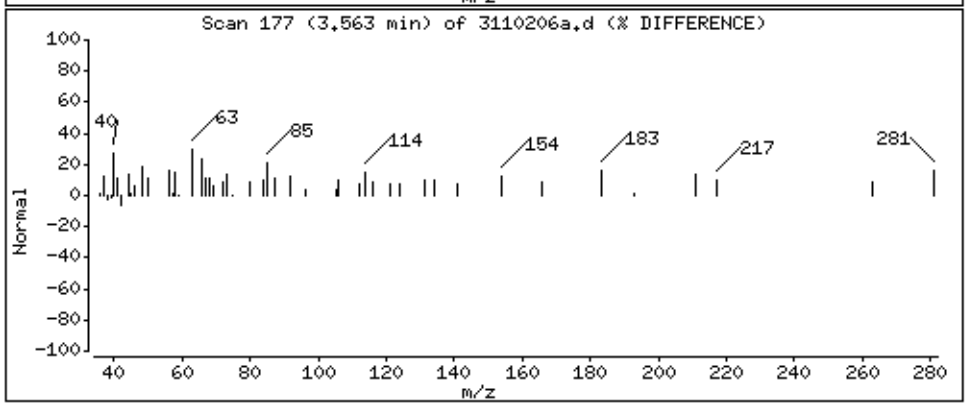
52 Acetone

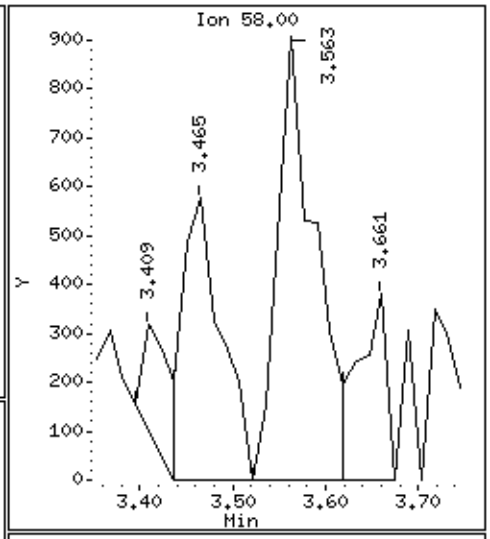
Concentration: 0.8254 PPBV

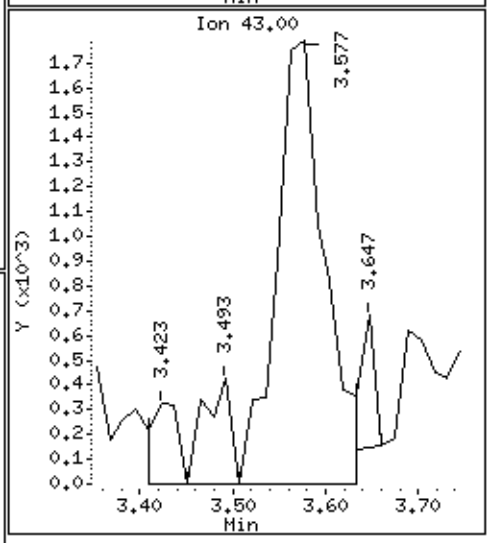












Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200ml 403

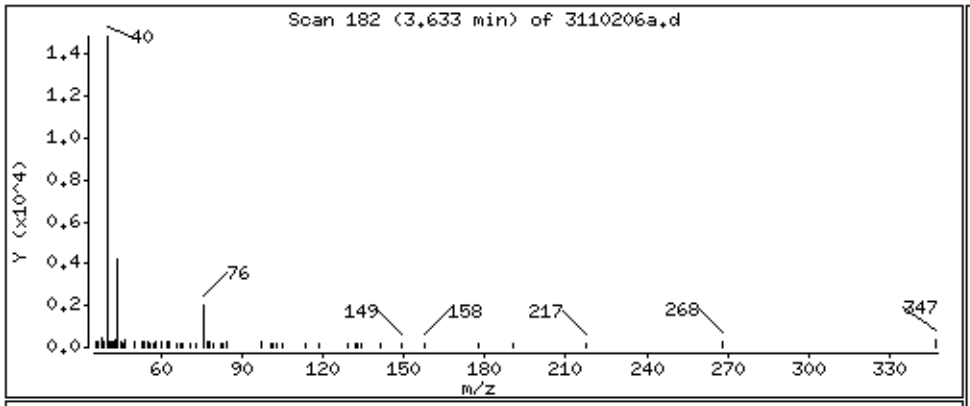
Operator: sab

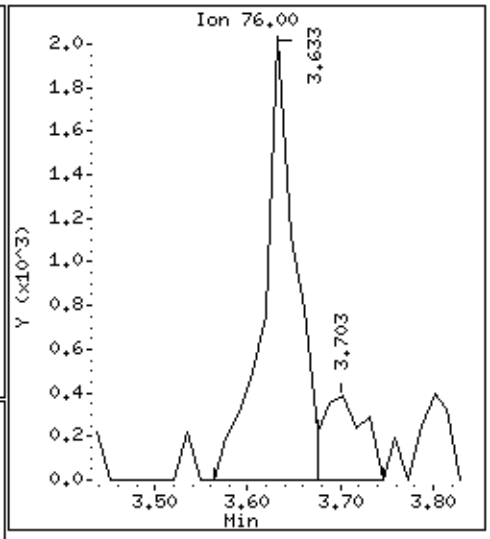
Column phase: RTX-624

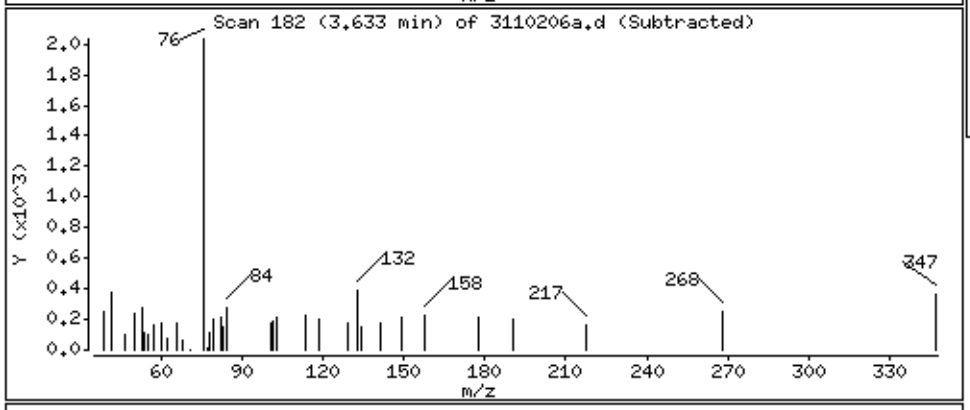
Column diameter: 0.25

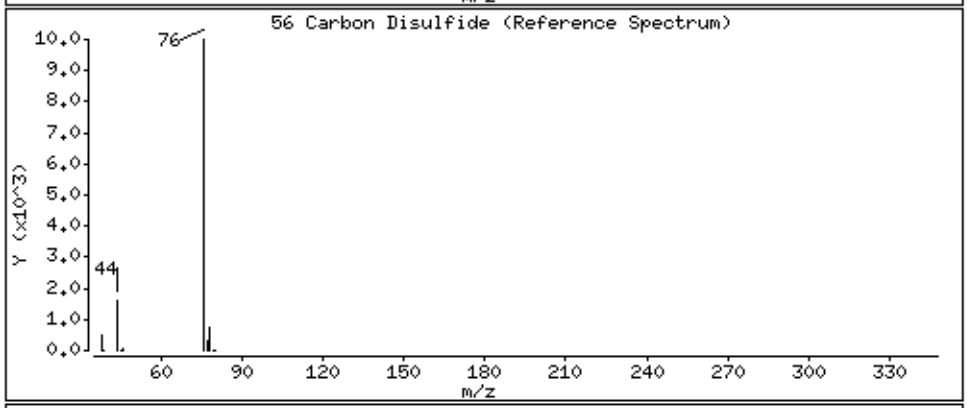
56 Carbon Disulfide

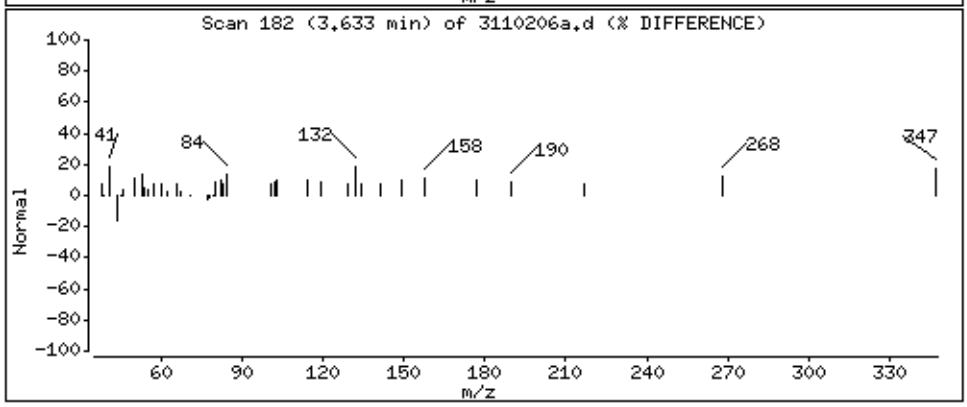
Concentration: 0.4267 PPBV











Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200ml 403

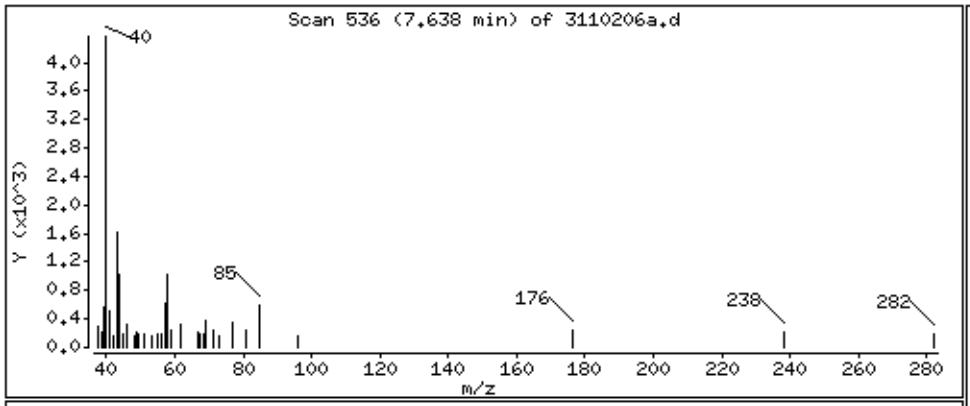
Operator: sab

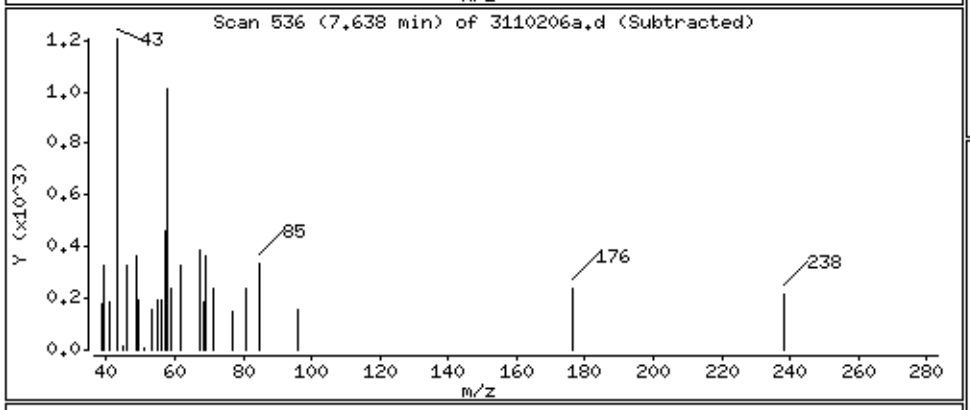
Column phase: RTX-624

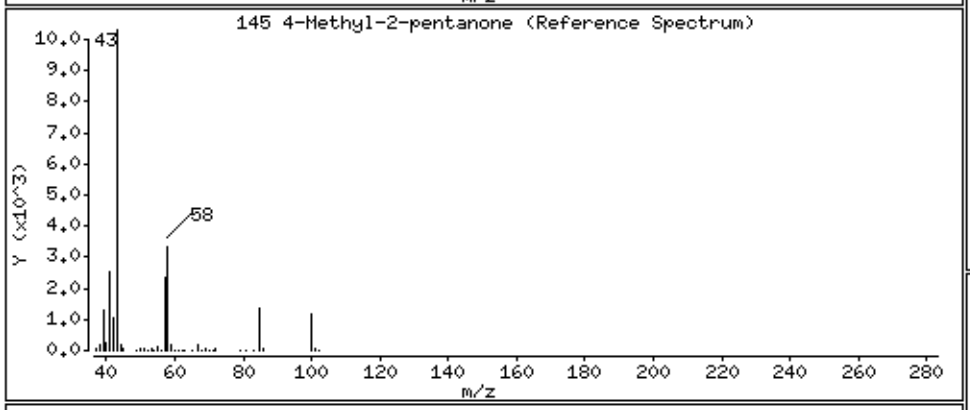
Column diameter: 0.25

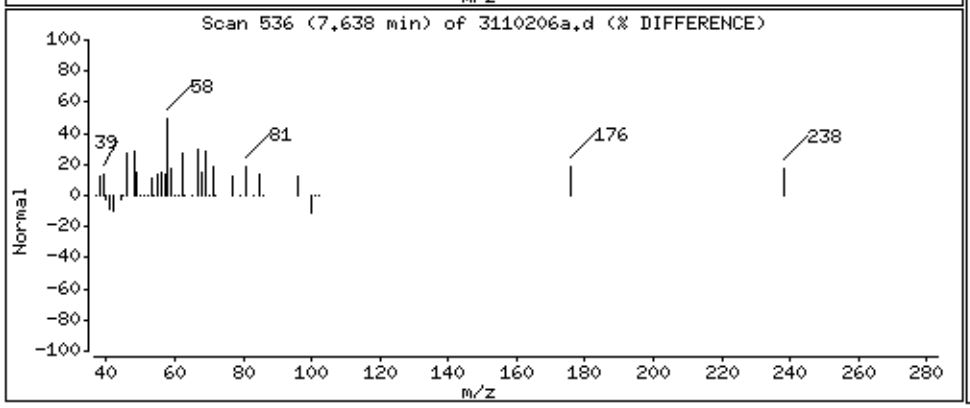
145 4-Methyl-2-pentanone

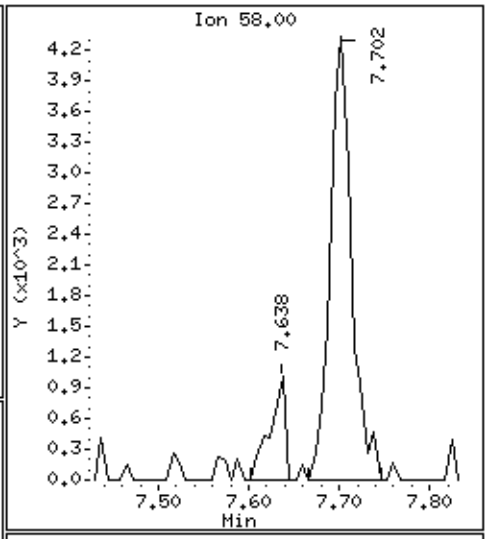
Concentration: 0.1480 PPBV

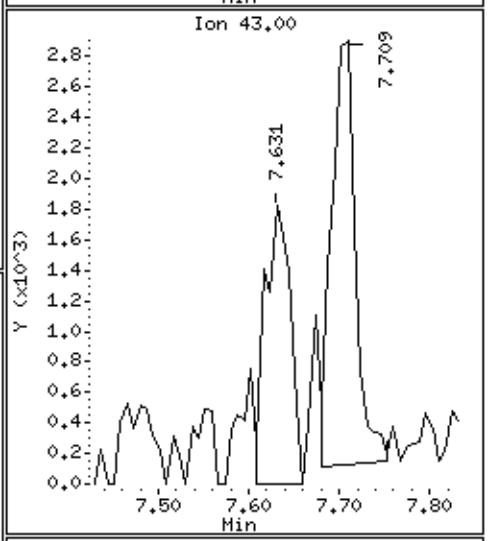


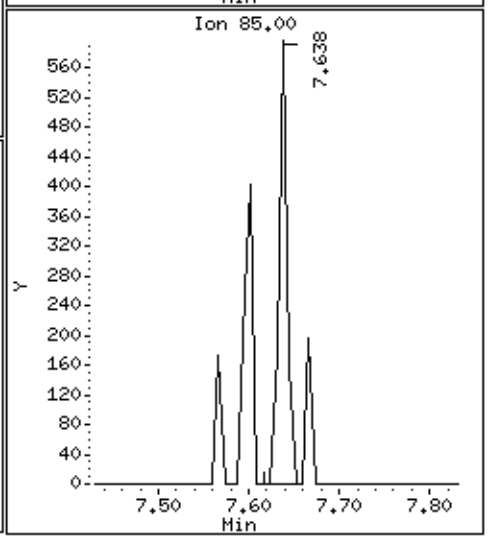












Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200ml 403

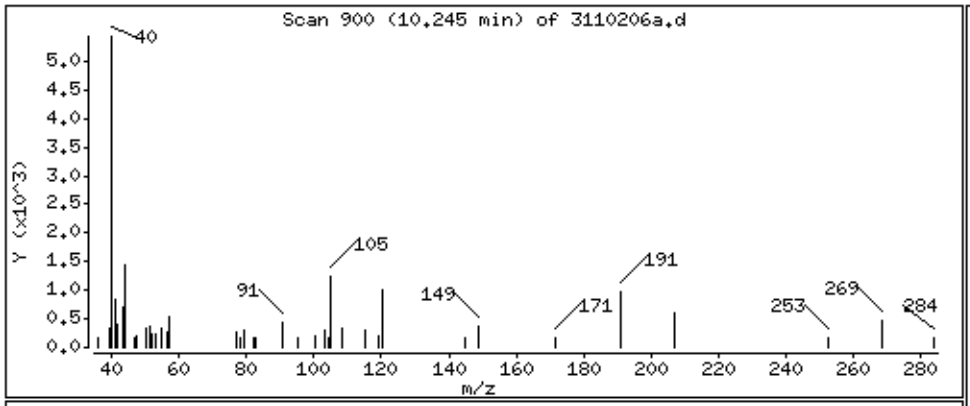
Operator: sab

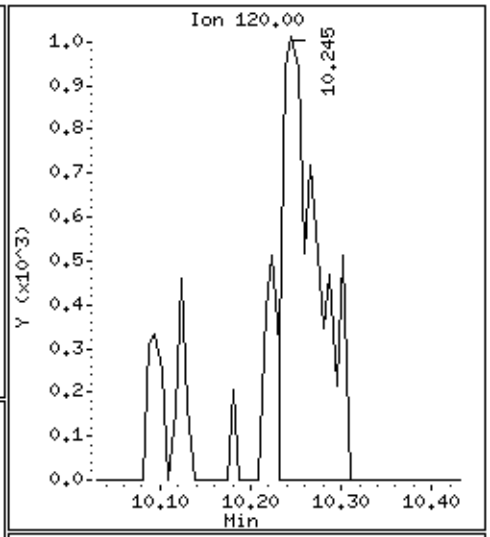
Column phase: RTX-624

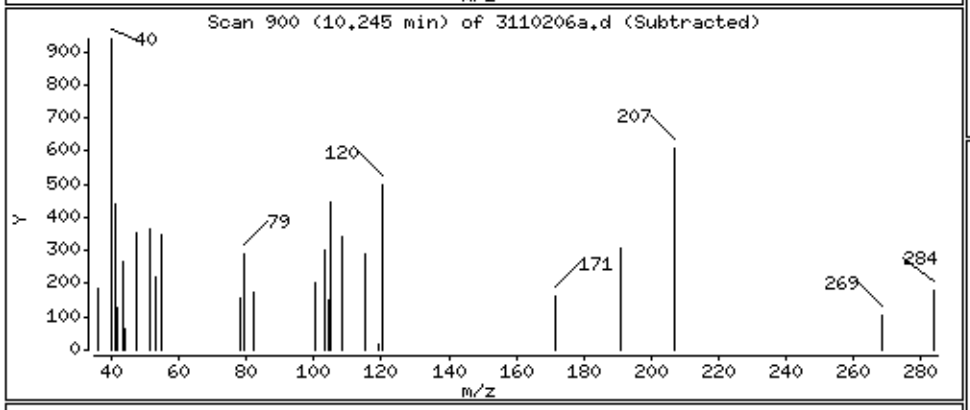
Column diameter: 0.25

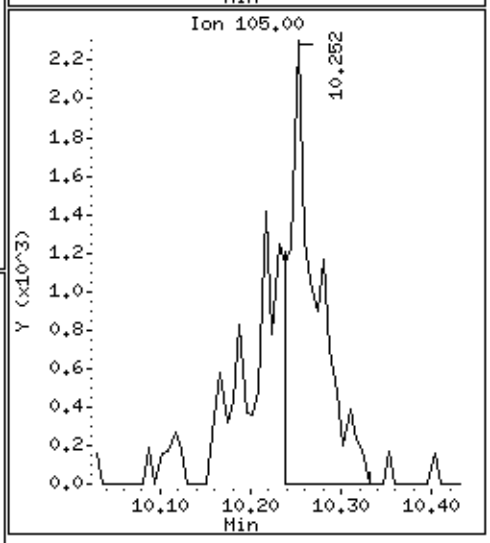
190 1,3,5-Trimethylbenzene

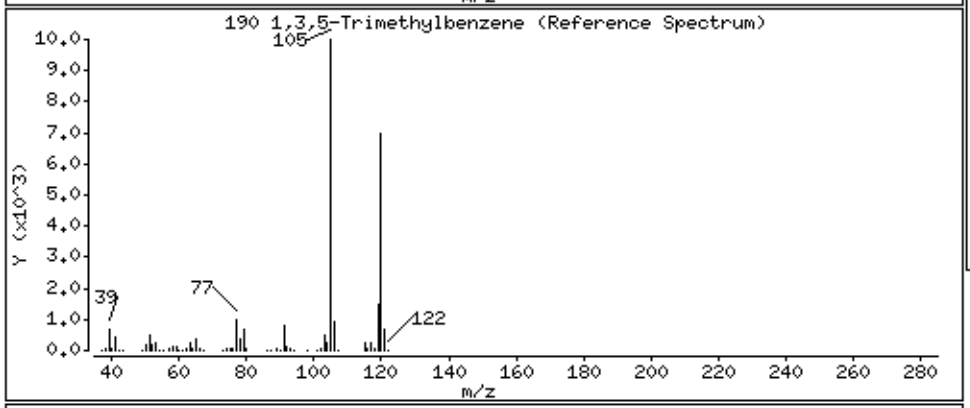
Concentration: 0.1938 PPBV

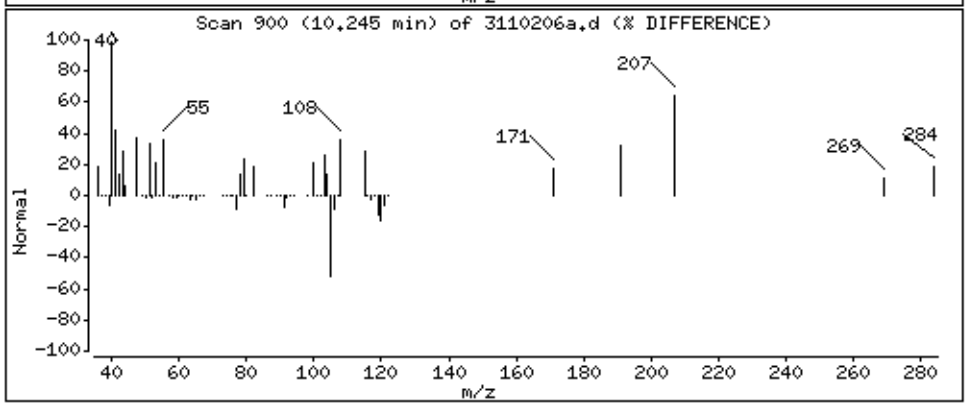












Data File: /chem/msd3.i/02nov15.b/3110206a.d

Date : 02-NOV-2015 12:04

Client ID: Lab Blank

Instrument: msd3.i

Sample Info: 200ml 403

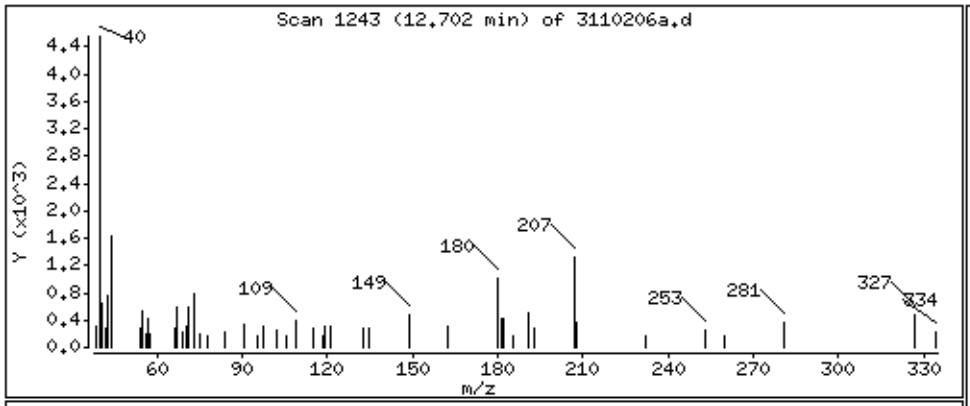
Operator: sab

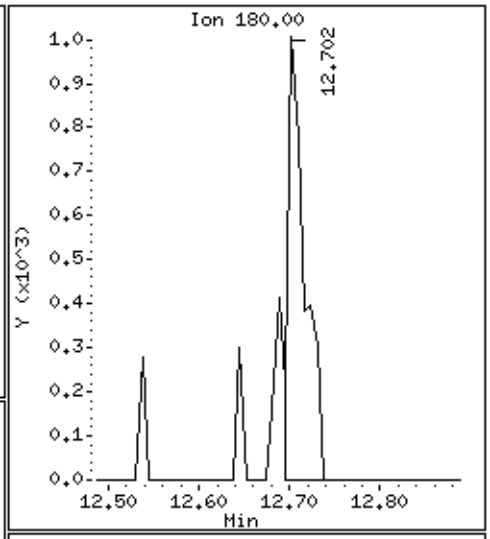
Column phase: RTX-624

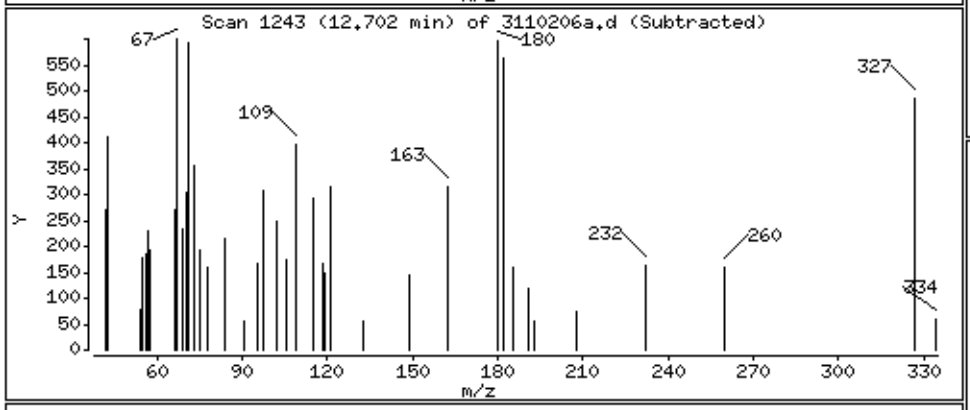
Column diameter: 0.25

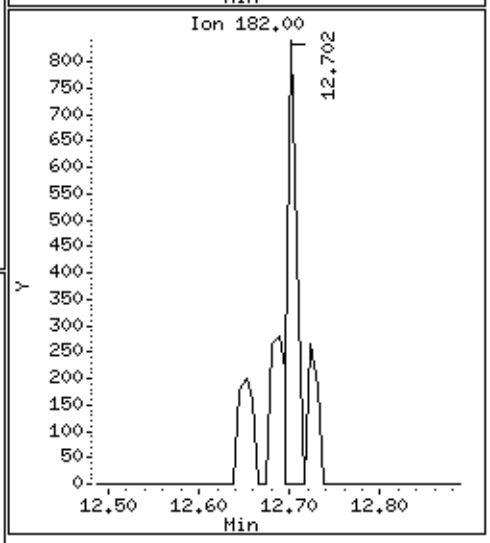
226 1,2,4-Trichlorobenzene

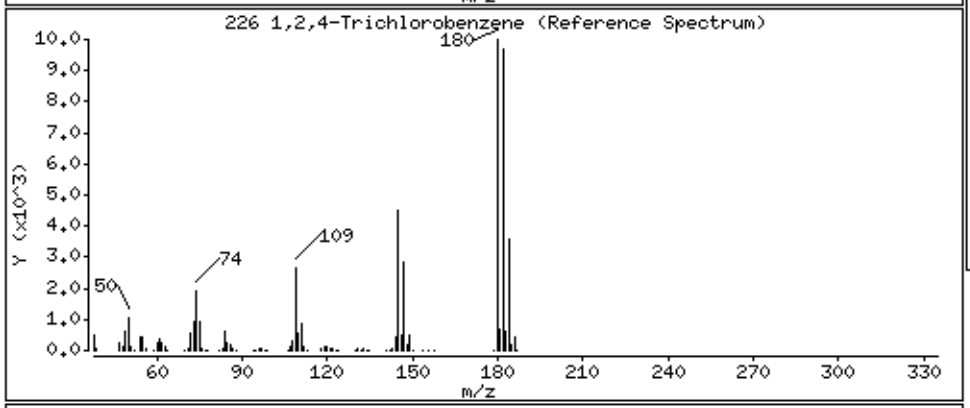
Concentration: 0.08353 PPBV

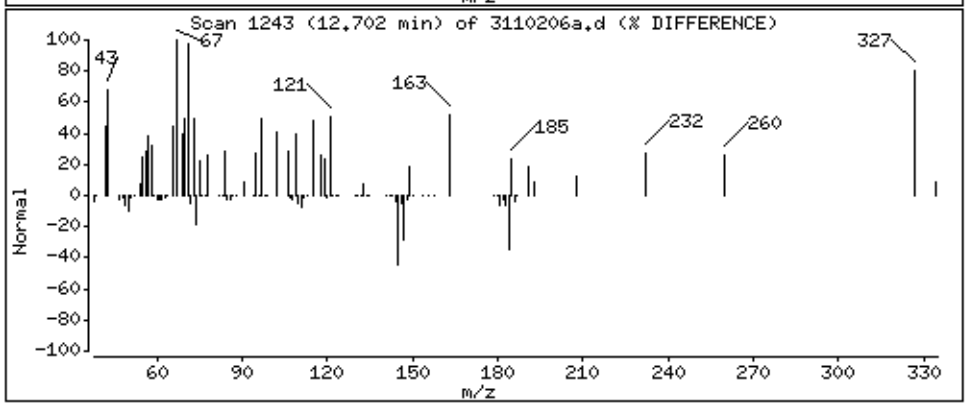












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Client Sample ID: Lab Blank

Lab ID#: 1510593-09B

EPA METHOD TO-15 GC/MS

File Name:	**14110305c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 11:03 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1510593-09B

EPA METHOD TO-15 GC/MS

File Name:	**14110305c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 11:03 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/03nov15.b/14110305c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 03-NOV-2015 11:03
Operator : mjs Inst ID: msd14.i
Smp Info : 50ml #34496
Misc Info : Humid
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/03nov15.b/14550910a.m
Meth Date : 03-Nov-2015 13:39 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15Nmdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	50483	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40317			48.38- 108.38	79.86
4.739	4.739 (1.000)	49	82409			122.49- 182.49	163.24
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	231981	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39226			0.00- 47.28	16.91
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	191663	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	123599			33.96- 93.96	64.49
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	87460	393.284	393.28	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	45091			22.50- 82.50	51.56

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.621	7.621	(1.304)	98	243961	397.220	397.22	80.00- 120.00	100.00
7.621	7.621	(1.304)	70	28922			0.00- 42.36	11.86
7.621	7.621	(1.304)	100	157461			36.13- 96.13	64.54
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
10.951	10.951	(1.115)	174	104855	381.951	381.95	80.00- 120.00	100.00
10.937	10.951	(1.114)	95	153273			113.45- 173.45	146.18
10.951	10.951	(1.115)	176	102207			68.10- 128.10	97.47

Report Date: 04-Nov-2015 07:41

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14110305c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/03nov15.b/14550910a.m
Misc Info: Humid

Calibration Date: 03-NOV-2015
Calibration Time: 08:55
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52541	31525	73557	50483	-3.92
123 1,4-Difluorobenze	234761	140857	328665	231981	-1.18
163 Chlorobenzene-d5	193804	116282	271326	191663	-1.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 04-Nov-2015 07:41

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 03nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: mjs
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15Nmdl.sub
Method File: /chem/msd14.i/03nov15.b/14550910a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	393.28	98.32	70-130
$ 146 Toluene-d8	400.00	397.22	99.30	70-130
$ 177 4-Bromofluorobenze	400.00	381.95	95.49	70-130

Data File: /chem/msd14.i/03nov15.b/14110305c.d

Date : 03-NOV-2015 11:03

Client ID: Lab Blank

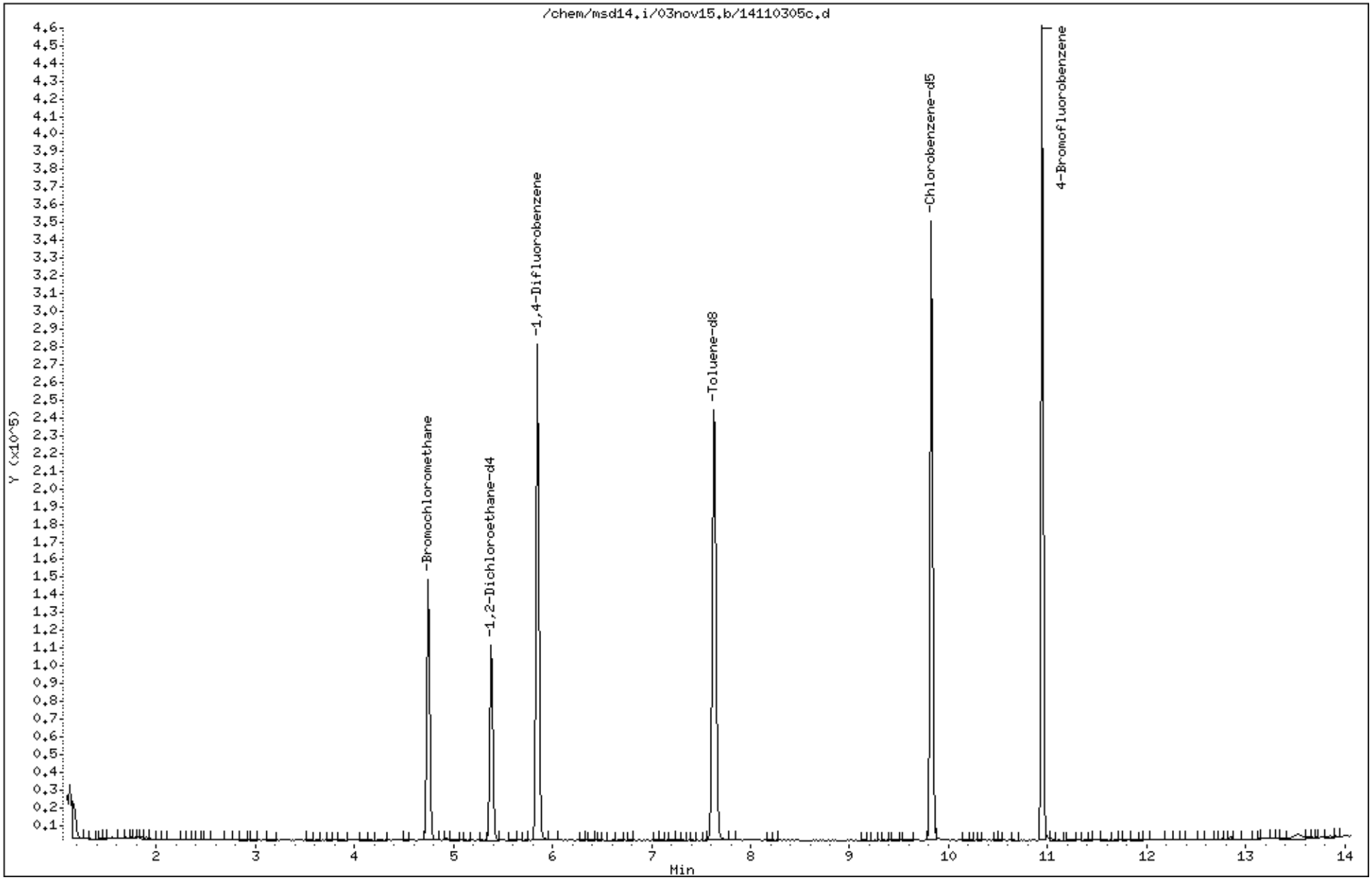
Sample Info: 50ml #34496

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



LEVEL-IV VALIDATABLE

EPA METHOD TO-15 GC/MS

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1510593

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B30SSV-1102715	97		100		98				0
02	B30SSV-2102715	106		100		97				0
03	B30SSV-3102815	124		113		93				0
04	B30SSV-4102715	110		106		96				0
05	B30SSV-4D102715	112		105		96				0
06	B42SSV-1102815	113		110		100				0
07	B42SSV-2102815	106		108		99				0
08	B42SSV-3102815	121		112		94				0
09	Lab Blank	100		101		98				0
10	Lab Blank	98		99		95				0
11	CCV	101		104		100				0
12	CCV	92		102		99				0
13	LCS	108		104		100				0
14	LCSD	104		103		96				0
15	LCS	98		101		102				0
16	LCSD	98		102		101				0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

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

EPA Method TO-15 GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	AIR TOXICS, LTD	SDG No:	1510593
Lab File ID:	3110202.d	Date Analyzed:	11/02/2015
Instrument ID:	msd3.i	Time Analyzed:	08:58 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	458379		8.94		462095		6.49		109768		5.59	
	UPPER LIMIT	641731		09.27		646933		06.82		153675		05.92	
	LOWER LIMIT	275027		08.61		277257		06.16		65861		05.26	
	CLIENT SAMPLE NO												
01	B30SSV-2102715	437072		8.94		445989		6.49		102848		5.59	
02	B30SSV-3102815	464437		8.94		407518		6.49		93665		5.59	
03	B30SSV-4102715	503947		8.93		460418		6.47		114078		5.59	
04	B30SSV-4D102715	471189		8.94		466744		6.49		103110		5.59	
05	B42SSV-1102815	466298		8.94		426368		6.49		106758		5.59	
06	B42SSV-2102815	464907		8.93		450800		6.47		114370		5.59	
07	B42SSV-3102815	475254		8.94		410317		6.49		97736		5.59	
08	Lab Blank	507607		8.94		510708		6.49		115156		5.59	
09	CCV	458379		8.94		462095		6.49		109768		5.59	
10	LCS	467878		8.94		464102		6.49		107384		5.59	
11	LCSD	486534		8.94		483802		6.49		108677		5.59	
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

EPA Method TO-15 GC/MS

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	AIR TOXICS, LTD	SDG No:	1510593
Lab File ID:	14110302.d	Date Analyzed:	11/03/2015
Instrument ID:	msd14.i	Time Analyzed:	08:55 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	193804		9.82		234761		5.84		52541		4.74	
	UPPER LIMIT	271326		10.15		328665		06.17		73557		05.07	
	LOWER LIMIT	116282		09.49		140857		05.51		31525		04.41	
	CLIENT SAMPLE NO												
01	B30SSV-1102715	184666		9.82		223738		5.84		48845		4.74	
02	Lab Blank	191663		9.82		231981		5.84		50483		4.74	
03	CCV	193804		9.82		234761		5.84		52541		4.74	
04	LCS	193945		9.82		235671		5.84		51247		4.74	
05	LCSD	193459		9.82		232862		5.84		50497		4.74	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'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

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 3110204.d & 3110203.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 11/2/15 & 11/2/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	114		114		0	
79-34-5	1,1,2,2-Tetrachloroethane	112		112		0	
79-00-5	1,1,2-Trichloroethane	107		106		0.94	
75-34-3	1,1-Dichloroethane	116		116		0	
75-35-4	1,1-Dichloroethene	109		111		1.8	
120-82-1	1,2,4-Trichlorobenzene	109		116		6.2	
95-63-6	1,2,4-Trimethylbenzene	106		105		0.95	
106-93-4	1,2-Dibromoethane (EDB)	112		108		3.6	
95-50-1	1,2-Dichlorobenzene	110		110		0	
107-06-2	1,2-Dichloroethane	120		117		2.5	
78-87-5	1,2-Dichloropropane	114		114		0	
108-67-8	1,3,5-Trimethylbenzene	102		101		0.98	
106-99-0	1,3-Butadiene	108		113		4.5	
541-73-1	1,3-Dichlorobenzene	108		106		1.9	
106-46-7	1,4-Dichlorobenzene	104		103		0.97	
123-91-1	1,4-Dioxane	110		110		0	
540-84-1	2,2,4-Trimethylpentane	119		120		0.84	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	111		117		5.3	
591-78-6	2-Hexanone	109		105		3.7	
67-63-0	2-Propanol	125		124		0.80	
107-05-1	3-Chloropropene	102		106		3.8	
622-96-8	4-Ethyltoluene	108		106		1.9	
108-10-1	4-Methyl-2-pentanone	108		104		3.8	
67-64-1	Acetone	109		112		2.7	
100-44-7	alpha-Chlorotoluene	112		111		0.90	
71-43-2	Benzene	111		111		0	
75-27-4	Bromodichloromethane	120		115		4.2	
75-25-2	Bromoform	109		107		1.8	
74-83-9	Bromomethane	107		105		1.9	
75-15-0	Carbon Disulfide	94		97		3.1	
56-23-5	Carbon Tetrachloride	113		113		0	
108-90-7	Chlorobenzene	107		104		2.8	
75-00-3	Chloroethane	110		113		2.7	
67-66-3	Chloroform	116		117		0.86	
74-87-3	Chloromethane	122		124		1.6	
156-59-2	cis-1,2-Dichloroethene	118		116		1.7	
10061-01-5	cis-1,3-Dichloropropene	108		103		4.7	
98-82-8	Cumene	110		107		2.8	
110-82-7	Cyclohexane	110		112		1.8	
124-48-1	Dibromochloromethane	112		110		1.8	
64-17-5	Ethanol	124		124		0	
100-41-4	Ethyl Benzene	109		107		1.8	
75-69-4	Freon 11	114		116		1.7	
76-13-1	Freon 113	101		100		1.0	
76-14-2	Freon 114	111		112		0.90	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 3110204.d & 3110203.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 11/2/15 & 11/2/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	119		121		1.7	
142-82-5	Heptane	108		107		0.93	
87-68-3	Hexachlorobutadiene	107		115		7.2	
110-54-3	Hexane	113		115		1.8	
108-38-3	m,p-Xylene	110		106		3.7	
1634-04-4	Methyl tert-butyl ether	108		111		2.7	
75-09-2	Methylene Chloride	118		117		0.85	
91-20-3	Naphthalene	96		100		4.1	
95-47-6	o-Xylene	107		106		0.94	
103-65-1	Propylbenzene	111		110		0.90	
100-42-5	Styrene	106		103		2.9	
127-18-4	Tetrachloroethene	108		104		3.8	
109-99-9	Tetrahydrofuran	128		124		3.2	
108-88-3	Toluene	112		110		1.8	
156-60-5	trans-1,2-Dichloroethene	94		96		2.1	
10061-02-6	trans-1,3-Dichloropropene	116		113		2.6	
79-01-6	Trichloroethene	113		112		0.89	
75-01-4	Vinyl Chloride	111		114		2.7	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 14110304.d & 14110303.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 11/3/15 & 11/3/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	84		84		0	
79-34-5	1,1,2,2-Tetrachloroethane	99		101		2.0	
79-00-5	1,1,2-Trichloroethane	92		91		1.1	
75-34-3	1,1-Dichloroethane	94		93		1.1	
75-35-4	1,1-Dichloroethene	91		92		1.1	
120-82-1	1,2,4-Trichlorobenzene	82		90		9.3	Y
95-63-6	1,2,4-Trimethylbenzene	85		86		1.2	
106-93-4	1,2-Dibromoethane (EDB)	89		90		1.1	
95-50-1	1,2-Dichlorobenzene	91		91		0	
107-06-2	1,2-Dichloroethane	85		85		0	
78-87-5	1,2-Dichloropropane	93		92		1.1	
108-67-8	1,3,5-Trimethylbenzene	92		90		2.2	
106-99-0	1,3-Butadiene	92		91		1.1	
541-73-1	1,3-Dichlorobenzene	92		90		2.2	
106-46-7	1,4-Dichlorobenzene	90		93		3.3	
123-91-1	1,4-Dioxane	85		87		2.3	Y
540-84-1	2,2,4-Trimethylpentane	92		93		1.1	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	86		93		7.8	Y
591-78-6	2-Hexanone	88		87		1.1	Y
67-63-0	2-Propanol	85		84		1.2	Y
107-05-1	3-Chloropropene	80		78		2.5	Y
622-96-8	4-Ethyltoluene	87		89		2.3	
108-10-1	4-Methyl-2-pentanone	76		77		1.3	
67-64-1	Acetone	96		92		4.2	Y
100-44-7	alpha-Chlorotoluene	82		85		3.6	
71-43-2	Benzene	88		90		2.2	
75-27-4	Bromodichloromethane	85		85		0	
75-25-2	Bromoform	90		86		4.5	
74-83-9	Bromomethane	83		82		1.2	
75-15-0	Carbon Disulfide	80		83		3.7	
56-23-5	Carbon Tetrachloride	82		84		2.4	
108-90-7	Chlorobenzene	92		89		3.3	
75-00-3	Chloroethane	96		102		6.1	Y
67-66-3	Chloroform	90		90		0	
74-87-3	Chloromethane	96		99		3.1	Y
156-59-2	cis-1,2-Dichloroethene	96		95		1.0	
10061-01-5	cis-1,3-Dichloropropene	80		80		0	
98-82-8	Cumene	88		87		1.1	
110-82-7	Cyclohexane	88		86		2.3	
124-48-1	Dibromochloromethane	87		87		0	
64-17-5	Ethanol	81		81		0	Y
100-41-4	Ethyl Benzene	86		84		2.4	
75-69-4	Freon 11	91		89		2.2	
76-13-1	Freon 113	88		89		1.1	
76-14-2	Freon 114	95		90		5.4	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 14110304.d & 14110303.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 11/3/15 & 11/3/15

		Original		Duplicate			Result Less Than
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD	5X RL
75-71-8	Freon 12	93		93		0	
142-82-5	Heptane	84		86		2.4	
87-68-3	Hexachlorobutadiene	90		93		3.3	Y
110-54-3	Hexane	88		88		0	
108-38-3	m,p-Xylene	87		86		1.2	
1634-04-4	Methyl tert-butyl ether	65		69		6.0	
75-09-2	Methylene Chloride	89		90		1.1	
91-20-3	Naphthalene	50		58		15	Y
95-47-6	o-Xylene	87		90		3.4	
103-65-1	Propylbenzene	92		90		2.2	
100-42-5	Styrene	79		84		6.1	
127-18-4	Tetrachloroethene	91		91		0	
109-99-9	Tetrahydrofuran	77		76		1.3	
108-88-3	Toluene	85		87		2.3	
156-60-5	trans-1,2-Dichloroethene	77		80		3.8	
10061-02-6	trans-1,3-Dichloropropene	80		80		0	
79-01-6	Trichloroethene	87		90		3.4	
75-01-4	Vinyl Chloride	101		102		0.98	

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd14.i/10sep15.b/14091002.d
Level 2: /chem/msd14.i/10sep15.b/14091003.d
Level 3: /chem/msd14.i/10sep15.b/14091017.d
Level 4: /chem/msd14.i/10sep15.b/14091005.d
Level 5: /chem/msd14.i/10sep15.b/14091018.d
Level 6: /chem/msd14.i/10sep15.b/14091019.d
Level 7: /chem/msd14.i/10sep15.b/14091008.d
Level 8: /chem/msd14.i/10sep15.b/14091012.d
Level 9: /chem/msd14.i/10sep15.b/14091013.d

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
1 Dimethyl Ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++ / +++++	+++++ / +++++	1.80715 / +++++	+++++	2.12908	2.02436	1.98687	8.265
7 Freon 134a	+++++ / +++++	+++++ / +++++	1.55819 / +++++	+++++	1.51728	1.43263	1.50270	4.261

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
8 Propane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++ / 1.28034	+++++ / 1.41054	1.03111 / 1.27625	1.06242	1.24597	1.18170	1.21262	10.929
10 1,1-Difluoroethane	+++++ / +++++	+++++ / +++++	0.70697 / +++++	+++++	0.83763	0.77584	0.77348	8.450
11 Freon 12	+++++ / 4.68364	5.57319 / 5.13991	3.97367 / 4.63593	4.04292	4.68449	4.36638	4.63752	11.526
12 Vinyl Fluoride	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++ / +++++	+++++ / +++++	0.33274 / +++++	+++++	0.41067	0.39340	0.37894	10.801
14 Ethylene Oxide	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++ / 2.97266	3.48499 / 3.27500	2.59874 / 2.94629	2.52560	2.93249	2.75081	2.93582	11.032
16 Freon 142b	+++++ / +++++	+++++ / +++++	3.22545 / +++++	+++++	3.52442	3.38653	3.37880	4.429
17 Chloromethane	+++++ / 1.49159	+++++ / 1.60291	1.51063 / 1.51420	1.56031	1.67726	1.53422	1.55587	4.178

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
23 Butane	+++++	+++++	0.40524	0.37665	0.43470	0.39199		
	0.41295	0.45934	0.42562				0.41521	6.644
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
25 Vinyl Chloride	+++++	2.11605	1.49665	1.57400	1.81118	1.67683		
	1.80871	1.98525	1.80674				1.78443	11.422
26 1,3-Butadiene	+++++	1.81133	1.28006	1.16224	1.35539	1.30614		
	1.40636	1.55289	1.44372				1.41477	13.997
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
29 Bromomethane	+++++	1.48959	0.98992	1.01601	1.28308	1.21724		
	1.27709	1.56835	+++++				1.26304	17.190
30 Chloroethane	+++++	+++++	0.75053	0.80403	0.93852	0.86853		
	0.94323	1.10446	0.99046				0.91425	12.977
31 Isopentane	+++++	+++++	1.83202	1.80546	2.07865	1.94067		
	2.10390	2.29464	2.14836				2.02910	8.757
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
35 Freon 11	+++++	5.06429	3.95234	4.07445	4.66711	4.44071		
	4.75730	5.28727	4.85079				4.63678	9.951
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	3.23256	+++++	3.65300	3.56711		
	+++++	+++++	+++++				3.48422	6.375

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
38 2,3-Dimethylbutane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++ / 0.74859	+++++ / 0.72860	0.82224 / 0.68610	0.75851	0.90309	0.78325	0.77577	9.073
43 1,2-Dichloro-1-fluoroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
48 Freon 123	+++++	+++++	3.37799	+++++	3.74662	3.60511		
	+++++	+++++	+++++				3.57657	5.200
49 Freon 113	+++++	3.11375	2.36339	2.29487	2.75683	2.69242		
	2.81637	2.77888	2.55026				2.67085	9.879
50 1,1-Dichloroethene	+++++	3.83457	2.95801	2.87027	3.35831	3.19314		
	3.34811	3.49416	3.23966				3.28703	9.231
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
52 Acetone	+++++	+++++	0.83952	0.84182	0.98473	0.91446		
	0.96370	1.04713	0.97730				0.93838	8.232
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
56 Carbon Disulfide	+++++	5.88410	4.48224	4.40365	5.32147	4.95759		
	5.37735	5.53394	5.22182				5.14777	9.885
57 2-Propanol	+++++	+++++	2.49430	2.56591	3.08576	2.89399		
	3.44864	3.73555	3.50053				3.10352	15.456

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
58 3-Chloropropene	+++++	+++++	0.66191	0.64352	0.82630	0.80671		
	0.88326	0.92068	0.86270				0.80073	13.462
59 Cyclopentene	+++++	+++++	2.18613	+++++	2.39628	2.36148		
	+++++	+++++	+++++				2.31463	4.866
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
66 Methylene Chloride	+++++	2.74406	2.25601	2.02116	2.32729	2.17180		
	2.34244	2.45338	2.28893				2.32563	9.111
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
71 tert-Butyl alcohol	+++++	+++++	1.65735	1.72484	2.33534	2.35331		
	+++++	+++++	+++++				2.01771	18.745
72 Methyl tert-butyl ether	+++++	3.59017	2.66419	3.12434	3.95956	4.19106		
	5.08436	5.75803	5.46112				4.22911	26.420
73 trans-1,2-Dichloroethene	+++++	2.24134	1.62462	1.60494	1.84176	1.77812		
	1.93041	1.86005	1.71162				1.82411	11.150
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
78 Hexane	+++++ / 3.26580	4.15012 / 3.56017	2.69986 / 3.29261	2.78562	3.17355	3.03928	3.24588	14.151
79 Methylcyclopentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++ / 3.71338	3.91500 / 3.94361	3.08781 / 3.66751	3.00281	3.63329	3.38171	3.54314	9.987
83 Isopropyl ether	+++++ / +++++	+++++ / +++++	5.57145 / +++++	5.43781	6.49051	6.24432	5.93602	8.610
84 1-Propanol	+++++ / +++++	+++++ / +++++	0.26951 / +++++	+++++	0.30123	0.31882	0.29652	8.428
85 Chloroprene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
87 Butanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

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88 Ethyl-tert-butyl ether	+++++ / +++++	+++++ / +++++	3.46804 / +++++	3.76102	4.86932	5.10239	4.30019	18.751	
89 Isobutyl chloride	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++ / +++++	+++++ / +++++	0.50504 / +++++	+++++	1.20972	1.29733	1.00403	43.261	<-
91 cis-1,2-Dichloroethene	+++++ / 2.94474	3.00702 / 3.42795	2.25895 / 3.19860	2.39811	2.80016	2.72898	2.84556	13.673	
92 2-Butanone	+++++ / 1.02884	+++++ / 1.08513	0.59756 / 1.01316	0.67640	0.91902	0.89082	0.88727	20.805	
93 Methyl Acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	

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99 Tetrahydrofuran	+++++	3.47416	1.97286	1.93399	2.18905	2.07776		
	2.29635	2.48418	2.29850				2.34086	21.064
100 Chloroform	+++++	4.51053	3.62506	3.58936	4.20494	3.92711		
	4.22872	4.50081	4.20020				4.09834	8.666
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
102 Cyclohexane	+++++	3.42157	2.44613	2.30945	2.77383	2.64253		
	2.83004	3.06170	2.81827				2.78794	12.471
103 1,1,1-Trichloroethane	+++++	4.56157	3.21689	3.54220	4.20805	3.98542		
	4.37197	4.70388	4.34393				4.11674	12.402
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
106 Carbon Tetrachloride	+++++	3.55769	2.89843	2.93721	3.83512	3.62384		
	4.11426	4.43959	4.06872				3.68436	14.941
107 1,1-Dichloropropene	+++++	+++++	0.58961	+++++	0.67092	0.66902		
	+++++	+++++	+++++				0.64318	7.215
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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109 2-Methylhexane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
111 Cyclohexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	+++++ / 10.54766	11.56867 / 11.45154	8.70339 / 10.57312	8.73694	10.25552	9.69450	10.19142	10.709
114 1-Methoxy-2-propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++ / +++++	+++++ / +++++	0.36410 / +++++	+++++	0.34142	0.34182	0.34911	3.718
116 Benzene	1.63718 / 1.33236	1.43870 / 1.38118	1.09008 / 1.26879	1.09169	1.28539	1.23351	1.30654	13.069
118 1-Heptene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++ / +++++	+++++ / +++++	3.09333 / +++++	3.44506	4.33037	4.58483	3.86340	18.343
120 1,2-Dichloroethane	+++++ / 0.68275	0.75046 / 0.72155	0.54843 / 0.67019	0.53936	0.65964	0.61339	0.64822	11.757

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121 Heptane	+++++	0.52468	0.43680	0.40797	0.47332	0.45168		
	0.49815	0.51845	0.47235				0.47293	8.519
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
124 n-Butanol	+++++	+++++	0.46886	+++++	0.54832	0.56875		
	+++++	+++++	+++++				0.52864	9.982
125 Trichloroethene	+++++	0.76611	0.58504	0.54964	0.63195	0.58041		
	0.61509	0.63599	0.58602				0.61878	10.694
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
127 Methylcyclohexane	+++++	0.95483	0.73148	0.68930	0.78794	0.78269		
	0.84212	0.87962	0.81301				0.81012	10.309
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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132 1,2-Dichloropropane	+++++	0.58691	0.42286	0.43691	0.50594	0.48154		
	0.53096	0.55405	0.50881				0.50350	11.063
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
136 1,4-Dioxane	+++++	+++++	0.22594	0.24048	0.29139	0.27115		
	0.32603	0.32856	0.30531				0.28412	14.144
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
138 Bromodichloromethane	+++++	1.19591	0.83250	0.85231	0.99745	0.95782		
	1.06171	1.13259	1.05140				1.01021	12.590
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
140 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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142 Epichlorohydrin	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropene	+++++ / 0.87446	0.67872 / 0.82361	0.56791 / 0.76866	0.60200	0.75915	0.75674	0.72890	14.479	
145 4-Methyl-2-pentanone	+++++ / 0.19294	0.19960 / 0.19677	0.12541 / 0.18418	0.14050	0.16492	0.15291	0.16965	16.517	
147 Toluene	+++++ / 1.63308	1.87803 / 1.69481	1.30967 / 1.56826	1.36021	1.58080	1.50041	1.56566	11.604	
148 Octane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloropropene	+++++ / 0.88759	0.43517 / 0.97150	0.40232 / 0.94049	0.51718	0.68309	0.70990	0.69341	32.657	<-
151 Ethyl Methacrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	

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153 1-Nitropropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++ / 0.67058	0.69451 / 0.67844	0.55222 / 0.64995	0.52666	0.62678	0.60631	0.62568	9.685
156 Tetrachloroethene	+++++ / 0.83375	0.88159 / 0.81820	0.69788 / 0.77461	0.67846	0.81114	0.76002	0.78196	8.792
157 1,3-Dichloropropane	+++++ / +++++	+++++ / +++++	2.73661 / +++++	+++++	3.15828	2.97624	2.95704	7.152
158 2-Hexanone	+++++ / 0.79148	+++++ / 0.77040	0.42803 / 0.75263	0.45994	0.56621	0.56770	0.61948	24.456
159 Butyl Acetate	+++++ / +++++	+++++ / +++++	0.13651 / +++++	+++++	0.15977	0.15891	0.15173	8.689
160 Dibromochloromethane	+++++ / 1.17120	1.11403 / 1.15154	0.90313 / 1.11126	0.88632	1.08455	1.05421	1.05953	10.196
161 1,2-Dibromoethane (EDB)	+++++ / 1.01106	0.90046 / 1.00970	0.77795 / 0.95889	0.78385	0.95755	0.90285	0.91279	9.993
162 1-Nonene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

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164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
165 Chlorobenzene	+++++	1.52752	1.27571	1.18387	1.44281	1.37269		
	1.48366	1.46550	1.39020				1.39274	8.230
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
167 Ethyl Benzene	+++++	0.90728	0.64874	0.61359	0.72756	0.70927		
	0.75269	0.75192	0.72110				0.72902	11.945
168 1,1,1,2-Tetrachloroethane	+++++	+++++	0.61458	+++++	0.64726	0.60263		
	+++++	+++++	+++++				0.62149	3.717
169 m,p-Xylene	+++++	1.03374	0.80247	0.69926	0.90644	0.87259		
	0.94560	0.92419	0.88355				0.88348	11.257
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
171 o-Xylene	+++++	0.89724	0.75569	0.69968	0.83687	0.80368		
	0.88751	0.89940	0.86070				0.83010	8.739
172 Styrene	+++++	1.39544	1.16304	1.10261	1.35777	1.27362		
	1.52499	1.41176	1.35750				1.32334	10.413
173 2-Heptanone	+++++	+++++	0.72821	+++++	0.94050	0.90780		
	+++++	+++++	+++++				0.85884	13.309

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174 Bromoform	+++++	1.00523	0.79794	0.82931	0.98303	0.95238		
	1.07100	1.04210	1.01719				0.96227	10.263
175 Cumene	+++++	2.87439	2.23901	2.21674	2.70014	2.58817		
	2.77422	2.71296	2.58517				2.58635	9.295
176 Cyclohexanone	+++++	+++++	0.59776	+++++	0.61868	0.59136		
	+++++	+++++	+++++				0.60260	2.371
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
180 Bromobenzene	+++++	+++++	0.63045	+++++	0.64360	0.62391		
	+++++	+++++	+++++				0.63265	1.586
181 1,1,2,2-Tetrachloroethane	+++++	1.12968	0.96626	1.01495	1.28659	1.29463		
	1.44313	1.46552	+++++				1.22868	16.077
182 Propylbenzene	+++++	3.71945	2.76286	2.67572	3.27271	3.20114		
	3.46376	3.41727	3.30893				3.22773	10.882
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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185 1,2,3-Trichloropropane	+++++	+++++	0.32773	+++++	0.39688	0.38168		
	+++++	+++++	+++++				0.36876	9.853
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
188 4-Ethyltoluene	+++++	2.87439	2.13166	2.11430	2.61598	2.48483		
	2.73226	2.57869	2.59996				2.51651	10.686
189 2-Chlorotoluene	+++++	+++++	0.49108	+++++	0.52146	0.50880		
	+++++	+++++	+++++				0.50711	3.009
190 1,3,5-Trimethylbenzene	+++++	2.56206	1.91174	1.84384	2.27443	2.08996		
	2.31230	1.95291	+++++				2.13532	12.138
191 4-Chlorotoluene	+++++	+++++	0.51412	+++++	0.53256	0.51507		
	+++++	+++++	+++++				0.52058	1.994
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
195 tert-Butylbenzene	+++++	+++++	1.61666	+++++	1.74513	1.64095		
	+++++	+++++	+++++				1.66758	4.093
196 1,2,4-Trimethylbenzene	+++++	2.27543	1.71850	1.68689	2.06778	2.04618		
	2.23566	1.98067	+++++				2.00159	11.461
197 Pentachloroethane	+++++	+++++	0.41190	+++++	0.50688	0.50445		
	+++++	+++++	+++++				0.47441	11.414
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
203 sec-Butylbenzene	+++++	+++++	2.50428	+++++	2.79339	2.66849		
	+++++	+++++	+++++				2.65539	5.461
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD	
205 2-Ethyltoluene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
206 bis(2-Chloroethyl) Ether	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++ / +++++	+++++ / +++++	1.92001 / +++++	+++++	2.19890	2.12566	2.08152	6.946	
208 1,3-Dichlorobenzene	+++++ / 1.37414	1.46931 / +++++	1.08553 / +++++	1.08696	1.33439	1.30437	1.27578	12.305	
209 1,4-Dichlorobenzene	+++++ / 1.38062	1.51668 / +++++	1.10355 / +++++	1.04043	1.28086	1.30432	1.27108	13.842	
210 1,2,3-Trimethylbenzene	+++++ / +++++	+++++ / +++++	0.79484 / +++++	+++++	0.86979	0.83873	0.83445	4.513	
211 1-Undecene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	+++++ / 2.03219	0.98596 / +++++	0.86344 / +++++	1.04603	1.45787	1.60965	1.33252	33.633	<-
213 Butylbenzene	+++++ / +++++	+++++ / +++++	0.46742 / +++++	+++++	0.53442	0.52706	0.50963	7.210	
214 1,2-Dichlorobenzene	+++++ / 1.25276	1.42154 / +++++	0.94016 / +++++	0.98096	1.20978	1.20643	1.16861	15.383	

Eurofins Air Toxics Inc.

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
215 Undecane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropropane	+++++ +++++	+++++ +++++	0.42248 +++++	+++++	0.48943	0.54371	0.48521	12.515
222 1-Dodecene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
225 Dodecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++ / 0.70817	+++++ / +++++	0.38065 / +++++	0.60968	0.57892	0.76993	0.60947	24.444
227 Hexachlorobutadiene	+++++ / 0.60342	+++++ / +++++	0.32580 / +++++	0.55033	0.53625	0.65674	0.53451	23.573
228 Naphthalene	+++++ / +++++	+++++ / 1.32752	+++++ / 1.68265	1.43711	1.15031	1.59100	1.43772	14.682
229 1,2,3-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
230 Tridecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
235 Phenanthrene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (Total)	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasoline	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
245 TPH reference MineralSpirits	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stoddard	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Toluene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Toluene-d8	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Toluene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
254 C3 - C4 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	___ RRF	% RSD
255 C4 - C5 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref C5 + C6	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref Heptane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref Decane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
265 C10-C12 Aliphatic ref Dodecan	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
$ 117 1,2-Dichloroethane-d4	1.75544 / 1.77984	1.70230 / 1.85545	1.69192 / 1.90145	1.76740	1.73434	1.67031	1.76205	4.314
$ 146 Toluene-d8	1.05275 / 1.05386	1.06494 / 1.06691	1.04865 / 1.05863	1.05336	1.06626	1.06565	1.05900	0.667
$ 177 4-Bromofluorobenzene	0.56670 / 0.58020	0.57355 / 0.57489	0.57074 / 0.57250	0.55785	0.57987	0.58010	0.57293	1.276

Eurofins Air Toxics Inc.

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Cal Date : 10-Sep-2015 21:42 ghehir
Curve Type : Average

```
|Average %RSD Results.                          |
|===============================================|
|Calculated Average %RSD = 11.4459877           |
|Maximun Average %RSD    =         30           |
|* Passed Average %RSD Test.                    |
|_______________________________________________|
```

Calibration History

Method : /chem/msd14.i/10sep15.b/14550910a.m
Start Cal Date: 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 3.00000		
10-SEP-2015 09:13	Benzene	/chem/msd14.i/10sep15.b/14091002.d
Cal Level: 2 , Cal Amount: 5.00000		
10-SEP-2015 09:38	Level2	/chem/msd14.i/10sep15.b/14091003.d
Cal Level: 3 , Cal Amount: 20.00000		
10-SEP-2015 19:04	AT1curve	/chem/msd14.i/10sep15.b/14091017.d
10-SEP-2015 10:05	AT12low	/chem/msd14.i/10sep15.b/14091004.d
Cal Level: 4 , Cal Amount: 50.00000		
10-SEP-2015 10:55	AT12mdl	/chem/msd14.i/10sep15.b/14091005.d
Cal Level: 5 , Cal Amount: 100.00000		
10-SEP-2015 19:26	AT1curve	/chem/msd14.i/10sep15.b/14091018.d
10-SEP-2015 11:21	AT12	/chem/msd14.i/10sep15.b/14091006.d
Cal Level: 6 , Cal Amount: 200.00000		
10-SEP-2015 20:31	AT1curve	/chem/msd14.i/10sep15.b/14091019.d
10-SEP-2015 11:46	AT12	/chem/msd14.i/10sep15.b/14091007.d
Cal Level: 7 , Cal Amount: 1000.00000		
10-SEP-2015 12:32	AT12NoOxyNaph	/chem/msd14.i/10sep15.b/14091008.d

Cal Level: 8 , Cal Amount: 2500.00000		
10-SEP-2015 15:37	NaphICAL	/chem/msd14.i/10sep15.b/14091012.d
10-SEP-2015 13:37	AT12NoOxyNaph	/chem/msd14.i/10sep15.b/14091009.d

Cal Level: 9 , Cal Amount: 5000.00000		
10-SEP-2015 16:18	NaphICAL	/chem/msd14.i/10sep15.b/14091013.d
10-SEP-2015 15:02	AT12NoOxyNaph	/chem/msd14.i/10sep15.b/14091011.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 200.00		
10-SEP-2015 11:46	AT12	/chem/msd14.i/10sep15.b/14091007a.d

Ccal Level: 5 , Ccal Amount: 100.00		
10-SEP-2015 19:26	AT1curve	/chem/msd14.i/10sep15.b/14091018a.d

Ccal Level: 6 , Ccal Amount: 200.00		
10-SEP-2015 20:31	AT1curve	/chem/msd14.i/10sep15.b/14091019.d

Ccal Level: 5 , Ccal Amount: 100.00		
10-SEP-2015 19:26	AT1curve	/chem/msd14.i/10sep15.b/14091018.d

Ccal Level: 6 , Ccal Amount: 200.00		
10-SEP-2015 11:46	AT12	/chem/msd14.i/10sep15.b/14091007.d

14550910A.M
Initial Calibration Narrative

A calibration curve was performed 09/03/15

ICAL: **2 out Alpha-Chlorotoluene @ 33% and Trans-1,3 Dichloropropene@32.657%**

No Vinyl Acetate.

ICV: **3 out: Alpha Chlorotoluene @68%, Hexachlorobutadiene@131%, and 1,2,4 Trichlorobenzene @133%** (File: #14091016)

For AFCEE 3.1, AFCEE 4.0, and DOD evaluate per project.

1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, alpha-Chlorotoluene, 1,2,4-Trichlorobenzene, and Hexachlorobutadiene were calibrated to 1000ppbv.

Bromomethane, 1,1,2,2-Trichloroethane, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene were calibrated to 2500ppbv

Naphthalene calibrated at 2, 5, 10, 20, 250, and 500ppbv.

Benzene was calibrated with a special R.L. of 3.0ppbv.

Oxygenates were calibrated at 20, 50, 100 and 200ppbv.

BFB Tune File: #14091001

AT1 Calibration was analyzed at levels: 20ppbv, 100ppbv and 200ppbv.
1 out: 2,2 Dichloropropane@43%

MDL: 5/26/15 and 5/27/15; Naphthalene MDL analyzed 6/4/15. **No MDL** for **Vinyl Acetate.**

Eurofins Air Toxics Inc.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:44 ghehir
Curve Type : Average

GH 9/10/15

Calibration File Names:
Level 1: /chem/msd14.i/10sep15.b/14091002.d
Level 2: /chem/msd14.i/10sep15.b/14091003.d
Level 3: /chem/msd14.i/10sep15.b/14091017.d
Level 4: /chem/msd14.i/10sep15.b/14091005.d
Level 5: /chem/msd14.i/10sep15.b/14091018.d
Level 6: /chem/msd14.i/10sep15.b/14091019.d
Level 7: /chem/msd14.i/10sep15.b/14091008.d
Level 8: /chem/msd14.i/10sep15.b/14091012.d
Level 9: /chem/msd14.i/10sep15.b/14091013.d

Compound	3.000 Level 1	5.000 Level 2	20.000 Level 3	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
	1000.000 Level 7	2500.000 Level 8	5000.000 Level 9					
1 Dimethyl Ether	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
2 Freon 14	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
3 Acetaldehyde	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
4 Hexafluoropropene	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
5 Freon 13	*****	*****	*****	*****	*****	*****		
	*****	*****	*****				*****	*****
6 Freon 143a	*****	*****	1.80715	*****	2.12908	2.02436		
	*****	*****	*****				1.98687	8.265
7 Freon 134a	*****	*****	1.55819	*****	1.51728	1.43263		
	*****	*****	*****				1.50270	4.261

Eurofins Air Toxics, Inc. **MSD-14** **Logbook #2728**

BFB Verification of 176/174 m/z Ratio:	(75200/77146)*100 = 97.48%
Tekmar Purge Flow:	NA
Vacuum:	3.89 X10-6

IS/S Std. #: 2736-149	Exp. Date: 10/30/15
BCM	52956
1,4-DFB	240311
CB-d5	202929

Verified CCV IS vs ICAL mid-point (-40%D): GH

File ID:	14091007
Compound:	toldé
Initials:	GH

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = (256685) x (400.00) = GH
(240311) (1.05978)

SOP# (Circle one): 6 / 83 / 38 / (91) / 109 Method (Circle one): TO-14A/TO-15/TO-17 Reported Result: 402.21

Method Name: 145509104.m

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	14091001	BFB Tune check	2249-1265	50ng	2.0µL	1.00	MB	9/10/15	0834	MB	
2	✓	02	ICAL Level #1	2736-221	3.0ppbv	30mL	1.00	MB		0913	MB	Exp. 9/19/15
3	✓	03	#2		5.0ppbv	50mL	1.00	MB		0938	MB	
4	✓	04	#3	2736-173	20ppbv	5.0mL	1.00	MB		1005	MB	Exp. 9/19/15
5	✓	05	#4		50ppbv	12.5mL	1.00	MB		1055	MB	10mL
6	✓	06	#5		100ppbv	25mL	1.00	MB		1121	MB	25mL
7	✓	07	#6		200ppbv	50mL	1.00	MB		1146	MB	
8	✓	08	#7	2736-215	1000ppbv	50mL	1.00	MB		1232	MB	Exp. 12/3/15
9	✓	09	#8	2736-216	2500ppbv	25mL	1.00	MB		1337	MB	Exp. 11/20/15
10	✓	10	System Blank	36041	Humid	50mL	1.00	MB		1415	GH	
11	✓	11	ICAL Level #9	2736-216	5000ppbv	50mL	1.00	GH		1502	GH	Exp 11/20/15
12	✓	12	#8	2736-216	250ppbv	25mL	1.00	GH		1537	GH	Exp. 9/19/15
13	✓	13	#9		500ppbv	50mL	1.00	GH		1618	GH	
14	X	14	System blank	36041	humid	50mL	1.00	GH		1647	GH	

Reviewed 9/10/15 Date

	Use	File	Lab ID#	Can#	Pressure	Amt. Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
15	✓	M091015	System blank	36041	humid	5mL	1.00	GH	9-10-15	1725	GH	
16	✓	16	ICV (200ppbv)	2736-182	200ppbv	50mL	1.00	GH		1835	GH	30A Exp. 9/12/15
17	✓	17	I Cal Level #3	2736-197	20ppbv	5.0mL	1.00	GH		1904	GH	Exp. 11/21/15
18	✓	18	#5		100ppbv	25mL	1.00	GH		1926	GH	
19	✓	19	#6		200ppbv	50mL	1.00	GH		2031	GH	
20		20	Test Std.	2736-225	500ppbv	25mL	1.00	GH				
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36								GH 9/10/15				

Reviewed

9/10/15
Date

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091016.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 10-SEP-2015 18:35
Operator : gh Inst ID: msd14.i
Smp Info : 50mL #2736-182
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 16:18 Cal File: 14091013.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	49045	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	37921			48.38- 108.38	77.32
4.739	4.739 (1.000)	49	77745			122.49- 182.49	158.52
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	222919	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	38467			0.00- 47.28	17.26
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	187932	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	120778			33.96- 93.96	64.27
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	85633	396.359	396.36	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	44276			22.50- 82.50	51.70

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.635	7.635	(1.306)	98	239724	406.188	406.19	80.00- 120.00	100.00
7.635	7.635	(1.306)	70	28328			0.00- 42.36	11.82
7.635	7.635	(1.306)	100	159172			36.13- 96.13	66.40
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
10.951	10.951	(1.115)	174	106335	395.032	395.03	80.00- 120.00	100.00
10.937	10.937	(1.114)	95	155619			113.45- 173.45	146.35
10.951	10.951	(1.115)	176	103511			68.10- 128.10	97.34
9 Propylene						CAS #: 115-07-1		
1.241	1.241	(0.262)	41	33357	224.351	224.35	80.00- 120.00	100.00
1.241	1.241	(0.262)	42	21624			35.71- 95.71	64.83
1.241	1.241	(0.262)	39	24297			44.83- 104.83	72.84
11 Freon 12						CAS #: 75-71-8		
1.269	1.269	(0.268)	85	125646	220.968	220.97	80.00- 120.00	100.00
1.269	1.269	(0.268)	87	41022			1.94- 61.94	32.65
15 Freon 114						CAS #: 76-14-2		
1.353	1.353	(0.285)	135	82479	229.129	229.13	80.00- 120.00	100.00
1.353	1.353	(0.285)	137	25469			2.09- 62.09	30.88
17 Chloromethane						CAS #: 74-87-3		
1.423	1.423	(0.300)	50	42843	224.580	224.58	80.00- 120.00	100.00
1.423	1.423	(0.300)	52	13915			1.48- 61.48	32.48
23 Butane						CAS #: 106-97-8		
1.478	1.479	(0.312)	58	11263	221.233	221.23	80.00- 120.00	100.00
1.478	1.479	(0.312)	43	71315			577.93- 637.93	633.18
25 Vinyl Chloride						CAS #: 75-01-4		
1.506	1.507	(0.318)	62	49772	227.484	227.48	80.00- 120.00	100.00
1.506	1.507	(0.318)	64	15791			1.45- 61.45	31.73
26 1,3-Butadiene						CAS #: 106-99-0		
1.520	1.521	(0.321)	54	36801	212.148	212.15	80.00- 120.00	100.00
1.520	1.521	(0.321)	39	37453			71.31- 131.31	101.77
29 Bromomethane						CAS #: 74-83-9		
1.814	1.814	(0.383)	94	34238	221.084	221.08	80.00- 120.00	100.00
1.814	1.814	(0.383)	96	32639			64.67- 124.67	95.33
1.814	1.814	(0.383)	79	6751			0.00- 47.98	19.72
30 Chloroethane						CAS #: 75-00-3		
1.898	1.898	(0.401)	64	26314	234.739	234.74	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	8201			1.09- 61.09	31.17
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	55643	223.652	223.65	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	41234			42.08- 102.08	74.10
1.912	1.912 (0.404)	72	5125			0.00- 38.91	9.21
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	130786	230.043	230.04	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	85590			34.26- 94.26	65.44
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	20823	218.915	218.92	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	4427			0.00- 52.18	21.26
2.360	2.360 (0.498)	46	8759			11.33- 71.33	42.06
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	73527	224.524	224.52	80.00- 120.00	100.00
2.584	2.598 (0.545)	153	47254			33.38- 93.38	64.27
2.584	2.584 (0.545)	101	103834			106.88- 166.88	141.22
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	90457	224.442	224.44	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	49407			24.64- 84.64	54.62
2.612	2.612 (0.551)	98	31268			4.54- 64.54	34.57
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	26173	227.479	227.48	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	83994			297.27- 357.27	320.92
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	127121	201.402	201.40	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	97371	255.882	255.88	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	19112			0.00- 50.08	19.63
2.878	2.878 (0.607)	59	3910			0.00- 33.79	4.02
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	21559	219.589	219.59	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	56496			228.46- 288.46	262.05
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	62050	217.603	217.60	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	46351			42.33- 102.33	74.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	19873			1.58- 61.58	32.03
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.283	3.269 (0.693)	59	19130	77.3253	77.325	80.00- 120.00	100.00
3.283	3.269 (0.693)	41	4084			0.00- 49.77	21.35
3.283	3.269 (0.693)	57	2336			0.00- 40.69	12.21
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	115383	222.515	222.51	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	27775			0.00- 54.23	24.07
3.353	3.353 (0.708)	41	25271			0.00- 52.85	21.90
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	44216	197.694	197.69	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	67579			124.68- 184.68	152.84
3.381	3.381 (0.714)	98	27497			31.63- 91.63	62.19
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	87375	219.543	219.54	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	52876			29.53- 89.53	60.52
3.577	3.577 (0.755)	86	15815			0.00- 47.08	18.10
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	97821	225.169	225.17	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	30452			1.34- 61.34	31.13
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	15815			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	52583			321.46- 381.46	332.49
3.577	3.577 (0.755)	42	27020			153.71- 213.71	170.85
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	84098	241.036	241.04	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	59909			40.63- 100.63	71.24
4.487	4.487 (0.947)	98	38658			13.70- 73.70	45.97
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	25555	234.900	234.90	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	103251			377.26- 437.26	404.03
4.515	4.515 (0.953)	57	8981			5.15- 65.15	35.14
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	61072	212.781	212.78	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	23525			10.11- 70.11	38.52
4.725	4.725 (0.997)	72	25378			11.95- 71.95	41.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	109948	218.799	218.80	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	70298			32.70- 92.70	63.94
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.921 (1.038)	84	75981	222.273	222.27	80.00- 120.00	100.00
4.920	4.921 (1.038)	56	92391			89.66- 149.66	121.60
4.920	4.921 (1.038)	41	50492			35.66- 95.66	66.45
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.949 (1.044)	97	111971	221.829	221.83	80.00- 120.00	100.00
4.948	4.949 (1.044)	99	71773			33.85- 93.85	64.10
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	103728	229.615	229.61	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	106874			75.43- 135.43	103.03
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	280326	224.333	224.33	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	95938			3.74- 63.74	34.22
5.326	5.326 (1.124)	41	76992			0.00- 57.60	27.47
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	159334	218.825	218.82	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	38414			0.00- 54.57	24.11
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	10542	22.2546	22.254	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	2723			0.00- 53.11	25.83
5.452	5.452 (1.151)	55	3420			0.00- 55.69	32.44
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.480 (0.935)	62	79332	219.603	219.60	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	25634			2.82- 62.82	32.31
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	58674	222.621	222.62	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	98019			135.26- 195.26	167.06
5.564	5.564 (0.952)	100	20029			2.82- 62.82	34.14
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	77210	223.897	223.90	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	70696			62.46- 122.46	91.56
6.082	6.082 (1.041)	97	49475			34.46- 94.46	64.08
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	101168	224.081	224.08	80.00- 120.00	100.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
127 Methylcyclohexane (continued)								
6.194	6.194	(1.060)	98	47804			18.08- 78.08	47.25
6.194	6.194	(1.060)	55	85519			54.72- 114.72	84.53
132 1,2-Dichloropropane						CAS #: 78-87-5		
6.404	6.404	(1.096)	63	63121	224.952	224.95	80.00- 120.00	100.00
6.404	6.404	(1.096)	62	46335			42.01- 102.01	73.41
6.390	6.404	(1.093)	41	39166			29.49- 89.49	62.05
136 1,4-Dioxane						CAS #: 123-91-1		
6.530	6.530	(1.117)	88	39551	249.783	249.78	80.00- 120.00	100.00
6.530	6.530	(1.117)	58	29966			47.39- 107.39	75.77
6.530	6.530	(1.117)	57	10110			0.00- 56.09	25.56
138 Bromodichloromethane						CAS #: 75-27-4		
6.725	6.725	(1.151)	83	126580	224.836	224.84	80.00- 120.00	100.00
6.725	6.725	(1.151)	85	78134			32.69- 92.69	61.73
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5		
7.341	7.327	(1.256)	75	91793	225.970	225.97	80.00- 120.00	100.00
7.341	7.341	(1.256)	77	28810			0.72- 60.72	31.39
7.327	7.327	(1.254)	39	52535			28.06- 88.06	57.23
145 4-Methyl-2-pentanone						CAS #: 108-10-1		
7.565	7.565	(1.294)	85	22993	243.189	243.19	80.00- 120.00	100.00
7.565	7.565	(1.294)	43	146341			626.49- 686.49	636.46
7.565	7.565	(1.294)	58	58755			241.15- 301.15	255.53
147 Toluene						CAS #: 108-88-3		
7.733	7.733	(1.323)	91	193663	221.954	221.95	80.00- 120.00	100.00
7.733	7.733	(1.323)	92	113806			28.28- 88.28	58.76
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6		
8.293	8.293	(0.845)	75	75754	232.529	232.53	80.00- 120.00	100.00
8.293	8.293	(0.845)	77	24492			3.40- 63.40	32.33
8.293	8.293	(0.845)	39	40462			26.11- 86.11	53.41
155 1,1,2-Trichloroethane						CAS #: 79-00-5		
8.614	8.614	(0.877)	97	66892	227.552	227.55	80.00- 120.00	100.00
8.614	8.614	(0.877)	99	42027			31.77- 91.77	62.83
8.614	8.614	(0.877)	83	58805			59.52- 119.52	87.91
156 Tetrachloroethene						CAS #: 127-18-4		
8.628	8.628	(0.879)	166	83995	228.628	228.63	80.00- 120.00	100.00
8.628	8.628	(0.879)	129	62974			46.35- 106.35	74.97
8.628	8.628	(0.879)	131	59994			44.43- 104.43	71.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	75579	259.675	259.68	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	137533			150.37- 210.37	181.97
9.006	9.006 (0.917)	100	15187			0.00- 49.21	20.09
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	114407	229.826	229.82	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	88157			47.05- 107.05	77.06
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	99355	231.675	231.67	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	92558			66.34- 126.34	93.16
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	147150	224.879	224.88	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	47204			1.70- 61.70	32.08
9.860	9.860 (1.004)	77	93295			32.92- 92.92	63.40
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.014)	106	75857	221.471	221.47	80.00- 120.00	100.00
9.944	9.958 (1.013)	91	256046			302.14- 362.14	337.54
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.084 (1.027)	106	95028	228.936	228.94	80.00- 120.00	100.00
10.083	10.084 (1.027)	91	199356			180.25- 240.25	209.79
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	90857	232.964	232.96	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	206065			199.46- 259.46	226.80
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	151475	243.628	243.63	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	82933			27.66- 87.66	54.75
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	104707	231.599	231.60	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	54742			22.21- 82.21	52.28
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	282772	232.706	232.71	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	71755			0.00- 55.22	25.38
10.769	10.769 (1.097)	51	33676			0.00- 41.79	11.91
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	142188	246.311	246.31	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	90315			32.79- 92.79	63.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	357878	235.992	235.99	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	72795			0.00- 50.77	20.34
11.105	11.105 (1.131)	105	12915			0.00- 33.59	3.61
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	277861	235.011	235.01	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	77372			0.00- 57.71	27.85
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	239446	238.673	238.67	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	108528			15.95- 75.95	45.32
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	227784	242.219	242.22	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	96227			13.66- 73.66	42.24
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	139032	231.952	231.95	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	89520			32.83- 92.83	64.39
11.707	11.707 (1.192)	111	61047			14.66- 74.66	43.91
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.763 (1.198)	146	141354	236.698	236.70	80.00- 120.00	100.00
11.762	11.763 (1.198)	148	88490			32.12- 92.12	62.60
11.762	11.763 (1.198)	111	60965			13.33- 73.33	43.13
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	86059	137.461	137.46	80.00- 120.00	100.00(R)
11.860	11.860 (1.208)	126	16425			0.00- 49.13	19.09
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	127715	232.613	232.61	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	82214			33.72- 93.72	64.37
11.986	11.986 (1.221)	111	59827			16.61- 76.61	46.84
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	76125	265.847	265.85	80.00- 120.00	100.00(R)
12.840	12.840 (1.308)	182	70298			64.47- 124.47	92.35
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	66039	262.970	262.97	80.00- 120.00	100.00(R)
12.896	12.896 (1.314)	223	40311			34.58- 94.58	61.04
228 Naphthalene					CAS #: 91-20-3		
12.980	12.966 (1.322)	128	14102	20.8769	20.877	80.00- 120.00	100.00

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
228 Naphthalene (continued)								
12.980	12.966	(1.322)	127	1991			0.00- 42.78	14.12

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091016.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	49045	-7.39
123 1,4-Difluorobenze	240311	144187	336435	222919	-7.24
163 Chlorobenzene-d5	202929	121757	284101	187932	-7.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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: 10-Sep-2015 21:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 10sep15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: gh
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

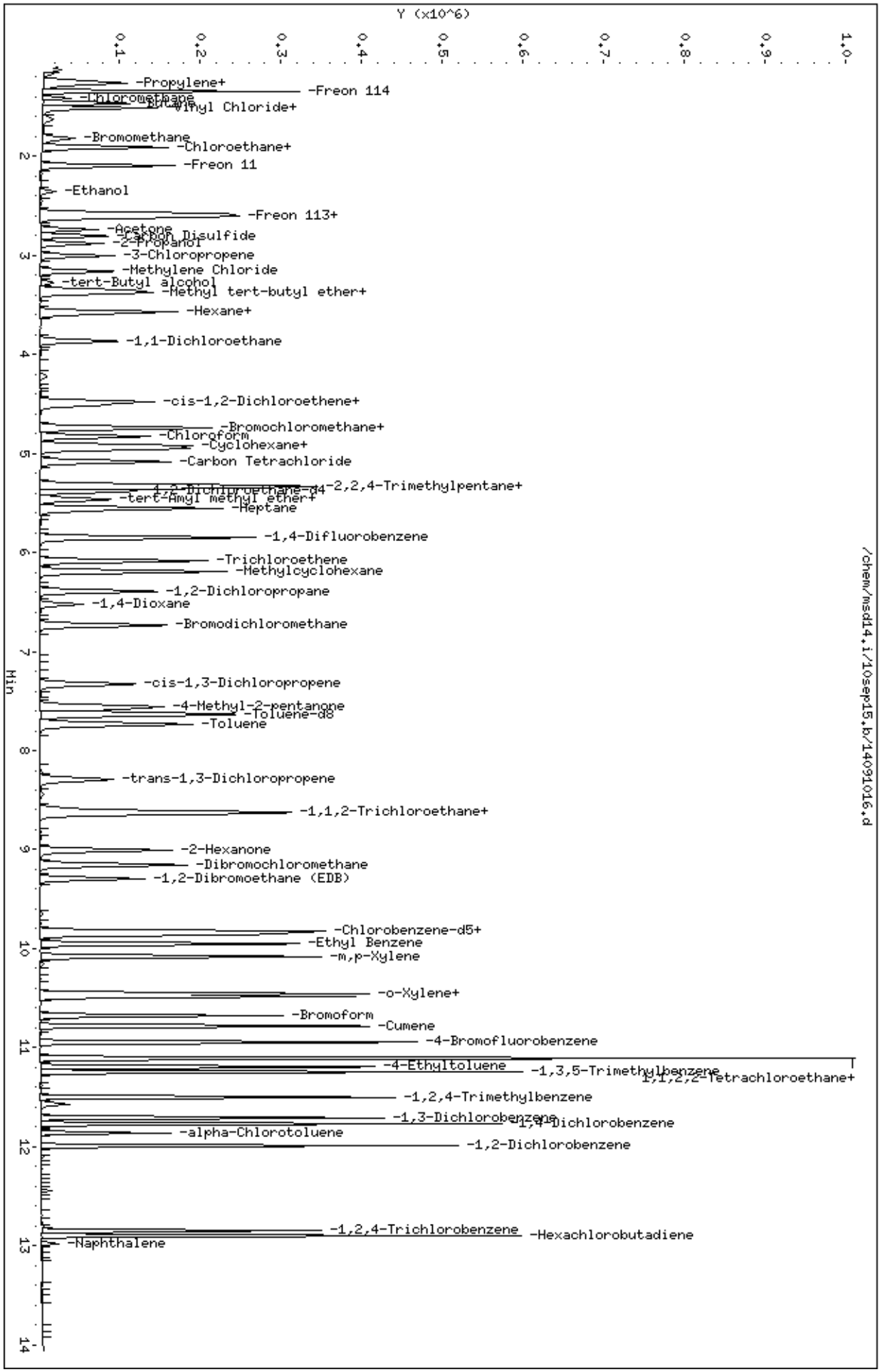
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	200.00	224.35	112.18	60-140
11 Freon 12	200.00	220.97	110.48	70-130
15 Freon 114	200.00	229.13	114.56	70-130
17 Chloromethane	200.00	224.58	112.29	70-130
23 Butane	200.00	221.23	110.62	60-140
25 Vinyl Chloride	200.00	227.48	113.74	70-130
26 1,3-Butadiene	200.00	212.15	106.07	70-130
29 Bromomethane	200.00	221.08	110.54	70-130
30 Chloroethane	200.00	234.74	117.37	70-130
31 Isopentane	200.00	223.65	111.83	60-140
35 Freon 11	200.00	230.04	115.02	70-130
42 Ethanol	200.00	218.92	109.46	70-130
49 Freon 113	200.00	224.52	112.26	70-130
50 1,1-Dichloroethene	200.00	224.44	112.22	70-130
52 Acetone	200.00	227.48	113.74	70-130
56 Carbon Disulfide	200.00	201.40	100.70	70-130
57 2-Propanol	200.00	255.88	127.94	70-130
58 3-Chloropropene	200.00	219.59	109.79	70-130
66 Methylene Chloride	200.00	217.60	108.80	70-130
72 Methyl tert-butyl	200.00	222.51	111.26	70-130
73 trans-1,2-Dichloro	200.00	197.69	98.85	70-130
78 Hexane	200.00	219.54	109.77	70-130
82 1,1-Dichloroethane	200.00	225.17	112.58	70-130
86 Vinyl Acetate	200.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	200.00	241.04	120.52	70-130
92 2-Butanone	200.00	234.90	117.45	70-130
99 Tetrahydrofuran	200.00	212.78	106.39	70-130
100 Chloroform	200.00	218.80	109.40	70-130
103 1,1,1-Trichloroeth	200.00	221.83	110.91	70-130
106 Carbon Tetrachlori	200.00	229.61	114.81	70-130
102 Cyclohexane	200.00	222.27	111.14	70-130
113 2,2,4-Trimethylpen	200.00	224.33	112.17	70-130
116 Benzene	200.00	218.82	109.41	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	200.00	219.60	109.80	70-130
121 Heptane	200.00	222.62	111.31	70-130
125 Trichloroethene	200.00	223.90	111.95	70-130
127 Methylcyclohexane	200.00	224.08	112.04	60-140
132 1,2-Dichloropropan	200.00	224.95	112.48	70-130
136 1,4-Dioxane	200.00	249.78	124.89	70-130
138 Bromodichlorometha	200.00	224.84	112.42	70-130
144 cis-1,3-Dichloropr	200.00	225.97	112.99	70-130
145 4-Methyl-2-pentano	200.00	243.19	121.59	70-130
147 Toluene	200.00	221.95	110.98	70-130
150 trans-1,3-Dichloro	200.00	232.53	116.26	70-130
155 1,1,2-Trichloroeth	200.00	227.55	113.78	70-130
156 Tetrachloroethene	200.00	228.63	114.31	70-130
158 2-Hexanone	200.00	259.68	129.84	70-130
160 Dibromochlorometha	200.00	229.82	114.91	70-130
161 1,2-Dibromoethane	200.00	231.67	115.84	70-130
165 Chlorobenzene	200.00	224.88	112.44	70-130
167 Ethyl Benzene	200.00	221.47	110.74	70-130
169 m,p-Xylene	200.00	228.94	114.47	70-130
171 o-Xylene	200.00	232.96	116.48	70-130
172 Styrene	200.00	243.63	121.81	70-130
174 Bromoform	200.00	231.60	115.80	70-130
175 Cumene	200.00	232.71	116.35	70-130
181 1,1,2,2-Tetrachlor	200.00	246.31	123.16	70-130
182 Propylbenzene	200.00	235.99	118.00	70-130
188 4-Ethyltoluene	200.00	235.01	117.51	70-130
190 1,3,5-Trimethylben	200.00	238.67	119.34	70-130
196 1,2,4-Trimethylben	200.00	242.22	121.11	70-130
208 1,3-Dichlorobenzen	200.00	231.95	115.98	70-130
209 1,4-Dichlorobenzen	200.00	236.70	118.35	70-130
212 alpha-Chlorotoluen	200.00	137.46	68.73*	70-130
214 1,2-Dichlorobenzen	200.00	232.61	116.31	70-130
226 1,2,4-Trichloroben	200.00	265.85	132.92*	70-130
227 Hexachlorobutadien	200.00	262.97	131.48*	70-130
228 Naphthalene	20.000	20.877	104.38	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	396.36	99.09	70-130
$ 146 Toluene-d8	400.00	406.19	101.55	70-130
$ 177 4-Bromofluorobenze	400.00	395.03	98.76	70-130

Data File: /chem/msd14.i/10sep15.b/14091016.d
Date : 10-SEP-2015 18:35
Client ID: LCS
Sample Info: 50mL #2736-182
Column phase: RTX-624

Instrument: msd14.i
Operator: gh
Column diameter: 0.18



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091002.d
Lab Smp Id: ICAL Level 1 Client Smp ID: ICAL Level 1
Inj Date : 10-SEP-2015 09:13
Operator : mjs Inst ID: msd14.i
Smp Info : 30ml #2736-221
Misc Info : 3.0ppbv (5.0ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 09:13 Cal File: 14091002.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Benzene.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	51845	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40950			48.38- 108.38	78.99
4.739	4.739 (1.000)	49	82263			122.49- 182.49	158.67
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	91011	400.000	409.94	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	46332			22.50- 82.50	50.91
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	238785	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40564			0.00- 47.28	16.99
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	251380	400.000	397.56	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	30552			0.00- 42.36	12.15
7.635	7.635 (1.306)	100	160874			36.13- 96.13	64.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	202921	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	129756			33.96- 93.96	63.94
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	114995	400.000	395.32	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	162218			113.45- 173.45	141.07
10.951	10.951 (1.115)	176	109715			68.10- 128.10	95.41
116 Benzene					CAS #: 71-43-2		
5.340	5.340 (0.914)	78	2932	3.00000	3.422	80.00- 120.00	100.00(a)
5.354	5.354 (0.916)	77	762			0.00- 54.57	25.99

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091002.d
Lab Smp Id: ICAL Level 1
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 3.0ppbv (5.0ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	51845	-2.10
123 1,4-Difluorobenze	240311	144187	336435	238785	-0.64
163 Chlorobenzene-d5	202929	121757	284101	202921	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091002.d

Date : 10-SEP-2015 09:13

Client ID: ICAL Level 1

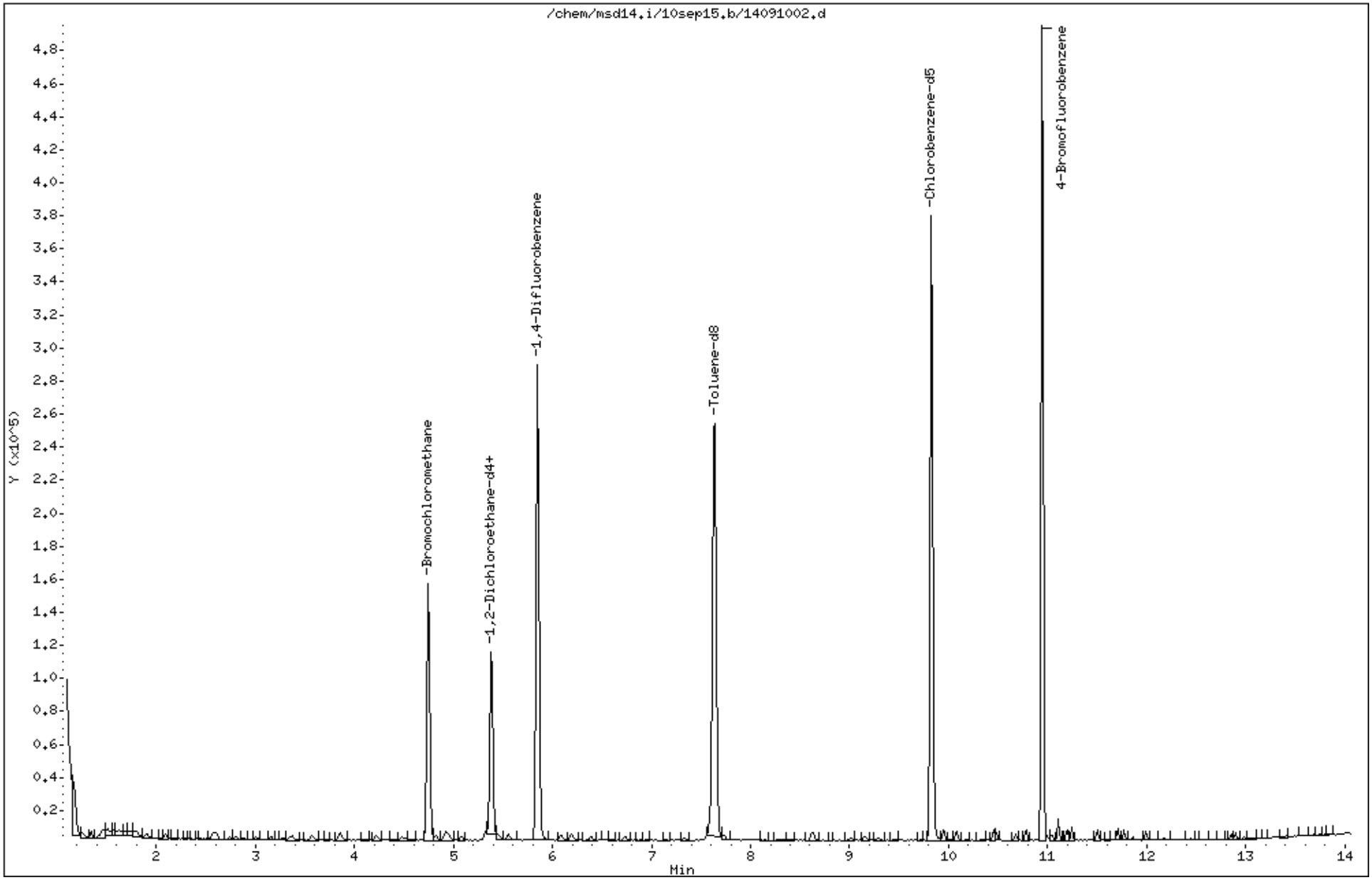
Sample Info: 30ml #2736-221

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091003.d
Lab Smp Id: ICAL Level 2 Client Smp ID: ICAL Level 2
Inj Date : 10-SEP-2015 09:38
Operator : mjs Inst ID: msd14.i
Smp Info : 50ml #2736-221
Misc Info : 5.0ppbv (5.0ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 09:38 Cal File: 14091003.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.753	4.753 (1.000)	130	51719	400.000		80.00- 120.00	100.00
4.753	4.753 (1.000)	128	40504			48.38- 108.38	78.32
4.739	4.739 (1.000)	49	80665			122.49- 182.49	155.97
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	235268	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40514			0.00- 47.28	17.22
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	199277	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	126590			33.96- 93.96	63.52
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.132)	65	88041	400.000	398.35	80.00- 120.00	100.00
5.382	5.382 (1.132)	67	44767			22.50- 82.50	50.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	250547	400.000	401.44	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	30046			0.00- 42.36	11.99
7.635	7.635 (1.306)	100	157636			36.13- 96.13	62.92
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	114296	400.000	400.07	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	160563			113.45- 173.45	140.48
10.951	10.951 (1.115)	176	110003			68.10- 128.10	96.24
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.267)	85	3603	5.00000	5.607	80.00- 120.00	100.00
1.269	1.269 (0.267)	87	1103			1.94- 61.94	30.61
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	2253	5.00000	5.589	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	758			2.09- 62.09	33.64
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.317)	62	1368	5.00000	5.579	80.00- 120.00	100.00
1.521	1.521 (0.320)	64	526			1.45- 61.45	38.45
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.320)	54	1171	5.00000	5.810	80.00- 120.00	100.00
1.521	1.521 (0.320)	39	2884			71.31- 131.31	246.29
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.382)	94	963	5.00000	5.503	80.00- 120.00	100.00
1.814	1.814 (0.382)	96	907			64.67- 124.67	94.18
1.814	1.814 (0.382)	79	303			0.00- 47.98	31.46
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.441)	101	3274	5.00000	5.328	80.00- 120.00	100.00
2.094	2.094 (0.441)	103	2124			34.26- 94.26	64.87
49 Freon 113					CAS #: 76-13-1		
2.598	2.598 (0.547)	151	2013	5.00000	5.363	80.00- 120.00	100.00
2.598	2.598 (0.547)	153	1297			33.38- 93.38	64.43
2.584	2.584 (0.544)	101	3026			106.88- 166.88	150.32
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.550)	61	2479	5.00000	5.456	80.00- 120.00	100.00
2.612	2.612 (0.550)	96	1495			24.64- 84.64	60.31
2.612	2.612 (0.550)	98	1070			4.54- 64.54	43.16
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.588)	76	3804	5.00000	5.427	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride					CAS #: 75-09-2		
3.172	3.172 (0.667)	49	1774	5.00000	5.582	80.00- 120.00	100.00
3.172	3.172 (0.667)	84	1272			42.33- 102.33	71.70
3.158	3.158 (0.664)	51	596			1.58- 61.58	33.60
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.354 (0.706)	73	2321	5.00000	4.614	80.00- 120.00	100.00(a)
3.368	3.368 (0.709)	57	844			0.00- 54.23	36.36
3.354	3.354 (0.706)	41	539			0.00- 52.85	23.22
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.382	3.382 (0.711)	96	1449	5.00000	5.576	80.00- 120.00	100.00
3.382	3.382 (0.711)	61	2051			124.68- 184.68	141.55
3.382	3.382 (0.711)	98	904			31.63- 91.63	62.39
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.753)	57	2683	5.00000	5.772	80.00- 120.00	100.00
3.577	3.577 (0.753)	43	2243			29.53- 89.53	83.60
3.591	3.591 (0.756)	86	325			0.00- 47.08	12.11
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.812)	63	2531	5.00000	5.365	80.00- 120.00	100.00
3.871	3.871 (0.815)	65	783			1.34- 61.34	30.94
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.944)	61	1944	5.00000	5.242	80.00- 120.00	100.00
4.487	4.487 (0.944)	96	1454			40.63- 100.63	74.79
4.487	4.487 (0.944)	98	919			13.70- 73.70	47.27
99 Tetrahydrofuran					CAS #: 109-99-9		
4.739	4.739 (0.997)	42	2246	5.00000	6.258	80.00- 120.00	100.00
4.739	4.739 (0.997)	71	689			10.11- 70.11	30.68
4.739	4.739 (0.997)	72	658			11.95- 71.95	29.30
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.015)	83	2916	5.00000	5.346	80.00- 120.00	100.00
4.837	4.837 (1.018)	85	1873			32.70- 92.70	64.23
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.035)	84	2212	5.00000	5.642	80.00- 120.00	100.00
4.921	4.921 (1.035)	56	2870			89.66- 149.66	129.75
4.921	4.921 (1.035)	41	1680			35.66- 95.66	75.95
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.041)	97	2949	5.00000	5.337	80.00- 120.00	100.00
4.949	4.949 (1.041)	99	1971			33.85- 93.85	66.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.089 (1.071)	119	2300	5.00000	4.954	80.00- 120.00	100.00(a)
5.089	5.089 (1.071)	117	2247			75.43- 135.43	97.70
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.121)	57	7479	5.00000	5.441	80.00- 120.00	100.00
5.326	5.326 (1.121)	56	2953			3.74- 63.74	39.48
5.326	5.326 (1.121)	41	2155			0.00- 57.60	28.81
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	4231	5.00000	5.008	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	1040			0.00- 54.57	24.58
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	2207	5.00000	5.502	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	834			2.82- 62.82	37.79
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	1543	5.00000	5.374	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	2698			135.26- 195.26	174.85
5.564	5.564 (0.952)	100	267			2.82- 62.82	17.30
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	2253	5.00000	5.690	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	2238			62.46- 122.46	99.33
6.082	6.082 (1.041)	97	1548			34.46- 94.46	68.71
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	2808	5.00000	5.495	80.00- 120.00	100.00(a)
6.194	6.194 (1.060)	98	1448			18.08- 78.08	51.57
6.194	6.194 (1.060)	55	2658			54.72- 114.72	94.66
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	1726	5.00000	5.493	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	1257			42.01- 102.01	72.83
6.404	6.404 (1.096)	41	1083			29.49- 89.49	62.75
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	3517	5.00000	5.553	80.00- 120.00	100.00
6.740	6.740 (1.153)	85	1986			32.69- 92.69	56.47
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.341	7.341 (1.256)	75	1996	5.00000	4.728	80.00- 120.00	100.00(a)
7.341	7.341 (1.256)	77	617			0.72- 60.72	30.91
7.341	7.341 (1.256)	39	1163			28.06- 88.06	58.27

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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.579   7.579 (1.297)    85       587 5.00000    5.662  80.00- 120.00   100.00
  7.579   7.579 (1.297)    43      3473                  626.49- 686.49   591.65
  7.565   7.565 (1.294)    58      1466                  241.15- 301.15   249.74
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.733   7.733 (1.323)    91      5523 5.00000    5.559  80.00- 120.00   100.00
  7.733   7.733 (1.323)    92      3298                   28.28-  88.28    59.71
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  8.307   8.307 (0.846)    75      1084 5.00000    3.800  80.00- 120.00   100.00(a)
  8.307   8.307 (0.846)    77       383                    3.40-  63.40    35.33
  8.293   8.293 (0.845)    39      1267                   26.11-  86.11   116.88
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.615   8.615 (0.877)    97      1730 5.00000    5.339  80.00- 120.00   100.00
  8.615   8.615 (0.877)    99      1046                   31.77-  91.77    60.46
  8.615   8.615 (0.877)    83      1537                   59.52- 119.52    88.84
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.629   8.629 (0.879)   166      2196 5.00000    5.370  80.00- 120.00   100.00
  8.629   8.629 (0.879)   129      1640                   46.35- 106.35    74.68
  8.629   8.629 (0.879)   131      1830                   44.43- 104.43    83.33
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  9.160   9.160 (0.933)   129      2775 5.00000    5.138  80.00- 120.00   100.00
  9.160   9.160 (0.933)   127      2226                   47.05- 107.05    80.22
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  9.300   9.300 (0.947)   107      2243 5.00000    4.993  80.00- 120.00   100.00(a)
  9.300   9.300 (0.947)   109      2261                   66.34- 126.34   100.80
-------------------------------------------------------------------------------
  165 Chlorobenzene                                 CAS #: 108-90-7
  9.860   9.860 (1.004)   112      3805 5.00000    5.267  80.00- 120.00   100.00
  9.860   9.860 (1.004)   114      1361                    1.70-  61.70    35.77
  9.832   9.832 (1.001)    77      5007                   32.92-  92.92   131.59
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                 CAS #: 100-41-4
  9.958   9.958 (1.014)   106      2260 5.00000    5.612  80.00- 120.00   100.00
  9.958   9.958 (1.014)    91      7287                  302.14- 362.14   322.43
-------------------------------------------------------------------------------
  169 m,p-Xylene                                    CAS #: 108-38-3
 10.084  10.084 (1.027)   106      2575 5.00000    5.423  80.00- 120.00   100.00
 10.084  10.084 (1.027)    91      5581                  180.25- 240.25   216.74
-------------------------------------------------------------------------------
  171 o-Xylene                                      CAS #: 95-47-6
 10.461  10.461 (1.066)   106      2235 5.00000    5.275  80.00- 120.00   100.00
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RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
171 o-Xylene (continued)								
10.461	10.461	(1.066)	91	5510			199.46- 259.46	246.53
172 Styrene						CAS #: 100-42-5		
10.489	10.489	(1.068)	104	3476	5.00000	5.228	80.00- 120.00	100.00
10.489	10.489	(1.068)	78	2067			27.66- 87.66	59.46
174 Bromoform						CAS #: 75-25-2		
10.671	10.671	(1.087)	173	2504	5.00000	5.135	80.00- 120.00	100.00(a)
10.671	10.671	(1.087)	171	1246			22.21- 82.21	49.76
175 Cumene						CAS #: 98-82-8		
10.783	10.783	(1.098)	105	7160	5.00000	5.262	80.00- 120.00	100.00(a)
10.783	10.783	(1.098)	120	1975			0.00- 55.22	27.58
10.769	10.769	(1.097)	51	827			0.00- 41.79	11.55
181 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
11.105	11.105	(1.131)	83	2814	5.00000	4.660	80.00- 120.00	100.00(a)
11.105	11.105	(1.131)	85	1769			32.79- 92.79	62.86
182 Propylbenzene						CAS #: 103-65-1		
11.105	11.105	(1.131)	91	9265	5.00000	5.374	80.00- 120.00	100.00
11.105	11.105	(1.131)	120	1791			0.00- 50.77	19.33
11.119	11.119	(1.133)	105	321			0.00- 33.59	3.46
188 4-Ethyltoluene						CAS #: 622-96-8		
11.203	11.203	(1.141)	105	7160	5.00000	5.363	80.00- 120.00	100.00
11.203	11.203	(1.141)	120	2038			0.00- 57.71	28.46
190 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
11.245	11.245	(1.145)	105	6382	5.00000	5.507	80.00- 120.00	100.00
11.245	11.245	(1.145)	120	2829			15.95- 75.95	44.33
196 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.511	11.511	(1.172)	105	5668	5.00000	5.265	80.00- 120.00	100.00
11.511	11.511	(1.172)	120	2484			13.66- 73.66	43.82
208 1,3-Dichlorobenzene						CAS #: 541-73-1		
11.707	11.707	(1.192)	146	3660	5.00000	5.297	80.00- 120.00	100.00
11.707	11.707	(1.192)	148	2432			32.83- 92.83	66.45
11.707	11.707	(1.192)	111	1635			14.66- 74.66	44.67
209 1,4-Dichlorobenzene						CAS #: 106-46-7		
11.763	11.763	(1.198)	146	3778	5.00000	5.376	80.00- 120.00	100.00
11.763	11.763	(1.198)	148	2528			32.12- 92.12	66.91
11.763	11.763	(1.198)	111	1501			13.33- 73.33	39.73

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
212 alpha-Chlorotoluene						CAS #: 100-44-7		
11.861	11.861	(1.208)	91	2456	5.00000	3.798	80.00- 120.00	100.00(a)
11.861	11.861	(1.208)	126	383			0.00- 49.13	15.59
214 1,2-Dichlorobenzene						CAS #: 95-50-1		
11.987	11.987	(1.221)	146	3541	5.00000	5.409	80.00- 120.00	100.00
11.987	11.987	(1.221)	148	2321			33.72- 93.72	65.55
11.987	11.987	(1.221)	111	1485			16.61- 76.61	41.94

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091003.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 2
Level: LOW
Sample Type: AIR

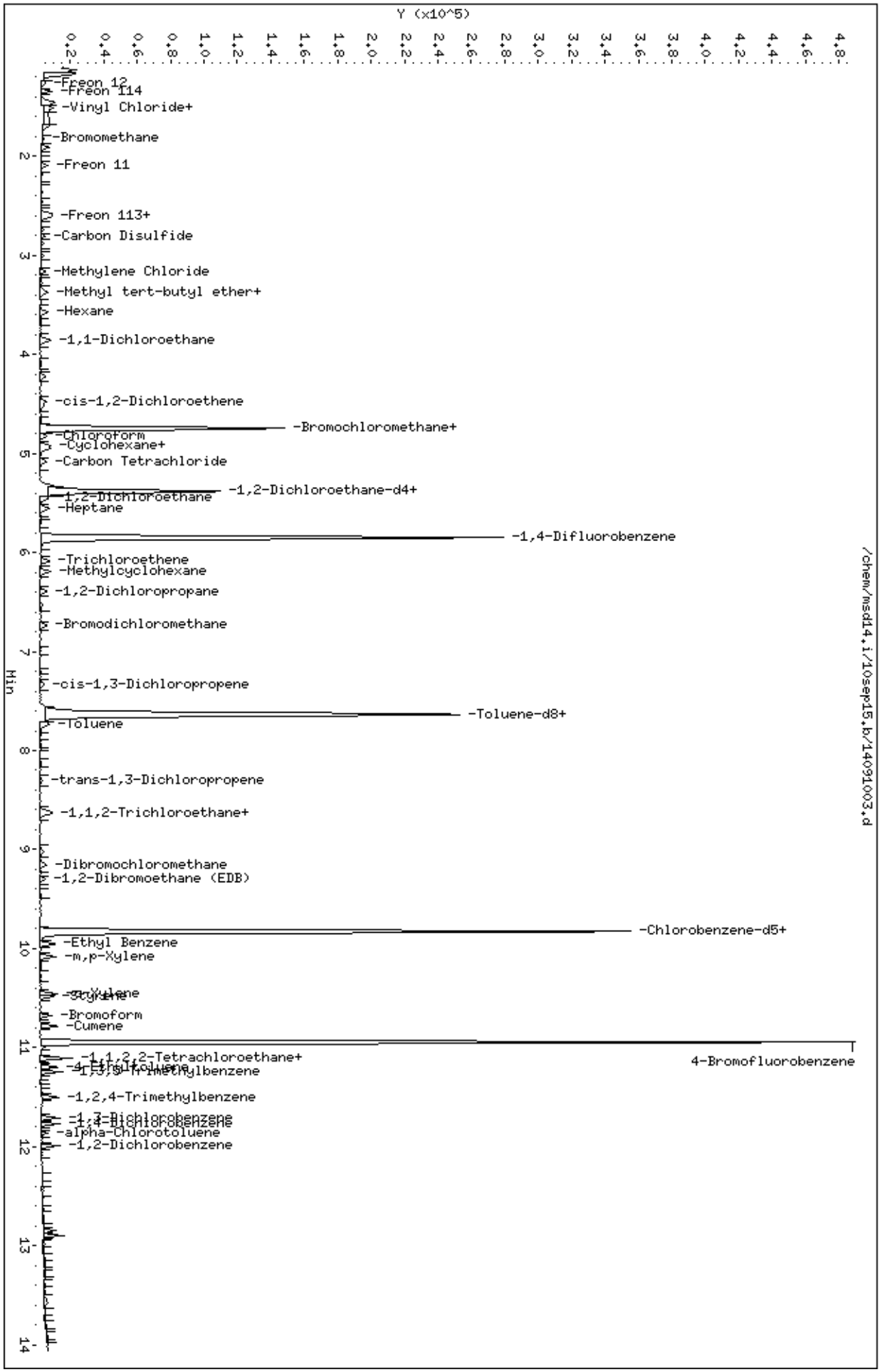
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	51719	-2.34
123 1,4-Difluorobenze	240311	144187	336435	235268	-2.10
163 Chlorobenzene-d5	202929	121757	284101	199277	-1.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.75	0.30
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091003.d
Date : 10-SEP-2015 09:38
Client ID: ICAL Level 2
Sample Info: 50ml #2736-221
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091017.d
Lab Smp Id: ICAL 3 Client Smp ID: Level 3
Inj Date : 10-SEP-2015 19:04
Operator : gh Inst ID: msd14.i
Smp Info : 5.0ml #2736-197
Misc Info : 20ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:41 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 19:04 Cal File: 14091017.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1curve.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	50610	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	39697			48.38- 108.38	78.44
4.739	4.739 (1.000)	49	78943			122.49- 182.49	155.98
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	229279	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	38742			0.00- 47.28	16.90
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	192718	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	123083			33.96- 93.96	63.87
6 Freon 143a					CAS #: 420-46-2		
1.157	1.157 (0.244)	69	4573	20.0000	18.364	80.00- 120.00	100.00(a)
1.157	1.157 (0.244)	65	1631			0.00- 30.00	35.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
7 Freon 134a					CAS #: 811-97-2		
1.199	1.199 (0.253)	83	3943	20.0000	20.266	80.00- 120.00	100.00
1.199	1.199 (0.253)	69	3840			0.00- 30.00	97.39
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.241	1.241 (0.262)	65	1789	20.0000	18.308	80.00- 120.00	100.00(a)
1.199	1.199 (0.253)	51	554			0.00- 30.00	30.97
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.283	1.283 (0.271)	67	842	20.0000	17.903	80.00- 120.00	100.00(a)
1.283	1.283 (0.271)	51	9416			0.00- 30.00	1118.29
16 Freon 142b					CAS #: 75-68-3		
1.395	1.395 (0.294)	65	8162	20.0000	19.114	80.00- 120.00	100.00(a)
1.395	1.395 (0.294)	45	2678			0.00- 30.00	32.81
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.108	2.108 (0.445)	67	8180	20.0000	18.779	80.00- 120.00	100.00(a)
2.108	2.108 (0.445)	69	3003			0.00- 30.00	36.71
2.136	2.136 (0.451)	35	139			0.00- 30.00	1.70
48 Freon 123					CAS #: 306-83-2		
2.542	2.542 (0.536)	83	8548	20.0000	18.965	80.00- 120.00	100.00(a)
2.542	2.542 (0.536)	133	1566			0.00- 30.00	18.32
2.542	2.542 (0.536)	85	5803			0.00- 30.00	67.89
59 Cyclopentene					CAS #: 142-29-0		
3.018	3.018 (0.637)	67	5532	20.0000	19.083	80.00- 120.00	100.00(a)
3.018	3.018 (0.637)	68	1950			0.00- 30.00	35.25
3.018	3.018 (0.637)	53	1146			0.00- 30.00	20.72
84 1-Propanol					CAS #: 71-23-8		
4.025	4.025 (0.849)	42	682	20.0000	18.888	80.00- 120.00	100.00(a)
4.025	4.025 (0.849)	59	605			0.00- 30.00	88.71
4.025	4.025 (0.849)	41	806			0.00- 30.00	118.18
90 2,2-Dichloropropane					CAS #: 594-20-7		
4.431	4.431 (0.935)	77	1278	20.0000	11.781	80.00- 120.00	100.00(a)
4.431	4.431 (0.935)	79	460			0.00- 30.00	35.99
4.445	4.445 (0.938)	97	234			0.00- 30.00	18.31
107 1,1-Dichloropropene					CAS #: 563-58-6		
5.130	5.130 (1.083)	110	1492	20.0000	18.710	80.00- 120.00	100.00(a)
5.130	5.130 (1.083)	75	4546			0.00- 30.00	304.69
115 Isobutanol					CAS #: 78-83-1		
5.368	5.368 (0.919)	43	4174	20.0000	20.643	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
115 Isobutanol (continued)							
5.368	5.368 (0.919)	41	2707			0.00- 30.00	64.85
124 n-Butanol					CAS #: 71-36-3		
6.124	6.124 (1.048)	56	5375	20.0000	18.438	80.00- 120.00	100.00(a)
6.110	6.110 (1.045)	41	4506			0.00- 30.00	83.83
6.124	6.124 (1.048)	43	2708			0.00- 30.00	50.38
157 1,3-Dichloropropane					CAS #: 142-28-9		
8.894	8.894 (1.877)	76	6925	20.0000	18.569	80.00- 120.00	100.00(a)
8.894	8.894 (1.877)	41	4434			0.00- 30.00	64.03
8.880	8.880 (1.874)	78	2187			0.00- 30.00	31.58
159 Butyl Acetate					CAS #: 123-86-4		
9.174	9.174 (1.570)	56	1565	20.0000	18.430	80.00- 120.00	100.00(a)
9.174	9.174 (1.570)	73	370			0.00- 30.00	23.64
9.174	9.174 (1.570)	43	3734			0.00- 30.00	238.59
168 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.972	9.972 (1.016)	131	5922	20.0000	19.482	80.00- 120.00	100.00(a)
9.972	9.972 (1.016)	117	4542			0.00- 30.00	76.70
9.972	9.972 (1.016)	95	2327			0.00- 30.00	39.29
173 2-Heptanone					CAS #: 110-43-0		
10.629	10.629 (1.083)	58	7017	20.0000	17.456	80.00- 120.00	100.00(a)
10.629	10.629 (1.083)	43	11433			0.00- 30.00	162.93
176 Cyclohexanone					CAS #: 108-94-1		
10.909	10.909 (1.111)	55	5760	20.0000	19.656	80.00- 120.00	100.00(a)
10.909	10.909 (1.111)	98	1991			0.00- 30.00	34.57
10.909	10.909 (1.111)	42	3798			0.00- 30.00	65.94
180 Bromobenzene					CAS #: 108-86-1		
11.049	11.049 (1.125)	156	6075	20.0000	19.794	80.00- 120.00	100.00(a)
11.035	11.035 (1.124)	77	11484			0.00- 30.00	189.04
11.049	11.049 (1.125)	158	5452			0.00- 30.00	89.74
185 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.133	11.133 (1.134)	110	3158	20.0000	18.092	80.00- 120.00	100.00(a)
11.133	11.133 (1.134)	61	2585			0.00- 30.00	81.86
11.133	11.133 (1.134)	112	2372			0.00- 30.00	75.11
189 2-Chlorotoluene					CAS #: 95-49-8		
11.189	11.189 (1.140)	126	4732	20.0000	19.400	80.00- 120.00	100.00(a)
11.189	11.189 (1.140)	91	15953			0.00- 30.00	337.13
11.189	11.189 (1.140)	65	1746			0.00- 30.00	36.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
191 4-Chlorotoluene					CAS #: 106-43-4		
11.273	11.273 (1.148)	126	4954	20.0000	19.648	80.00- 120.00	100.00(a)
11.273	11.273 (1.148)	91	15841			0.00- 30.00	319.76
11.273	11.273 (1.148)	63	2321			0.00- 30.00	46.85
195 tert-Butylbenzene					CAS #: 98-06-6		
11.455	11.455 (1.167)	119	15578	20.0000	19.236	80.00- 120.00	100.00(a)
11.469	11.469 (1.168)	134	3820			0.00- 30.00	24.52
11.455	11.455 (1.167)	91	11296			0.00- 30.00	72.51
197 Pentachloroethane					CAS #: 76-01-7		
11.511	11.511 (1.172)	167	3969	20.0000	17.932	80.00- 120.00	100.00(a)
11.511	11.511 (1.172)	117	4414			0.00- 30.00	111.21
203 sec-Butylbenzene					CAS #: 135-98-8		
11.609	11.609 (1.182)	105	24131	20.0000	18.908	80.00- 120.00	100.00(a)
11.609	11.609 (1.182)	134	4686			0.00- 30.00	19.42
11.609	11.609 (1.182)	91	3727			0.00- 30.00	15.44
207 p-Cymene					CAS #: 99-87-6		
11.707	11.707 (1.192)	119	18501	20.0000	18.646	80.00- 120.00	100.00(a)
11.707	11.707 (1.192)	134	4798			0.00- 30.00	25.93
11.693	11.693 (1.191)	91	4920			0.00- 30.00	26.59
210 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.777	11.777 (1.200)	120	7659	20.0000	19.100	80.00- 120.00	100.00(a)
11.777	11.777 (1.200)	105	19132			0.00- 30.00	249.80
11.777	11.777 (1.200)	77	2628			0.00- 30.00	34.31
213 Butylbenzene					CAS #: 104-51-8		
11.944	11.944 (1.217)	134	4504	20.0000	18.662	80.00- 120.00	100.00(a)
11.944	11.944 (1.217)	91	19799			0.00- 30.00	439.59
11.944	11.944 (1.217)	92	10432			0.00- 30.00	231.62
221 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.448	12.448 (1.268)	157	4071	20.0000	18.532	80.00- 120.00	100.00(a)
12.434	12.434 (1.266)	75	4363			0.00- 30.00	107.17
12.448	12.448 (1.268)	155	2977			0.00- 30.00	73.13

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091017.d
Lab Smp Id: ICAL 3
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

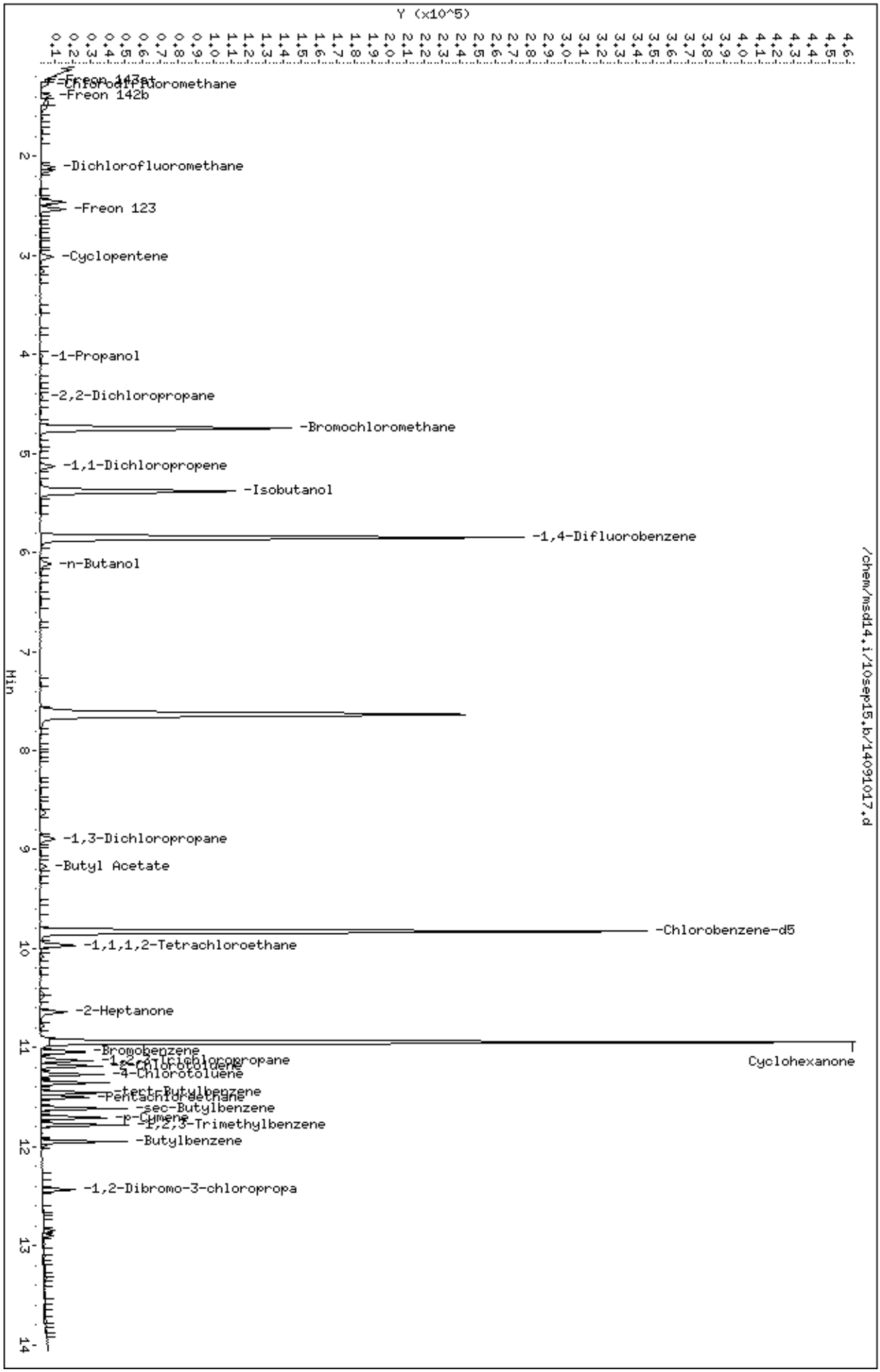
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	50610	-4.43
123 1,4-Difluorobenze	240311	144187	336435	229279	-4.59
163 Chlorobenzene-d5	202929	121757	284101	192718	-5.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091017.d
Date : 10-SEP-2015 19:04
Client ID: Level 3
Sample Info: 5.0ml #2736-197
Column phase: RTX-624

Instrument: msd14.i
Operator: gh
Column diameter: 0.18



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091004.d
Lab Smp Id: ICAL Level 3 Client Smp ID: ICAL Level 3
Inj Date : 10-SEP-2015 10:05
Operator : mjs Inst ID: msd14.i
Smp Info : 5.0ml #2736-173
Misc Info : 20ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 10:05 Cal File: 14091004.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	54388	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	41645			48.38- 108.38	76.57
4.739	4.739 (1.000)	49	82198			122.49- 182.49	151.13
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	245284	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	41312			0.00- 47.28	16.84
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	203072	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	130895			33.96- 93.96	64.46
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	92020	400.000	396.93	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	46436			22.50- 82.50	50.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	257218	400.000	396.47	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	31196			0.00- 42.36	12.13
7.635	7.635 (1.306)	100	164545			36.13- 96.13	63.97
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	115901	400.000	398.58	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	162821			113.45- 173.45	140.48
10.951	10.951 (1.115)	176	111187			68.10- 128.10	95.93
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	2804	20.0000	18.639	80.00- 120.00	100.00(a)
1.241	1.241 (0.262)	42	2543			35.71- 95.71	90.69
1.241	1.241 (0.262)	39	2506			44.83- 104.83	89.37
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	10806	20.0000	17.136	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	3838			1.94- 61.94	35.52
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	7067	20.0000	17.649	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	1940			2.09- 62.09	27.45
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	4108	20.0000	19.845	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	1297			1.48- 61.48	31.57
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	1102	20.0000	20.332	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	7242			577.93- 637.93	657.17
25 Vinyl Chloride					CAS #: 75-01-4		
1.521	1.521 (0.321)	62	4070	20.0000	16.977	80.00- 120.00	100.00
1.521	1.521 (0.321)	64	1369			1.45- 61.45	33.64
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	3481	20.0000	17.465	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	4054			71.31- 131.31	116.46
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	2692	20.0000	16.067	80.00- 120.00	100.00
1.828	1.828 (0.386)	96	2428			64.67- 124.67	90.19
1.814	1.814 (0.383)	79	575			0.00- 47.98	21.36
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	2041	20.0000	18.542	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
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	617			1.09- 61.09	30.23
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	4982	20.0000	19.424	80.00- 120.00	100.00(a)
1.912	1.912 (0.404)	57	3676			42.08- 102.08	73.79
1.912	1.912 (0.404)	72	427			0.00- 38.91	8.57
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	10748	20.0000	17.622	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	6754			34.26- 94.26	62.84
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	2236	20.0000	20.486	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	507			0.00- 52.18	22.67
2.360	2.360 (0.498)	46	862			11.33- 71.33	38.55
49 Freon 113					CAS #: 76-13-1		
2.598	2.598 (0.548)	151	6427	20.0000	17.358	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	4112			33.38- 93.38	63.98
2.584	2.584 (0.545)	101	8754			106.88- 166.88	136.21
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	8044	20.0000	17.773	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	4289			24.64- 84.64	53.32
2.612	2.612 (0.551)	98	2947			4.54- 64.54	36.64
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	2283	20.0000	19.146	80.00- 120.00	100.00(a)
2.738	2.738 (0.578)	43	8201			297.27- 357.27	359.22
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	12189	20.0000	17.550	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	6783	20.0000	18.516	80.00- 120.00	100.00(a)
2.878	2.878 (0.607)	43	1625			0.00- 50.08	23.96
2.878	2.878 (0.607)	59	161			0.00- 33.79	2.37
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	1800	20.0000	18.028	80.00- 120.00	100.00(a)
3.004	3.004 (0.634)	41	4766			228.46- 288.46	264.78
66 Methylene Chloride					CAS #: 75-09-2		
3.172	3.172 (0.669)	49	6135	20.0000	18.874	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	4288			42.33- 102.33	69.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.172	3.172 (0.669)	51	1727			1.58- 61.58	28.15
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.270	3.270 (0.690)	59	4507	20.0000	16.529	80.00- 120.00	100.00(a)
3.284	3.284 (0.693)	41	1005			0.00- 49.77	22.30
3.270	3.270 (0.690)	57	812			0.00- 40.69	18.02
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	7245	20.0000	15.303	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	2102			0.00- 54.23	29.01
3.353	3.353 (0.708)	41	1623			0.00- 52.85	22.40
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	4418	20.0000	17.271	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	6482			124.68- 184.68	146.72
3.381	3.381 (0.714)	98	2833			31.63- 91.63	64.12
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	7342	20.0000	16.380	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	4932			29.53- 89.53	67.18
3.577	3.577 (0.755)	86	1219			0.00- 47.08	16.60
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	8397	20.0000	17.841	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	2536			1.34- 61.34	30.20
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	15151	20.0000	18.861	80.00- 120.00	100.00(a)
3.857	3.857 (0.814)	87	3718			0.00- 55.21	24.54
3.843	3.843 (0.811)	59	1728			0.00- 41.77	11.41
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	9431	20.0000	16.186	80.00- 120.00	100.00(a)
4.221	4.221 (0.891)	87	3434			7.67- 67.67	36.41
4.221	4.221 (0.891)	41	2204			0.00- 47.51	23.37
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	6143	20.0000	16.953	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	4475			40.63- 100.63	72.85
4.487	4.487 (0.947)	98	3107			13.70- 73.70	50.58
92 2-Butanone					CAS #: 78-93-3		
4.529	4.529 (0.956)	72	1625	20.0000	16.059	80.00- 120.00	100.00(a)
4.529	4.529 (0.956)	43	8185			377.26- 437.26	503.69
4.515	4.515 (0.953)	57	955			5.15- 65.15	58.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
4.739	4.739 (1.000)	42	5365	20.0000	15.731	80.00- 120.00	100.00
4.739	4.739 (1.000)	71	1804			10.11- 70.11	33.63
4.739	4.739 (1.000)	72	1917			11.95- 71.95	35.73
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	9858	20.0000	18.031	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	5967			32.70- 92.70	60.53
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	6652	20.0000	17.246	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	8234			89.66- 149.66	123.78
4.921	4.921 (1.038)	41	5762			35.66- 95.66	86.62
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	8748	20.0000	16.407	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	5796			33.85- 93.85	66.26
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	7882	20.0000	17.253	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	8188			75.43- 135.43	103.88
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	23668	20.0000	17.426	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	8596			3.74- 63.74	36.32
5.326	5.326 (1.124)	41	7193			0.00- 57.60	30.39
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	13369	20.0000	16.151	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	3286			0.00- 54.57	24.58
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	8412	20.0000	16.115	80.00- 120.00	100.00(a)
5.452	5.452 (1.151)	87	1694			0.00- 53.11	20.14
5.452	5.452 (1.151)	55	2084			0.00- 55.69	24.77
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	6726	20.0000	17.208	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	2235			2.82- 62.82	33.23
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	5357	20.0000	18.546	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	8575			135.26- 195.26	160.07
5.564	5.564 (0.952)	100	1536			2.82- 62.82	28.67
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	7175	20.0000	18.173	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.096	6.096 (1.043)	130	6546			62.46- 122.46	91.23
6.082	6.082 (1.041)	97	4589			34.46- 94.46	63.96
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	8971	20.0000	17.776	80.00- 120.00	100.00(a)
6.194	6.194 (1.060)	98	4048			18.08- 78.08	45.12
6.194	6.194 (1.060)	55	8208			54.72- 114.72	91.49
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	5186	20.0000	17.013	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	3735			42.01- 102.01	72.02
6.404	6.404 (1.096)	41	3184			29.49- 89.49	61.40
136 1,4-Dioxane					CAS #: 123-91-1		
6.544	6.544 (1.120)	88	2771	20.0000	18.181	80.00- 120.00	100.00(a)
6.544	6.544 (1.120)	58	2276			47.39- 107.39	82.14
6.530	6.530 (1.117)	57	972			0.00- 56.09	35.08
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	10210	20.0000	16.727	80.00- 120.00	100.00
6.739	6.739 (1.153)	85	6356			32.69- 92.69	62.25
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.341	7.341 (1.256)	75	6965	20.0000	17.009	80.00- 120.00	100.00
7.341	7.341 (1.256)	77	2192			0.72- 60.72	31.47
7.341	7.341 (1.256)	39	4453			28.06- 88.06	63.93
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.579	7.579 (1.297)	85	1538	20.0000	15.744	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	12167			626.49- 686.49	791.09
7.565	7.565 (1.294)	58	4310			241.15- 301.15	280.23
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	16062	20.0000	16.762	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	9737			28.28- 88.28	60.62
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.307	8.307 (0.846)	75	4085	20.0000	15.600	80.00- 120.00	100.00
8.307	8.307 (0.846)	77	1412			3.40- 63.40	34.57
8.293	8.293 (0.845)	39	3393			26.11- 86.11	83.06
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.628	8.628 (0.879)	97	5607	20.0000	17.880	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	3400			31.77- 91.77	60.64
8.614	8.614 (0.877)	83	5326			59.52- 119.52	94.99

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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  156 Tetrachloroethene                              CAS #: 127-18-4
  8.628   8.628 (0.879)   166      7086 20.0000   17.898  80.00- 120.00   100.00
  8.628   8.628 (0.879)   129      5364                   46.35- 106.35    75.70
  8.628   8.628 (0.879)   131      5245                   44.43- 104.43    74.02
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  9.006   9.006 (0.917)    58      4346 20.0000   17.194  80.00- 120.00   100.00(a)
  9.006   9.006 (0.917)    43      7780                  150.37- 210.37   179.02
  9.006   9.006 (0.917)   100       872                    0.00-  49.21    20.06
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  9.160   9.160 (0.933)   129      9170 20.0000   17.643  80.00- 120.00   100.00
  9.160   9.160 (0.933)   127      7160                   47.05- 107.05    78.08
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  9.300   9.300 (0.947)   107      7899 20.0000   18.083  80.00- 120.00   100.00
  9.300   9.300 (0.947)   109      7549                   66.34- 126.34    95.57
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  9.860   9.860 (1.004)   112     12953 20.0000   18.329  80.00- 120.00   100.00
  9.860   9.860 (1.004)   114      4080                    1.70-  61.70    31.50
  9.846   9.846 (1.003)    77     10270                   32.92-  92.92    79.29
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  9.958   9.958 (1.014)   106      6587 20.0000   17.183  80.00- 120.00   100.00
  9.958   9.958 (1.014)    91     21787                  302.14- 362.14   330.76
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
 10.084  10.084 (1.027)   106      8148 20.0000   17.775  80.00- 120.00   100.00
 10.084  10.084 (1.027)    91     17243                  180.25- 240.25   211.62
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
 10.461  10.461 (1.066)   106      7673 20.0000   18.457  80.00- 120.00   100.00
 10.461  10.461 (1.066)    91     17454                  199.46- 259.46   227.47
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
 10.489  10.489 (1.068)   104     11809 20.0000   18.210  80.00- 120.00   100.00
 10.489  10.489 (1.068)    78      6860                   27.66-  87.66    58.09
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
 10.671  10.671 (1.087)   173      8102 20.0000   17.374  80.00- 120.00   100.00(a)
 10.671  10.671 (1.087)   171      4343                   22.21-  82.21    53.60
-------------------------------------------------------------------------------
  175 Cumene                                         CAS #: 98-82-8
 10.783  10.783 (1.098)   105     22734 20.0000   17.443  80.00- 120.00   100.00(a)
 10.783  10.783 (1.098)   120      5696                    0.00-  55.22    25.05
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
10.769	10.769 (1.097)	51	2994			0.00- 41.79	13.17
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	9811	20.0000	17.099	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	6261			32.79- 92.79	63.82
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	28053	20.0000	17.119	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	6082			0.00- 50.77	21.68
11.105	11.105 (1.131)	105	1163			0.00- 33.59	4.15
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	21644	20.0000	17.074	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	6260			0.00- 57.71	28.92
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	19411	20.0000	17.475	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	8809			15.95- 75.95	45.38
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	17449	20.0000	17.071	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	7082			13.66- 73.66	40.59
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	11022	20.0000	16.877	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	6971			32.83- 92.83	63.25
11.707	11.707 (1.192)	111	4859			14.66- 74.66	44.08
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	11205	20.0000	16.871	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	7342			32.12- 92.12	65.52
11.763	11.763 (1.198)	111	4590			13.33- 73.33	40.96
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	8767	20.0000	14.977	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	1931			0.00- 49.13	22.03
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	9546	20.0000	15.809	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	6258			33.72- 93.72	65.56
11.986	11.986 (1.221)	111	4512			16.61- 76.61	47.27
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.854	12.854 (1.309)	180	3865	20.0000	13.233	80.00- 120.00	100.00(a)
12.854	12.854 (1.309)	182	3925			64.47- 124.47	101.55

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.896	12.896	(1.314)	225	3308	20.0000	13.263	80.00- 120.00	100.00(a)
12.896	12.896	(1.314)	223	2139			34.58- 94.58	64.66

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091004.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 3
Level: LOW
Sample Type: AIR

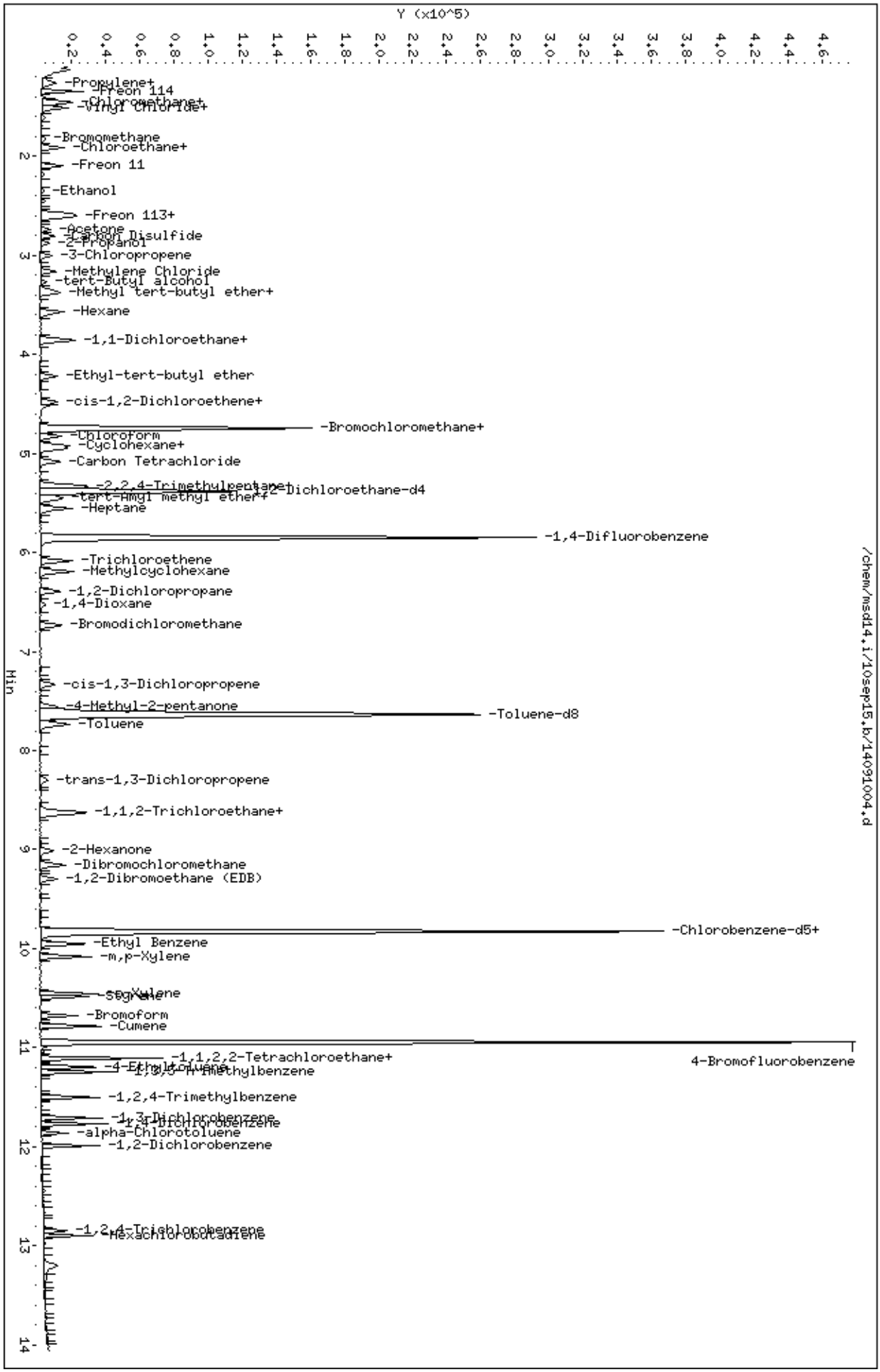
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	54388	2.70
123 1,4-Difluorobenze	240311	144187	336435	245284	2.07
163 Chlorobenzene-d5	202929	121757	284101	203072	0.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091004.d
Date : 10-SEP-2015 10:05
Client ID: ICAL Level 3
Sample Info: 5.0ml #2736-173
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091005.d
Lab Smp Id: ICAL Level 4 Client Smp ID: ICAL Level 4
Inj Date : 10-SEP-2015 10:55
Operator : mjs Inst ID: msd14.i
Smp Info : 12.5ml #2736-173
Misc Info : 50ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 10:55 Cal File: 14091005.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	53779	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	42518			48.38- 108.38	79.06
4.739	4.739 (1.000)	49	84072			122.49- 182.49	156.33
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	246604	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	42324			0.00- 47.28	17.16
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	208530	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	130391			33.96- 93.96	62.53
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	95049	400.000	411.63	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	47680			22.50- 82.50	50.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	259763	400.000	398.60	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	30906			0.00- 42.36	11.90
7.635	7.635 (1.306)	100	167750			36.13- 96.13	64.58
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	116328	400.000	391.62	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	165878			113.45- 173.45	142.60
10.951	10.951 (1.115)	176	114117			68.10- 128.10	98.10
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	7142	50.0000	48.657	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	5559			35.71- 95.71	77.84
1.241	1.241 (0.262)	39	5728			44.83- 104.83	80.20
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	27178	50.0000	45.031	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	8859			1.94- 61.94	32.60
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	16978	50.0000	44.464	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	5493			2.09- 62.09	32.35
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	10489	50.0000	50.823	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	3220			1.48- 61.48	30.70
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	2532	50.0000	48.129	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	15649			577.93- 637.93	618.05
25 Vinyl Chloride					CAS #: 75-01-4		
1.521	1.521 (0.321)	62	10581	50.0000	45.866	80.00- 120.00	100.00
1.521	1.521 (0.321)	64	3295			1.45- 61.45	31.14
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	7813	50.0000	41.809	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	9123			71.31- 131.31	116.77
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	6830	50.0000	43.117	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	6367			64.67- 124.67	93.22
1.814	1.814 (0.383)	79	1235			0.00- 47.98	18.08
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	5405	50.0000	49.773	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	1809			1.09- 61.09	33.47
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	12137	50.0000	48.550	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	9247			42.08- 102.08	76.19
1.912	1.912 (0.404)	72	1167			0.00- 38.91	9.62
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	27390	50.0000	46.481	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	17494			34.26- 94.26	63.87
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	5099	50.0000	48.129	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	1130			0.00- 52.18	22.16
2.360	2.360 (0.498)	46	1881			11.33- 71.33	36.89
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	15427	50.0000	43.860	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	9582			33.38- 93.38	62.11
2.584	2.584 (0.545)	101	21963			106.88- 166.88	142.37
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	19295	50.0000	44.653	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	11013			24.64- 84.64	57.08
2.612	2.612 (0.551)	98	6724			4.54- 64.54	34.85
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	5659	50.0000	48.645	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	18532			297.27- 357.27	327.48
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	29603	50.0000	44.645	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	17249	50.0000	48.388	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	3315			0.00- 50.08	19.22
2.878	2.878 (0.607)	59	540			0.00- 33.79	3.13
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	4326	50.0000	45.702	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	11330			228.46- 288.46	261.90
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	13587	50.0000	43.972	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	10495			42.33- 102.33	77.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.172	3.172 (0.669)	51	4296			1.58- 61.58	31.62
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.269	3.269 (0.690)	59	11595	50.0000	45.109	80.00- 120.00	100.00
3.269	3.269 (0.690)	41	2336			0.00- 49.77	20.15
3.269	3.269 (0.690)	57	1714			0.00- 40.69	14.78
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	21003	50.0000	46.048	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	5212			0.00- 54.23	24.82
3.353	3.353 (0.708)	41	4672			0.00- 52.85	22.24
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	10789	50.0000	44.280	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	16241			124.68- 184.68	150.53
3.381	3.381 (0.714)	98	7207			31.63- 91.63	66.80
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	18726	50.0000	43.955	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	12200			29.53- 89.53	65.15
3.577	3.577 (0.755)	86	2960			0.00- 47.08	15.81
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	20186	50.0000	44.860	80.00- 120.00	100.00
3.857	3.857 (0.814)	65	6492			1.34- 61.34	32.16
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	36555	50.0000	47.276	80.00- 120.00	100.00
3.857	3.857 (0.814)	87	9160			0.00- 55.21	25.06
3.857	3.857 (0.814)	59	4485			0.00- 41.77	12.27
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	25283	50.0000	45.749	80.00- 120.00	100.00
4.221	4.221 (0.891)	87	9488			7.67- 67.67	37.53
4.221	4.221 (0.891)	41	5125			0.00- 47.51	20.27
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	16121	50.0000	46.148	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	11445			40.63- 100.63	70.99
4.487	4.487 (0.947)	98	7061			13.70- 73.70	43.80
92 2-Butanone					CAS #: 78-93-3		
4.529	4.529 (0.956)	72	4547	50.0000	46.868	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	20130			377.26- 437.26	442.71
4.529	4.529 (0.956)	57	1853			5.15- 65.15	40.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
4.739	4.739 (1.000)	42	13001	50.0000	40.893	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	4911			10.11- 70.11	37.77
4.739	4.739 (1.000)	72	5016			11.95- 71.95	38.58
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	24129	50.0000	45.864	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	14775			32.70- 92.70	61.23
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	15525	50.0000	42.690	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	19519			89.66- 149.66	125.73
4.921	4.921 (1.038)	41	11161			35.66- 95.66	71.89
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	23812	50.0000	46.285	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	14770			33.85- 93.85	62.03
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	19745	50.0000	45.128	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	20946			75.43- 135.43	106.08
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	58733	50.0000	45.148	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	20514			3.74- 63.74	34.93
5.326	5.326 (1.124)	41	16259			0.00- 57.60	27.68
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	33652	50.0000	42.045	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	8095			0.00- 54.57	24.06
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	23159	50.0000	46.458	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	5168			0.00- 53.11	22.32
5.452	5.452 (1.151)	55	6531			0.00- 55.69	28.20
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	16626	50.0000	44.000	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	5324			2.82- 62.82	32.02
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	12576	50.0000	44.804	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	20356			135.26- 195.26	161.86
5.564	5.564 (0.952)	100	4119			2.82- 62.82	32.75
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	16943	50.0000	44.304	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.082	6.082 (1.041)	130	15538			62.46- 122.46	91.71
6.082	6.082 (1.041)	97	11340			34.46- 94.46	66.93
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	21248	50.0000	43.650	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	10496			18.08- 78.08	49.40
6.194	6.194 (1.060)	55	18373			54.72- 114.72	86.47
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	13468	50.0000	45.318	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	9160			42.01- 102.01	68.01
6.390	6.390 (1.093)	41	8142			29.49- 89.49	60.45
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	7413	50.0000	48.907	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	5617			47.39- 107.39	75.77
6.530	6.530 (1.117)	57	2007			0.00- 56.09	27.07
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	26273	50.0000	44.408	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	16403			32.69- 92.69	62.43
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.341	7.341 (1.256)	75	18557	50.0000	46.212	80.00- 120.00	100.00
7.341	7.341 (1.256)	77	5779			0.72- 60.72	31.14
7.327	7.327 (1.254)	39	11003			28.06- 88.06	59.29
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	4331	50.0000	45.439	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	26274			626.49- 686.49	606.65
7.565	7.565 (1.294)	58	10067			241.15- 301.15	232.44
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	41929	50.0000	44.978	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	23767			28.28- 88.28	56.68
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	13481	50.0000	50.100	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	4649			3.40- 63.40	34.49
8.293	8.293 (0.845)	39	7607			26.11- 86.11	56.43
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	13728	50.0000	44.263	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	8531			31.77- 91.77	62.14
8.614	8.614 (0.877)	83	12541			59.52- 119.52	91.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	17685	50.0000	44.962	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	12757			46.35- 106.35	72.13
8.628	8.628 (0.879)	131	12769			44.43- 104.43	72.20
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	11989	50.0000	47.395	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	21400			150.37- 210.37	178.50
9.006	9.006 (0.917)	100	2187			0.00- 49.21	18.24
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	23103	50.0000	44.790	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	18035			47.05- 107.05	78.06
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	20432	50.0000	46.587	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	19111			66.34- 126.34	93.53
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	30859	50.0000	44.176	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	10073			1.70- 61.70	32.64
9.860	9.860 (1.004)	77	21720			32.92- 92.92	70.38
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.014)	106	15994	50.0000	42.627	80.00- 120.00	100.00
9.958	9.958 (1.014)	91	53855			302.14- 362.14	336.72
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	18227	50.0000	41.035	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	41078			180.25- 240.25	225.37
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	18238	50.0000	44.335	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	41511			199.46- 259.46	227.61
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	28741	50.0000	44.688	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	15993			27.66- 87.66	55.65
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	21617	50.0000	46.267	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	10864			22.21- 82.21	50.26
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	57782	50.0000	44.700	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	14403			0.00- 55.22	24.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
10.769	10.769 (1.097)	51	6624			0.00- 41.79	11.46
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	26456	50.0000	46.076	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	16481			32.79- 92.79	62.30
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	69746	50.0000	43.299	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	14611			0.00- 50.77	20.95
11.105	11.105 (1.131)	105	2625			0.00- 33.59	3.76
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	55112	50.0000	44.024	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	15756			0.00- 57.71	28.59
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	48062	50.0000	43.861	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	22318			15.95- 75.95	46.44
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	43971	50.0000	43.662	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	19134			13.66- 73.66	43.52
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	28333	50.0000	43.952	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	18133			32.83- 92.83	64.00
11.707	11.707 (1.192)	111	11925			14.66- 74.66	42.09
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	27120	50.0000	41.911	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	17072			32.12- 92.12	62.95
11.763	11.763 (1.198)	111	11939			13.33- 73.33	44.02
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	27266	50.0000	46.438	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	4979			0.00- 49.13	18.26
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	25570	50.0000	43.128	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	15894			33.72- 93.72	62.16
11.986	11.986 (1.221)	111	11865			16.61- 76.61	46.40
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.854	12.854 (1.309)	180	15892	50.0000	51.953	80.00- 120.00	100.00
12.854	12.854 (1.309)	182	14884			64.47- 124.47	93.66

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.896	12.896	(1.314)	225	14345	50.0000	53.853	80.00- 120.00	100.00
12.896	12.896	(1.314)	223	9142			34.58- 94.58	63.73
228 Naphthalene						CAS #: 91-20-3		
12.980	12.980	(1.322)	128	3746	5.00000	4.746	80.00- 120.00	100.00(a)
12.980	12.980	(1.322)	127	592			0.00- 42.78	15.80

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091005.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 4
Level: LOW
Sample Type: AIR

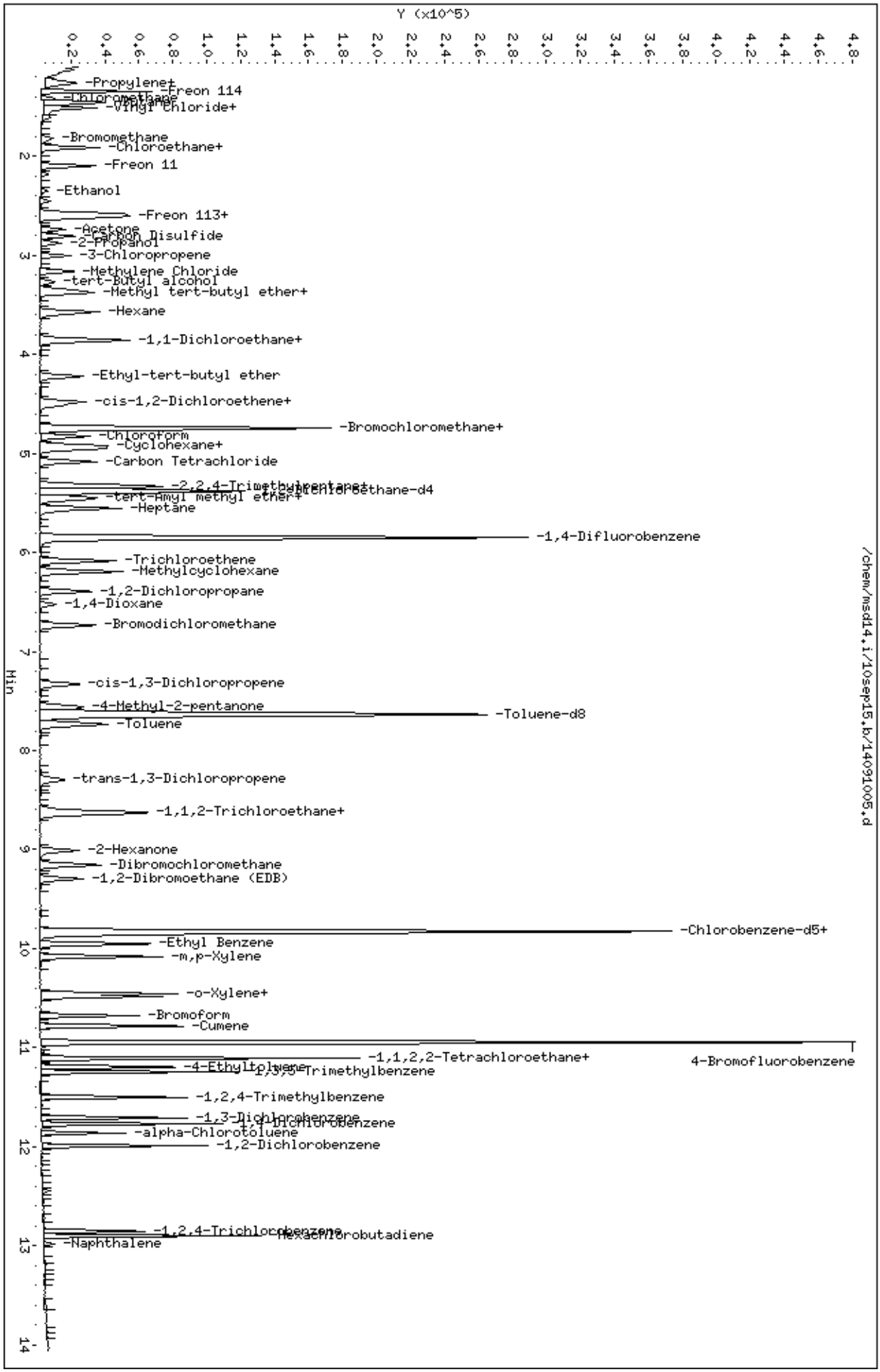
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	53779	1.55
123 1,4-Difluorobenze	240311	144187	336435	246604	2.62
163 Chlorobenzene-d5	202929	121757	284101	208530	2.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091005.d
Date : 10-SEP-2015 10:55
Client ID: ICAL Level 4
Sample Info: 12.5ml #2736-173
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091018.d
Lab Smp Id: ICAL 5 Client Smp ID: Level 5
Inj Date : 10-SEP-2015 19:26
Operator : gh Inst ID: msd14.i
Smp Info : 25ml #2736-197
Misc Info : 100ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:41 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 19:26 Cal File: 14091018.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1curve.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	51827	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40039			48.38- 108.38	77.26
4.739	4.739 (1.000)	49	80198			122.49- 182.49	154.74
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	235337	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40016			0.00- 47.28	17.00
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	199962	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	126386			33.96- 93.96	63.21
6 Freon 143a					CAS #: 420-46-2		
1.157	1.157 (0.244)	69	27586	100.000	108.18	80.00- 120.00	100.00
1.157	1.157 (0.244)	65	9906			0.00- 30.00	35.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
7 Freon 134a					CAS #: 811-97-2		
1.199	1.199 (0.253)	83	19659	100.000	98.670	80.00- 120.00	100.00
1.199	1.199 (0.253)	69	18353			0.00- 30.00	93.36
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.241	1.241 (0.262)	65	10853	100.000	108.46	80.00- 120.00	100.00
1.241	1.241 (0.262)	51	18952			0.00- 30.00	174.62
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.283	1.283 (0.271)	67	5321	100.000	110.48	80.00- 120.00	100.00
1.283	1.283 (0.271)	51	37466			0.00- 30.00	704.12
16 Freon 142b					CAS #: 75-68-3		
1.381	1.381 (0.291)	65	45665	100.000	104.43	80.00- 120.00	100.00
1.381	1.381 (0.291)	45	12917			0.00- 30.00	28.29
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.108	2.108 (0.445)	67	47331	100.000	106.11	80.00- 120.00	100.00(T)
2.108	2.108 (0.445)	69	15056			0.00- 30.00	31.81
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
48 Freon 123					CAS #: 306-83-2		
2.542	2.542 (0.536)	83	48544	100.000	105.17	80.00- 120.00	100.00
2.542	2.542 (0.536)	133	9336			0.00- 30.00	19.23
2.542	2.542 (0.536)	85	32377			0.00- 30.00	66.70
59 Cyclopentene					CAS #: 142-29-0		
3.018	3.018 (0.637)	67	31048	100.000	104.59	80.00- 120.00	100.00
3.018	3.018 (0.637)	68	12136			0.00- 30.00	39.09
3.018	3.018 (0.637)	53	6420			0.00- 30.00	20.68
84 1-Propanol					CAS #: 71-23-8		
4.025	4.025 (0.849)	42	3903	100.000	105.56	80.00- 120.00	100.00
4.025	4.025 (0.849)	59	4715			0.00- 30.00	120.80
4.011	4.011 (0.846)	41	2719			0.00- 30.00	69.66
90 2,2-Dichloropropane					CAS #: 594-20-7		
4.431	4.431 (0.935)	77	15674	100.000	141.09	80.00- 120.00	100.00
4.431	4.431 (0.935)	79	5086			0.00- 30.00	32.45
4.431	4.431 (0.935)	97	3324			0.00- 30.00	21.21
107 1,1-Dichloropropene					CAS #: 563-58-6		
5.130	5.130 (1.083)	110	8693	100.000	106.45	80.00- 120.00	100.00
5.130	5.130 (1.083)	75	26083			0.00- 30.00	300.05
115 Isobutanol					CAS #: 78-83-1		
5.368	5.368 (0.919)	43	20087	100.000	96.785	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
115 Isobutanol (continued)							
5.368	5.368 (0.919)	41	15235			0.00- 30.00	75.85
124 n-Butanol					CAS #: 71-36-3		
6.110	6.110 (1.045)	56	32260	100.000	107.81	80.00- 120.00	100.00
6.110	6.110 (1.045)	41	21736			0.00- 30.00	67.38
6.110	6.110 (1.045)	43	17494			0.00- 30.00	54.23
157 1,3-Dichloropropane					CAS #: 142-28-9		
8.894	8.894 (1.877)	76	40921	100.000	107.15	80.00- 120.00	100.00
8.894	8.894 (1.877)	41	25109			0.00- 30.00	61.36
8.894	8.894 (1.877)	78	12647			0.00- 30.00	30.91
159 Butyl Acetate					CAS #: 123-86-4		
9.174	9.174 (1.570)	56	9400	100.000	107.85	80.00- 120.00	100.00
9.174	9.174 (1.570)	73	3624			0.00- 30.00	38.55
9.174	9.174 (1.570)	43	19872			0.00- 30.00	211.40
168 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.972	9.972 (1.016)	131	32357	100.000	102.59	80.00- 120.00	100.00
9.972	9.972 (1.016)	117	22693			0.00- 30.00	70.13
9.972	9.972 (1.016)	95	14138			0.00- 30.00	43.69
173 2-Heptanone					CAS #: 110-43-0		
10.629	10.629 (1.083)	58	47016	100.000	112.72	80.00- 120.00	100.00
10.629	10.629 (1.083)	43	71555			0.00- 30.00	152.19
176 Cyclohexanone					CAS #: 108-94-1		
10.909	10.909 (1.111)	55	30928	100.000	101.72	80.00- 120.00	100.00
10.909	10.909 (1.111)	98	11976			0.00- 30.00	38.72
10.909	10.909 (1.111)	42	20865			0.00- 30.00	67.46
180 Bromobenzene					CAS #: 108-86-1		
11.049	11.049 (1.125)	156	32174	100.000	101.03	80.00- 120.00	100.00
11.035	11.035 (1.124)	77	63523			0.00- 30.00	197.44
11.049	11.049 (1.125)	158	31101			0.00- 30.00	96.67
185 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.133	11.133 (1.134)	110	19840	100.000	109.54	80.00- 120.00	100.00
11.133	11.133 (1.134)	61	14904			0.00- 30.00	75.12
11.133	11.133 (1.134)	112	12405			0.00- 30.00	62.53
189 2-Chlorotoluene					CAS #: 95-49-8		
11.189	11.189 (1.140)	126	26068	100.000	103.00	80.00- 120.00	100.00
11.189	11.189 (1.140)	91	88083			0.00- 30.00	337.90
11.189	11.189 (1.140)	65	8675			0.00- 30.00	33.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
191 4-Chlorotoluene					CAS #: 106-43-4		
11.273	11.273 (1.148)	126	26623	100.000	101.76	80.00- 120.00	100.00
11.273	11.273 (1.148)	91	89064			0.00- 30.00	334.54
11.273	11.273 (1.148)	63	13547			0.00- 30.00	50.88
195 tert-Butylbenzene					CAS #: 98-06-6		
11.469	11.469 (1.168)	119	87240	100.000	103.82	80.00- 120.00	100.00
11.469	11.469 (1.168)	134	21357			0.00- 30.00	24.48
11.455	11.455 (1.167)	91	65580			0.00- 30.00	75.17
197 Pentachloroethane					CAS #: 76-01-7		
11.511	11.511 (1.172)	167	25339	100.000	110.34	80.00- 120.00	100.00
11.511	11.511 (1.172)	117	27632			0.00- 30.00	109.05
203 sec-Butylbenzene					CAS #: 135-98-8		
11.609	11.609 (1.182)	105	139643	100.000	105.46	80.00- 120.00	100.00
11.609	11.609 (1.182)	134	27159			0.00- 30.00	19.45
11.609	11.609 (1.182)	91	22858			0.00- 30.00	16.37
207 p-Cymene					CAS #: 99-87-6		
11.707	11.707 (1.192)	119	109924	100.000	106.77	80.00- 120.00	100.00
11.707	11.707 (1.192)	134	28452			0.00- 30.00	25.88
11.693	11.693 (1.191)	91	28447			0.00- 30.00	25.88
210 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.776	11.776 (1.200)	120	43481	100.000	104.50	80.00- 120.00	100.00
11.776	11.776 (1.200)	105	108536			0.00- 30.00	249.62
11.776	11.776 (1.200)	77	14578			0.00- 30.00	33.53
213 Butylbenzene					CAS #: 104-51-8		
11.944	11.944 (1.217)	134	26716	100.000	106.69	80.00- 120.00	100.00
11.944	11.944 (1.217)	91	117753			0.00- 30.00	440.76
11.944	11.944 (1.217)	92	64501			0.00- 30.00	241.43
221 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.434	12.434 (1.266)	157	24467	100.000	107.34	80.00- 120.00	100.00
12.434	12.434 (1.266)	75	27260			0.00- 30.00	111.42
12.434	12.434 (1.266)	155	19623			0.00- 30.00	80.20

QC Flag Legend

T - Target compound detected outside RT window.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091018.d
Lab Smp Id: ICAL 5
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	51827	-2.13
123 1,4-Difluorobenze	240311	144187	336435	235337	-2.07
163 Chlorobenzene-d5	202929	121757	284101	199962	-1.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	0.00

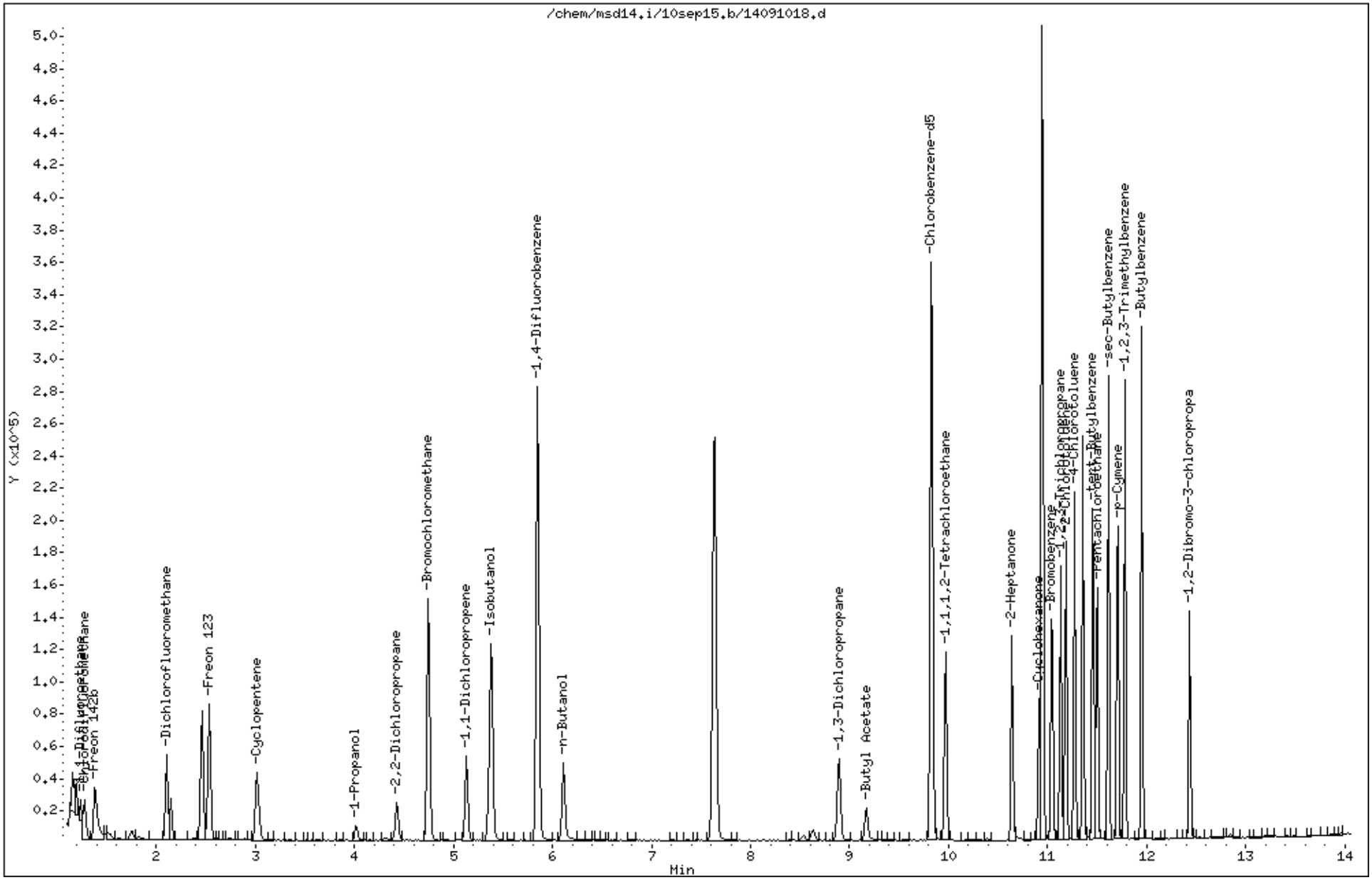
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd14.i/10sep15.b/14091018.d
Date : 10-SEP-2015 19:26
Client ID: Level 5
Sample Info: 25ml #2736-197

Column phase: RTX-624

Instrument: msd14.i

Operator: gh
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091006.d
Lab Smp Id: ICAL Level 5 Client Smp ID: ICAL Level 5
Inj Date : 10-SEP-2015 11:21
Operator : mjs Inst ID: msd14.i
Smp Info : 25ml #2736-173
Misc Info : 100ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 11:21 Cal File: 14091006.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	52717	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	41519			48.38- 108.38	78.76
4.739	4.739 (1.000)	49	80010			122.49- 182.49	151.77
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	241063	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40072			0.00- 47.28	16.62
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	203875	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	129906			33.96- 93.96	63.72
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	91429	400.000	403.27	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	45876			22.50- 82.50	50.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	257037	400.000	402.89	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	30590			0.00- 42.36	11.90
7.635	7.635 (1.306)	100	165907			36.13- 96.13	64.55
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	118221	400.000	405.88	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	170791			113.45- 173.45	144.47
10.951	10.951 (1.115)	176	113205			68.10- 128.10	95.76
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	16421	100.000	110.23	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	11137			35.71- 95.71	67.82
1.227	1.227 (0.259)	39	13114			44.83- 104.83	79.86
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	61738	100.000	103.45	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	20395			1.94- 61.94	33.03
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	38648	100.000	102.59	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	12013			2.09- 62.09	31.08
17 Chloromethane					CAS #: 74-87-3		
1.422	1.422 (0.300)	50	22105	100.000	106.79	80.00- 120.00	100.00
1.422	1.422 (0.300)	52	6937			1.48- 61.48	31.38
23 Butane					CAS #: 106-97-8		
1.478	1.478 (0.312)	58	5729	100.000	108.10	80.00- 120.00	100.00
1.464	1.464 (0.309)	43	34076			577.93- 637.93	594.80
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	23870	100.000	104.39	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	7860			1.45- 61.45	32.93
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	17863	100.000	98.001	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	19795			71.31- 131.31	110.82
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	16910	100.000	107.00	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	15484			64.67- 124.67	91.57
1.814	1.814 (0.383)	79	3204			0.00- 47.98	18.95
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	12369	100.000	111.67	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	3682			1.09- 61.09	29.77
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	27395	100.000	108.59	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	20935			42.08- 102.08	76.42
1.912	1.912 (0.404)	72	2412			0.00- 38.91	8.80
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	61509	100.000	105.12	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	40521			34.26- 94.26	65.88
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	11902	100.000	110.57	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	2762			0.00- 52.18	23.21
2.360	2.360 (0.498)	46	4816			11.33- 71.33	40.46
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	36333	100.000	104.26	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	23366			33.38- 93.38	64.31
2.584	2.584 (0.545)	101	51044			106.88- 166.88	140.49
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	44260	100.000	103.56	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	25823			24.64- 84.64	58.34
2.612	2.612 (0.551)	98	15847			4.54- 64.54	35.80
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	12978	100.000	110.01	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	41786			297.27- 357.27	321.98
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.592)	76	70133	100.000	106.22	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	40668	100.000	111.80	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	8503			0.00- 50.08	20.91
2.878	2.878 (0.607)	59	1870			0.00- 33.79	4.60
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	10890	100.000	112.48	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	28798			228.46- 288.46	264.44
66 Methylene Chloride					CAS #: 75-09-2		
3.157	3.157 (0.666)	49	30672	100.000	101.01	80.00- 120.00	100.00
3.157	3.157 (0.666)	84	21732			42.33- 102.33	70.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.157	3.157 (0.666)	51	9476			1.58- 61.58	30.89
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.269	3.269 (0.690)	59	30778	100.000	115.74	80.00- 120.00	100.00
3.269	3.269 (0.690)	41	5871			0.00- 49.77	19.08
3.269	3.269 (0.690)	57	3440			0.00- 40.69	11.18
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	52184	100.000	112.94	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	12602			0.00- 54.23	24.15
3.353	3.353 (0.708)	41	11890			0.00- 52.85	22.78
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	24273	100.000	101.30	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	38318			124.68- 184.68	157.86
3.381	3.381 (0.714)	98	16054			31.63- 91.63	66.14
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	41825	100.000	100.12	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	25475			29.53- 89.53	60.91
3.577	3.577 (0.755)	86	7120			0.00- 47.08	17.02
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	85540	100.000	109.34	80.00- 120.00	100.00
3.857	3.857 (0.814)	87	21756			0.00- 55.21	25.43
3.843	3.843 (0.811)	59	10209			0.00- 41.77	11.93
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	47884	100.000	106.73	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	14903			1.34- 61.34	31.12
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	64174	100.000	113.23	80.00- 120.00	100.00
4.221	4.221 (0.891)	87	24885			7.67- 67.67	38.78
4.221	4.221 (0.891)	41	10872			0.00- 47.51	16.94
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	36904	100.000	106.12	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	26691			40.63- 100.63	72.33
4.487	4.487 (0.947)	98	16878			13.70- 73.70	45.73
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	12112	100.000	119.21	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	48913			377.26- 437.26	403.84
4.515	4.515 (0.953)	57	4095			5.15- 65.15	33.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	28850	100.000	93.968	80.00- 120.00	100.00
4.739	4.739 (1.000)	71	11246			10.11- 70.11	38.98
4.725	4.725 (0.997)	72	12511			11.95- 71.95	43.37
100 Chloroform					CAS #: 67-66-3		
4.822	4.822 (1.018)	83	55418	100.000	105.88	80.00- 120.00	100.00
4.822	4.822 (1.018)	85	34437			32.70- 92.70	62.14
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	36557	100.000	102.03	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	45646			89.66- 149.66	124.86
4.920	4.920 (1.038)	41	24567			35.66- 95.66	67.20
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	55459	100.000	107.82	80.00- 120.00	100.00
4.948	4.948 (1.044)	99	35074			33.85- 93.85	63.24
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	50544	100.000	113.79	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	52248			75.43- 135.43	103.37
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	135160	100.000	104.74	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	46302			3.74- 63.74	34.26
5.326	5.326 (1.124)	41	38345			0.00- 57.60	28.37
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	77465	100.000	99.174	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	19156			0.00- 54.57	24.73
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	57071	100.000	112.09	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	13520			0.00- 53.11	23.69
5.452	5.452 (1.151)	55	14957			0.00- 55.69	26.21
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	39754	100.000	106.01	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	12717			2.82- 62.82	31.99
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	28525	100.000	103.14	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	48452			135.26- 195.26	169.86
5.564	5.564 (0.952)	100	9464			2.82- 62.82	33.18
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	38085	100.000	101.50	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.082	6.082 (1.041)	130	35860			62.46- 122.46	94.16
6.082	6.082 (1.041)	97	24618			34.46- 94.46	64.64
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	47486	100.000	99.835	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	23680			18.08- 78.08	49.87
6.194	6.194 (1.060)	55	41717			54.72- 114.72	87.85
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	30491	100.000	103.92	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	21688			42.01- 102.01	71.13
6.404	6.404 (1.096)	41	18492			29.49- 89.49	60.65
136 1,4-Dioxane					CAS #: 123-91-1		
6.529	6.529 (1.117)	88	17561	100.000	113.28	80.00- 120.00	100.00
6.529	6.529 (1.117)	58	13334			47.39- 107.39	75.93
6.529	6.529 (1.117)	57	4436			0.00- 56.09	25.26
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	60112	100.000	103.13	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	37673			32.69- 92.69	62.67
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.341	7.341 (1.256)	75	45751	100.000	112.82	80.00- 120.00	100.00
7.341	7.341 (1.256)	77	14729			0.72- 60.72	32.19
7.327	7.327 (1.254)	39	26197			28.06- 88.06	57.26
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	9939	100.000	105.27	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	61841			626.49- 686.49	622.21
7.565	7.565 (1.294)	58	26366			241.15- 301.15	265.28
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	95268	100.000	103.60	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	55389			28.28- 88.28	58.14
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.292	8.292 (0.845)	75	34816	100.000	124.30	80.00- 120.00	100.00
8.292	8.292 (0.845)	77	11494			3.40- 63.40	33.01
8.292	8.292 (0.845)	39	19014			26.11- 86.11	54.61
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	31946	100.000	104.24	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	20897			31.77- 91.77	65.41
8.614	8.614 (0.877)	83	29009			59.52- 119.52	90.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	41343	100.000	105.92	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	31620			46.35- 106.35	76.48
8.628	8.628 (0.879)	131	30003			44.43- 104.43	72.57
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	28859	100.000	112.02	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	53751			150.37- 210.37	186.25
9.006	9.006 (0.917)	100	5617			0.00- 49.21	19.46
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	55278	100.000	107.55	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	42673			47.05- 107.05	77.20
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	48805	100.000	110.76	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	45965			66.34- 126.34	94.18
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	73538	100.000	106.05	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	23411			1.70- 61.70	31.84
9.860	9.860 (1.004)	77	48131			32.92- 92.92	65.45
167 Ethyl Benzene					CAS #: 100-41-4		
9.957	9.957 (1.014)	106	37083	100.000	100.87	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	124188			302.14- 362.14	334.89
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.083 (1.027)	106	46200	100.000	105.04	80.00- 120.00	100.00
10.083	10.083 (1.027)	91	98229			180.25- 240.25	212.62
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	42654	100.000	104.79	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	96738			199.46- 259.46	226.80
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	69204	100.000	107.89	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	37483			27.66- 87.66	54.16
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	50104	100.000	107.60	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	25654			22.21- 82.21	51.20
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	137623	100.000	106.99	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	34444			0.00- 55.22	25.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
10.769	10.769 (1.097)	51	15703			0.00- 41.79	11.41
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	65576	100.000	113.02	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	41551			32.79- 92.79	63.36
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	166806	100.000	104.68	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	35039			0.00- 50.77	21.01
11.105	11.105 (1.131)	105	6030			0.00- 33.59	3.61
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	133333	100.000	107.03	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	37597			0.00- 57.71	28.20
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	115925	100.000	106.46	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	51865			15.95- 75.95	44.74
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	105392	100.000	105.55	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	46659			13.66- 73.66	44.27
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.706	11.706 (1.192)	146	68012	100.000	106.23	80.00- 120.00	100.00
11.706	11.706 (1.192)	148	43478			32.83- 92.83	63.93
11.706	11.706 (1.192)	111	29895			14.66- 74.66	43.96
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.762 (1.198)	146	65284	100.000	102.54	80.00- 120.00	100.00
11.762	11.762 (1.198)	148	42439			32.12- 92.12	65.01
11.762	11.762 (1.198)	111	28686			13.33- 73.33	43.94
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	74306	100.000	122.24	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	14389			0.00- 49.13	19.36
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	61661	100.000	105.04	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	39792			33.72- 93.72	64.53
11.986	11.986 (1.221)	111	27963			16.61- 76.61	45.35
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	29507	100.000	98.996	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	27548			64.47- 124.47	93.36

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.896	12.896	(1.314)	225	27332	100.000	103.67	80.00- 120.00	100.00
12.896	12.896	(1.314)	223	17155			34.58- 94.58	62.77
228 Naphthalene						CAS #: 91-20-3		
12.980	12.980	(1.322)	128	5863	10.0000	8.259	80.00- 120.00	100.00(a)
12.980	12.980	(1.322)	127	811			0.00- 42.78	13.83

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091006.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 5
Level: LOW
Sample Type: AIR

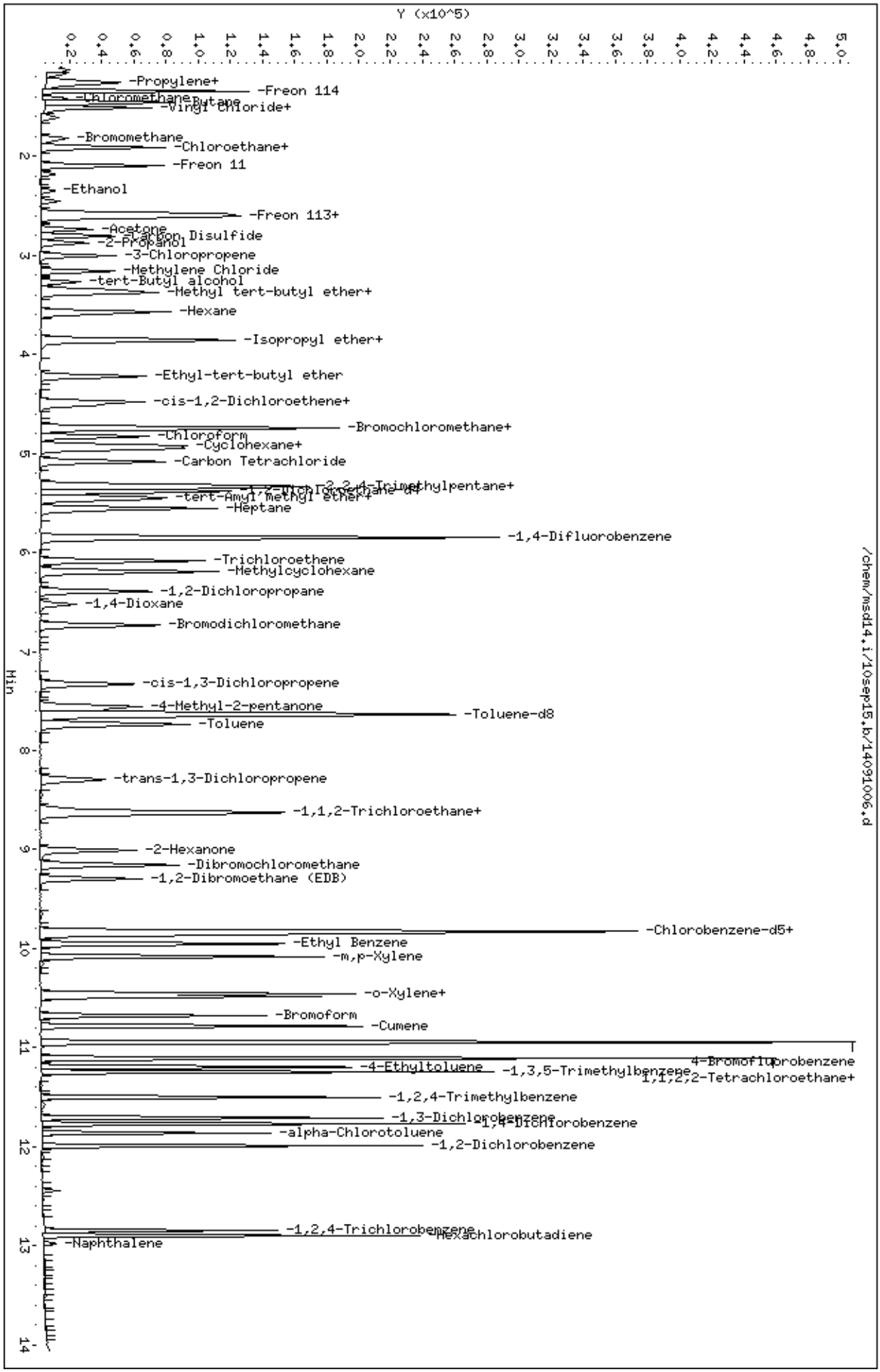
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	52717	-0.45
123 1,4-Difluorobenze	240311	144187	336435	241063	0.31
163 Chlorobenzene-d5	202929	121757	284101	203875	0.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091006.d
Date : 10-SEP-2015 11:21
Client ID: ICAL Level 5
Sample Info: 25ml #2736-173
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091019.d
Lab Smp Id: ICAL 6 Client Smp ID: Level 6
Inj Date : 10-SEP-2015 20:31
Operator : gh Inst ID: msd14.i
Smp Info : 50ml #2736-197
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:41 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT1curve.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	51057	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40622			48.38- 108.38	79.56
4.739	4.739 (1.000)	49	81919			122.49- 182.49	160.45
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	236694	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40653			0.00- 47.28	17.18
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	203470	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	128008			33.96- 93.96	62.91
6 Freon 143a					CAS #: 420-46-2		
1.157	1.157 (0.244)	69	51679	200.000	203.77	80.00- 120.00	100.00
1.157	1.157 (0.244)	65	17416			0.00- 30.00	33.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
7 Freon 134a					CAS #: 811-97-2		
1.199	1.199 (0.253)	83	36573	200.000	190.67	80.00- 120.00	100.00
1.199	1.199 (0.253)	69	36033			0.00- 30.00	98.52
10 1,1-Difluoroethane					CAS #: 75-37-6		
1.241	1.241 (0.262)	65	19806	200.000	200.61	80.00- 120.00	100.00
1.241	1.241 (0.262)	51	35547			0.00- 30.00	179.48
13 Chlorodifluoromethane					CAS #: 75-45-6		
1.283	1.283 (0.271)	67	10043	200.000	207.63	80.00- 120.00	100.00
1.283	1.283 (0.271)	51	69960			0.00- 30.00	696.60
16 Freon 142b					CAS #: 75-68-3		
1.395	1.395 (0.294)	65	86453	200.000	200.46	80.00- 120.00	100.00
1.395	1.395 (0.294)	45	23896			0.00- 30.00	27.64
37 Dichlorofluoromethane					CAS #: 75-43-4		
2.108	2.108 (0.445)	67	91063	200.000	204.76	80.00- 120.00	100.00
2.108	2.108 (0.445)	69	29487			0.00- 30.00	32.38
2.136	2.136 (0.451)	35	392			0.00- 30.00	0.43
48 Freon 123					CAS #: 306-83-2		
2.542	2.542 (0.536)	83	92033	200.000	201.60	80.00- 120.00	100.00
2.542	2.542 (0.536)	133	17713			0.00- 30.00	19.25
2.542	2.542 (0.536)	85	61139			0.00- 30.00	66.43
59 Cyclopentene					CAS #: 142-29-0		
3.018	3.018 (0.637)	67	60285	200.000	204.05	80.00- 120.00	100.00
3.018	3.018 (0.637)	68	22309			0.00- 30.00	37.01
3.018	3.018 (0.637)	53	13012			0.00- 30.00	21.58
84 1-Propanol					CAS #: 71-23-8		
4.011	4.011 (0.846)	42	8139	200.000	215.04	80.00- 120.00	100.00
4.011	4.011 (0.846)	59	9187			0.00- 30.00	112.88
4.025	4.025 (0.849)	41	6112			0.00- 30.00	75.10
90 2,2-Dichloropropane					CAS #: 594-20-7		
4.431	4.431 (0.935)	77	33119	200.000	258.42	80.00- 120.00	100.00
4.431	4.431 (0.935)	79	10456			0.00- 30.00	31.57
4.431	4.431 (0.935)	97	6324			0.00- 30.00	19.09
107 1,1-Dichloropropene					CAS #: 563-58-6		
5.130	5.130 (1.083)	110	17079	200.000	208.03	80.00- 120.00	100.00
5.130	5.130 (1.083)	75	51200			0.00- 30.00	299.78
115 Isobutanol					CAS #: 78-83-1		
5.368	5.368 (0.919)	43	40453	200.000	195.82	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
115 Isobutanol (continued)							
5.368	5.368 (0.919)	41	29891			0.00- 30.00	73.89
124 n-Butanol					CAS #: 71-36-3		
6.110	6.110 (1.045)	56	67310	200.000	215.17	80.00- 120.00	100.00
6.110	6.110 (1.045)	41	45014			0.00- 30.00	66.88
6.110	6.110 (1.045)	43	35260			0.00- 30.00	52.38
157 1,3-Dichloropropane					CAS #: 142-28-9		
8.894	8.894 (1.877)	76	75979	200.000	201.30	80.00- 120.00	100.00
8.894	8.894 (1.877)	41	49471			0.00- 30.00	65.11
8.894	8.894 (1.877)	78	24771			0.00- 30.00	32.60
159 Butyl Acetate					CAS #: 123-86-4		
9.174	9.174 (1.570)	56	18806	200.000	209.46	80.00- 120.00	100.00
9.174	9.174 (1.570)	73	7054			0.00- 30.00	37.51
9.174	9.174 (1.570)	43	43132			0.00- 30.00	229.35
168 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
9.972	9.972 (1.016)	131	61309	200.000	193.93	80.00- 120.00	100.00
9.972	9.972 (1.016)	117	42757			0.00- 30.00	69.74
9.972	9.972 (1.016)	95	26221			0.00- 30.00	42.77
173 2-Heptanone					CAS #: 110-43-0		
10.629	10.629 (1.083)	58	92355	200.000	211.40	80.00- 120.00	100.00
10.629	10.629 (1.083)	43	141460			0.00- 30.00	153.17
176 Cyclohexanone					CAS #: 108-94-1		
10.909	10.909 (1.111)	55	60162	200.000	196.27	80.00- 120.00	100.00
10.909	10.909 (1.111)	98	23321			0.00- 30.00	38.76
10.909	10.909 (1.111)	42	43198			0.00- 30.00	71.80
180 Bromobenzene					CAS #: 108-86-1		
11.049	11.049 (1.125)	156	63473	200.000	197.23	80.00- 120.00	100.00
11.035	11.035 (1.124)	77	120551			0.00- 30.00	189.92
11.049	11.049 (1.125)	158	60655			0.00- 30.00	95.56
185 1,2,3-Trichloropropane					CAS #: 96-18-4		
11.133	11.133 (1.134)	110	38830	200.000	207.00	80.00- 120.00	100.00
11.133	11.133 (1.134)	61	28280			0.00- 30.00	72.83
11.133	11.133 (1.134)	112	24313			0.00- 30.00	62.61
189 2-Chlorotoluene					CAS #: 95-49-8		
11.189	11.189 (1.140)	126	51763	200.000	200.66	80.00- 120.00	100.00
11.189	11.189 (1.140)	91	166711			0.00- 30.00	322.07
11.189	11.189 (1.140)	65	17190			0.00- 30.00	33.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
191 4-Chlorotoluene					CAS #: 106-43-4		
11.273	11.273 (1.148)	126	52401	200.000	197.88	80.00- 120.00	100.00
11.273	11.273 (1.148)	91	171875			0.00- 30.00	328.00
11.273	11.273 (1.148)	63	26533			0.00- 30.00	50.63
195 tert-Butylbenzene					CAS #: 98-06-6		
11.469	11.469 (1.168)	119	166942	200.000	196.80	80.00- 120.00	100.00
11.469	11.469 (1.168)	134	40826			0.00- 30.00	24.46
11.455	11.455 (1.167)	91	126288			0.00- 30.00	75.65
197 Pentachloroethane					CAS #: 76-01-7		
11.511	11.511 (1.172)	167	51320	200.000	212.66	80.00- 120.00	100.00
11.511	11.511 (1.172)	117	53968			0.00- 30.00	105.16
203 sec-Butylbenzene					CAS #: 135-98-8		
11.609	11.609 (1.182)	105	271479	200.000	200.99	80.00- 120.00	100.00
11.609	11.609 (1.182)	134	51253			0.00- 30.00	18.88
11.609	11.609 (1.182)	91	44058			0.00- 30.00	16.23
207 p-Cymene					CAS #: 99-87-6		
11.707	11.707 (1.192)	119	216254	200.000	204.24	80.00- 120.00	100.00
11.707	11.707 (1.192)	134	54378			0.00- 30.00	25.15
11.707	11.707 (1.192)	91	58130			0.00- 30.00	26.88
210 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
11.777	11.777 (1.200)	120	85328	200.000	201.02	80.00- 120.00	100.00
11.777	11.777 (1.200)	105	211800			0.00- 30.00	248.22
11.777	11.777 (1.200)	77	28469			0.00- 30.00	33.36
213 Butylbenzene					CAS #: 104-51-8		
11.944	11.944 (1.217)	134	53620	200.000	206.84	80.00- 120.00	100.00
11.944	11.944 (1.217)	91	236283			0.00- 30.00	440.66
11.944	11.944 (1.217)	92	126484			0.00- 30.00	235.89
221 1,2-Dibromo-3-chloropropane					CAS #: 96-12-8		
12.448	12.448 (1.268)	157	55314	200.000	224.11	80.00- 120.00	100.00
12.434	12.434 (1.266)	75	62921			0.00- 30.00	113.75
12.448	12.448 (1.268)	155	43025			0.00- 30.00	77.78

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091019.d
Lab Smp Id: ICAL 6
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 20:31
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

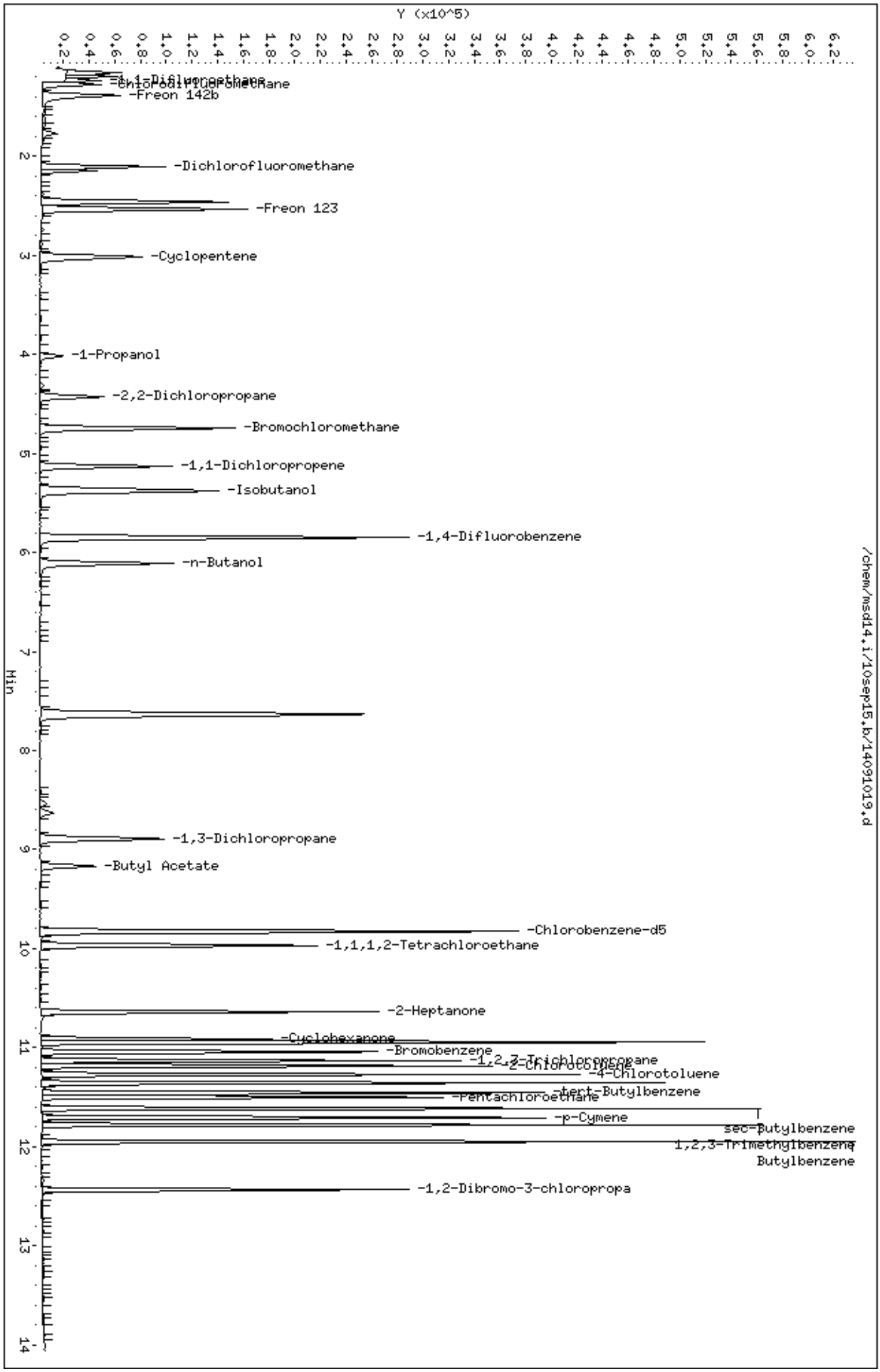
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	51057	30634	71480	51057	0.00
123 1,4-Difluorobenze	236694	142016	331372	236694	0.00
163 Chlorobenzene-d5	203470	122082	284858	203470	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091019.d
Date : 10-SEP-2015 20:31
Client ID: Level 6
Sample Info: 50ml #2736-197
Column phase: RTX-624

Instrument: msd14.i
Operator: gh
Column diameter: 0.18



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091007.d
Lab Smp Id: ICAL Level 6 Client Smp ID: ICAL Level 6
Inj Date : 10-SEP-2015 11:46
Operator : mjs Inst ID: msd14.i
Smp Info : 50ml #2736-173
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:37 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 11:46 Cal File: 14091007.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	52956	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	41509			48.38- 108.38	78.38
4.739	4.739 (1.000)	49	80751			122.49- 182.49	152.49
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	240311	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	41534			0.00- 47.28	17.28
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	202929	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	129792			33.96- 93.96	63.96
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	88453	400.000	400.00	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	46436			22.50- 82.50	52.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	256088	400.000	400.00	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	31655			0.00- 42.36	12.36
7.635	7.635 (1.306)	100	169350			36.13- 96.13	66.13
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	117719	400.000	400.00	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	168869			113.45- 173.45	143.45
10.951	10.951 (1.115)	176	115484			68.10- 128.10	98.10
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	31289	200.000	200.00	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	20560			35.71- 95.71	65.71
1.241	1.241 (0.262)	39	23412			44.83- 104.83	74.83
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	115613	200.000	200.00	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	36923			1.94- 61.94	31.94
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	72836	200.000	200.00	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	23371			2.09- 62.09	32.09
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	40623	200.000	200.00	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	12789			1.48- 61.48	31.48
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	10379	200.000	200.00	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	63097			577.93- 637.93	607.93
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	44399	200.000	200.00	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	13963			1.45- 61.45	31.45
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	34584	200.000	200.00	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	35036			71.31- 131.31	101.31
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	32230	200.000	200.00	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	30513			64.67- 124.67	94.67
1.814	1.814 (0.383)	79	5794			0.00- 47.98	17.98
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	22997	200.000	200.00	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	7149			1.09- 61.09	31.09
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	51385	200.000	200.00	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	37039			42.08- 102.08	72.08
1.912	1.912 (0.404)	72	4576			0.00- 38.91	8.91
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	117581	200.000	200.00	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	75562			34.26- 94.26	64.26
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	20739	200.000	200.00	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	4600			0.00- 52.18	22.18
2.360	2.360 (0.498)	46	8572			11.33- 71.33	41.33
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	71290	200.000	200.00	80.00- 120.00	100.00
2.598	2.598 (0.548)	153	45185			33.38- 93.38	63.38
2.584	2.584 (0.545)	101	97580			106.88- 166.88	136.88
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	84548	200.000	200.00	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	46194			24.64- 84.64	54.64
2.612	2.612 (0.551)	98	29205			4.54- 64.54	34.54
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	24213	200.000	200.00	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	79241			297.27- 357.27	327.27
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	131267	200.000	200.00	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	76627	200.000	200.00	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	15390			0.00- 50.08	20.08
2.878	2.878 (0.607)	59	2906			0.00- 33.79	3.79
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	21360	200.000	200.00	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	55207			228.46- 288.46	258.46
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	57505	200.000	200.00	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	41593			42.33- 102.33	72.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	18160			1.58- 61.58	31.58
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.269	3.269 (0.690)	59	62311	200.000	200.00	80.00- 120.00	100.00
3.269	3.269 (0.690)	41	12316			0.00- 49.77	19.77
3.269	3.269 (0.690)	57	6660			0.00- 40.69	10.69
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	110971	200.000	200.00	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	26892			0.00- 54.23	24.23
3.353	3.353 (0.708)	41	25360			0.00- 52.85	22.85
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	47081	200.000	200.00	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	72825			124.68- 184.68	154.68
3.381	3.381 (0.714)	98	29015			31.63- 91.63	61.63
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	80474	200.000	200.00	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	47908			29.53- 89.53	59.53
3.577	3.577 (0.755)	86	13747			0.00- 47.08	17.08
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	165337	200.000	200.00	80.00- 120.00	100.00
3.857	3.857 (0.814)	87	41686			0.00- 55.21	25.21
3.857	3.857 (0.814)	59	19454			0.00- 41.77	11.77
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	89541	200.000	200.00	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	28061			1.34- 61.34	31.34
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	135101	200.000	200.00	80.00- 120.00	100.00
4.235	4.235 (0.894)	87	50887			7.67- 67.67	37.67
4.221	4.221 (0.891)	41	23660			0.00- 47.51	17.51
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	72258	200.000	200.00	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	51037			40.63- 100.63	70.63
4.487	4.487 (0.947)	98	31575			13.70- 73.70	43.70
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	23587	200.000	200.00	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	96060			377.26- 437.26	407.26
4.515	4.515 (0.953)	57	8290			5.15- 65.15	35.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	55015	200.000	200.00	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	22067			10.11- 70.11	40.11
4.725	4.725 (0.997)	72	23081			11.95- 71.95	41.95
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	103982	200.000	200.00	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	65193			32.70- 92.70	62.70
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	69969	200.000	200.00	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	83725			89.66- 149.66	119.66
4.921	4.921 (1.038)	41	45945			35.66- 95.66	65.66
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	105526	200.000	200.00	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	67376			33.85- 93.85	63.85
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	95952	200.000	200.00	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	101161			75.43- 135.43	105.43
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	256691	200.000	200.00	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	86596			3.74- 63.74	33.74
5.326	5.326 (1.124)	41	70849			0.00- 57.60	27.60
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	148213	200.000	200.00	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	36414			0.00- 54.57	24.57
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	121397	200.000	200.00	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	28056			0.00- 53.11	23.11
5.452	5.452 (1.151)	55	31182			0.00- 55.69	25.69
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	73702	200.000	200.00	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	24192			2.82- 62.82	32.82
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	54272	200.000	200.00	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	89691			135.26- 195.26	165.26
5.564	5.564 (0.952)	100	17810			2.82- 62.82	32.82
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	69740	200.000	200.00	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
125 Trichloroethene (continued)							
6.082	6.082 (1.041)	130	64482			62.46- 122.46	92.46
6.082	6.082 (1.041)	97	44953			34.46- 94.46	64.46
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	94045	200.000	200.00	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	45216			18.08- 78.08	48.08
6.194	6.194 (1.060)	55	79671			54.72- 114.72	84.72
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	57860	200.000	200.00	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	41667			42.01- 102.01	72.01
6.404	6.404 (1.096)	41	34422			29.49- 89.49	59.49
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	32580	200.000	200.00	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	25213			47.39- 107.39	77.39
6.530	6.530 (1.117)	57	8499			0.00- 56.09	26.09
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	115087	200.000	200.00	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	72146			32.69- 92.69	62.69
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	90926	200.000	200.00	80.00- 120.00	100.00
7.341	7.341 (1.256)	77	27936			0.72- 60.72	30.72
7.327	7.327 (1.254)	39	52795			28.06- 88.06	58.06
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	18373	200.000	200.00	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	120617			626.49- 686.49	656.49
7.565	7.565 (1.294)	58	49818			241.15- 301.15	271.15
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	180283	200.000	200.00	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	105064			28.28- 88.28	58.28
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	72030	200.000	200.00	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	24059			3.40- 63.40	33.40
8.293	8.293 (0.845)	39	40413			26.11- 86.11	56.11
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	61519	200.000	200.00	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	38003			31.77- 91.77	61.77
8.614	8.614 (0.877)	83	55073			59.52- 119.52	89.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	77115	200.000	200.00	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	58879			46.35- 106.35	76.35
8.628	8.628 (0.879)	131	57399			44.43- 104.43	74.43
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	57601	200.000	200.00	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	103897			150.37- 210.37	180.37
9.006	9.006 (0.917)	100	11068			0.00- 49.21	19.21
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	106965	200.000	200.00	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	82420			47.05- 107.05	77.05
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	91607	200.000	200.00	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	88254			66.34- 126.34	96.34
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	139279	200.000	200.00	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	44148			1.70- 61.70	31.70
9.860	9.860 (1.004)	77	87628			32.92- 92.92	62.92
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.014)	106	71966	200.000	200.00	80.00- 120.00	100.00
9.958	9.958 (1.014)	91	239025			302.14- 362.14	332.14
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	88537	200.000	200.00	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	186152			180.25- 240.25	210.25
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	81545	200.000	200.00	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	187113			199.46- 259.46	229.46
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	129227	200.000	200.00	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	74518			27.66- 87.66	57.66
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	96633	200.000	200.00	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	50453			22.21- 82.21	52.21
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	262607	200.000	200.00	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	66223			0.00- 55.22	25.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
175 Cumene (continued)							
10.769	10.769 (1.097)	51	30969			0.00- 41.79	11.79
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	131359	200.000	200.00	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	82478			32.79- 92.79	62.79
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	324802	200.000	200.00	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	67456			0.00- 50.77	20.77
11.105	11.105 (1.131)	105	11658			0.00- 33.59	3.59
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	252122	200.000	200.00	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	69852			0.00- 57.71	27.71
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	212057	200.000	200.00	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	97437			15.95- 75.95	45.95
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	207615	200.000	200.00	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	90654			13.66- 73.66	43.66
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	132347	200.000	200.00	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	83151			32.83- 92.83	62.83
11.707	11.707 (1.192)	111	59103			14.66- 74.66	44.66
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	132342	200.000	200.00	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	82211			32.12- 92.12	62.12
11.763	11.763 (1.198)	111	57345			13.33- 73.33	43.33
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	163322	200.000	200.00	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	31236			0.00- 49.13	19.13
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	122410	200.000	200.00	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	78005			33.72- 93.72	63.72
11.986	11.986 (1.221)	111	57055			16.61- 76.61	46.61
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	78121	200.000	200.00	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	73803			64.47- 124.47	94.47

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.896	12.896	(1.314)	225	66636	200.000	200.00	80.00- 120.00	100.00
12.896	12.896	(1.314)	223	43031			34.58- 94.58	64.58
228 Naphthalene						CAS #: 91-20-3		
12.966	12.966	(1.321)	128	16143	20.0000	20.000	80.00- 120.00	100.00
12.966	12.966	(1.321)	127	2063			0.00- 42.78	12.78

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091007.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 6
Level: LOW
Sample Type: AIR

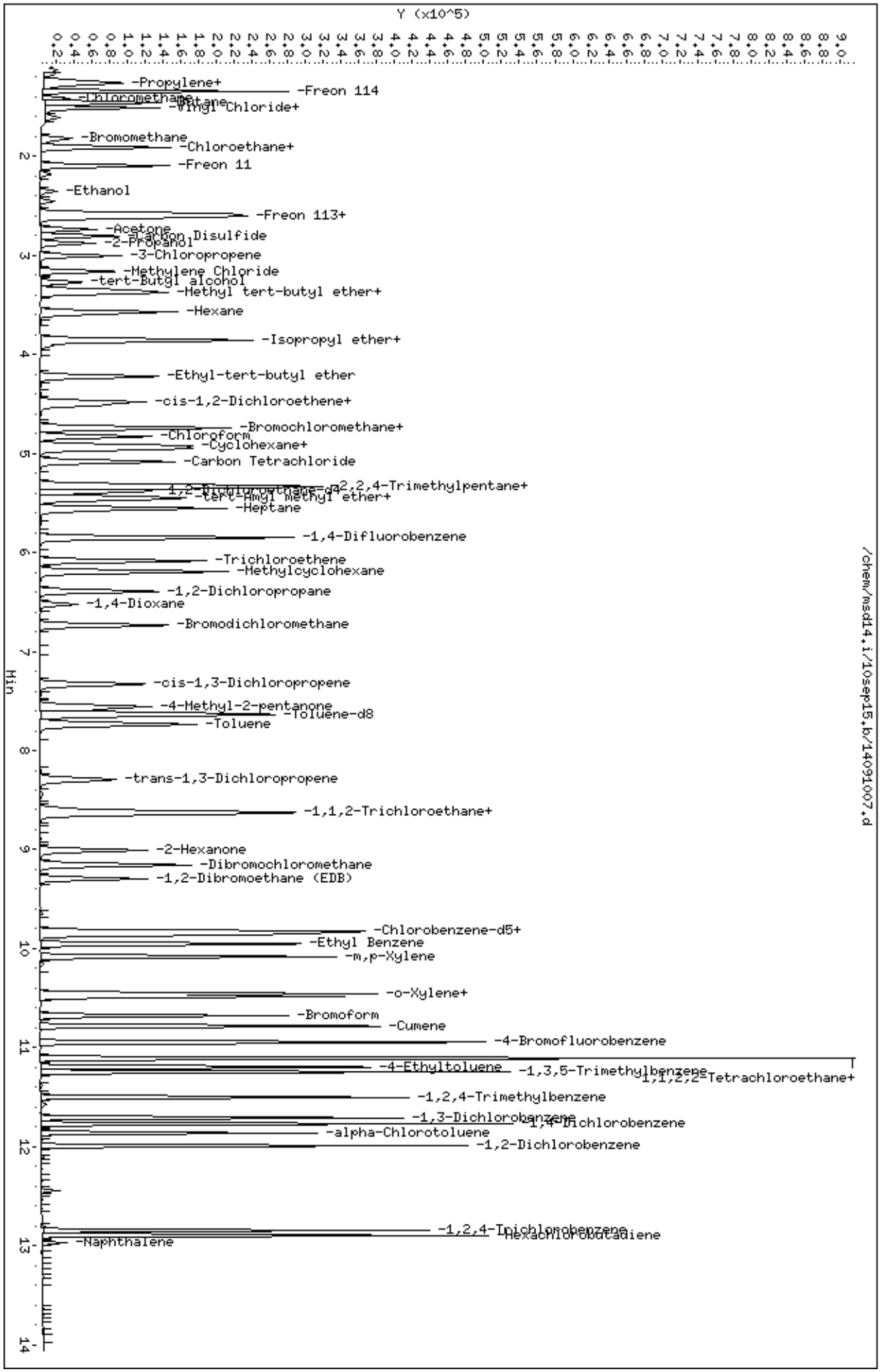
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	52956	0.00
123 1,4-Difluorobenze	240311	144187	336435	240311	0.00
163 Chlorobenzene-d5	202929	121757	284101	202929	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091007.d
Date : 10-SEP-2015 11:46
Client ID: ICAL Level 6
Sample Info: 50ml #2736-173
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091008.d
Lab Smp Id: ICAL Level 7 Client Smp ID: ICAL Level 7
Inj Date : 10-SEP-2015 12:32
Operator : mjs Inst ID: msd14.i
Smp Info : 50ml #2736-215
Misc Info : 1000ppbv (1000ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 12:32 Cal File: 14091008.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12NoOxyNaph.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	50672	400.000		80.00- 120.00	100.00
4.753	4.753 (1.000)	128	39303			48.38- 108.38	77.56
4.739	4.739 (1.000)	49	77769			122.49- 182.49	153.48
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	227303	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	38499			0.00- 47.28	16.94
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	190503	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	123979			33.96- 93.96	65.08
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	90188	400.000	411.81	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	46055			22.50- 82.50	51.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	239546	400.000	398.46	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	29715			0.00- 42.36	12.40
7.635	7.635 (1.306)	100	165389			36.13- 96.13	69.04
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	110529	400.000	405.22	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	160538			113.45- 173.45	145.25
10.951	10.951 (1.115)	176	106788			68.10- 128.10	96.62
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	162194	1000.00	1103.4	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	106089			35.71- 95.71	65.41
1.241	1.241 (0.262)	39	118791			44.83- 104.83	73.24
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	593324	1000.00	1028.4	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	190063			1.94- 61.94	32.03
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	376576	1000.00	1033.0	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	118241			2.09- 62.09	31.40
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	188955	1000.00	959.35	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	61504			1.48- 61.48	32.55
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	52312	1000.00	1021.4	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	324834			577.93- 637.93	620.96
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	229127	1000.00	1035.2	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	71996			1.45- 61.45	31.42
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	178158	1000.00	1014.0	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	177943			71.31- 131.31	99.88
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	161782	1000.00	1053.6	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	153570			64.67- 124.67	94.92
1.814	1.814 (0.383)	79	31485			0.00- 47.98	19.46
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	119489	1000.00	1095.5	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	36346			1.09- 61.09	30.42
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	266522	1000.00	1077.7	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	194478			42.08- 102.08	72.97
1.912	1.912 (0.404)	72	24499			0.00- 38.91	9.19
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	602655	1000.00	1058.9	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	393839			34.26- 94.26	65.35
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	94832	1000.00	932.09	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	20062			0.00- 52.18	21.16
2.360	2.360 (0.498)	46	39237			11.33- 71.33	41.38
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	356778	1000.00	1053.7	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	228076			33.38- 93.38	63.93
2.584	2.584 (0.545)	101	503098			106.88- 166.88	141.01
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	424138	1000.00	1026.9	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	236459			24.64- 84.64	55.75
2.612	2.612 (0.551)	98	149625			4.54- 64.54	35.28
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	122081	1000.00	1060.4	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	389831			297.27- 357.27	319.32
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	681203	1000.00	1060.4	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	436874	1000.00	1190.1	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	90787			0.00- 50.08	20.78
2.878	2.878 (0.607)	59	17346			0.00- 33.79	3.97
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	111891	1000.00	1155.6	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	295431			228.46- 288.46	264.03
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	296740	1000.00	1013.8	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	215787			42.33- 102.33	72.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	92450			1.58- 61.58	31.16
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.354 (0.708)	73	644087	1000.00	1349.0	80.00- 120.00	100.00
3.354	3.354 (0.708)	57	151989			0.00- 54.23	23.60
3.354	3.354 (0.708)	41	141145			0.00- 52.85	21.91
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.382	3.382 (0.714)	96	244544	1000.00	1050.9	80.00- 120.00	100.00
3.382	3.382 (0.714)	61	380138			124.68- 184.68	155.45
3.382	3.382 (0.714)	98	156625			31.63- 91.63	64.05
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	413712	1000.00	1025.1	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	251699			29.53- 89.53	60.84
3.577	3.577 (0.755)	86	73630			0.00- 47.08	17.80
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	470411	1000.00	1074.6	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	148122			1.34- 61.34	31.49
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	373040	1000.00	1094.8	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	261786			40.63- 100.63	70.18
4.487	4.487 (0.947)	98	168427			13.70- 73.70	45.15
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	130333	1000.00	1250.8	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	528341			377.26- 437.26	405.38
4.515	4.515 (0.953)	57	42300			5.15- 65.15	32.46
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	290901	1000.00	988.09	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	115702			10.11- 70.11	39.77
4.725	4.725 (0.997)	72	123201			11.95- 71.95	42.35
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	535694	1000.00	1053.4	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	337156			32.70- 92.70	62.94
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	358510	1000.00	1033.9	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	436381			89.66- 149.66	121.72
4.921	4.921 (1.038)	41	241021			35.66- 95.66	67.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	553841	1000.00	1098.2	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	350713			33.85- 93.85	63.32
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.089 (1.074)	119	521194	1000.00	1177.4	80.00- 120.00	100.00
5.089	5.089 (1.074)	117	537618			75.43- 135.43	103.15
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	1336177	1000.00	1063.5	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	453507			3.74- 63.74	33.94
5.326	5.326 (1.124)	41	372748			0.00- 57.60	27.90
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	757123	1000.00	1023.9	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	185250			0.00- 54.57	24.47
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	387977	1000.00	1079.7	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	120468			2.82- 62.82	31.05
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	283079	1000.00	1070.3	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	473415			135.26- 195.26	167.24
5.564	5.564 (0.952)	100	93473			2.82- 62.82	33.02
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	349530	1000.00	989.89	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	329606			62.46- 122.46	94.30
6.082	6.082 (1.041)	97	225765			34.46- 94.46	64.59
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	478539	1000.00	1055.2	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	232869			18.08- 78.08	48.66
6.194	6.194 (1.060)	55	411475			54.72- 114.72	85.99
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	301724	1000.00	1074.4	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	217984			42.01- 102.01	72.25
6.404	6.404 (1.096)	41	184580			29.49- 89.49	61.18
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	185269	1000.00	1203.1	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	139988			47.39- 107.39	75.56
6.530	6.530 (1.117)	57	45980			0.00- 56.09	24.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.726 (1.151)	83	603322	1000.00	1080.1	80.00- 120.00	100.00
6.726	6.726 (1.151)	85	373853			32.69- 92.69	61.97
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	496916	1000.00	1237.7	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	156283			0.72- 60.72	31.45
7.327	7.327 (1.254)	39	285228			28.06- 88.06	57.40
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	109639	1000.00	1185.8	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	677478			626.49- 686.49	617.92
7.565	7.565 (1.294)	58	276147			241.15- 301.15	251.87
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	928012	1000.00	1057.9	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	542072			28.28- 88.28	58.41
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	422722	1000.00	1465.0	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	133028			3.40- 63.40	31.47
8.293	8.293 (0.845)	39	228604			26.11- 86.11	54.08
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.615	8.615 (0.877)	97	319367	1000.00	1094.2	80.00- 120.00	100.00
8.615	8.615 (0.877)	99	198419			31.77- 91.77	62.13
8.615	8.615 (0.877)	83	286115			59.52- 119.52	89.59
156 Tetrachloroethene					CAS #: 127-18-4		
8.629	8.629 (0.879)	166	397078	1000.00	1072.8	80.00- 120.00	100.00
8.629	8.629 (0.879)	129	300901			46.35- 106.35	75.78
8.629	8.629 (0.879)	131	292159			44.43- 104.43	73.58
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	376948	1000.00	1406.6	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	675223			150.37- 210.37	179.13
9.006	9.006 (0.917)	100	74610			0.00- 49.21	19.79
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	557794	1000.00	1131.0	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	431627			47.05- 107.05	77.38
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	481527	1000.00	1137.4	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	449912			66.34- 126.34	93.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	706606	1000.00	1074.3	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	229684			1.70- 61.70	32.51
9.860	9.860 (1.004)	77	443532			32.92- 92.92	62.77
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.014)	106	358474	1000.00	1036.0	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	1214411			302.14- 362.14	338.77
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	450348	1000.00	1078.6	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	962008			180.25- 240.25	213.61
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	422681	1000.00	1091.0	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	956827			199.46- 259.46	226.37
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	726290	1000.00	1170.4	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	403410			27.66- 87.66	55.54
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	510072	1000.00	1139.6	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	263516			22.21- 82.21	51.66
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	1321242	1000.00	1081.4	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	331080			0.00- 55.22	25.06
10.769	10.769 (1.097)	51	164094			0.00- 41.79	12.42
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	687302	1000.00	1213.5	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	432642			32.79- 92.79	62.95
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	1649642	1000.00	1088.3	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	339983			0.00- 50.77	20.61
11.105	11.105 (1.131)	105	60295			0.00- 33.59	3.66
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.141)	105	1301259	1000.00	1096.3	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	364827			0.00- 57.71	28.04
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	1101249	1000.00	1067.7	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	505917			15.95- 75.95	45.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	1064752	1000.00	1115.0	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	456689			13.66- 73.66	42.89
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	654443	1000.00	1077.1	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	411988			32.83- 92.83	62.95
11.707	11.707 (1.192)	111	292589			14.66- 74.66	44.71
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	657532	1000.00	1086.2	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	415455			32.12- 92.12	63.18
11.763	11.763 (1.198)	111	288206			13.33- 73.33	43.83
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.861 (1.208)	91	967847	1000.00	1525.1	80.00- 120.00	100.00
11.861	11.861 (1.208)	126	185452			0.00- 49.13	19.16
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.987	11.987 (1.221)	146	596636	1000.00	1072.0	80.00- 120.00	100.00
11.987	11.987 (1.221)	148	379208			33.72- 93.72	63.56
11.987	11.987 (1.221)	111	284371			16.61- 76.61	47.66
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	337273	1000.00	1161.9	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	322408			64.47- 124.47	95.59
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	287384	1000.00	1128.9	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	185193			34.58- 94.58	64.44

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091008.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 1000ppbv (1000ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 7
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	50672	-4.31
123 1,4-Difluorobenze	240311	144187	336435	227303	-5.41
163 Chlorobenzene-d5	202929	121757	284101	190503	-6.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091008.d

Date : 10-SEP-2015 12:32

Client ID: ICAL Level 7

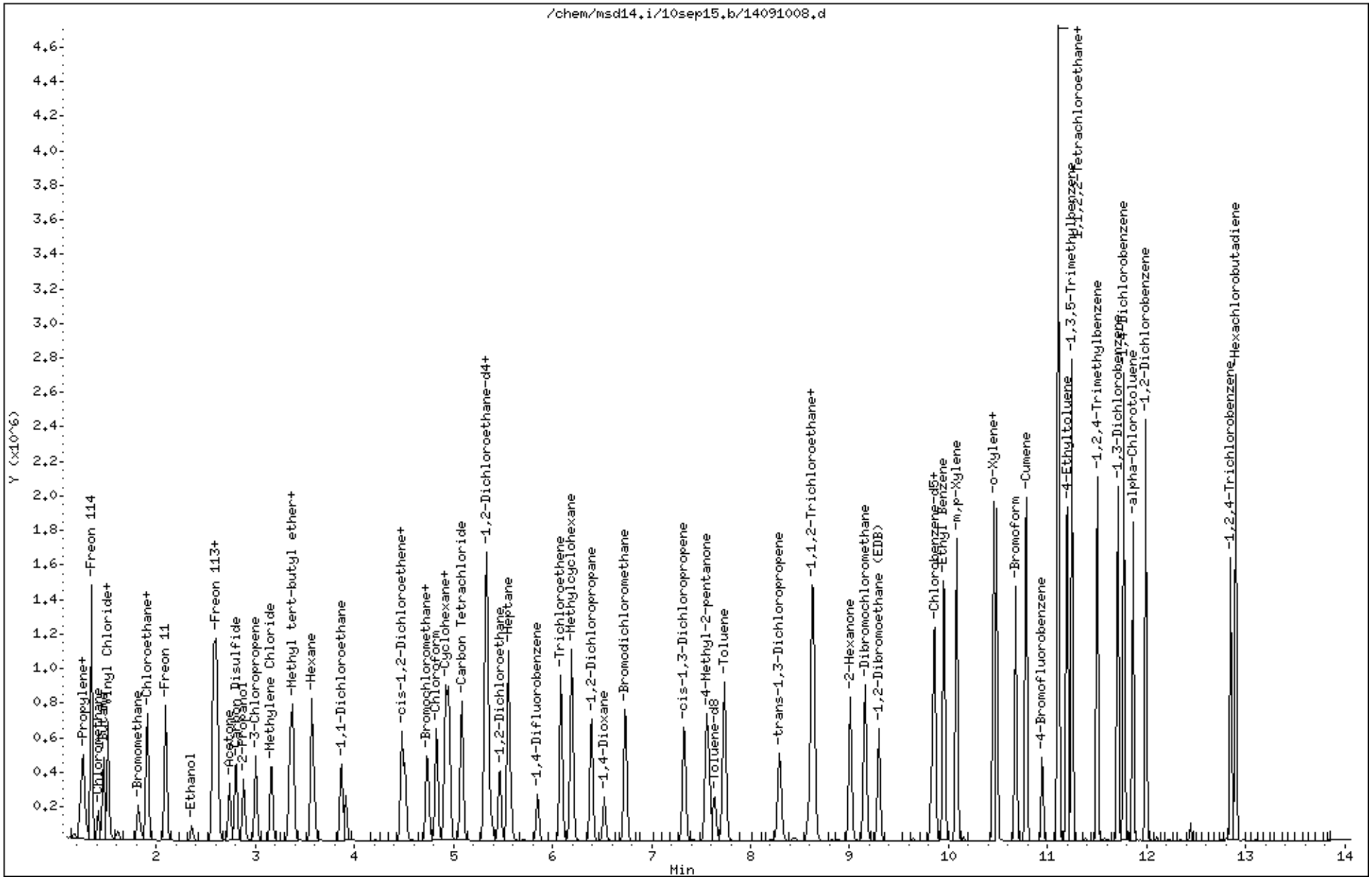
Sample Info: 50ml #2736-215

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091012.d
Lab Smp Id: ICAL Level 8 Client Smp ID: ICAL Level 8
Inj Date : 10-SEP-2015 15:37
Operator : gh Inst ID: msd14.i
Smp Info : 25ml #2736-218
Misc Info : 250ppbv (500ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 15:37 Cal File: 14091012.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: NaphICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	48368	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	37480			48.38- 108.38	77.49
4.739	4.739 (1.000)	49	76735			122.49- 182.49	158.65
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	222195	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	37885			0.00- 47.28	17.05
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.832	9.832 (1.000)	117	190783	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	123175			33.96- 93.96	64.56
228 Naphthalene					CAS #: 91-20-3		
12.980	12.980 (1.320)	128	158293	250.000	241.11	80.00- 120.00	100.00
12.980	12.980 (1.320)	127	20311			0.00- 42.78	12.83

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091012.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 250ppbv (500ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	48368	-8.66
123 1,4-Difluorobenze	240311	144187	336435	222195	-7.54
163 Chlorobenzene-d5	202929	121757	284101	190783	-5.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.83	0.14

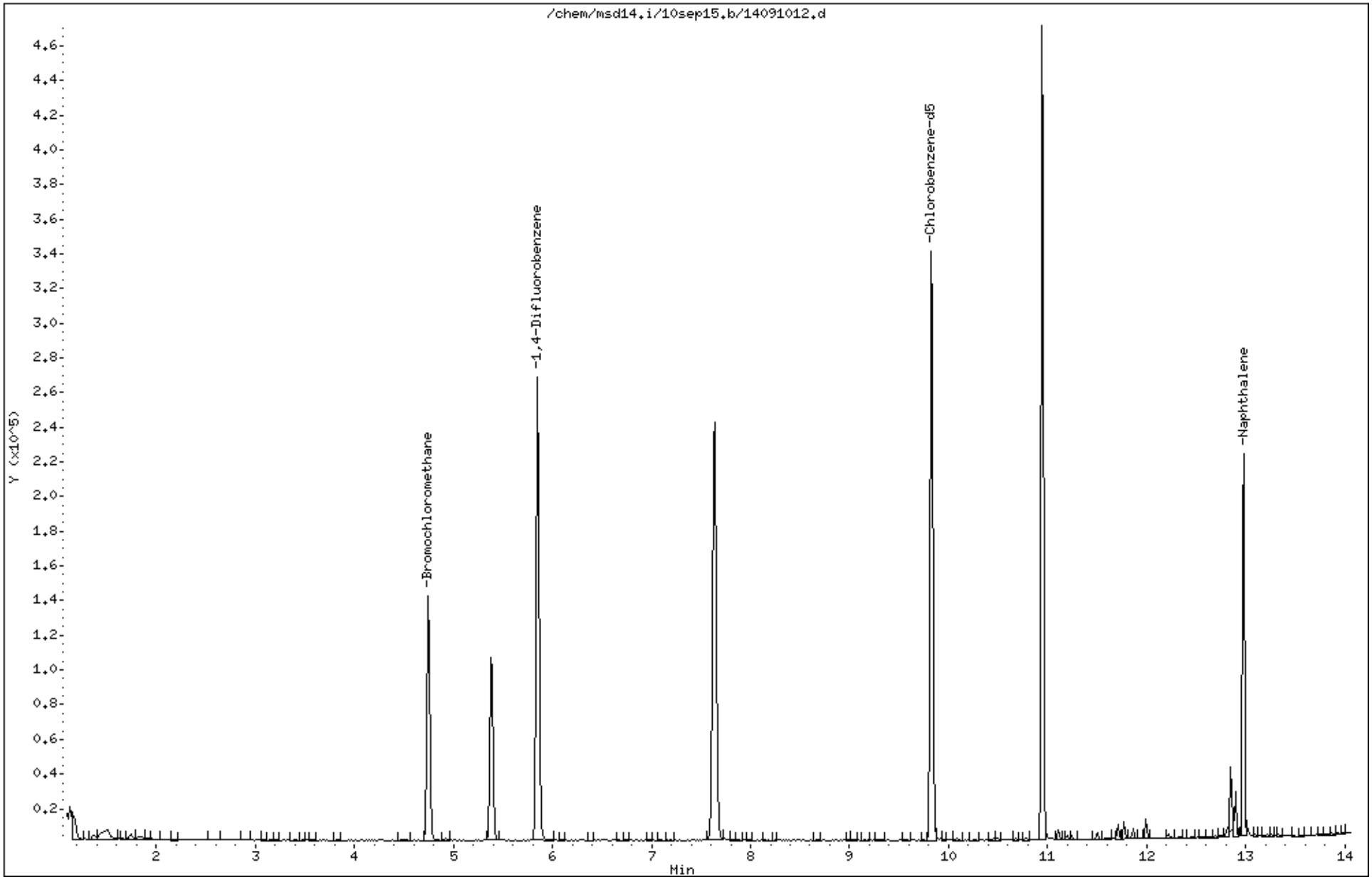
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd14.i/10sep15.b/14091012.d
Date : 10-SEP-2015 15:37
Client ID: ICAL Level 8
Sample Info: 25ml #2736-218

Column phase: RTX-624

Instrument: msd14.i

Operator: gh
Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091009.d
Lab Smp Id: ICAL Level 8 Client Smp ID: ICAL Level 8
Inj Date : 10-SEP-2015 13:37
Operator : mjs Inst ID: msd14.i
Smp Info : 25ml #2736-216
Misc Info : 2500ppbv (5000ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 13:37 Cal File: 14091009.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12NoOxyNaph.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.753	4.753 (1.000)	130	49421	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	38954			48.38- 108.38	78.82
4.739	4.739 (1.000)	49	82335			122.49- 182.49	166.60
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	227020	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39248			0.00- 47.28	17.29
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.832	9.832 (1.000)	117	196359	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	124348			33.96- 93.96	63.33
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.132)	65	91698	400.000	425.41	80.00- 120.00	100.00
5.382	5.382 (1.132)	67	51127			22.50- 82.50	55.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	242210	400.000	402.97	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	29578			0.00- 42.36	12.21
7.635	7.635 (1.306)	100	158112			36.13- 96.13	65.28
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.114)	174	112885	400.000	401.33	80.00- 120.00	100.00
10.937	10.937 (1.112)	95	166364			113.45- 173.45	147.37
10.951	10.951 (1.114)	176	109273			68.10- 128.10	96.80
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.261)	41	435688	2500.00	2933.7	80.00- 120.00	100.00
1.241	1.241 (0.261)	42	284145			35.71- 95.71	65.22
1.241	1.241 (0.261)	39	323321			44.83- 104.83	74.21
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.267)	85	1587622	2500.00	2770.7	80.00- 120.00	100.00
1.269	1.269 (0.267)	87	515664			1.94- 61.94	32.48
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	1011586	2500.00	2790.2	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	325364			2.09- 62.09	32.16
17 Chloromethane					CAS #: 74-87-3		
1.422	1.422 (0.299)	50	495109	2500.00	2564.1	80.00- 120.00	100.00
1.422	1.422 (0.299)	52	161821			1.48- 61.48	32.68
23 Butane					CAS #: 106-97-8		
1.478	1.478 (0.311)	58	141882	2500.00	2777.3	80.00- 120.00	100.00
1.478	1.478 (0.311)	43	882569			577.93- 637.93	622.04
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.317)	62	613208	2500.00	2786.3	80.00- 120.00	100.00
1.506	1.506 (0.317)	64	192919			1.45- 61.45	31.46
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.320)	54	479660	2500.00	2752.1	80.00- 120.00	100.00
1.520	1.520 (0.320)	39	470970			71.31- 131.31	98.19
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.382)	94	484433	2500.00	3104.3	80.00- 120.00	100.00
1.814	1.814 (0.382)	96	454486			64.67- 124.67	93.82
1.814	1.814 (0.382)	79	87691			0.00- 47.98	18.10
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.399)	64	341148	2500.00	3062.7	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.399)	66	108795			1.09- 61.09	31.89
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.402)	43	708771	2500.00	2855.1	80.00- 120.00	100.00
1.912	1.912 (0.402)	57	522913			42.08- 102.08	73.78
1.912	1.912 (0.402)	72	66893			0.00- 38.91	9.44
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.441)	101	1633138	2500.00	2869.6	80.00- 120.00	100.00
2.094	2.094 (0.441)	103	1061793			34.26- 94.26	65.02
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.497)	45	225050	2500.00	2303.6	80.00- 120.00	100.00
2.360	2.360 (0.497)	43	49186			0.00- 52.18	21.86
2.360	2.360 (0.497)	46	95016			11.33- 71.33	42.22
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.544)	151	858344	2500.00	2584.4	80.00- 120.00	100.00
2.598	2.598 (0.547)	153	549794			33.38- 93.38	64.05
2.584	2.584 (0.544)	101	1239453			106.88- 166.88	144.40
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.550)	61	1079279	2500.00	2652.1	80.00- 120.00	100.00
2.612	2.612 (0.550)	96	588431			24.64- 84.64	54.52
2.612	2.612 (0.550)	98	374524			4.54- 64.54	34.70
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.576)	58	323438	2500.00	2809.1	80.00- 120.00	100.00
2.738	2.738 (0.576)	43	1043871			297.27- 357.27	322.74
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.591)	76	1709329	2500.00	2693.1	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.605)	45	1153841	2500.00	3074.7	80.00- 120.00	100.00
2.878	2.878 (0.605)	43	228834			0.00- 50.08	19.83
2.878	2.878 (0.605)	59	46951			0.00- 33.79	4.07
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.632)	76	284382	2500.00	2912.1	80.00- 120.00	100.00
3.004	3.004 (0.632)	41	787745			228.46- 288.46	277.00
66 Methylene Chloride					CAS #: 75-09-2		
3.157	3.157 (0.664)	49	757803	2500.00	2631.4	80.00- 120.00	100.00
3.171	3.171 (0.667)	84	544845			42.33- 102.33	71.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.157	3.157 (0.664)	51	235116			1.58- 61.58	31.03
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.706)	73	1778549	2500.00	3551.6	80.00- 120.00	100.00
3.353	3.353 (0.706)	57	427170			0.00- 54.23	24.02
3.353	3.353 (0.706)	41	391897			0.00- 52.85	22.03
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.711)	96	574534	2500.00	2527.0	80.00- 120.00	100.00
3.381	3.381 (0.711)	61	909992			124.68- 184.68	158.39
3.381	3.381 (0.711)	98	363676			31.63- 91.63	63.30
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.753)	57	1099671	2500.00	2747.7	80.00- 120.00	100.00
3.577	3.577 (0.753)	43	671763			29.53- 89.53	61.09
3.577	3.577 (0.753)	86	192946			0.00- 47.08	17.55
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.815)	63	1218106	2500.00	2796.6	80.00- 120.00	100.00
3.871	3.871 (0.815)	65	382927			1.34- 61.34	31.44
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.944)	61	1058828	2500.00	3066.0	80.00- 120.00	100.00
4.487	4.487 (0.944)	96	734866			40.63- 100.63	69.40
4.487	4.487 (0.944)	98	469458			13.70- 73.70	44.34
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.950)	72	335177	2500.00	3131.5	80.00- 120.00	100.00
4.515	4.515 (0.950)	43	1390620			377.26- 437.26	414.89
4.515	4.515 (0.950)	57	112364			5.15- 65.15	33.52
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.994)	42	767317	2500.00	2646.2	80.00- 120.00	100.00
4.725	4.725 (0.994)	71	297462			10.11- 70.11	38.77
4.725	4.725 (0.994)	72	318903			11.95- 71.95	41.56
100 Chloroform					CAS #: 67-66-3		
4.822	4.822 (1.015)	83	1390216	2500.00	2755.3	80.00- 120.00	100.00
4.822	4.822 (1.015)	85	874305			32.70- 92.70	62.89
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.035)	84	945702	2500.00	2749.8	80.00- 120.00	100.00
4.920	4.920 (1.035)	56	1159585			89.66- 149.66	122.62
4.920	4.920 (1.035)	41	641147			35.66- 95.66	67.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.041)	97	1452940	2500.00	2879.2	80.00- 120.00	100.00
4.948	4.948 (1.041)	99	930962			33.85- 93.85	64.07
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.071)	119	1371305	2500.00	3058.0	80.00- 120.00	100.00
5.088	5.088 (1.071)	117	1420762			75.43- 135.43	103.61
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.121)	57	3537165	2500.00	2824.2	80.00- 120.00	100.00
5.326	5.326 (1.121)	56	1201949			3.74- 63.74	33.98
5.326	5.326 (1.121)	41	1005995			0.00- 57.60	28.44
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	1959715	2500.00	2633.3	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	474569			0.00- 54.57	24.22
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	1023792	2500.00	2796.4	80.00- 120.00	100.00
5.480	5.480 (0.938)	64	326588			2.82- 62.82	31.90
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	735614	2500.00	2740.2	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	1250237			135.26- 195.26	169.96
5.564	5.564 (0.952)	100	241490			2.82- 62.82	32.83
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	902396	2500.00	2550.2	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	827852			62.46- 122.46	91.74
6.082	6.082 (1.041)	97	574853			34.46- 94.46	63.70
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	1248070	2500.00	2715.8	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	606791			18.08- 78.08	48.62
6.194	6.194 (1.060)	55	1088033			54.72- 114.72	87.18
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	786126	2500.00	2755.2	80.00- 120.00	100.00(H)
6.404	6.404 (1.096)	62	573116			42.01- 102.01	72.90
6.404	6.404 (1.096)	41	486105			29.49- 89.49	61.84
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	466185	2500.00	2927.4	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	356739			47.39- 107.39	76.52
6.530	6.530 (1.117)	57	116038			0.00- 56.09	24.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	1607007	2500.00	2819.3	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	1001458			32.69- 92.69	62.32
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	1168594	2500.00	2847.0	80.00- 120.00	100.00
7.341	7.341 (1.256)	77	370635			0.72- 60.72	31.72
7.327	7.327 (1.254)	39	692793			28.06- 88.06	59.28
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	279199	2500.00	2935.6	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	1772974			626.49- 686.49	635.02
7.565	7.565 (1.294)	58	712612			241.15- 301.15	255.23
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	2404724	2500.00	2706.9	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	1407381			28.28- 88.28	58.53
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.292	8.292 (0.843)	75	1192273	2500.00	3690.5	80.00- 120.00	100.00
8.292	8.292 (0.843)	77	373419			3.40- 63.40	31.32
8.292	8.292 (0.843)	39	658712			26.11- 86.11	55.25
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.876)	97	832608	2500.00	2725.9	80.00- 120.00	100.00
8.614	8.614 (0.876)	99	512864			31.77- 91.77	61.60
8.614	8.614 (0.876)	83	744625			59.52- 119.52	89.43
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.878)	166	1004131	2500.00	2612.4	80.00- 120.00	100.00
8.628	8.628 (0.878)	129	774728			46.35- 106.35	77.15
8.628	8.628 (0.878)	131	742796			44.43- 104.43	73.97
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.916)	58	945472	2500.00	3224.6	80.00- 120.00	100.00
9.006	9.006 (0.916)	43	1731825			150.37- 210.37	183.17
9.006	9.006 (0.916)	100	187893			0.00- 49.21	19.87
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.932)	129	1413219	2500.00	2736.2	80.00- 120.00	100.00
9.160	9.160 (0.932)	127	1104646			47.05- 107.05	78.17
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.946)	107	1239151	2500.00	2785.5	80.00- 120.00	100.00
9.300	9.300 (0.946)	109	1156166			66.34- 126.34	93.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.003)	112	1798528	2500.00	2629.9	80.00- 120.00	100.00
9.860	9.860 (1.003)	114	578387			1.70- 61.70	32.16
9.860	9.860 (1.003)	77	1140407			32.92- 92.92	63.41
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.013)	106	922786	2500.00	2574.5	80.00- 120.00	100.00
9.958	9.958 (1.013)	91	3147767			302.14- 362.14	341.12
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.083 (1.026)	106	1134212	2500.00	2615.2	80.00- 120.00	100.00
10.083	10.083 (1.026)	91	2444026			180.25- 240.25	215.48
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.064)	106	1103780	2500.00	2723.0	80.00- 120.00	100.00
10.461	10.461 (1.064)	91	2504938			199.46- 259.46	226.94
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.067)	104	1732573	2500.00	2676.9	80.00- 120.00	100.00
10.489	10.489 (1.067)	78	996031			27.66- 87.66	57.49
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.085)	173	1278911	2500.00	2729.6	80.00- 120.00	100.00
10.671	10.671 (1.085)	171	665358			22.21- 82.21	52.03
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.097)	105	3329467	2500.00	2622.2	80.00- 120.00	100.00
10.783	10.783 (1.097)	120	838896			0.00- 55.22	25.20
10.769	10.769 (1.095)	51	414850			0.00- 41.79	12.46
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.129)	83	1798545	2500.00	2981.9	80.00- 120.00	100.00
11.105	11.105 (1.129)	85	1122723			32.79- 92.79	62.42
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.129)	91	4193828	2500.00	2656.4	80.00- 120.00	100.00
11.105	11.105 (1.129)	120	854560			0.00- 50.77	20.38
11.105	11.105 (1.129)	105	152018			0.00- 33.59	3.62
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.139)	105	3164682	2500.00	2574.0	80.00- 120.00	100.00
11.203	11.203 (1.139)	120	883627			0.00- 57.71	27.92
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.144)	105	2396700	2500.00	2286.4	80.00- 120.00	100.00
11.245	11.245 (1.144)	120	1081945			15.95- 75.95	45.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.171)	105	2430766	2500.00	2473.9	80.00- 120.00	100.00
11.511	11.511 (1.171)	120	1039743			13.66- 73.66	42.77
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.706	11.706 (1.191)	146	1537415	2500.00	2454.8	80.00- 120.00	100.00
11.706	11.706 (1.191)	148	978771			32.83- 92.83	63.66
11.706	11.706 (1.191)	111	700526			14.66- 74.66	45.57
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.762 (1.196)	146	1524439	2500.00	2443.1	80.00- 120.00	100.00
11.762	11.762 (1.196)	148	968151			32.12- 92.12	63.51
11.762	11.762 (1.196)	111	676799			13.33- 73.33	44.40
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.206)	91	1421567	2500.00	2173.2	80.00- 120.00	100.00
11.860	11.860 (1.206)	126	267584			0.00- 49.13	18.82
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.219)	146	1354495	2500.00	2361.1	80.00- 120.00	100.00
11.986	11.986 (1.219)	148	850600			33.72- 93.72	62.80
11.986	11.986 (1.219)	111	648587			16.61- 76.61	47.88
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.854	12.854 (1.307)	180	481834	2500.00	1610.5	80.00- 120.00	100.00
12.854	12.854 (1.307)	182	449337			64.47- 124.47	93.26
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.312)	225	399170	2500.00	1521.3	80.00- 120.00	100.00
12.896	12.896 (1.312)	223	254255			34.58- 94.58	63.70

QC Flag Legend

H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091009.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 2500ppbv (5000ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 8
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	49421	-6.68
123 1,4-Difluorobenze	240311	144187	336435	227020	-5.53
163 Chlorobenzene-d5	202929	121757	284101	196359	-3.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.75	0.29
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.83	0.14

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/msd14.i/10sep15.b/14091009.d

Date : 10-SEP-2015 13:37

Client ID: ICAL Level 8

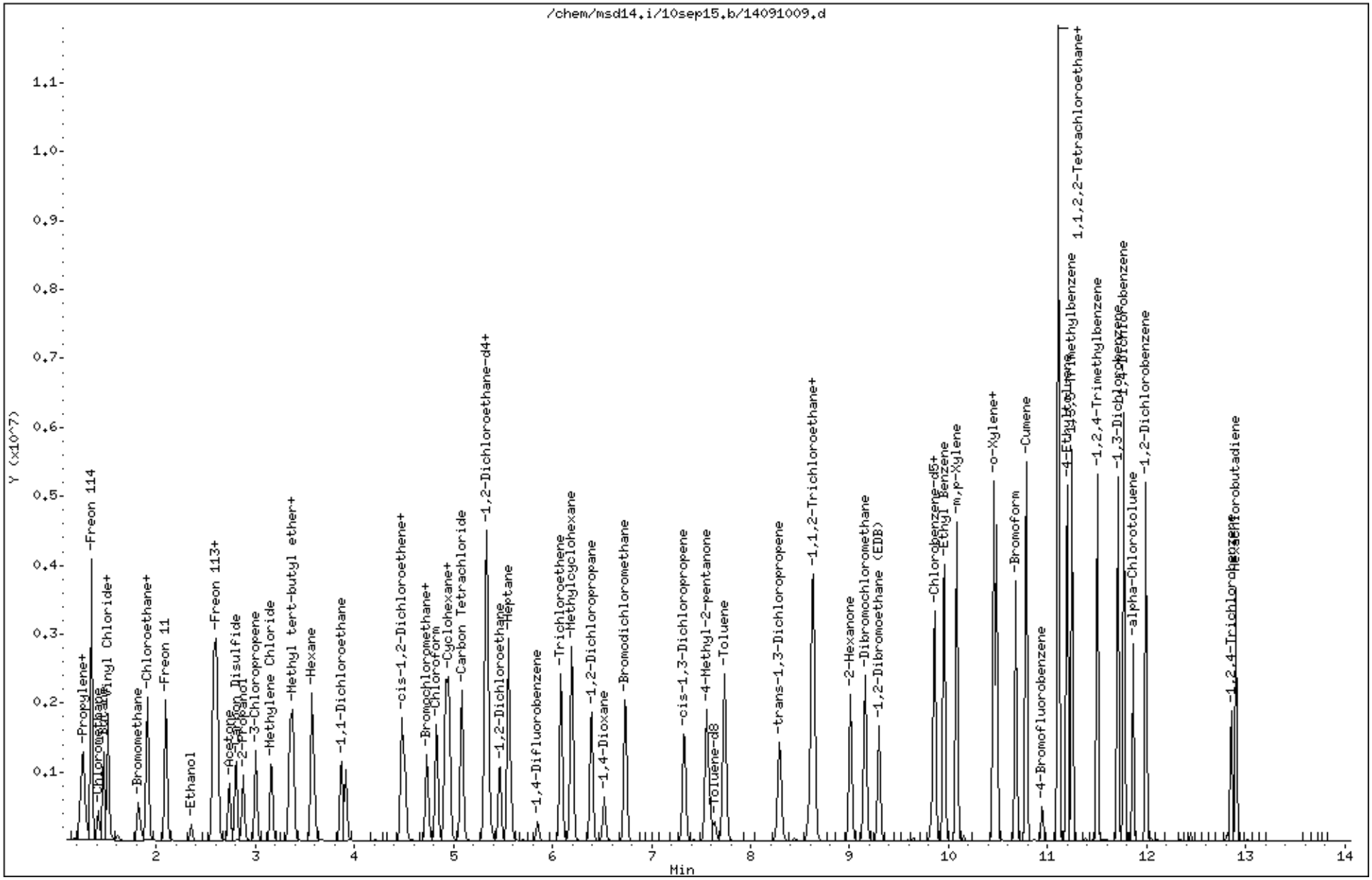
Sample Info: 25ml #2736-216

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091013.d
Lab Smp Id: ICAL Level 9 Client Smp ID: ICAL Level 9
Inj Date : 10-SEP-2015 16:18
Operator : gh Inst ID: msd14.i
Smp Info : 50ml #2736-218
Misc Info : 500ppbv (500ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 16:18 Cal File: 14091013.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: NaphICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	49010	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	38576			48.38- 108.38	78.71
4.739	4.739 (1.000)	49	76790			122.49- 182.49	156.68
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	223292	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	38611			0.00- 47.28	17.29
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	191876	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	121663			33.96- 93.96	63.41
228 Naphthalene					CAS #: 91-20-3		
12.980	12.980 (1.322)	128	403574	500.000	585.18	80.00- 120.00	100.00(A)
12.980	12.980 (1.322)	127	50669			0.00- 42.78	12.56

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091013.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 500ppbv (500ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 9
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	49010	-7.45
123 1,4-Difluorobenze	240311	144187	336435	223292	-7.08
163 Chlorobenzene-d5	202929	121757	284101	191876	-5.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/10sep15.b/14091013.d

Page 1

Date : 10-SEP-2015 16:18

Client ID: ICAL Level 9

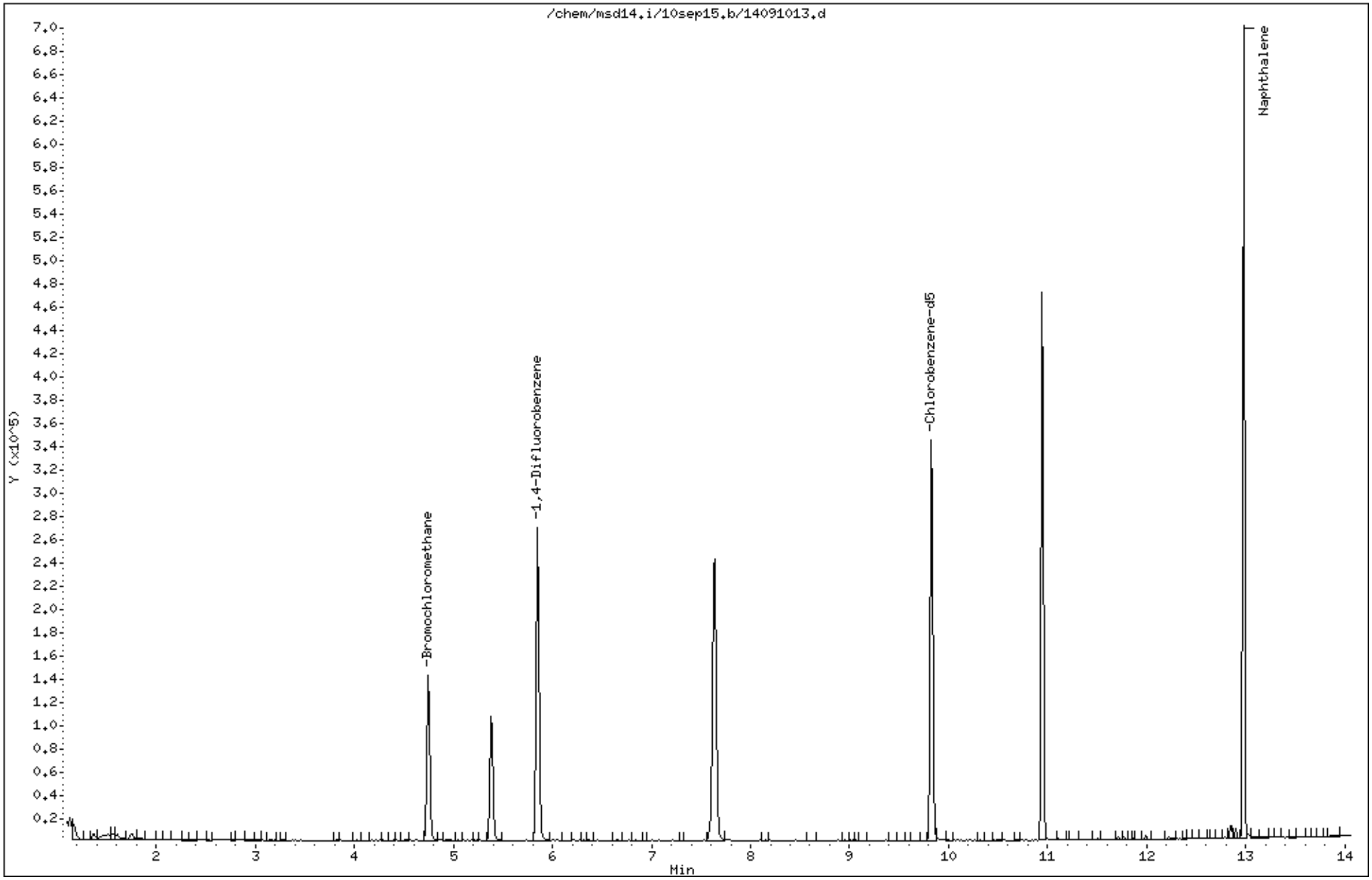
Instrument: msd14.i

Sample Info: 50ml #2736-218

Operator: gh

Column phase: RTX-624

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/10sep15.b/14091011.d
Lab Smp Id: ICAL Level 9 Client Smp ID: ICAL Level 9
Inj Date : 10-SEP-2015 15:02
Operator : gh Inst ID: msd14.i
Smp Info : 50ml #2736-216
Misc Info : 5000ppbv (5000ppbv)
Comment : 5 and 20 - GC/MS
Method : /chem/msd14.i/10sep15.b/14550910a.m
Meth Date : 10-Sep-2015 21:38 ghehir Quant Type: ISTD
Cal Date : 10-SEP-2015 15:02 Cal File: 14091011.d
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12NoOxyNaph.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.753	4.753 (1.000)	130	50636	400.000		80.00- 120.00	100.00
4.753	4.753 (1.000)	128	39679			48.38- 108.38	78.36
4.739	4.739 (1.000)	49	85181			122.49- 182.49	168.22
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	233814	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39883			0.00- 47.28	17.06
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.832	9.832 (1.000)	117	196798	400.000		80.00- 120.00	100.00
9.832	9.832 (1.000)	82	128821			33.96- 93.96	65.46
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.396	5.396 (1.135)	65	96282	400.000	431.64	80.00- 120.00	100.00
5.396	5.396 (1.135)	67	48387			22.50- 82.50	50.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	247522	400.000	399.86	80.00- 120.00	100.00
7.635	7.635 (1.306)	70	30392			0.00- 42.36	12.28
7.635	7.635 (1.306)	100	171777			36.13- 96.13	69.40
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.114)	174	112667	400.000	399.70	80.00- 120.00	100.00
10.937	10.937 (1.112)	95	166027			113.45- 173.45	147.36
10.951	10.951 (1.114)	176	107491			68.10- 128.10	95.41
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.261)	41	807801	5000.00	5262.4	80.00- 120.00	100.00(A)
1.241	1.241 (0.261)	42	528869			35.71- 95.71	65.47
1.241	1.241 (0.261)	39	598157			44.83- 104.83	74.05
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.267)	85	2934311	5000.00	4998.3	80.00- 120.00	100.00
1.269	1.269 (0.267)	87	952142			1.94- 61.94	32.45
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	1864856	5000.00	5017.8	80.00- 120.00	100.00(A)
1.353	1.353 (0.285)	137	594423			2.09- 62.09	31.88
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.299)	50	958413	5000.00	4866.1	80.00- 120.00	100.00
1.423	1.423 (0.299)	52	312508			1.48- 61.48	32.61
23 Butane					CAS #: 106-97-8		
1.478	1.478 (0.311)	58	269395	5000.00	5125.3	80.00- 120.00	100.00(A)
1.478	1.478 (0.311)	43	1672008			577.93- 637.93	620.65
25 Vinyl Chloride					CAS #: 75-01-4		
1.520	1.520 (0.320)	62	1143578	5000.00	5062.5	80.00- 120.00	100.00(A)
1.520	1.520 (0.320)	64	359423			1.45- 61.45	31.43
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.320)	54	913805	5000.00	5102.3	80.00- 120.00	100.00(A)
1.520	1.520 (0.320)	39	901790			71.31- 131.31	98.69
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.382)	94	841561	5000.00	5263.4	80.00- 120.00	100.00(A)
1.814	1.814 (0.382)	96	785369			64.67- 124.67	93.32
1.814	1.814 (0.382)	79	160940			0.00- 47.98	19.12
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.399)	64	626913	5000.00	5416.8	80.00- 120.00	100.00(A)

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   30 Chloroethane (continued)
  1.898   1.898 (0.399)    66    197833                     1.09-  61.09    31.56
-------------------------------------------------------------------------------
   31 Isopentane                                   CAS #: 78-78-4
  1.912   1.912 (0.402)    43   1359807 5000.00   5293.9  80.00- 120.00   100.00(A)
  1.912   1.912 (0.402)    57    977824                   42.08- 102.08    71.91
  1.912   1.912 (0.402)    72    120256                    0.00-  38.91     8.84
-------------------------------------------------------------------------------
   35 Freon 11                                     CAS #: 75-69-4
  2.094   2.094 (0.441)   101   3070305 5000.00   5230.8  80.00- 120.00   100.00(A)
  2.094   2.094 (0.441)   103   1995197                   34.26-  94.26    64.98
-------------------------------------------------------------------------------
   42 Ethanol                                      CAS #: 64-17-5
  2.374   2.374 (0.500)    45    434266 5000.00   4422.0  80.00- 120.00   100.00
  2.374   2.374 (0.500)    43     92416                    0.00-  52.18    21.28
  2.374   2.374 (0.500)    46    183426                   11.33-  71.33    42.24
-------------------------------------------------------------------------------
   49 Freon 113                                    CAS #: 76-13-1
  2.584   2.584 (0.544)   151   1614186 5000.00   4774.2  80.00- 120.00   100.00
  2.584   2.584 (0.544)   153   1027045                   33.38-  93.38    63.63
  2.584   2.584 (0.544)   101   2328721                  106.88- 166.88   144.27
-------------------------------------------------------------------------------
   50 1,1-Dichloroethene                           CAS #: 75-35-4
  2.612   2.612 (0.550)    61   2050544 5000.00   4928.0  80.00- 120.00   100.00
  2.612   2.612 (0.550)    96   1104572                   24.64-  84.64    53.87
  2.612   2.612 (0.550)    98    706569                    4.54-  64.54    34.46
-------------------------------------------------------------------------------
   52 Acetone                                      CAS #: 67-64-1
  2.738   2.738 (0.576)    58    618583 5000.00   5207.4  80.00- 120.00   100.00(A)
  2.738   2.738 (0.576)    43   1976095                  297.27- 357.27   319.46
-------------------------------------------------------------------------------
   56 Carbon Disulfide                             CAS #: 75-15-0
  2.808   2.808 (0.591)    76   3305152 5000.00   5071.9  80.00- 120.00   100.00(A)
-------------------------------------------------------------------------------
   57 2-Propanol                                   CAS #: 67-63-0
  2.892   2.892 (0.608)    45   2215658 5000.00   5639.6  80.00- 120.00   100.00(A)
  2.892   2.892 (0.608)    43    441023                    0.00-  50.08    19.90
  2.892   2.892 (0.608)    59     91385                    0.00-  33.79     4.12
-------------------------------------------------------------------------------
   58 3-Chloropropene                              CAS #: 107-05-1
  3.004   3.004 (0.632)    76    546046 5000.00   5387.0  80.00- 120.00   100.00(A)
  3.004   3.004 (0.632)    41   1492748                  228.46- 288.46   273.37
-------------------------------------------------------------------------------
   66 Methylene Chloride                           CAS #: 75-09-2
  3.172   3.172 (0.667)    49   1448778 5000.00   4921.1  80.00- 120.00   100.00
  3.172   3.172 (0.667)    84   1031334                   42.33- 102.33    71.19
```

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   66 Methylene Chloride (continued)
  3.172   3.172 (0.667)    51    446560                     1.58-  61.58    30.82
--------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                        CAS #: 1634-04-4
  3.367   3.367 (0.709)    73   3456618 5000.00   6456.6  80.00- 120.00   100.00(A)
  3.353   3.353 (0.706)    57    824504                     0.00-  54.23    23.85
  3.353   3.353 (0.706)    41    761162                     0.00-  52.85    22.02
--------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                       CAS #: 156-60-5
  3.381   3.381 (0.711)    96   1083367 5000.00   4691.6  80.00- 120.00   100.00
  3.381   3.381 (0.711)    61   1715343                   124.68- 184.68   158.33
  3.395   3.395 (0.714)    98    703356                    31.63-  91.63    64.92
--------------------------------------------------------------------------------
   78 Hexane                                         CAS #: 110-54-3
  3.577   3.577 (0.753)    57   2084059 5000.00   5072.0  80.00- 120.00   100.00(A)
  3.577   3.577 (0.753)    43   1261987                    29.53-  89.53    60.55
  3.577   3.577 (0.753)    86    365438                     0.00-  47.08    17.53
--------------------------------------------------------------------------------
   82 1,1-Dichloroethane                             CAS #: 75-34-3
  3.871   3.871 (0.815)    63   2321353 5000.00   5175.5  80.00- 120.00   100.00(A)
  3.871   3.871 (0.815)    65    727271                     1.34-  61.34    31.33
--------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                         CAS #: 156-59-2
  4.487   4.487 (0.944)    61   2024554 5000.00   5620.3  80.00- 120.00   100.00(A)
  4.487   4.487 (0.944)    96   1407768                    40.63- 100.63    69.53
  4.487   4.487 (0.944)    98    890622                    13.70-  73.70    43.99
--------------------------------------------------------------------------------
   92 2-Butanone                                     CAS #: 78-93-3
  4.515   4.515 (0.950)    72    641282 5000.00   5709.4  80.00- 120.00   100.00(A)
  4.515   4.515 (0.950)    43   2653402                   377.26- 437.26   413.77
  4.515   4.515 (0.950)    57    217039                     5.15-  65.15    33.84
--------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  4.725   4.725 (0.994)    42   1454835 5000.00   4909.5  80.00- 120.00   100.00
  4.725   4.725 (0.994)    71    567508                    10.11-  70.11    39.01
  4.725   4.725 (0.994)    72    601709                    11.95-  71.95    41.36
--------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  4.823   4.823 (1.015)    83   2658515 5000.00   5124.3  80.00- 120.00   100.00(A)
  4.823   4.823 (1.015)    85   1659843                    32.70-  92.70    62.43
--------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  4.920   4.920 (1.035)    84   1783823 5000.00   5054.4  80.00- 120.00   100.00(A)
  4.920   4.920 (1.035)    56   2194764                    89.66- 149.66   123.04
  4.920   4.920 (1.035)    41   1212049                    35.66-  95.66    67.95
--------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.962	4.962 (1.044)	97	2749488	5000.00	5275.9	80.00- 120.00	100.00(A)
4.962	4.962 (1.044)	99	1763152			33.85- 93.85	64.13
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.071)	119	2575298	5000.00	5521.6	80.00- 120.00	100.00(A)
5.088	5.088 (1.071)	117	2687619			75.43- 135.43	104.36
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.340	5.340 (1.124)	57	6692254	5000.00	5187.3	80.00- 120.00	100.00(A)
5.340	5.340 (1.124)	56	2282081			3.74- 63.74	34.10
5.326	5.326 (1.121)	41	1897857			0.00- 57.60	28.36
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	3708271	5000.00	4855.5	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	899131			0.00- 54.57	24.25
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	1958750	5000.00	5169.4	80.00- 120.00	100.00(A)
5.480	5.480 (0.938)	64	622707			2.82- 62.82	31.79
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	1380523	5000.00	4993.9	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	2328970			135.26- 195.26	168.70
5.564	5.564 (0.952)	100	449961			2.82- 62.82	32.59
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	1712758	5000.00	4735.3	80.00- 120.00	100.00
6.096	6.096 (1.043)	130	1573771			62.46- 122.46	91.89
6.082	6.082 (1.041)	97	1093167			34.46- 94.46	63.82
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	2376168	5000.00	5017.8	80.00- 120.00	100.00(A)
6.194	6.194 (1.060)	98	1150177			18.08- 78.08	48.40
6.194	6.194 (1.060)	55	2049814			54.72- 114.72	86.27
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.404 (1.096)	63	1487097	5000.00	5052.8	80.00- 120.00	100.00(AH)
6.404	6.404 (1.096)	62	1094868			42.01- 102.01	73.62
6.404	6.404 (1.096)	41	924979			29.49- 89.49	62.20
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	892321	5000.00	5372.8	80.00- 120.00	100.00(A)
6.530	6.530 (1.117)	58	687931			47.39- 107.39	77.09
6.530	6.530 (1.117)	57	229440			0.00- 56.09	25.71

```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  138 Bromodichloromethane                          CAS #: 75-27-4
  6.739   6.739 (1.153)    83   3072888 5000.00   5203.8  80.00- 120.00   100.00(A)
  6.739   6.739 (1.153)    85   1909901                   32.69-  92.69    62.15
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                       CAS #: 10061-01-5
  7.341   7.341 (1.256)    75   2246531 5000.00   5272.7  80.00- 120.00   100.00(A)
  7.341   7.341 (1.256)    77    711104                    0.72-  60.72    31.65
  7.341   7.341 (1.256)    39   1331890                   28.06-  88.06    59.29
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.565   7.565 (1.294)    85    538310 5000.00   5428.2  80.00- 120.00   100.00(A)
  7.565   7.565 (1.294)    43   3403150                  626.49- 686.49   632.19
  7.565   7.565 (1.294)    58   1362841                  241.15- 301.15   253.17
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.733   7.733 (1.323)    91   4583513 5000.00   5008.3  80.00- 120.00   100.00(A)
  7.733   7.733 (1.323)    92   2677712                   28.28-  88.28    58.42
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  8.293   8.293 (0.843)    75   2313586 5000.00   6781.7  80.00- 120.00   100.00(A)
  8.293   8.293 (0.843)    77    731982                    3.40-  63.40    31.64
  8.293   8.293 (0.843)    39   1289956                   26.11-  86.11    55.76
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.614   8.614 (0.876)    97   1598864 5000.00   5194.0  80.00- 120.00   100.00(A)
  8.614   8.614 (0.876)    99    987339                   31.77-  91.77    61.75
  8.614   8.614 (0.876)    83   1430641                   59.52- 119.52    89.48
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.628   8.628 (0.878)   166   1905533 5000.00   4953.0  80.00- 120.00   100.00
  8.628   8.628 (0.878)   129   1466107                   46.35- 106.35    76.94
  8.628   8.628 (0.878)   131   1408591                   44.43- 104.43    73.92
-------------------------------------------------------------------------------
  158 2-Hexanone                                    CAS #: 591-78-6
  9.006   9.006 (0.916)    58   1851444 5000.00   6074.6  80.00- 120.00   100.00(A)
  9.006   9.006 (0.916)    43   3314710                  150.37- 210.37   179.03
  9.020   9.020 (0.917)   100    360787                    0.00-  49.21    19.49
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  9.160   9.160 (0.932)   129   2733668 5000.00   5244.1  80.00- 120.00   100.00(A)
  9.160   9.160 (0.932)   127   2135081                   47.05- 107.05    78.10
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  9.300   9.300 (0.946)   107   2358843 5000.00   5252.5  80.00- 120.00   100.00(A)
  9.300   9.300 (0.946)   109   2200340                   66.34- 126.34    93.28
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.003)	112	3419851	5000.00	4990.8	80.00- 120.00	100.00
9.860	9.860 (1.003)	114	1102609			1.70- 61.70	32.24
9.860	9.860 (1.003)	77	2199861			32.92- 92.92	64.33
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.958 (1.013)	106	1773889	5000.00	4945.7	80.00- 120.00	100.00
9.958	9.958 (1.013)	91	6008228			302.14- 362.14	338.70
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.083 (1.026)	106	2173517	5000.00	5000.4	80.00- 120.00	100.00(A)
10.083	10.083 (1.026)	91	4663270			180.25- 240.25	214.55
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.064)	106	2117307	5000.00	5184.4	80.00- 120.00	100.00(A)
10.461	10.461 (1.064)	91	4795187			199.46- 259.46	226.48
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.067)	104	3339421	5000.00	5129.1	80.00- 120.00	100.00(A)
10.489	10.489 (1.067)	78	1930659			27.66- 87.66	57.81
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.085)	173	2502262	5000.00	5285.3	80.00- 120.00	100.00(A)
10.671	10.671 (1.085)	171	1309461			22.21- 82.21	52.33
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.097)	105	6359464	5000.00	4997.7	80.00- 120.00	100.00
10.783	10.783 (1.097)	120	1608440			0.00- 55.22	25.29
10.783	10.783 (1.097)	51	794860			0.00- 41.79	12.50
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.129)	83	3587183	5000.00	5934.1	80.00- 120.00	100.00(A)
11.105	11.105 (1.129)	85	2248052			32.79- 92.79	62.67
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.129)	91	8139895	5000.00	5125.8	80.00- 120.00	100.00(A)
11.105	11.105 (1.129)	120	1659803			0.00- 50.77	20.39
11.105	11.105 (1.129)	105	294064			0.00- 33.59	3.61
188 4-Ethyltoluene					CAS #: 622-96-8		
11.203	11.203 (1.139)	105	6395825	5000.00	5165.8	80.00- 120.00	100.00(A)
11.203	11.203 (1.139)	120	1804166			0.00- 57.71	28.21
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.144)	105	4466107	5000.00	4251.1	80.00- 120.00	100.00
11.245	11.245 (1.144)	120	2040088			15.95- 75.95	45.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.171)	105	4891157	5000.00	4966.8	80.00- 120.00	100.00
11.511	11.511 (1.171)	120	2088514			13.66- 73.66	42.70
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.191)	146	3188881	5000.00	5080.4	80.00- 120.00	100.00(A)
11.707	11.707 (1.191)	148	2027197			32.83- 92.83	63.57
11.707	11.707 (1.191)	111	1465376			14.66- 74.66	45.95
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.762	11.762 (1.196)	146	3007108	5000.00	4808.6	80.00- 120.00	100.00
11.762	11.762 (1.196)	148	1916146			32.12- 92.12	63.72
11.762	11.762 (1.196)	111	1361885			13.33- 73.33	45.29
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.206)	91	2910576	5000.00	4439.6	80.00- 120.00	100.00
11.860	11.860 (1.206)	126	550001			0.00- 49.13	18.90
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.219)	146	2765443	5000.00	4809.9	80.00- 120.00	100.00
11.986	11.986 (1.219)	148	1745249			33.72- 93.72	63.11
11.986	11.986 (1.219)	111	1309591			16.61- 76.61	47.36
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.854	12.854 (1.307)	180	1247830	5000.00	4161.4	80.00- 120.00	100.00
12.854	12.854 (1.307)	182	1182057			64.47- 124.47	94.73
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.312)	225	1066653	5000.00	4056.1	80.00- 120.00	100.00
12.896	12.896 (1.312)	223	676981			34.58- 94.58	63.47

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14091011.d
Lab Smp Id: ICAL Level 9
Analysis Type: VOA
Quant Type: ISTD
Operator: gh
Method File: /chem/msd14.i/10sep15.b/14550910a.m
Misc Info: 5000ppbv (5000ppbv)

Calibration Date: 10-SEP-2015
Calibration Time: 11:46
Client Smp ID: ICAL Level 9
Level: LOW
Sample Type: AIR

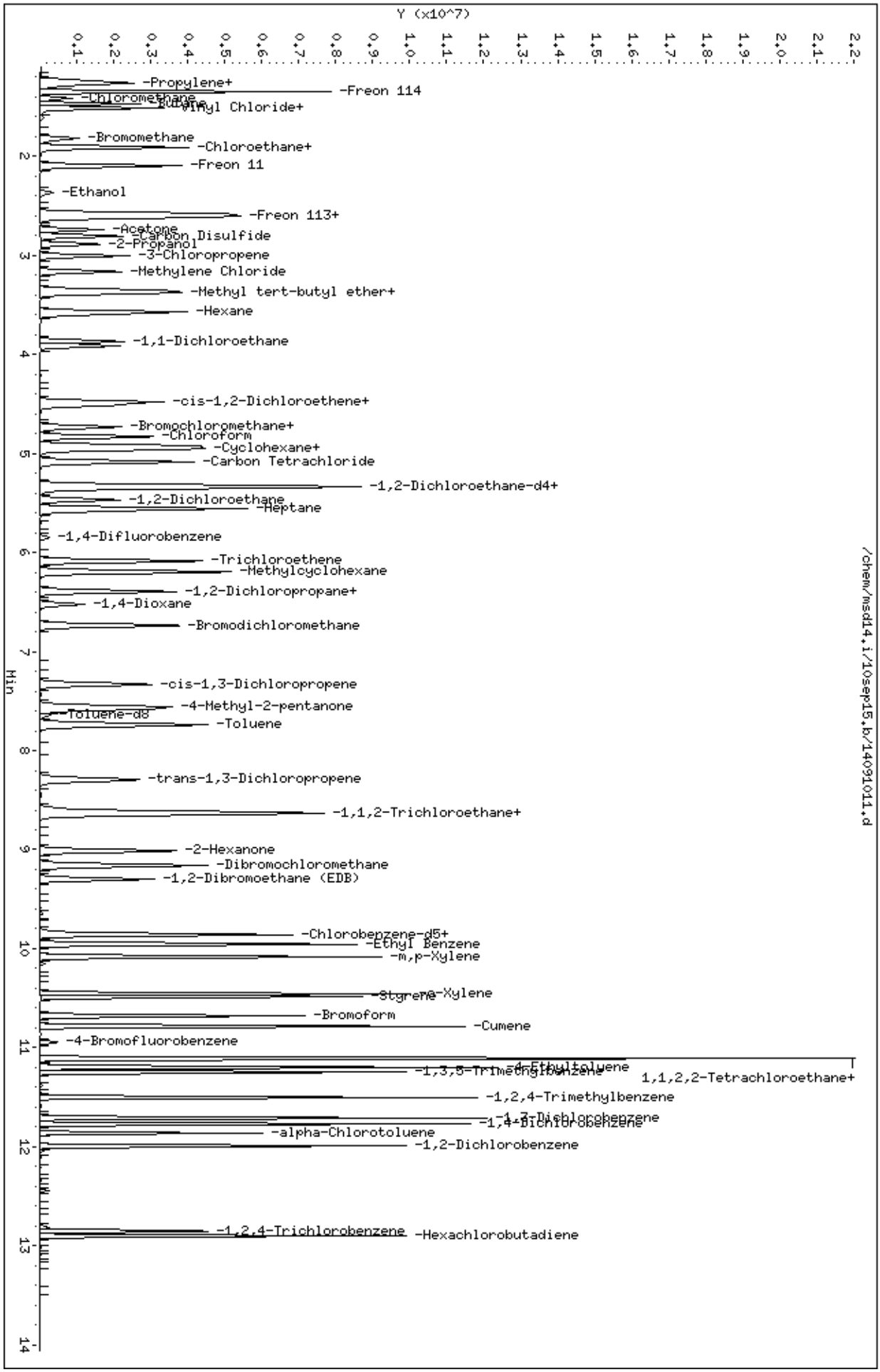
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	50636	-4.38
123 1,4-Difluorobenze	240311	144187	336435	233814	-2.70
163 Chlorobenzene-d5	202929	121757	284101	196798	-3.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.75	0.29
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.83	0.14

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/msd14.i/10sep15.b/14091011.d
Date : 10-SEP-2015 15:02
Client ID: ICAL Level 9
Sample Info: 50ml #2736-216
Column phase: RTX-624

Instrument: msd14.i
Operator: gh
Column diameter: 0.18



Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Calibration File Names:
Level 2: /chem/msd3.i/23oct15.b/3102310.d
Level 3: /chem/msd3.i/23oct15.b/3102303.d
Level 4: /chem/msd3.i/23oct15.b/3102304.d
Level 5: /chem/msd3.i/23oct15.b/3102305.d
Level 6: /chem/msd3.i/23oct15.b/3102306.d
Level 7: /chem/msd3.i/23oct15.b/3102307.d
Level 8: /chem/msd3.i/23oct15.b/3102308.d

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
8 Propane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++ 0.95625	1.40937	1.15325	0.78546	1.11397	1.17134	1.09827	19.247
10 1,1-Difluoroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	2.31160 2.32995	3.41592	2.80778	1.93101	2.64737	2.84116	2.61211	18.306
12 Vinyl Fluoride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	1.82825 1.48545	2.15926	1.81839	1.34517	1.71630	1.84272	1.74222	15.213
16 Freon 142b	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++ 0.92067	1.53966	1.15033	0.86727	1.09406	1.08563	1.10960	21.397

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
18 Isobutane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	+++++ / 0.19338	0.44755	0.24629	0.17125	0.21589	0.23138	0.25096	39.828
24 cis-2-Butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	1.10620 / 0.86461	1.36416	1.04449	0.71479	0.99082	1.05483	1.01998	19.845
26 1,3-Butadiene	1.35436 / 0.92710	1.49810	1.16386	0.78852	1.03946	1.13365	1.12929	21.478
27 3-Methyl-1-butene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
28 Methanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++ 0.61022	1.08827	0.74355	0.51798	0.71806	0.73440	0.73541	26.354
30 Chloroethane	+++++ 0.40827	0.80339	0.52679	0.39012	0.50342	0.51903	0.52517	28.221
31 Isopentane	+++++ 1.48823	2.31344	1.90875	1.45223	1.75507	1.85795	1.79594	17.588
32 Vinyl Bromide	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	3.61059 2.71466	4.14824	3.32324	2.41248	3.21216	3.38574	3.25816	17.496
36 1-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
38 2,3-Dimethylbutane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++ 0.52070	0.95777	0.70052	0.46936	0.59249	0.64099	0.64697	26.768
43 1,2-Dichloro-1-fluoroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD	
48 Freon 123	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	1.97546 1.43226	2.37809	1.74054	1.44952	1.71045	1.76301	1.77848	18.259	
50 1,1-Dichloroethene	1.01823 0.74674	1.08145	0.86263	0.61680	0.87768	0.92559	0.87559	17.996	
51 2,2-Dimethylbutane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++ 0.52121	1.05461	0.82400	0.44369	0.63125	0.65342	0.68803	32.161	<-
53 Iodomethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++ 2.10074	3.41464	2.71539	1.79424	2.52275	2.59538	2.52386	22.037	
57 2-Propanol	+++++ 2.49343	3.90206	2.97558	2.04709	2.92850	3.11642	2.91051	21.454	

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
58 3-Chloropropene	+++++ / 0.35916	0.53007	0.45663	0.30089	0.42216	0.44456	0.41891	19.081
59 Cyclopentene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Cyclopentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	2.34876 / 1.64667	2.81992	2.14415	1.43271	2.01672	2.08394	2.07041	21.904
67 2-Methyl-1-pentene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
68 2,4-Dimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++ 2.65980	4.10412	3.33710	2.46455	3.10250	3.29749	3.16093	18.331
72 Methyl tert-butyl ether	3.35682 2.56617	3.90512	2.93820	2.36504	3.05689	3.17572	3.05199	16.691
73 trans-1,2-Dichloroethene	0.55521 0.51999	0.78266	0.66676	0.43041	0.61573	0.64034	0.60159	18.812
74 Acrylonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
78 Hexane	2.64949 1.97265	3.13647	2.25096	1.69824	2.32774	2.44730	2.35469	19.730
79 Methylcyclopentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	2.30529 2.00089	2.90115	2.42559	1.61972	2.36879	2.51510	2.30522	17.534
83 Isopropyl ether	+++++ 5.08305	7.37079	5.98619	4.77265	6.05511	6.36119	5.93816	15.684
84 1-Propanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++ 0.22917	0.28033	0.26137	0.17795	0.27010	0.28419	0.25052	16.210
87 Butanal	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
88 Ethyl-tert-butyl ether	+++++ / 4.27272	6.24995	5.09247	3.80660	5.02388	5.25624	4.95031	17.082
89 Isobutyl chloride	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	0.70487 / 0.57998	1.02480	0.71149	0.45965	0.67976	0.71028	0.69583	24.768
92 2-Butanone	+++++ / 0.42223	0.60578	0.45655	0.32461	0.50720	0.53315	0.47492	20.471
93 Methyl Acrylate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
99 Tetrahydrofuran	2.19033 1.80481	2.60503	2.13692	1.51325	2.16936	2.29017	2.10141	16.678
100 Chloroform	2.06800 2.09567	3.12868	2.48251	1.70533	2.48272	2.61419	2.36816	19.418
101 1-Bromopropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	1.46547 1.13190	1.60599	1.43542	1.06136	1.36147	1.44510	1.35810	14.283
103 1,1,1-Trichloroethane	2.52997 2.40309	3.44484	2.91354	2.25110	2.90025	3.01976	2.78036	14.801
104 Chloroacetonitrile	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	3.08903 2.60869	3.89801	3.10629	2.41643	3.09921	3.27041	3.06972	15.556
107 1,1-Dichloropropene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
109 2-Methylhexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Cyclohexene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	8.13074 6.98868	10.46344	8.35323	6.04173	8.35256	8.67286	8.14332	17.002
114 1-Methoxy-2-propanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	0.78546 0.57000	0.86900	0.71169	0.50066	0.69622	0.70676	0.69140	17.927
118 1-Heptene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++ 0.17277	0.24156	0.19899	0.16420	0.21897	0.21320	0.20162	14.494
120 1,2-Dichloroethane	0.53354 0.43228	0.68298	0.52383	0.37256	0.54516	0.54502	0.51934	18.842

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Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
121 Heptane	0.33837 / 0.20915	0.31022	0.27083	0.21641	0.26291	0.25621	0.26630	17.488
122 2,3-Dichloro-1-propene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 n-Butanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	0.37634 / 0.29391	0.41613	0.36141	0.26051	0.36054	0.36743	0.34804	15.176
126 Bromodichloroethene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	0.49096 / 0.36424	0.54143	0.43528	0.34744	0.44782	0.45000	0.43960	15.366
128 Ethyl acrylate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
132 1,2-Dichloropropane	0.38735 0.30088	0.43926	0.37564	0.27595	0.37386	0.37265	0.36080	15.258
133 1-Bromo-2-Chloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 Diethyl Ketone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	+++++ 0.14711	0.21433	0.17989	0.13778	0.18753	0.18275	0.17490	16.072
137 Dibromomethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Bromodichloromethane	0.63093 0.55326	0.85381	0.64103	0.48288	0.67964	0.67386	0.64506	17.962
139 2-Nitropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
142 Epichlorohydrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Ether	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropene	0.53419 / 0.43763	0.64948	0.52562	0.37783	0.54239	0.54282	0.51571	16.772
145 4-Methyl-2-pentanone	0.50116 / 0.31657	0.51797	0.40199	0.30162	0.39667	0.38594	0.40313	20.489
147 Toluene	0.96299 / 0.80944	1.21297	0.93370	0.76682	1.00080	1.01692	0.95766	15.344
148 Octane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloropropene	0.48698 / 0.43189	0.58398	0.48925	0.40028	0.54713	0.54987	0.49848	13.361
151 Ethyl Methacrylate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
153 1-Nitropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	0.36155 0.27863	0.42601	0.33702	0.27510	0.35341	0.35214	0.34055	15.246
156 Tetrachloroethene	0.52414 0.40015	0.59355	0.47201	0.40041	0.51867	0.50518	0.48773	14.335
157 1,3-Dichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	0.54120 0.43994	0.68029	0.54757	0.45461	0.55807	0.55809	0.53997	14.680
159 Butyl Acetate	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	0.71253 0.59467	0.81117	0.66276	0.58381	0.75082	0.74455	0.69433	12.170
161 1,2-Dibromoethane (EDB)	0.51920 0.45632	0.70789	0.52990	0.45305	0.57671	0.57957	0.54609	16.023
162 1-Nonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
164 1-Chlorohexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	0.95412 0.68441	1.01378	0.81951	0.69558	0.87011	0.87108	0.84408	14.547
166 Butyl Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	0.39932 0.34827	0.56438	0.42813	0.37176	0.45081	0.44253	0.42931	16.377
168 1,1,1,2-Tetrachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	0.59412 0.44214	0.61962	0.52671	0.46356	0.56328	0.56578	0.53932	12.222
170 Nonane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	0.60989 0.41636	0.65317	0.48897	0.45013	0.52454	0.52507	0.52402	16.030
172 Styrene	0.90024 0.71273	1.04997	0.83562	0.74170	0.90431	0.89583	0.86291	13.143
173 2-Heptanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
174 Bromoform	0.79231 0.58946	0.86436	0.65825	0.60136	0.73292	0.74181	0.71150	14.187
175 Cumene	1.76418 1.37396	2.04198	1.56190	1.42904	1.73904	1.71996	1.66144	13.711
176 Cyclohexanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
178 1-Decene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroethane	0.86100 0.63504	0.93415	0.78173	0.67146	0.81525	0.80126	0.78570	13.205
182 Propylbenzene	2.11309 1.60957	2.41456	1.83975	1.70849	2.03121	2.02143	1.96258	13.789
183 1,4-Dichloro-2-Butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
185 1,2,3-Trichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	0.58468 0.41219	0.60116	0.47123	0.44082	0.52729	0.50902	0.50663	13.949
189 2-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	0.87988 0.55986	0.80810	0.67816	0.60013	0.73093	0.70852	0.70937	15.713
191 4-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
195 tert-Butylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	1.64855 1.18376	1.73124	1.41967	1.23478	1.49092	1.48713	1.45658	13.713
197 Pentachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.50000 Level 2 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
205 2-Ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
207 p-Cymene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
208 1,3-Dichlorobenzene	0.96910 0.76762	1.18102	0.92839	0.82349	0.98044	0.96915	0.94560	13.965
209 1,4-Dichlorobenzene	1.19847 0.77523	1.18664	0.94942	0.82577	0.98133	0.98861	0.98650	16.390
210 1,2,3-Trimethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
211 1-Undecene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
212 alpha-Chlorotoluene	1.41710 1.18965	1.60303	1.26876	1.19337	1.47995	1.49306	1.37785	11.751
213 Butylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
214 1,2-Dichlorobenzene	0.89833 0.73776	1.10271	0.88660	0.77879	0.94088	0.93459	0.89710	13.275

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Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
215 Undecane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylbenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
222 1-Dodecene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
225 Dodecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++ / 0.71224	0.87282	0.74598	0.62281	0.87158	0.86560	0.78184	13.386
227 Hexachlorobutadiene	+++++ / 0.59219	0.76300	0.65002	0.50593	0.71183	0.71807	0.65684	14.450
228 Naphthalene	+++++ / 1.90516	1.98501	1.88470	1.65962	2.35425	2.35562	2.02406	13.743
229 1,2,3-Trichlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
230 Tridecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
235 Phenanthrene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (Total)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Heptane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasoline	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
245 TPH reference MineralSpirits	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stoddard	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Heptane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Toluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Toluene-d8	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Heptane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Toluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
254 C3 - C4 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
255 C4 - C5 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref C5 + C6	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref Heptane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref Decane	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 23-Oct-2015 16:17 cbond
Curve Type : Average

Compound	0.50000 Level 2 / 200.000 Level 8	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
265 C10-C12 Aliphatic ref Dodecan	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naphthalene	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 117 1,2-Dichloroethane-d4	2.03722 2.31577	2.19518	2.22413	2.09560	2.12826	2.29249	2.18410	4.704
$ 146 Toluene-d8	1.03629 1.10888	1.07598	1.09692	1.03609	1.06137	1.09692	1.07321	2.766
$ 177 4-Bromofluorobenzene	0.62967 0.61871	0.61545	0.60001	0.62975	0.62150	0.60722	0.61747	1.788

Calibration History

Method : /chem/msd3.i/23oct15.b/315q1023a.m
Start Cal Date: 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
23-OCT-2015 15:51	AT12low	/chem/msd3.i/23oct15.b/3102310.d

Injection Date	Sublist	Calibration File
Cal Level: 3 , Cal Amount: 2.00000		
23-OCT-2015 11:41	AT12curve	/chem/msd3.i/23oct15.b/3102303.d

Injection Date	Sublist	Calibration File
Cal Level: 4 , Cal Amount: 5.00000		
23-OCT-2015 12:13	AT12curve	/chem/msd3.i/23oct15.b/3102304.d

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 20.00000		
23-OCT-2015 12:37	AT12	/chem/msd3.i/23oct15.b/3102305.d

Injection Date	Sublist	Calibration File
Cal Level: 6 , Cal Amount: 50.00000		
23-OCT-2015 13:02	AT12	/chem/msd3.i/23oct15.b/3102306.d

Injection Date	Sublist	Calibration File
Cal Level: 7 , Cal Amount: 100.00000		
23-OCT-2015 13:27	AT12	/chem/msd3.i/23oct15.b/3102307.d

Injection Date	Sublist	Calibration File
Cal Level: 8 , Cal Amount: 200.00000		
23-OCT-2015 13:59	AT12	/chem/msd3.i/23oct15.b/3102308.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

Ccal Level: 6 , Ccal Amount: 50.000		
23-OCT-2015 13:02	AT12	/chem/msd3.i/23oct15.b/3102306.d
Ccal Level: 6 , Ccal Amount: 50.000		
23-OCT-2015 13:02	AT12	/chem/msd3.i/23oct15.b/3102306a.d

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 23-OCT-2015 11:17
End Cal Date : 23-OCT-2015 15:51
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd3.i/23oct15.b/315q1023a.m
Cal Date : 24-Oct-2015 16:43 sblack
Curve Type : Average

10/26/15

Calibration File Names:
Level 2: /chem/msd3.i/23oct15.b/3102310.d
Level 3: /chem/msd3.i/23oct15.b/3102303.d
Level 4: /chem/msd3.i/23oct15.b/3102304.d
Level 5: /chem/msd3.i/23oct15.b/3102305.d
Level 6: /chem/msd3.i/23oct15.b/3102306.d
Level 7: /chem/msd3.i/23oct15.b/3102307.d
Level 8: /chem/msd3.i/23oct15.b/3102308.d

Compound	0.50000 Level 2	2.000 Level 3	5.000 Level 4	20.000 Level 5	50.000 Level 6	100.000 Level 7	RRF	% RSD
	200.000 Level 8							
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Initial Calibration Narrative

315Q1023A.m

A 7 point AT-12 initial calibration was analyzed on MSD-3 on 10/23/15.

ICAL level 2 (0.5ppbv) was re0run due to poor resolution on Vinyl Chloride.

ICAL: 1 out; Acetone @ 32% RSD

AT-12 ICV: 0 out
OK for DoD 4.2 & 5.0
File: 3102311; 50ml: #2736-272 (200ppbv→50ppbv); exp: 10/30/15

CAR#F9A2A2185 due to expired second source for Naphthalene.

BFB tune file: 3102301

The MDL study was performed on 4/17/15.

MSD3

BFB Tune Verification: (259904/268288)* 100 = 96.88%

IS/S Std.#:	2759-35	Exp. Date:	1/19/2016
BCM	133140		
1,4-DFB	566731		
CB-d5	553811		

Method TO-15/TO-14			
SOP# 6			
Vacuum:	NA		
Surrogate# 2759-35		Exp. Date:	1/19/2016
Surrogate# NA		Exp. Date:	NA

verified: cb

Method: 315q1023a.m / 315v1023a1 / 315v1023c5 / 315v1023TRH

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	3102301	BFB Tune Check	2736-220	12	36ng	1.0ml	1.00	cb	cb	10/23/15	1040	cb	
X	3102302	ICAL Level 2	2759-25	4	0.5ppbv	20ml	1.00	cb	cb	10/23/15	1117	cb	exp. 11/20/15; poor VC resolution
√	3102303	ICAL Level 3	2759-25	4	2.0ppbv	80ml	1.00	cb	cb	10/23/15	1141	cb	exp. 11/20/15
√	3102304	ICAL Level 4	2759-25	4	5.0ppbv	200ml	1.00	cb	cb	10/23/15	1213	cb	exp. 11/20/15
√	3102305	ICAL Level 5	2759-2	13	20ppbv	20ml	1.00	cb	cb	10/23/15	1237	cb	exp. 11/20/15
√	3102306	ICAL Level 6	2759-2	13	50ppbv	50ml	1.00	cb	cb	10/23/15	1302	cb	exp. 11/20/15; CCV
√	3102307	ICAL Level 7	2759-2	13	100ppbv	100ml	1.00	cb	cb	10/23/15	1327	cb	exp. 11/20/15
√	3102308	ICAL Level 8	2759-2	13	200ppbv	200ml	1.00	cb	cb	10/23/15	1359	cb	exp. 11/20/15
√	3102309	System Blank	403	12	Humid	200ml	1.00	cb	cb	10/23/15	1453	cb	
√	3102310	ICAL Level 2	2759-25	4	0.5ppbv	20ml	1.00	cb	cb	10/23/15	1551	cb	exp. 11/20/15
√	3102311	ICV	2736-272	14	50ppbv	50ml	1.00	cb	cb	10/23/15	1616	js	exp. 10/30/15
√	3102312	System Blank	403	12	Humid	200ml	1.00	js	js	10/23/15	1748	js	
√	3102313	Test Calibration CCV	2759-17	1	50ppbv	50ml	1.00	js	js	10/23/15	1840	js	VPH; exp. 1/14/16
X	3102314	Test Calibration CCV	2759-37	2	50ppbv	50ml	1.00	js	js	10/23/15	1905	cb	VPH; exp. 1/22/16
√	3102315	Test Calibration LCS	2759-38	3	50ppbv	50ml	1.00	js	js	10/23/15	1930	js	VPH; exp. 1/22/16
X	3102316	Test Calibration LCS	2759-39	5	50ppbv	50ml	1.00	js	js	10/23/15	1955	cb	VPH; exp. 1/22/16
X	3102317	System Blank	403	12	Humid	200ml	1.00	js	js	10/23/15	2022	cb	
√	3102318	System Blank	403	12	Humid	200ml	1.00	cb	js	10/23/15	2312	cb	
√	3102319	ICAL Level ~~#1~~ #3	2759-24	6	2.0ppbv (10ppbv)	40ml	1.00	cb	js	10/23/15	2337	cb	VPH; exp. 1/14/16
√	3102320	ICAL Level ~~#2~~ #9	2759-24	6	10ppbv (10ppbv)	200ml	1.00	cb	js	10/24/15	0003	cb	VPH; exp. 1/14/16
√	3102321	ICAL Level ~~#3~~ #5	2759-17	1	20ppbv (200ppbv)	20ml	1.00	cb	js	10/24/15	0027	cb	VPH; exp. 1/14/16
√	3102322	ICAL Level ~~#4~~ #6	2759-17	1	50ppbv (200ppbv)	50ml	1.00	cb	js	10/24/15	0052	cb	VPH; exp. 1/14/16 CCV
√	3102323	ICAL Level ~~#5~~ #7	2759-17	1	100ppbv (200ppbv)	100ml	1.00	cb	js	10/24/15	0117	cb	VPH; exp. 1/14/16
√	3102324	ICAL Level ~~#6~~ #8	2759-17	1	200ppbv (200ppbv)	200ml	1.00	cb	js	10/24/15	0143	cb	VPH; exp. 1/14/16
√	3102325	System Blank	403	12	Humid	200ml	1.00	cb	js	10/24/15	0210	cb	
√	3102326	System Blank	403	12	Humid	200ml	1.00	cb	js	10/24/15	0237	cb	
√	3102327	VPH ICV	2759-38	3	50ppbv	50ml	1.00	cb	cb	10/24/15	0855	cb	

10/25/15

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102311.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 23-OCT-2015 16:16
Operator : cb Inst ID: msd3.i
Smp Info : 50mL #2736-272
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 16:17 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	137006	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	107428			42.88- 102.88	78.41
5.592	5.592 (1.000)	49	334249			207.65- 267.65	243.97
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.474 (1.000)	114	604651	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	95160			0.00- 45.78	15.74
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	582103	25.0000		80.00- 120.00	100.00
8.942	8.942 (1.000)	82	335233			26.67- 86.67	57.59
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	285985	23.8931	23.893	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	145734			22.68- 82.68	50.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	638891	24.6137	24.614	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	72854			0.00- 41.75	11.40
7.702	7.702 (1.187)	100	412391			34.13- 94.13	64.55
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.923 (1.111)	174	363342	25.2719	25.272	80.00- 120.00	100.00
9.930	9.923 (1.111)	95	467782			96.73- 156.73	128.74
9.930	9.923 (1.111)	176	345608			65.47- 125.47	95.12
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	319674	53.1125	53.112	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	212064			37.10- 97.10	66.34
1.577	1.577 (0.282)	39	221781			40.83- 100.83	69.38
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	799266	55.8341	55.834	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	261382			2.62- 62.62	32.70
15 Freon 114					CAS #: 76-14-2		
1.730	1.730 (0.309)	135	517041	54.1529	54.153	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	170007			1.99- 61.99	32.88
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	323728	53.2369	53.237	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	106880			2.33- 62.33	33.02
23 Butane					CAS #: 106-97-8		
1.884	1.898 (0.337)	58	68789	50.0180	50.018	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	607844			902.69- 962.69	883.63
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	304770	54.5229	54.523	80.00- 120.00	100.00
1.940	1.940 (0.347)	64	88535			0.00- 58.77	29.05
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.954 (0.352)	54	304534	49.2073	49.207	80.00- 120.00	100.00
1.968	1.954 (0.352)	39	325955			79.69- 139.69	107.03
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	217381	53.9374	53.937	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	201014			63.59- 123.59	92.47
30 Chloroethane					CAS #: 75-00-3		
2.444	2.458 (0.437)	64	152294	52.9155	52.916	80.00- 120.00	100.00
2.444	2.458 (0.437)	66	47174			0.12- 60.12	30.98

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)								
2.444	2.458	(0.437)	49	66624			13.60- 73.60	43.75
31 Isopentane						CAS #: 78-78-4		
2.472	2.472	(0.442)	43	523762	53.2159	53.216	80.00- 120.00	100.00
2.472	2.472	(0.442)	57	305573			28.52- 88.52	58.34
35 Freon 11						CAS #: 75-69-4		
2.710	2.710	(0.485)	101	948314	53.1104	53.110	80.00- 120.00	100.00
2.710	2.710	(0.485)	103	606375			33.61- 93.61	63.94
42 Ethanol						CAS #: 64-17-5		
3.074	3.074	(0.550)	45	187272	52.8187	52.819	80.00- 120.00	100.00
3.074	3.074	(0.550)	43	36657			0.00- 51.11	19.57
3.074	3.074	(0.550)	46	73180			10.70- 70.70	39.08
49 Freon 113						CAS #: 76-13-1		
3.368	3.381	(0.602)	151	506399	51.9571	51.957	80.00- 120.00	100.00
3.368	3.381	(0.602)	153	315576			35.19- 95.19	62.32
3.368	3.381	(0.602)	101	600423			88.07- 148.07	118.57
50 1,1-Dichloroethene						CAS #: 75-35-4		
3.396	3.395	(0.607)	96	261861	54.5721	54.572	80.00- 120.00	100.00
3.396	3.395	(0.607)	98	166749			35.15- 95.15	63.68
3.396	3.395	(0.607)	61	635885			221.75- 281.75	242.83
52 Acetone						CAS #: 67-64-1		
3.549	3.549	(0.635)	58	192590	51.0773	51.077	80.00- 120.00	100.00
3.549	3.549	(0.635)	43	723285			351.83- 411.83	375.56
56 Carbon Disulfide						CAS #: 75-15-0		
3.633	3.633	(0.650)	76	642932	46.4836	46.484	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0		
3.717	3.717	(0.665)	45	871667	54.6488	54.649	80.00- 120.00	100.00
3.717	3.717	(0.665)	43	155024			0.00- 48.10	17.78
3.717	3.717	(0.665)	59	29620			0.00- 33.34	3.40
58 3-Chloropropene						CAS #: 107-05-1		
3.871	3.871	(0.692)	76	118830	51.7613	51.761	80.00- 120.00	100.00
3.871	3.871	(0.692)	41	598330			488.81- 548.81	503.51
66 Methylene Chloride						CAS #: 75-09-2		
4.053	4.039	(0.725)	49	579985	51.1164	51.116	80.00- 120.00	100.00
4.053	4.039	(0.725)	84	234797			9.02- 69.02	40.48
4.053	4.039	(0.725)	51	168198			0.00- 59.58	29.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	67638	3.90460	3.905	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	15764			0.00- 53.22	23.31
4.193	4.179 (0.750)	57	10423			0.00- 41.48	15.41
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	877272	52.4506	52.451	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	282136			2.00- 62.00	32.16
4.277	4.277 (0.765)	41	294000			3.65- 63.65	33.51
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	158228	47.9941	47.994	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	507839			296.65- 356.65	320.95
4.291	4.291 (0.767)	96	243292			124.62- 184.62	153.76
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	672244	52.0946	52.094	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	507387			44.95- 104.95	75.48
4.501	4.501 (0.805)	86	67676			0.00- 40.12	10.07
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	684887	54.2134	54.213	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	200605			0.00- 58.92	29.29
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	78562	57.2236	57.224	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	1449835			2043.04-2103.04	1845.47
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	220882	57.9237	57.924	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	344554			121.93- 181.93	155.99
5.368	5.368 (0.960)	61	655778			268.28- 328.28	296.89
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	145110	55.7541	55.754	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	1053497			717.19- 777.19	726.00
5.396	5.396 (0.965)	57	76518			21.09- 81.09	52.73
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.606 (1.000)	42	605052	52.5390	52.539	80.00- 120.00	100.00
5.592	5.606 (1.000)	71	128084			0.00- 49.93	21.17
5.592	5.606 (1.000)	72	132259			0.00- 50.49	21.86
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	721204	55.5709	55.571	80.00- 120.00	100.00
5.662	5.648 (1.012)	85	470839			34.28- 94.28	65.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	407106	54.6984	54.698	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	800589			165.55- 225.55	196.65
5.760	5.760 (1.030)	41	466979			88.39- 148.39	114.71
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.788	5.774 (1.035)	97	821666	53.9254	53.925	80.00- 120.00	100.00
5.788	5.774 (1.035)	99	531272			33.59- 93.59	64.66
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.886 (1.055)	119	892350	53.0439	53.044	80.00- 120.00	100.00
5.900	5.886 (1.055)	117	922124			75.03- 135.03	103.34
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.082 (1.090)	57	2438441	54.6400	54.640	80.00- 120.00	100.00
6.096	6.082 (1.090)	56	783846			2.46- 62.46	32.15
6.096	6.082 (1.090)	41	680508			0.00- 55.56	27.91
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	895075	53.5261	53.526	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	211201			0.00- 54.02	23.60
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	657101	52.3139	52.314	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	199356			0.97- 60.97	30.34
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	329498	51.1582	51.158	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	1106781			309.54- 369.54	335.90
6.250	6.250 (0.963)	57	589943			143.16- 203.16	179.04
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	446794	53.0781	53.078	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	444648			68.86- 128.86	99.52
6.685	6.685 (1.030)	97	291499			32.82- 92.82	65.24
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	567309	53.3580	53.358	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	271357			17.65- 77.65	47.83
6.786	6.786 (1.046)	55	789231			110.81- 170.81	139.12
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	469866	53.8449	53.845	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	331531			41.59- 101.59	70.56
6.922	6.922 (1.067)	41	328782			40.69- 100.69	69.97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	225003	53.1906	53.191	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	247178			79.36- 139.36	109.86
7.008	7.008 (1.080)	57	83850			6.63- 66.63	37.27
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.136 (1.101)	83	861862	55.2425	55.242	80.00- 120.00	100.00
7.144	7.136 (1.101)	85	545267			34.24- 94.24	63.27
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	628761	50.4102	50.410	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	202406			2.36- 62.36	32.19
7.523	7.523 (1.160)	39	480946			46.86- 106.86	76.49
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.638 (1.176)	58	488683	50.1207	50.121	80.00- 120.00	100.00
7.631	7.638 (1.176)	43	1445510			274.73- 334.73	295.80
7.631	7.638 (1.176)	85	141978			0.00- 58.76	29.05
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	1236041	53.3648	53.365	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	723329			27.05- 87.05	58.52
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	7.996 (0.895)	75	661402	56.9846	56.985	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	206656			0.84- 60.84	31.25
7.996	7.996 (0.894)	39	446689			38.83- 98.83	67.54
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.161 (0.912)	97	427330	53.8917	53.892	80.00- 120.00	100.00
8.154	8.161 (0.912)	99	266704			32.22- 92.22	62.41
8.154	8.161 (0.912)	83	370426			54.60- 114.60	86.68
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	619183	54.5233	54.523	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	483147			47.11- 107.11	78.03
8.197	8.197 (0.917)	131	468009			43.50- 103.50	75.58
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.326 (0.930)	58	668303	53.1552	53.155	80.00- 120.00	100.00
8.318	8.326 (0.930)	43	1426154			189.79- 249.79	213.40
8.318	8.326 (0.930)	100	87868			0.00- 43.05	13.15
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.476 (0.947)	129	916480	56.6889	56.689	80.00- 120.00	100.00
8.469	8.476 (0.947)	127	702355			46.79- 106.79	76.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.583 (0.961)	107	699620	55.0221	55.022	80.00- 120.00	100.00
8.591	8.583 (0.961)	109	664003			64.52- 124.52	94.91
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	1049537	53.4013	53.401	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	326570			2.26- 62.26	31.12
8.963	8.963 (1.002)	77	627285			30.55- 90.55	59.77
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	538870	53.9075	53.908	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	1776136			294.90- 354.90	329.60
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.114 (1.018)	106	689301	54.8915	54.891	80.00- 120.00	100.00
9.106	9.114 (1.018)	91	1457405			185.23- 245.23	211.43
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	662264	54.2781	54.278	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	1465611			194.61- 254.61	221.30
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	1079210	53.7130	53.713	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	601723			26.13- 86.13	55.76
174 Bromoform					CAS #: 75-25-2		
9.679	9.679 (1.083)	173	910565	54.9640	54.964	80.00- 120.00	100.00
9.679	9.679 (1.083)	171	466198			22.32- 82.32	51.20
175 Cumene					CAS #: 98-82-8		
9.744	9.744 (1.090)	105	2095118	54.1583	54.158	80.00- 120.00	100.00
9.744	9.744 (1.090)	120	551397			0.00- 56.11	26.32
9.737	9.744 (1.089)	51	331434			0.00- 46.14	15.82
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.059	10.045 (1.125)	83	1002079	54.7755	54.776	80.00- 120.00	100.00
10.059	10.045 (1.125)	85	640876			34.99- 94.99	63.95
182 Propylbenzene					CAS #: 103-65-1		
10.088	10.088 (1.128)	91	2560090	56.0231	56.023	80.00- 120.00	100.00
10.088	10.088 (1.128)	120	584107			0.00- 52.84	22.82
10.088	10.088 (1.128)	105	91976			0.00- 33.71	3.59
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.181 (1.139)	120	633365	53.6914	53.691	80.00- 120.00	100.00
10.181	10.181 (1.139)	105	2127198			305.47- 365.47	335.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	856483	51.8546	51.855	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	1824086			180.29- 240.29	212.97
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.560	10.553 (1.181)	105	1764768	52.0349	52.035	80.00- 120.00	100.00
10.560	10.553 (1.181)	120	784981			13.81- 73.81	44.48
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.854	10.847 (1.214)	146	1196827	54.3580	54.358	80.00- 120.00	100.00
10.854	10.847 (1.214)	148	767423			33.25- 93.25	64.12
10.854	10.847 (1.214)	111	500026			12.53- 72.53	41.78
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.933	10.933 (1.223)	146	1199996	52.2426	52.242	80.00- 120.00	100.00
10.933	10.933 (1.223)	148	758931			32.78- 92.78	63.24
10.933	10.933 (1.223)	111	478634			10.80- 70.80	39.89
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.055	11.048 (1.236)	91	1784156	55.6125	55.612	80.00- 120.00	100.00
11.055	11.048 (1.236)	126	366496			0.00- 49.93	20.54
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.270	11.255 (1.260)	146	1129969	54.0964	54.096	80.00- 120.00	100.00
11.270	11.255 (1.260)	148	715204			34.01- 94.01	63.29
11.262	11.255 (1.260)	111	496074			13.60- 73.60	43.90
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.702	12.702 (1.421)	180	941273	51.7058	51.706	80.00- 120.00	100.00
12.709	12.702 (1.421)	182	904402			64.08- 124.08	96.08
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.795	12.795 (1.431)	225	796764	52.0966	52.097	80.00- 120.00	100.00
12.795	12.795 (1.431)	223	498776			32.97- 92.97	62.60
228 Naphthalene					CAS #: 91-20-3		
12.989	12.989 (1.453)	128	205502	4.36048	4.360	80.00- 120.00	100.00
12.982	12.989 (1.452)	127	26993			0.00- 42.95	13.14

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102311.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 23-OCT-2015
Calibration Time: 13:02
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	137006	2.90
123 1,4-Difluorobenze	566731	340039	793423	604651	6.69
163 Chlorobenzene-d5	553811	332287	775335	582103	5.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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.

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 23oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: cb
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	53.112	106.23	70-130
11 Freon 12	50.000	55.834	111.67	70-130
15 Freon 114	50.000	54.153	108.31	70-130
17 Chloromethane	50.000	53.237	106.47	70-130
23 Butane	50.000	50.018	100.04	70-130
25 Vinyl Chloride	50.000	54.523	109.05	70-130
26 1,3-Butadiene	50.000	49.207	98.41	70-130
29 Bromomethane	50.000	53.937	107.87	70-130
30 Chloroethane	50.000	52.916	105.83	70-130
31 Isopentane	50.000	53.216	106.43	70-130
35 Freon 11	50.000	53.110	106.22	70-130
42 Ethanol	50.000	52.819	105.64	70-130
49 Freon 113	50.000	51.957	103.91	70-130
50 1,1-Dichloroethene	50.000	54.572	109.14	70-130
52 Acetone	50.000	51.077	102.15	70-130
56 Carbon Disulfide	50.000	46.484	92.97	70-130
57 2-Propanol	50.000	54.649	109.30	70-130
58 3-Chloropropene	50.000	51.761	103.52	70-130
66 Methylene Chloride	50.000	51.116	102.23	70-130
72 Methyl tert-butyl	50.000	52.451	104.90	70-130
73 trans-1,2-Dichloro	50.000	47.994	95.99	70-130
78 Hexane	50.000	52.094	104.19	70-130
82 1,1-Dichloroethane	50.000	54.213	108.43	70-130
86 Vinyl Acetate	50.000	57.224	114.45	70-130
91 cis-1,2-Dichloroet	50.000	57.924	115.85	70-130
92 2-Butanone	50.000	55.754	111.51	70-130
99 Tetrahydrofuran	50.000	52.539	105.08	70-130
100 Chloroform	50.000	55.571	111.14	70-130
103 1,1,1-Trichloroeth	50.000	53.925	107.85	70-130
106 Carbon Tetrachlori	50.000	53.044	106.09	70-130
102 Cyclohexane	50.000	54.698	109.40	70-130
113 2,2,4-Trimethylpen	50.000	54.640	109.28	70-130
116 Benzene	50.000	53.526	107.05	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	52.314	104.63	70-130
121 Heptane	50.000	51.158	102.32	70-130
125 Trichloroethene	50.000	53.078	106.16	70-130
127 Methylcyclohexane	50.000	53.358	106.72	70-130
132 1,2-Dichloropropan	50.000	53.845	107.69	70-130
136 1,4-Dioxane	50.000	53.191	106.38	70-130
138 Bromodichlorometha	50.000	55.242	110.49	70-130
144 cis-1,3-Dichloropr	50.000	50.410	100.82	70-130
145 4-Methyl-2-pentano	50.000	50.121	100.24	70-130
147 Toluene	50.000	53.365	106.73	70-130
150 trans-1,3-Dichloro	50.000	56.985	113.97	70-130
155 1,1,2-Trichloroeth	50.000	53.892	107.78	70-130
156 Tetrachloroethene	50.000	54.523	109.05	70-130
158 2-Hexanone	50.000	53.155	106.31	70-130
160 Dibromochlorometha	50.000	56.689	113.38	70-130
161 1,2-Dibromoethane	50.000	55.022	110.04	70-130
165 Chlorobenzene	50.000	53.401	106.80	70-130
167 Ethyl Benzene	50.000	53.908	107.82	70-130
169 m,p-Xylene	50.000	54.891	109.78	70-130
171 o-Xylene	50.000	54.278	108.56	70-130
172 Styrene	50.000	53.713	107.43	70-130
174 Bromoform	50.000	54.964	109.93	70-130
175 Cumene	50.000	54.158	108.32	70-130
181 1,1,2,2-Tetrachlor	50.000	54.776	109.55	70-130
182 Propylbenzene	50.000	56.023	112.05	70-130
188 4-Ethyltoluene	50.000	53.691	107.38	70-130
190 1,3,5-Trimethylben	50.000	51.855	103.71	70-130
196 1,2,4-Trimethylben	50.000	52.035	104.07	70-130
208 1,3-Dichlorobenzen	50.000	54.358	108.72	70-130
209 1,4-Dichlorobenzen	50.000	52.242	104.49	70-130
212 alpha-Chlorotoluen	50.000	55.612	111.23	70-130
214 1,2-Dichlorobenzen	50.000	54.096	108.19	70-130
226 1,2,4-Trichloroben	50.000	51.706	103.41	70-130
227 Hexachlorobutadien	50.000	52.097	104.19	70-130
228 Naphthalene	5.000	4.360	87.21	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	23.893	95.57	70-130
$ 146 Toluene-d8	25.000	24.614	98.45	70-130
$ 177 4-Bromofluorobenze	25.000	25.272	101.09	70-130

Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

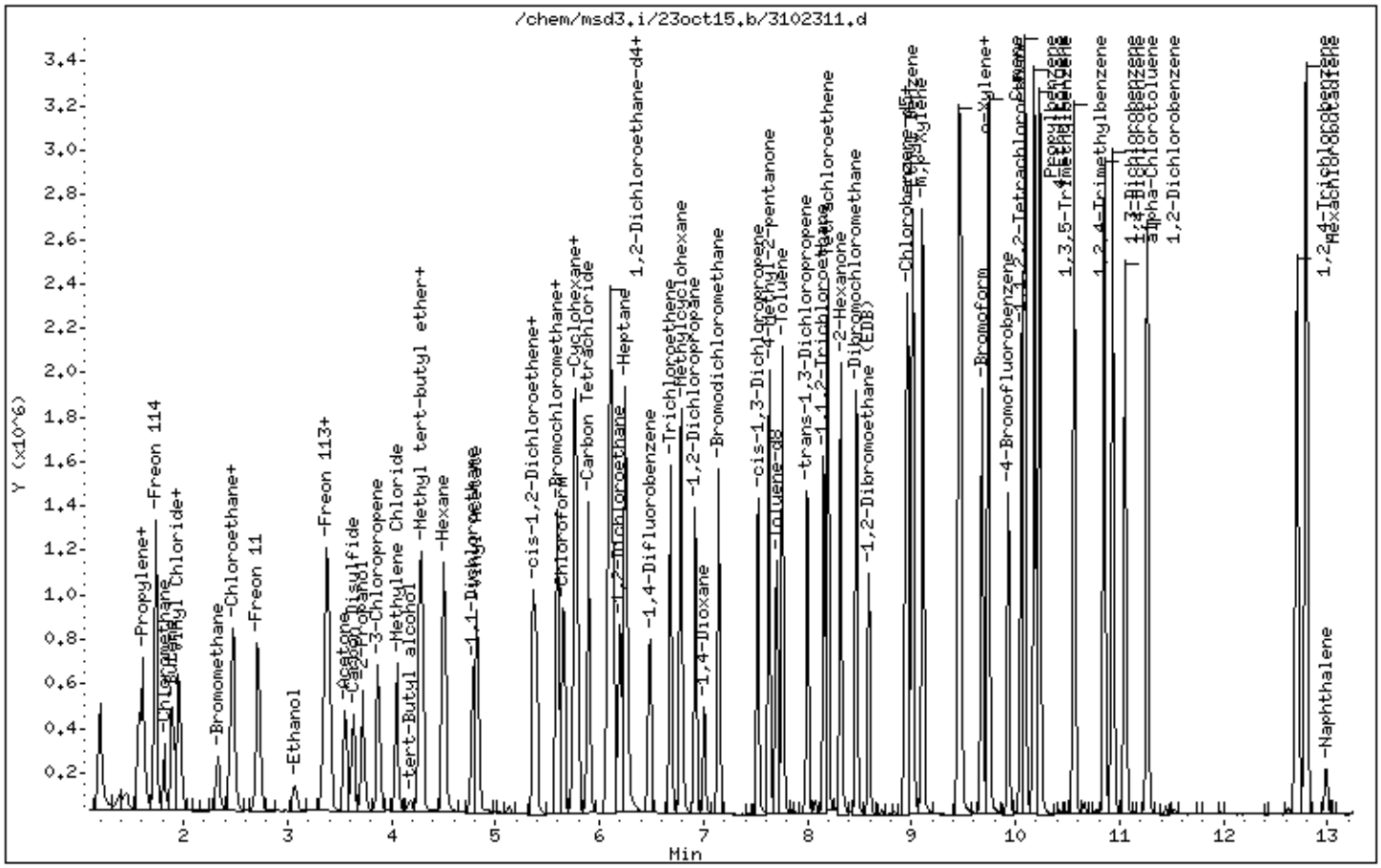
Instrument: msd3.i

Sample Info: 50mL #2736-272

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

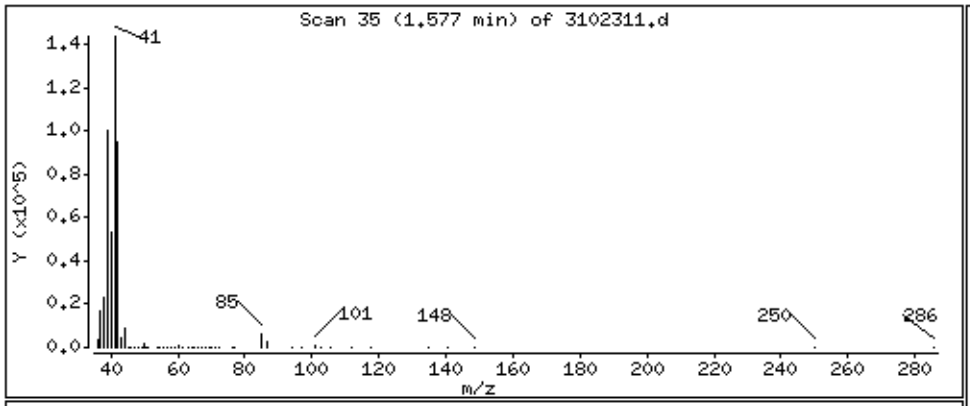
Operator: cb

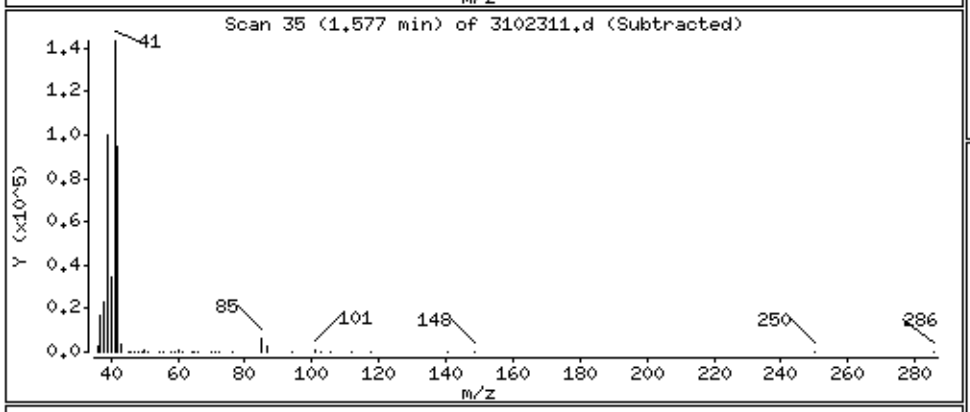
Column phase: RTX-624

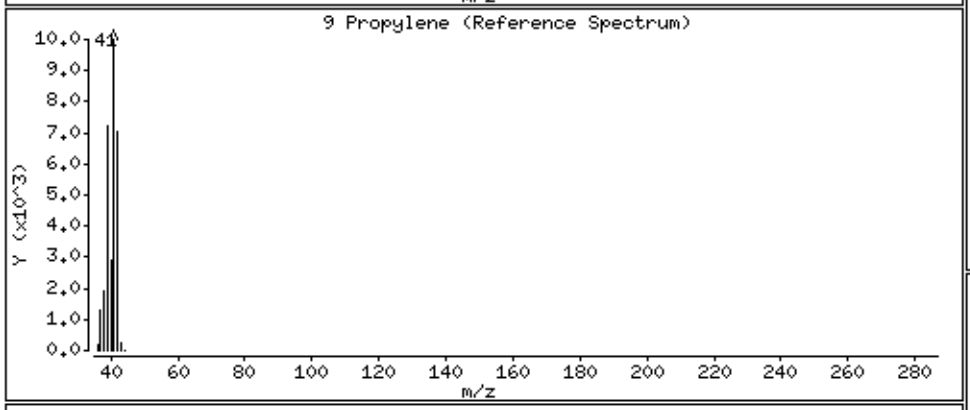
Column diameter: 0.25

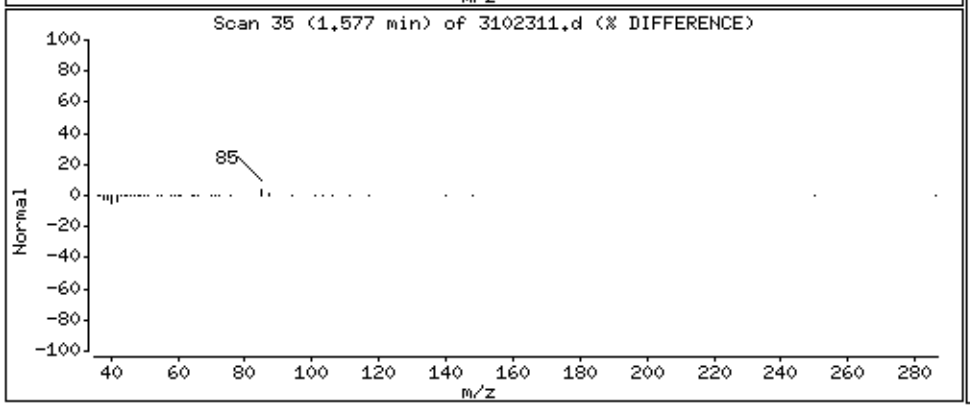
9 Propylene

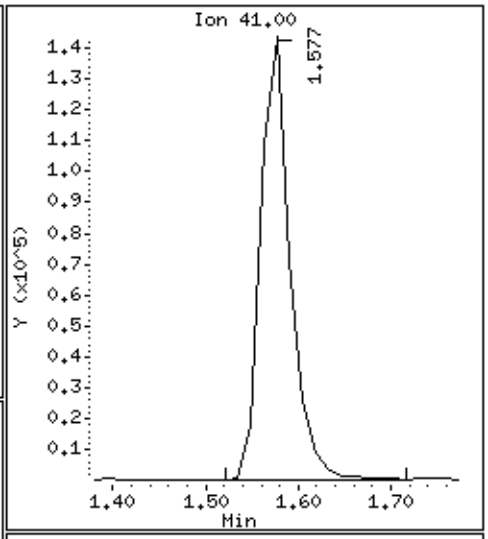
Concentration: 53.112 PPBV

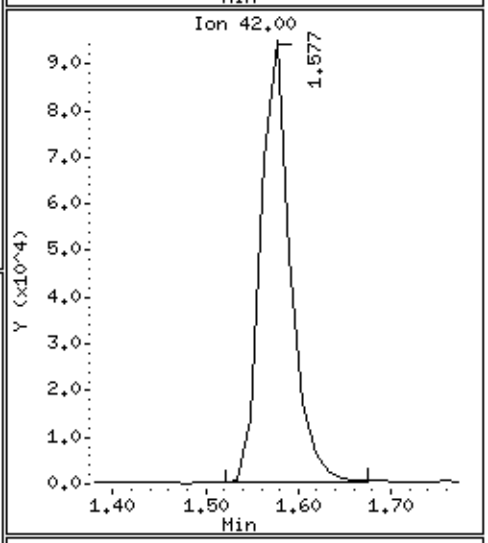


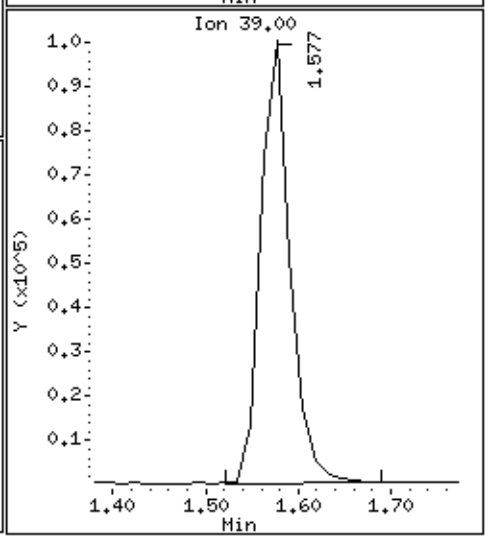












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

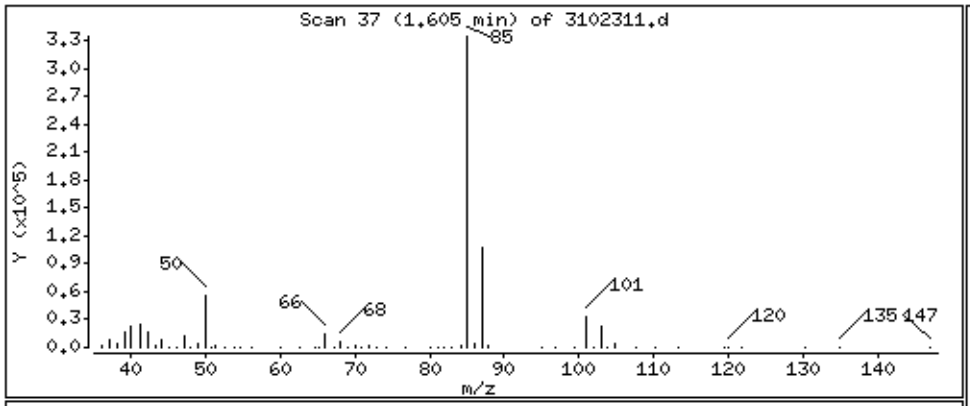
Operator: cb

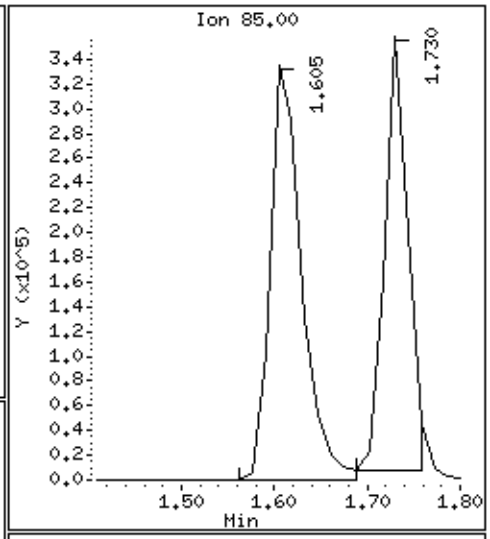
Column phase: RTX-624

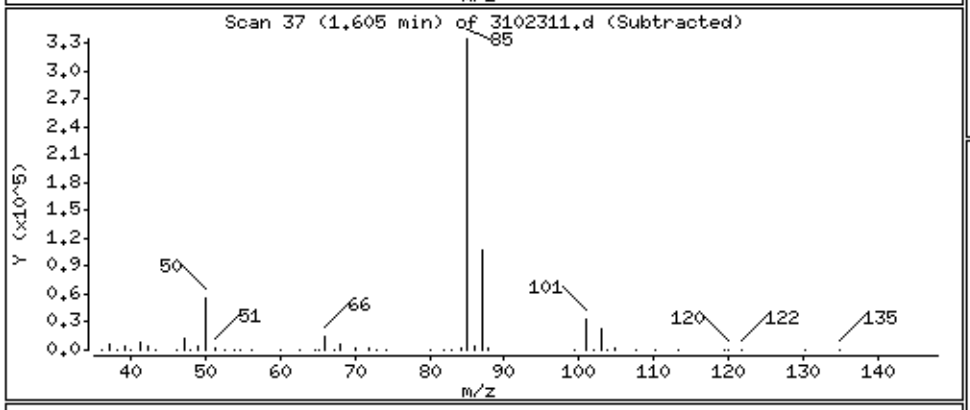
Column diameter: 0.25

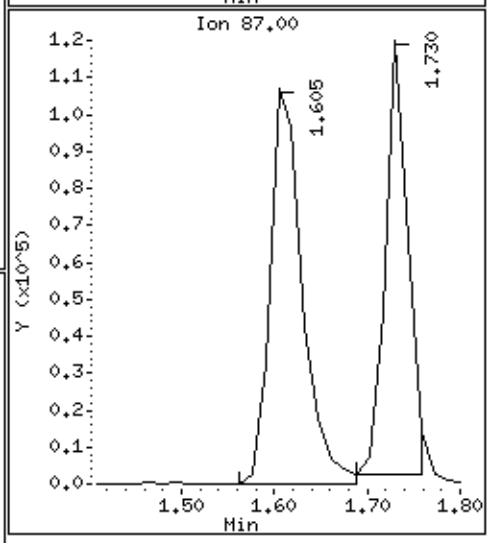
11 Freon 12

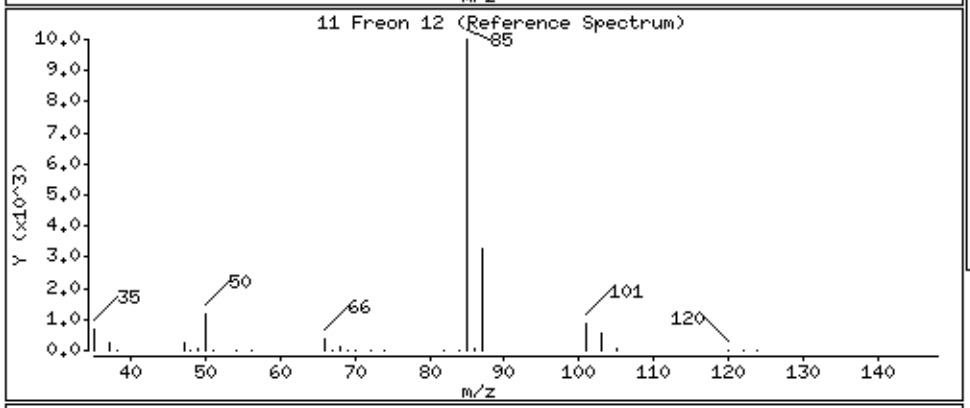
Concentration: 55.834 PPBV

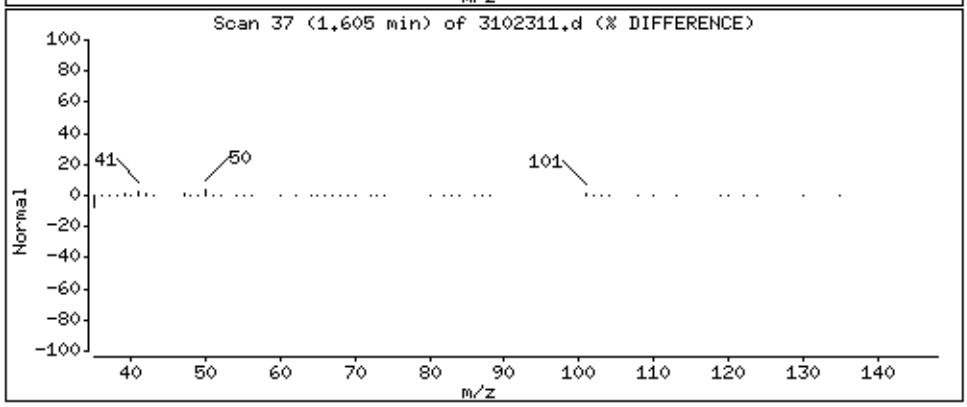












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

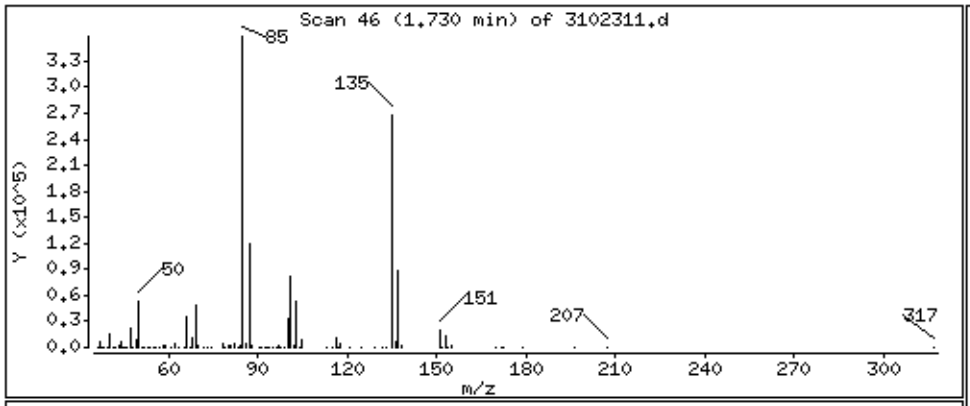
Operator: cb

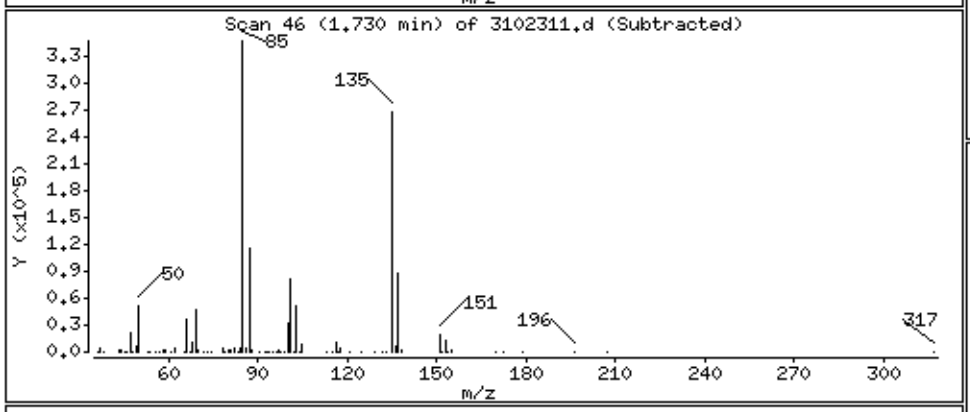
Column phase: RTX-624

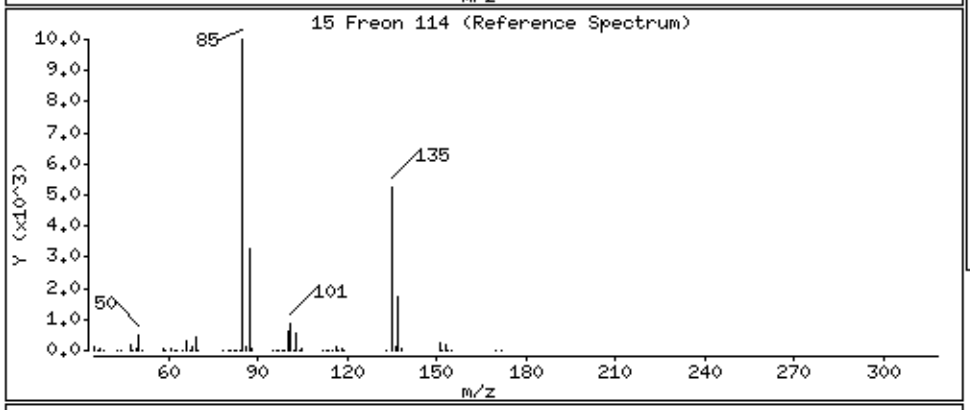
Column diameter: 0.25

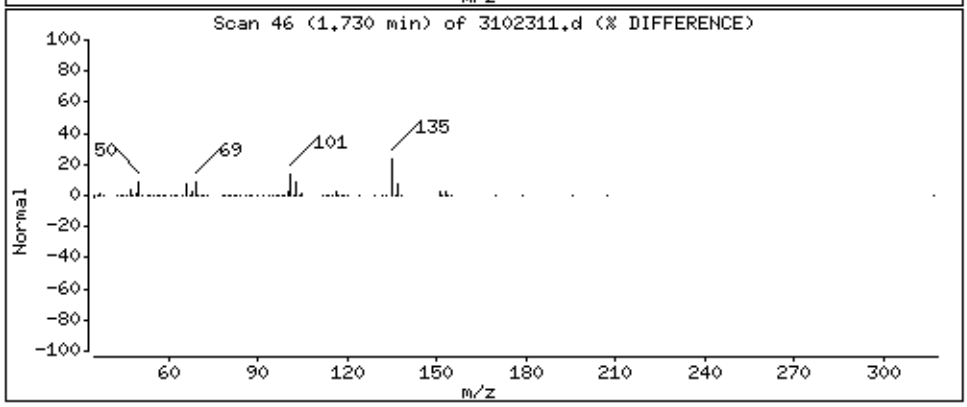
15 Freon 114

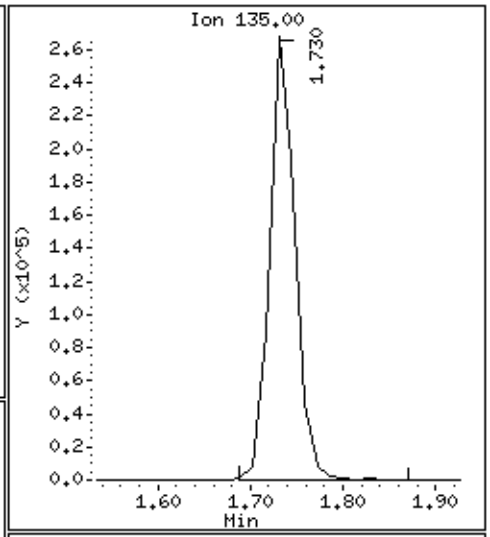
Concentration: 54.153 PPBV

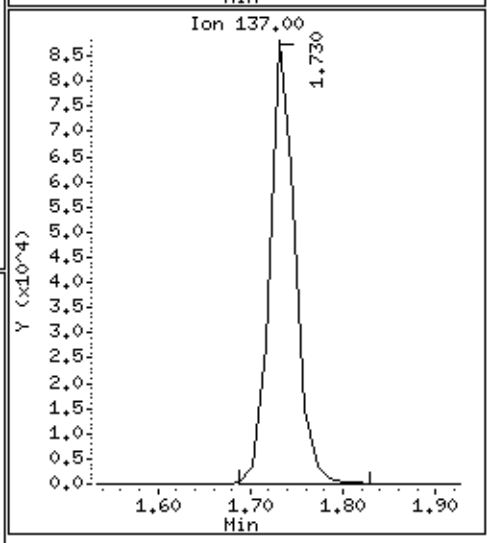












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Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

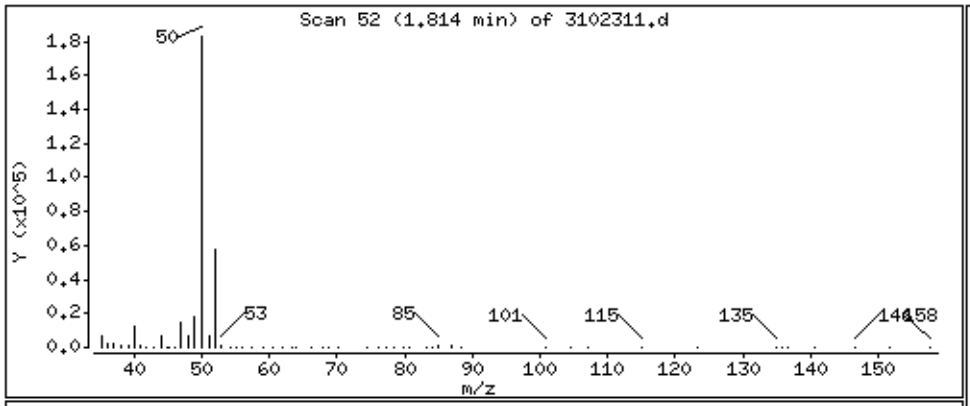
Operator: cb

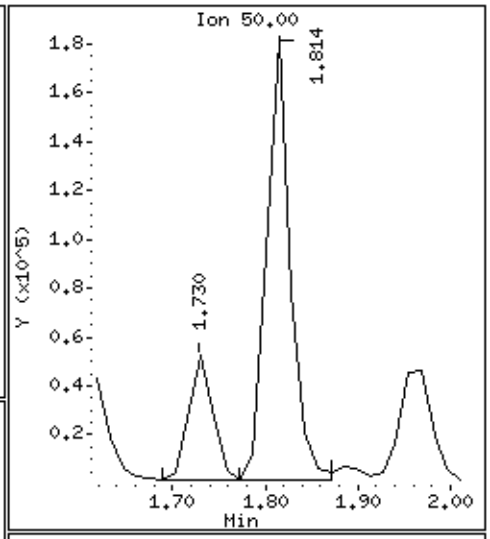
Column phase: RTX-624

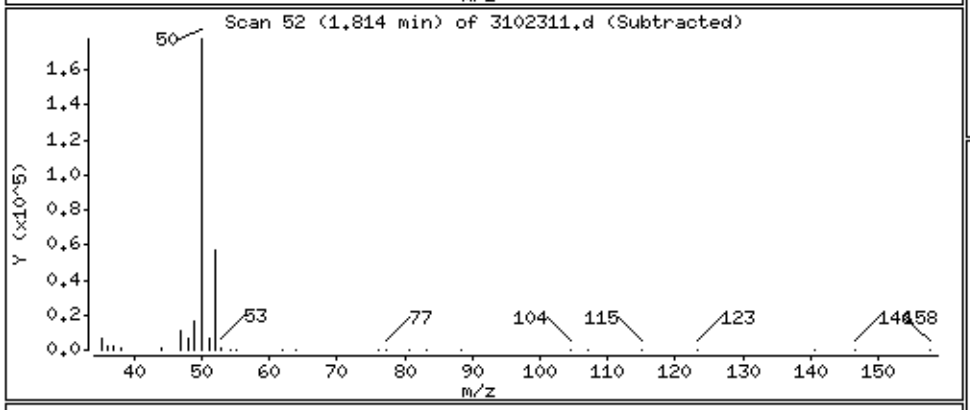
Column diameter: 0.25

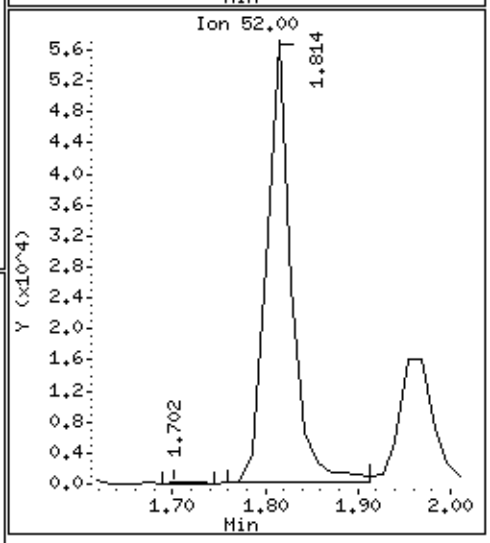
17 Chloromethane

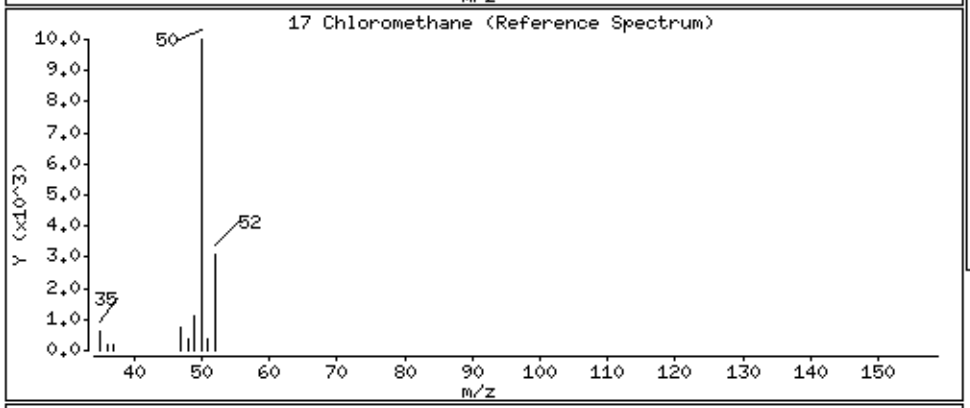
Concentration: 53.237 PPBV

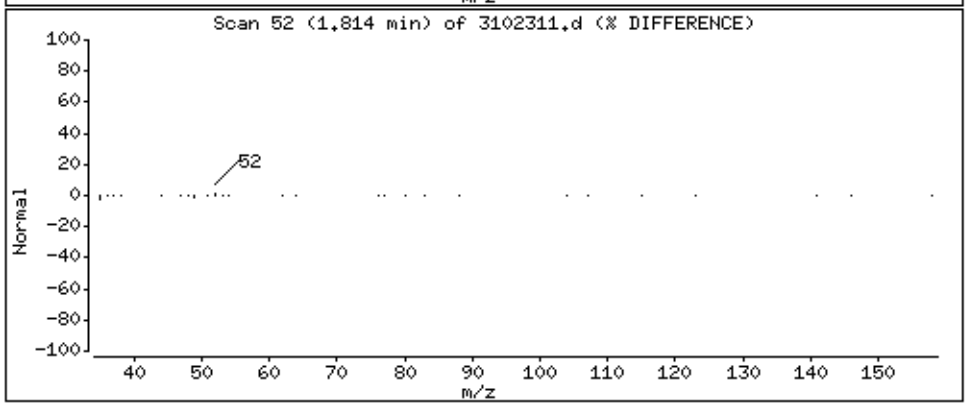












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

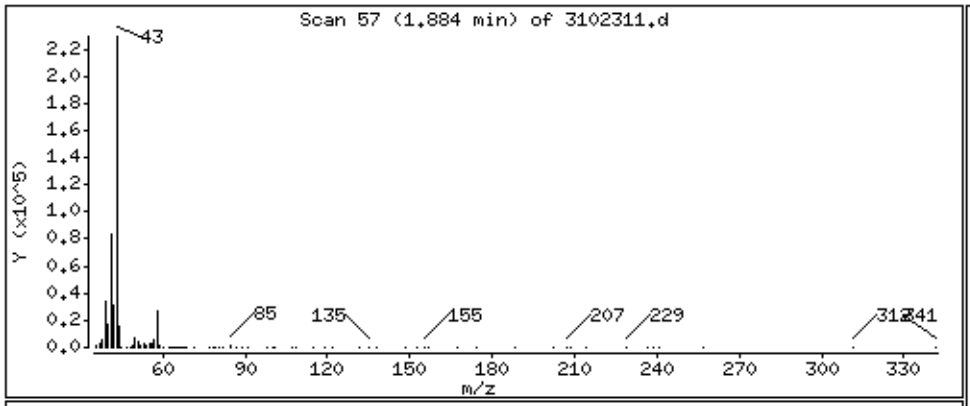
Operator: cb

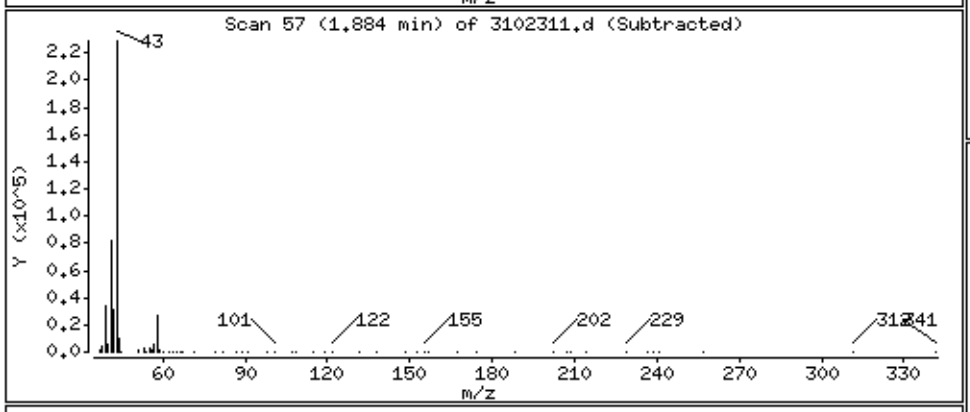
Column phase: RTX-624

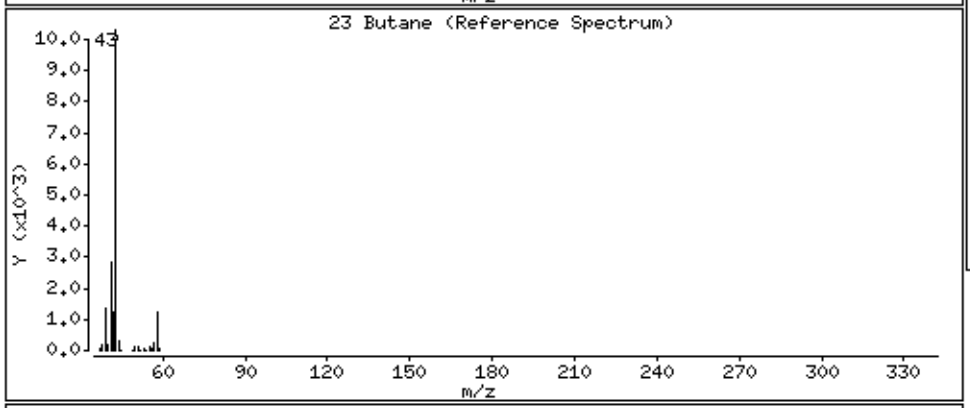
Column diameter: 0.25

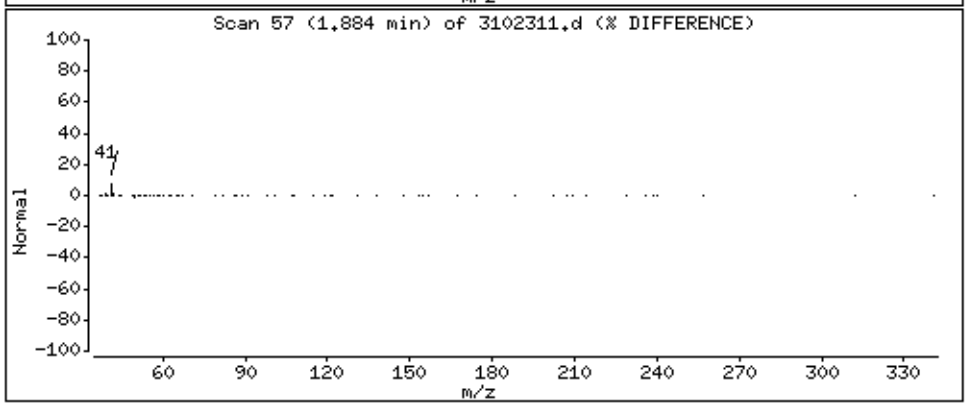
23 Butane

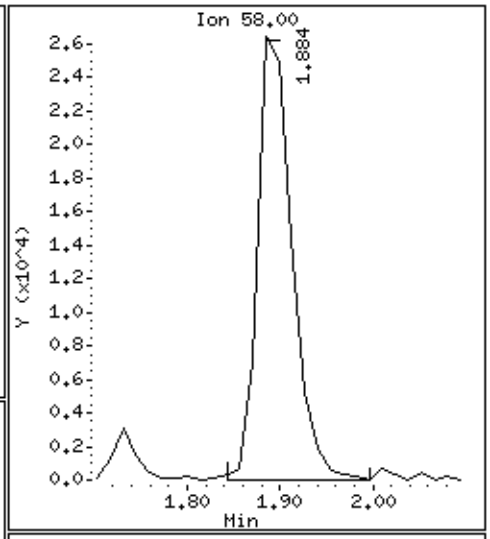
Concentration: 50.018 PPBV

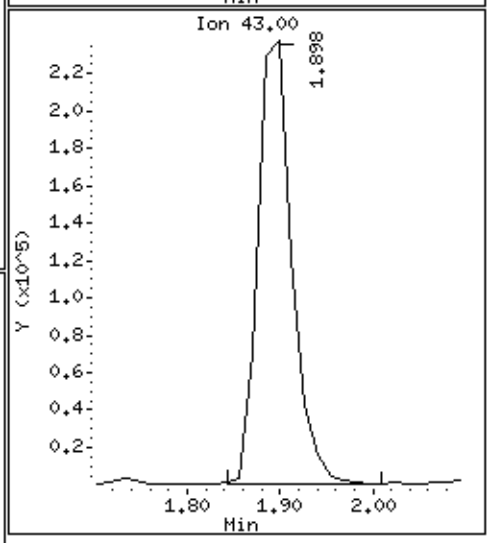












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

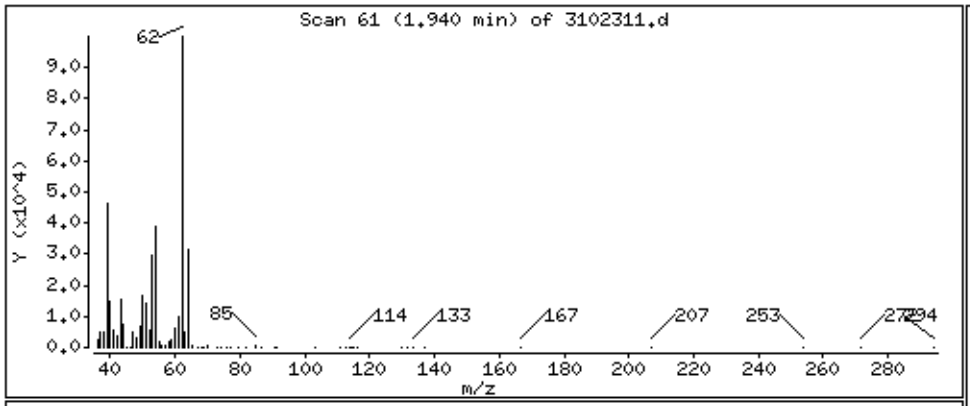
Operator: cb

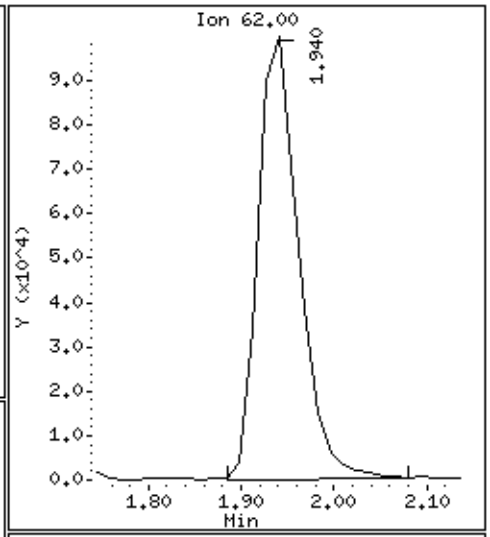
Column phase: RTX-624

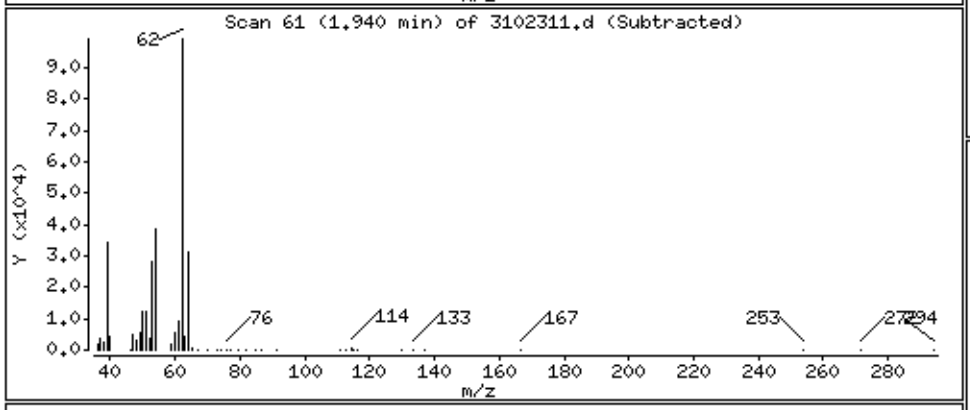
Column diameter: 0.25

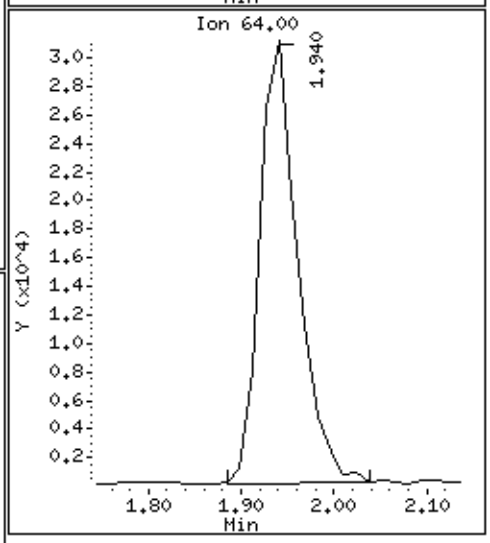
25 Vinyl Chloride

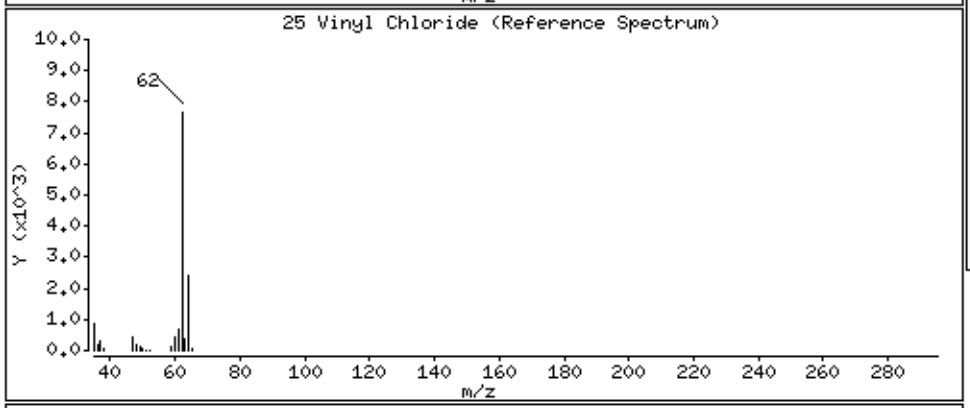
Concentration: 54.523 PPBV

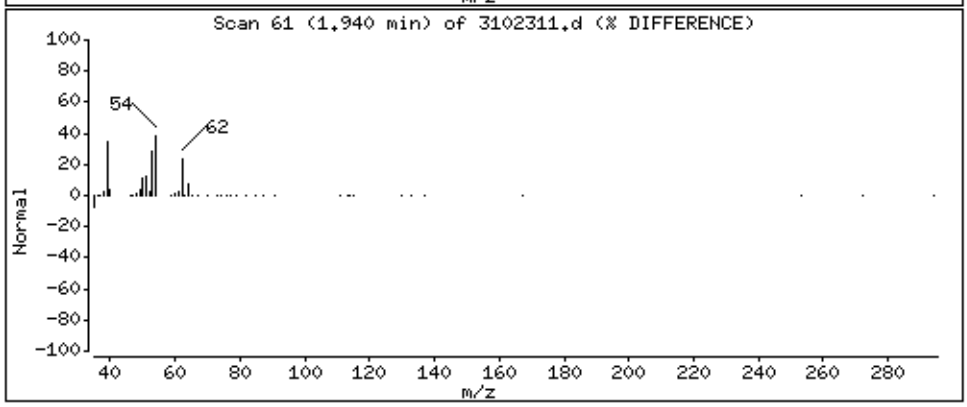












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

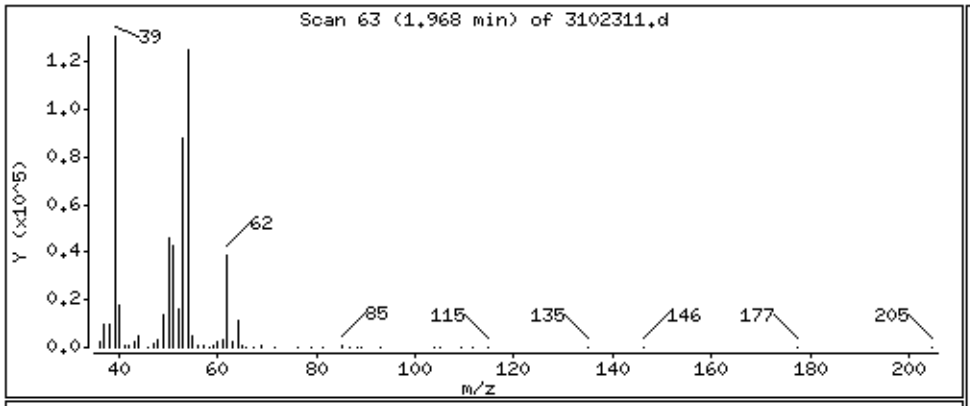
Operator: cb

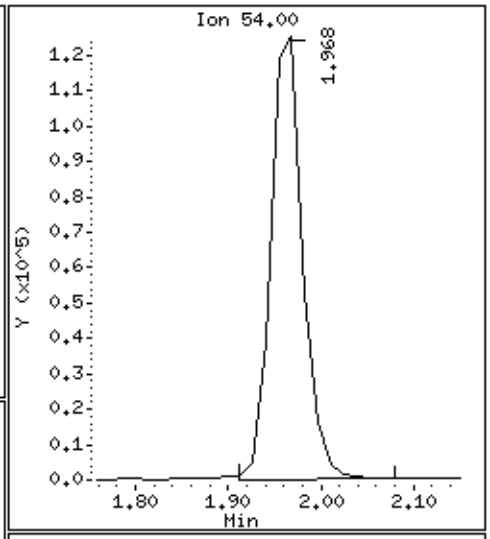
Column phase: RTX-624

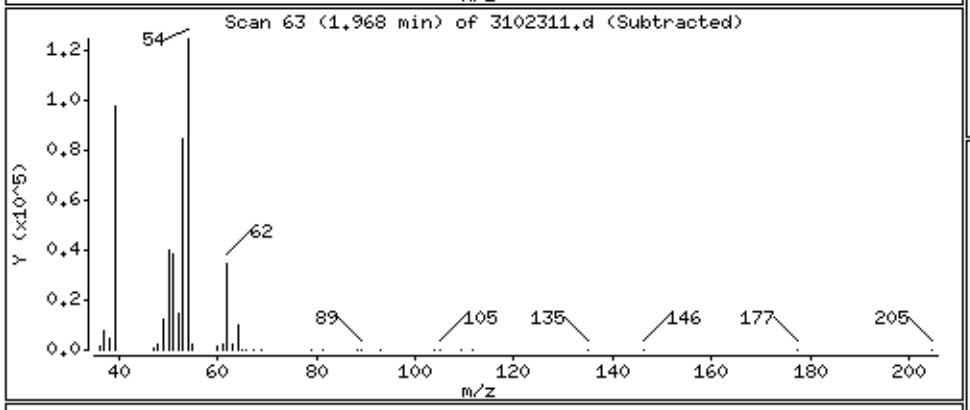
Column diameter: 0.25

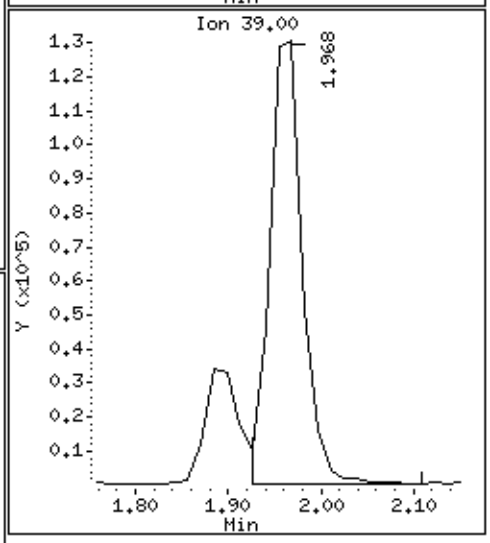
26 1,3-Butadiene

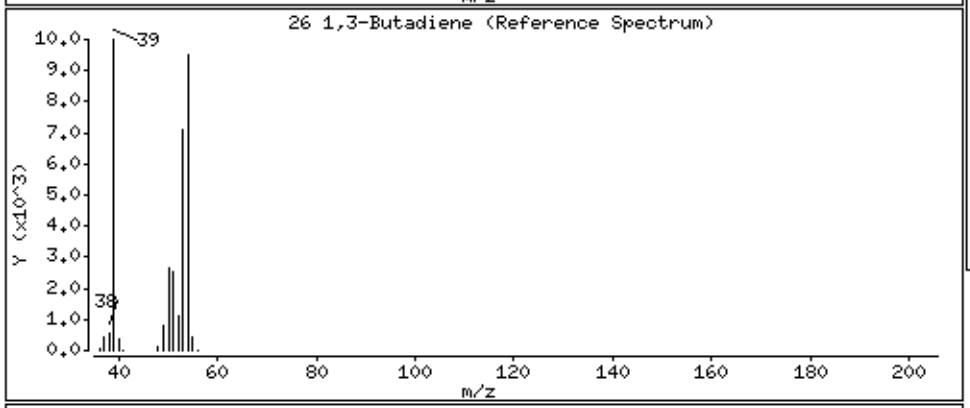
Concentration: 49.207 PPBV

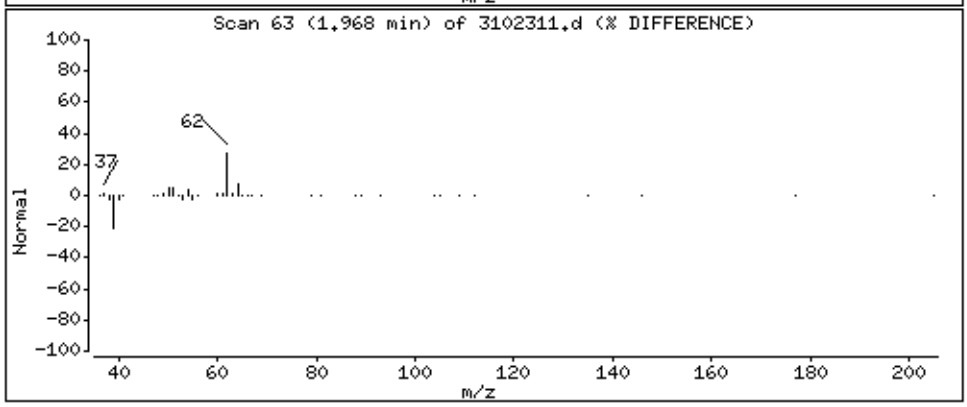












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

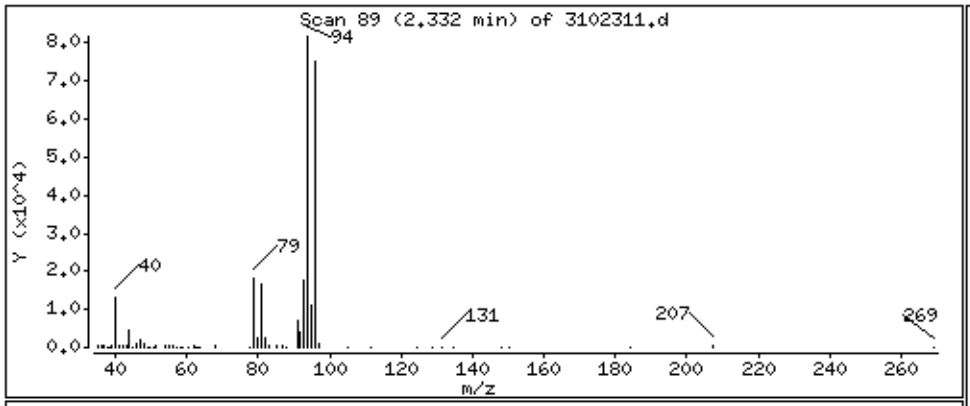
Operator: cb

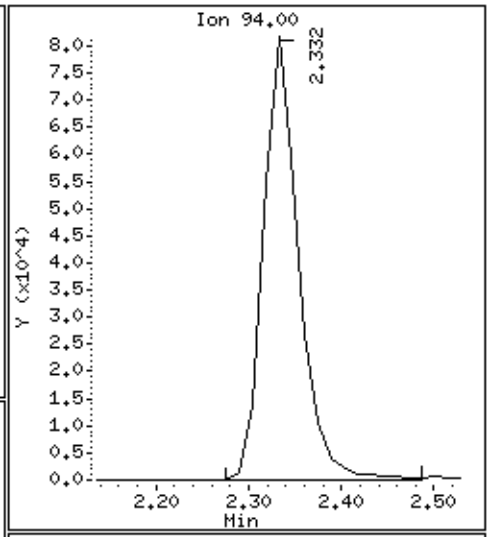
Column phase: RTX-624

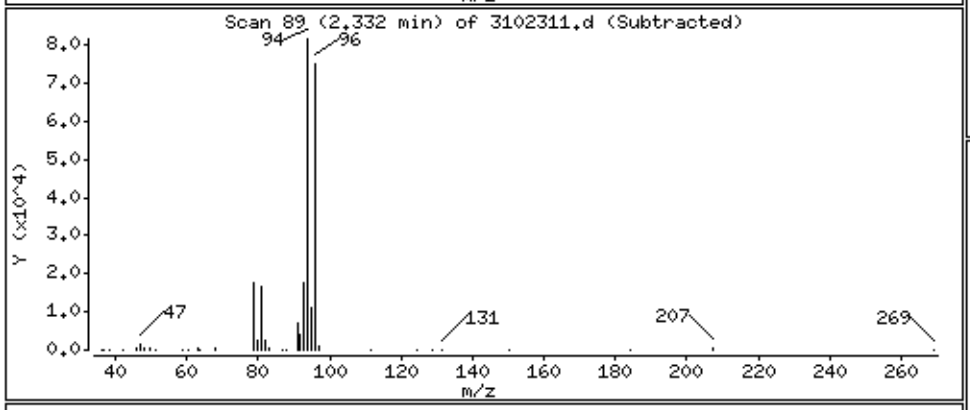
Column diameter: 0.25

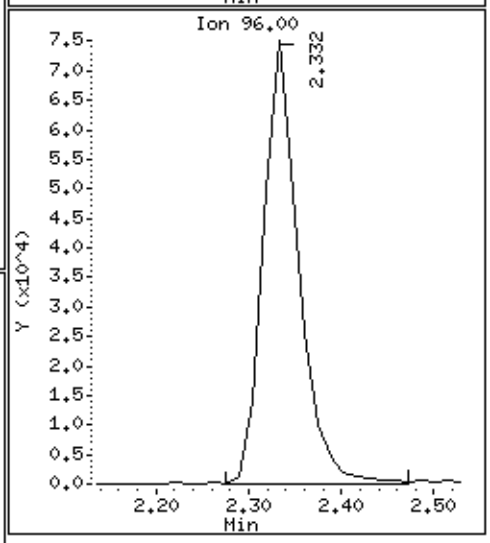
29 Bromomethane

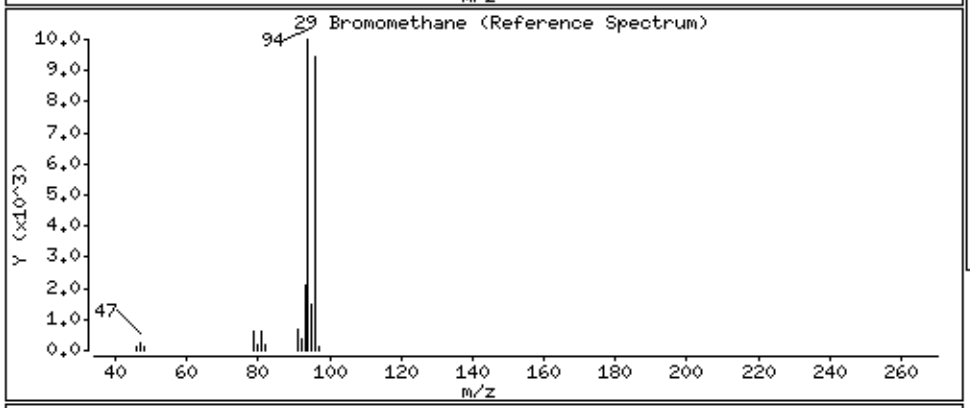
Concentration: 53.937 PPBV

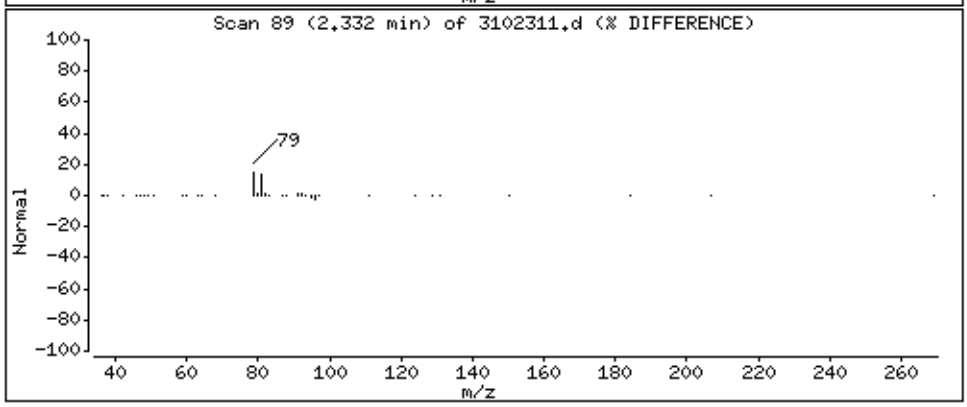












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

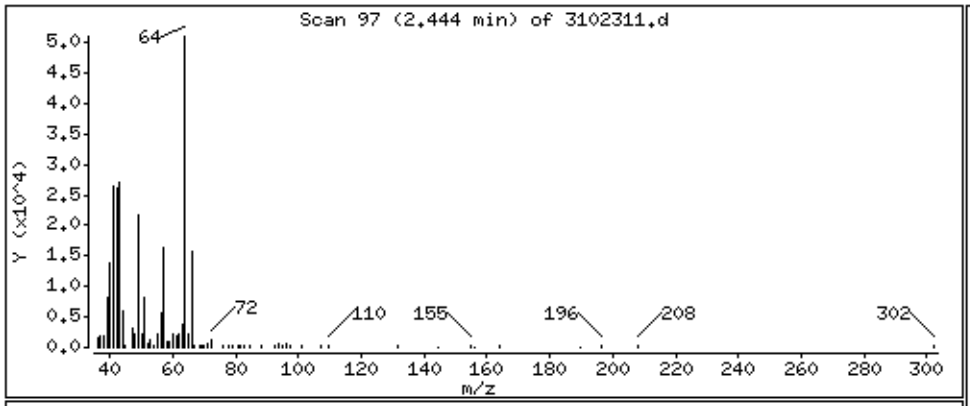
Operator: cb

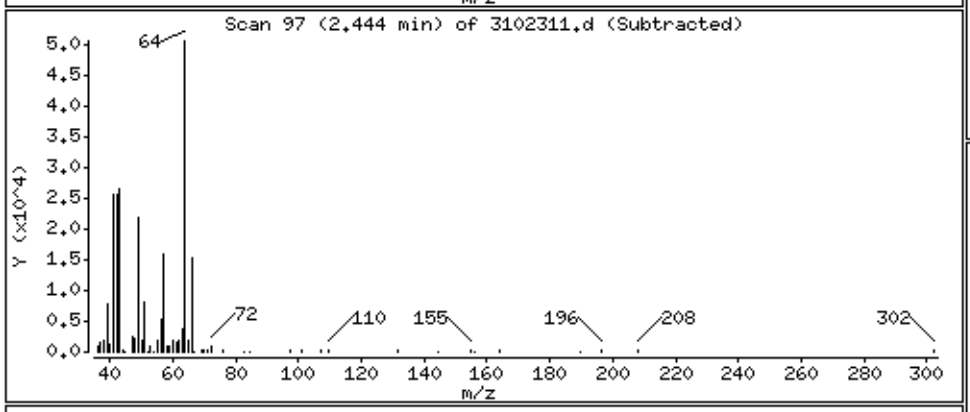
Column phase: RTX-624

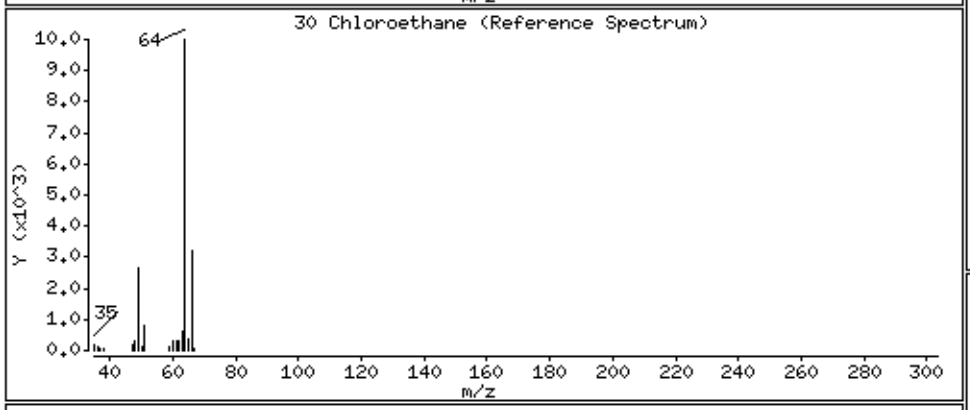
Column diameter: 0.25

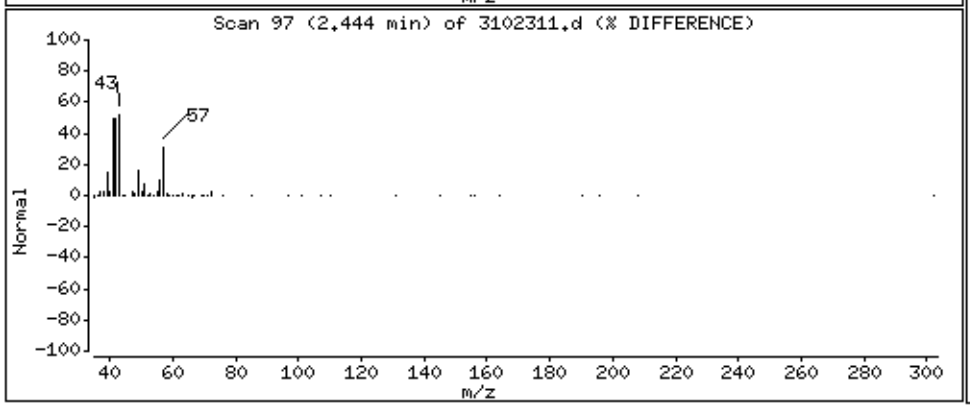
30 Chloroethane

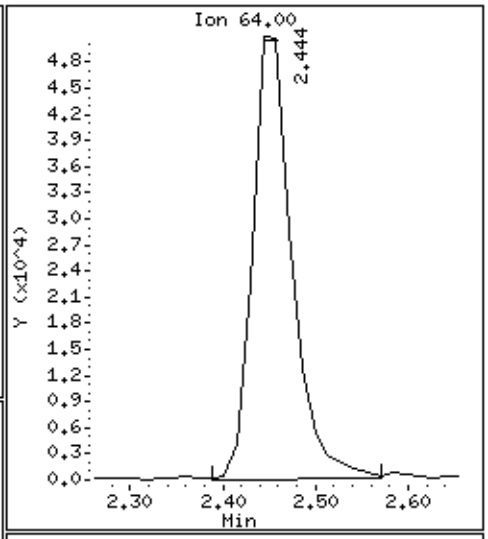
Concentration: 52.916 PPBV

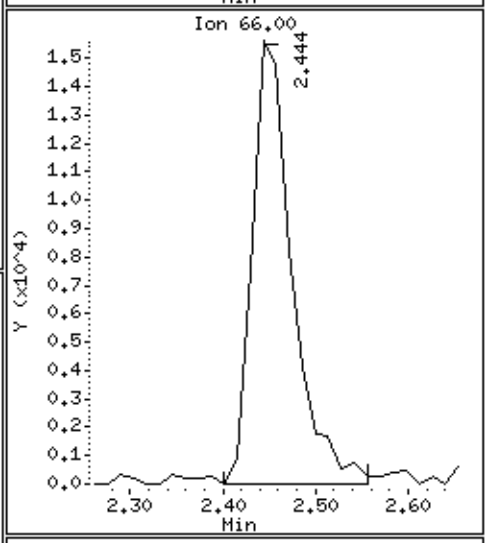


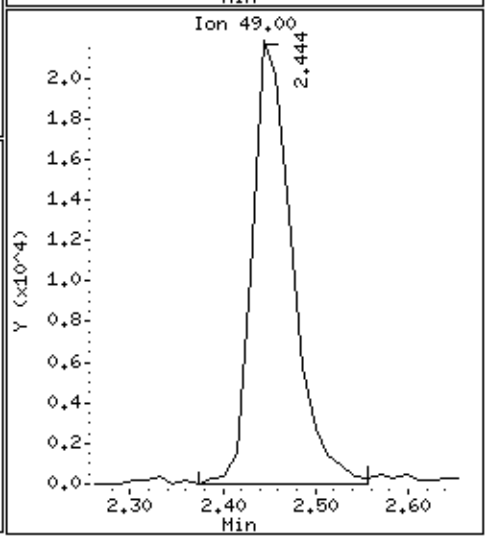












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

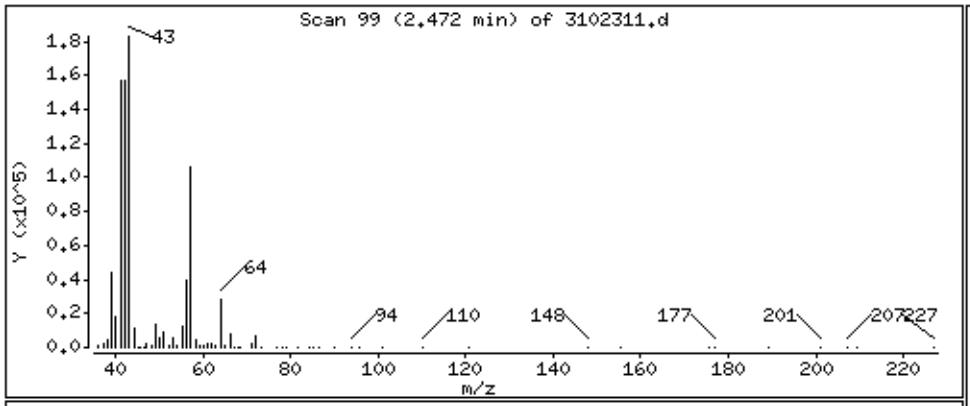
Operator: cb

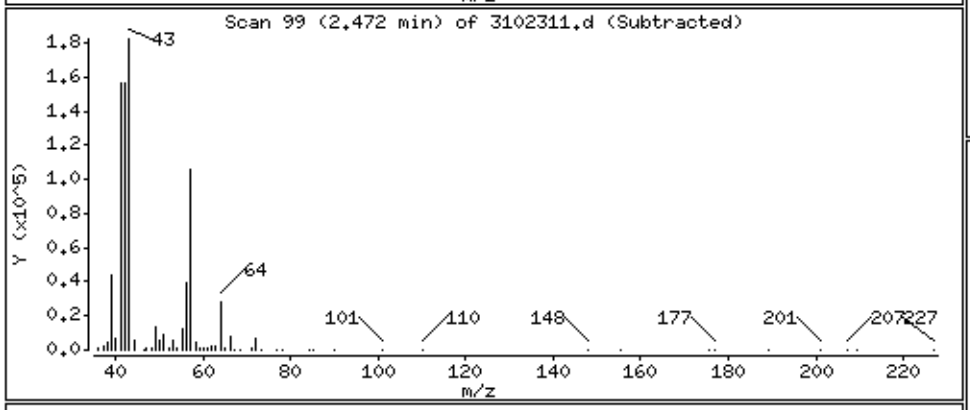
Column phase: RTX-624

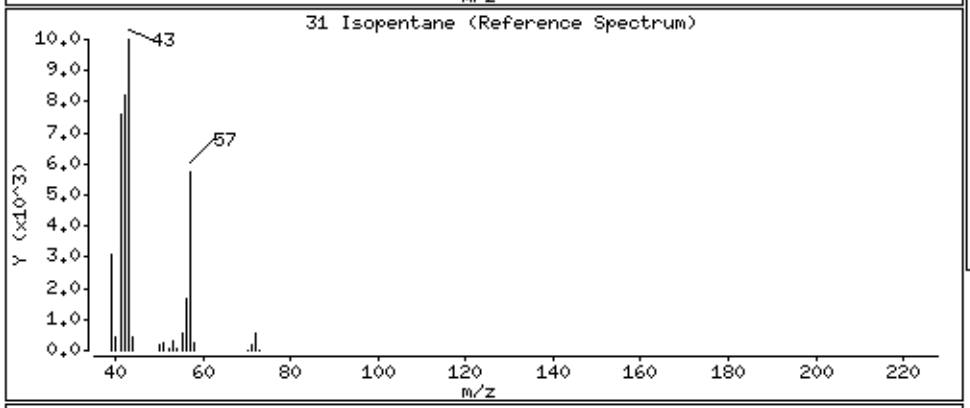
Column diameter: 0.25

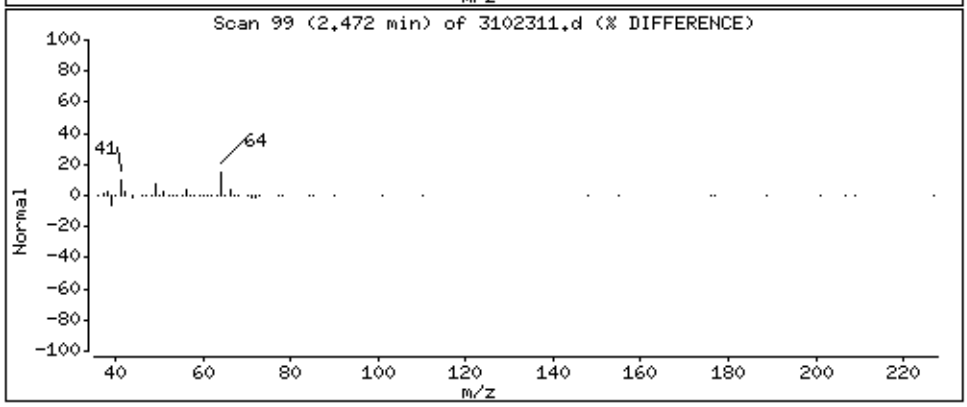
31 Isopentane

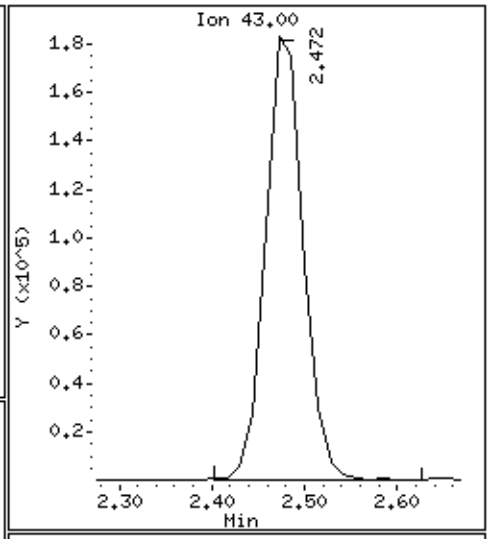
Concentration: 53.216 PPBV

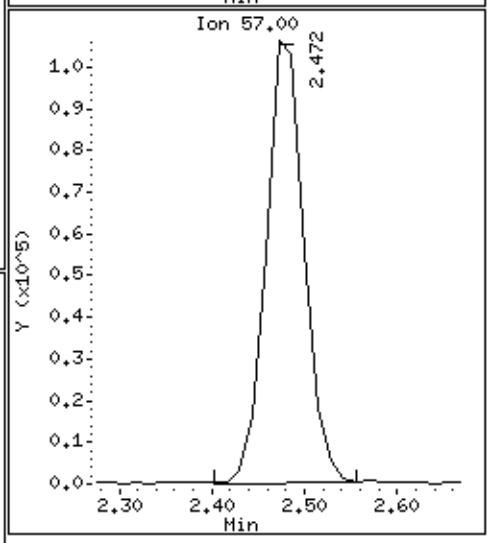












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

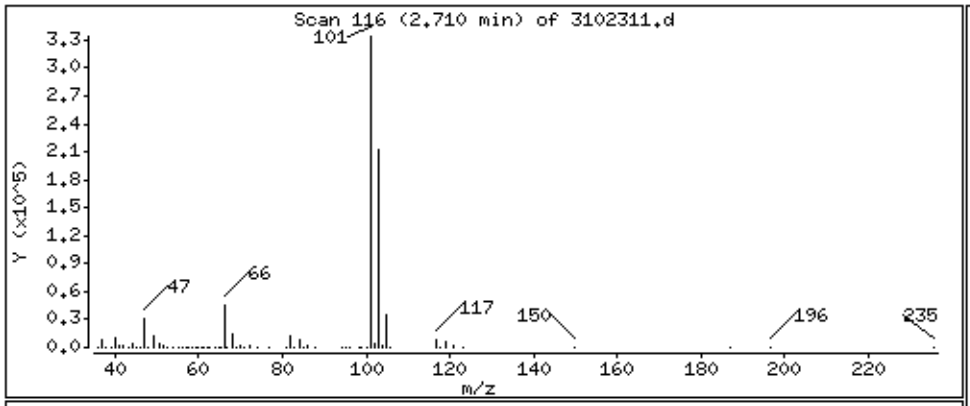
Operator: cb

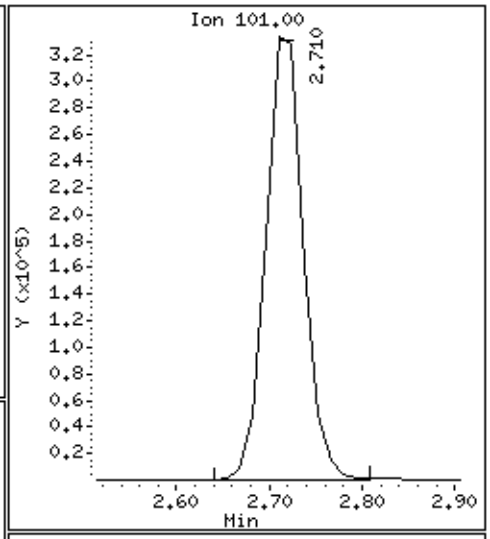
Column phase: RTX-624

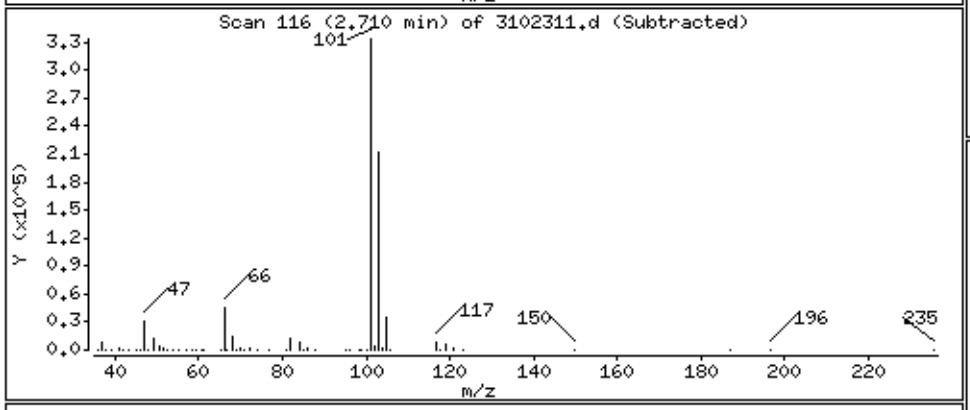
Column diameter: 0.25

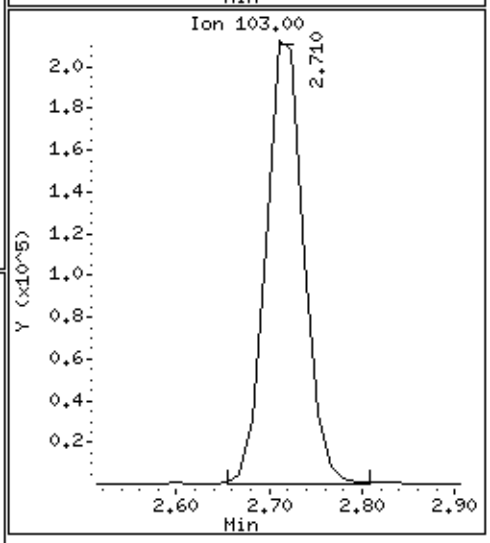
35 Freon 11

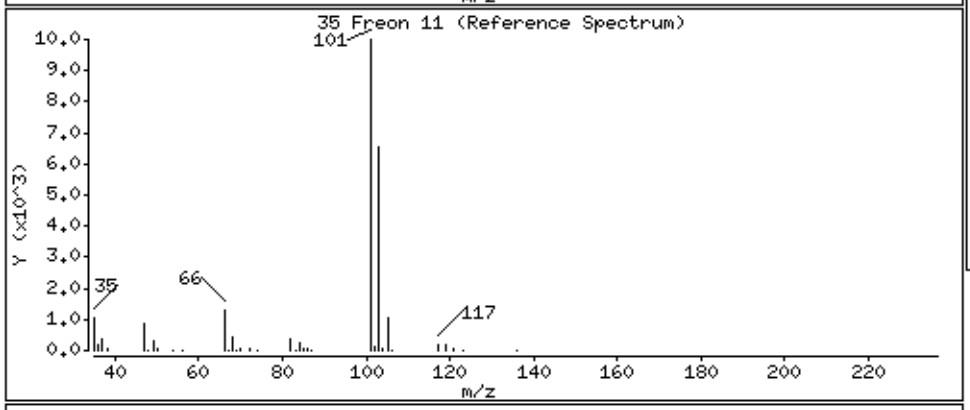
Concentration: 53.110 PPBV

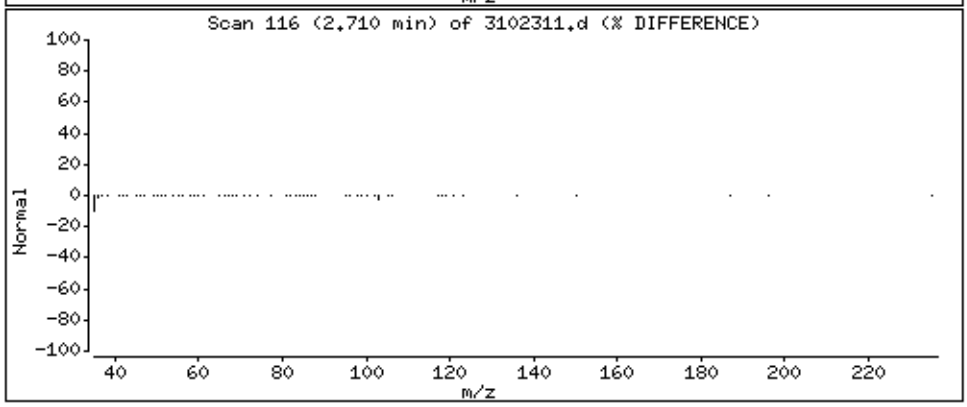












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

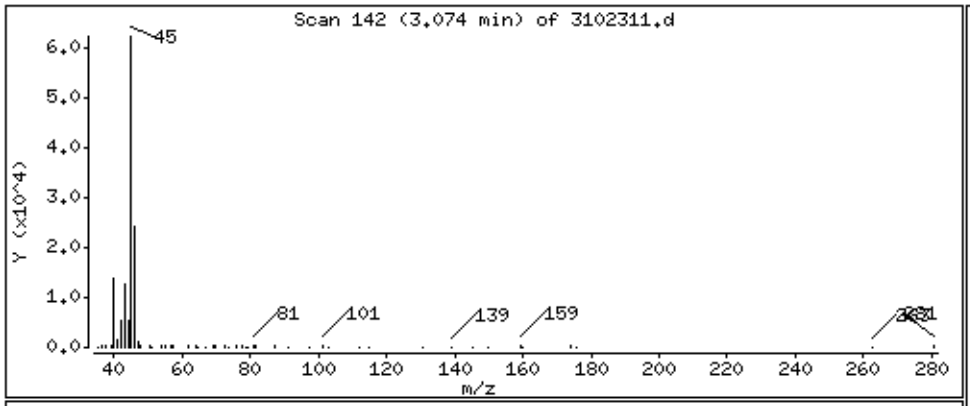
Operator: cb

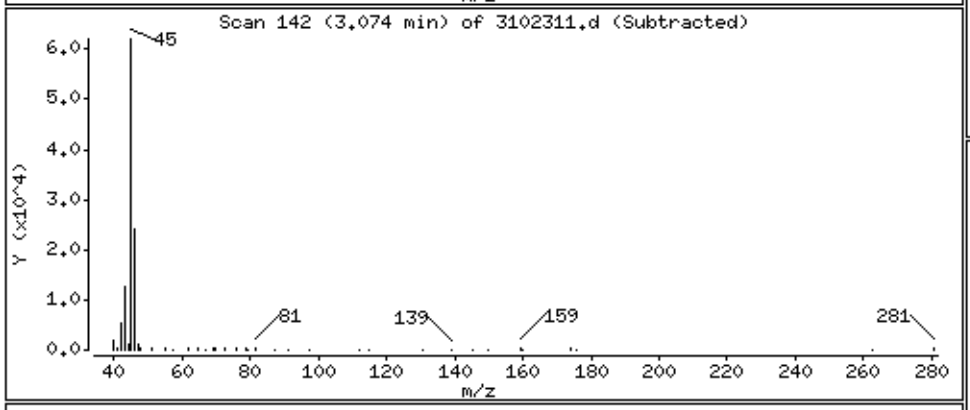
Column phase: RTX-624

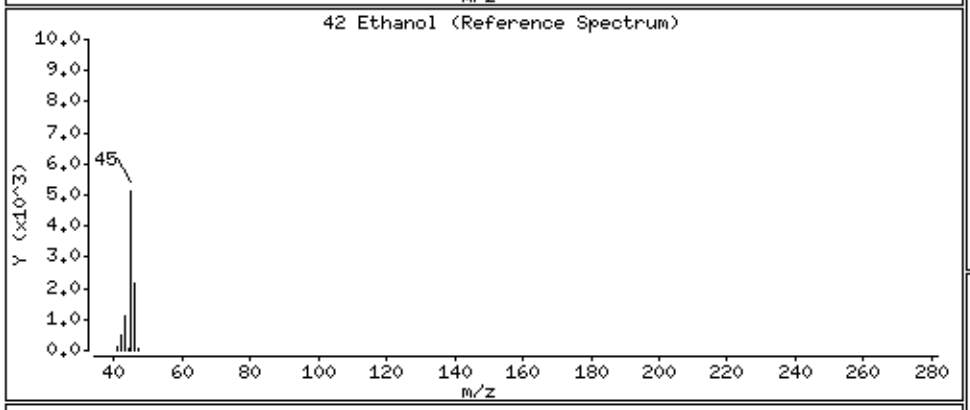
Column diameter: 0.25

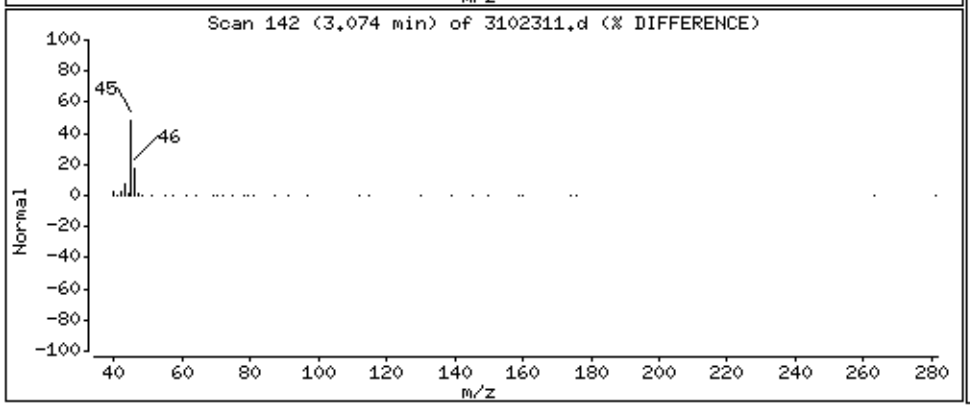
42 Ethanol

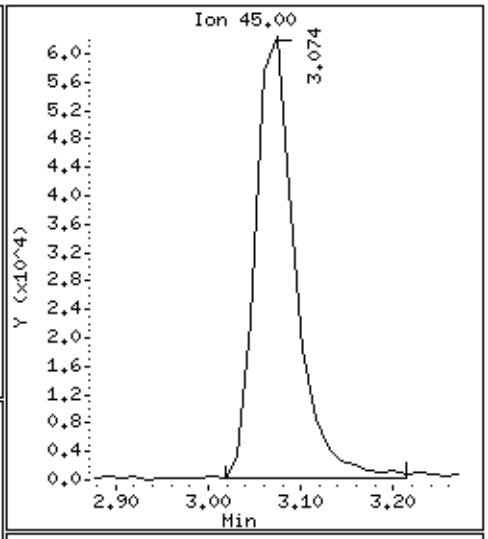
Concentration: 52.819 PPBV

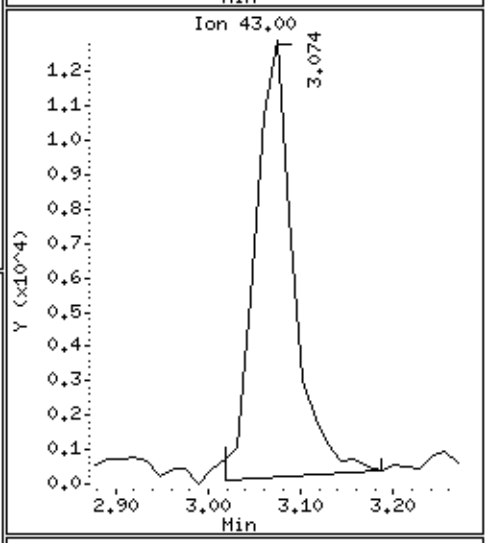


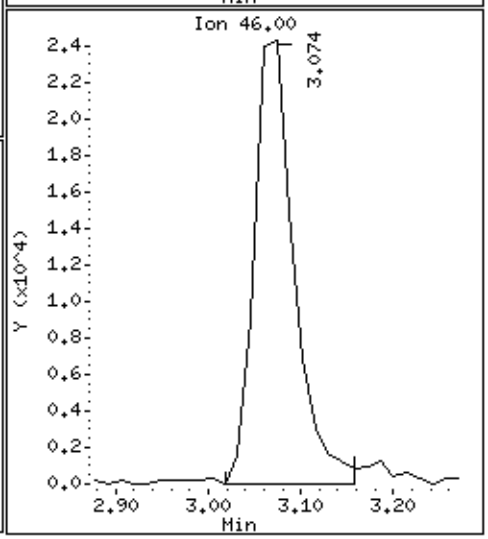












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

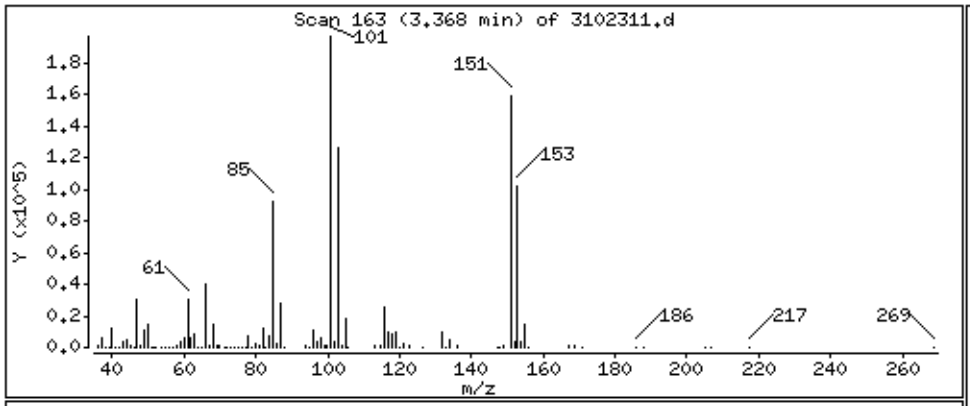
Operator: cb

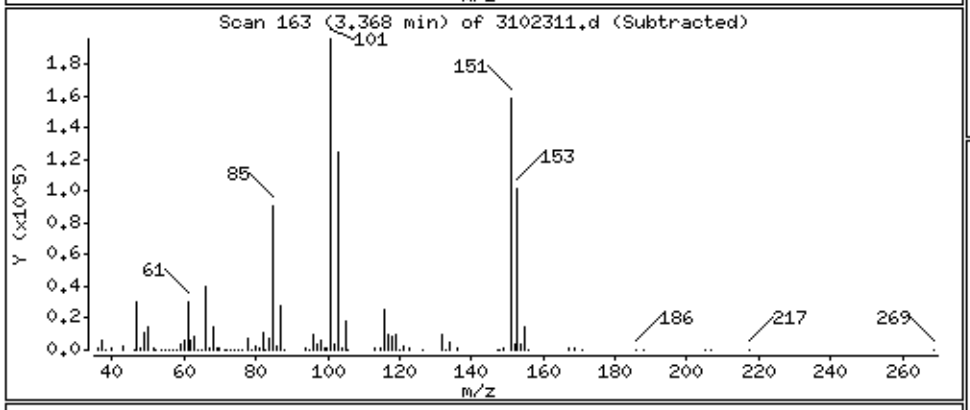
Column phase: RTX-624

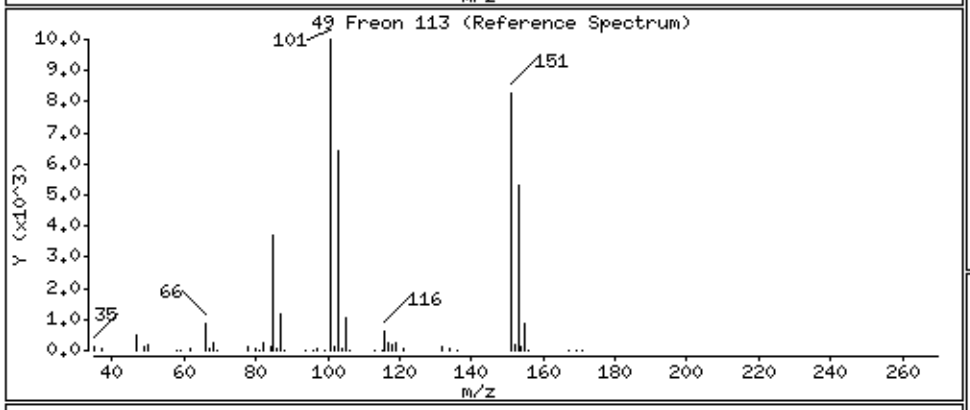
Column diameter: 0.25

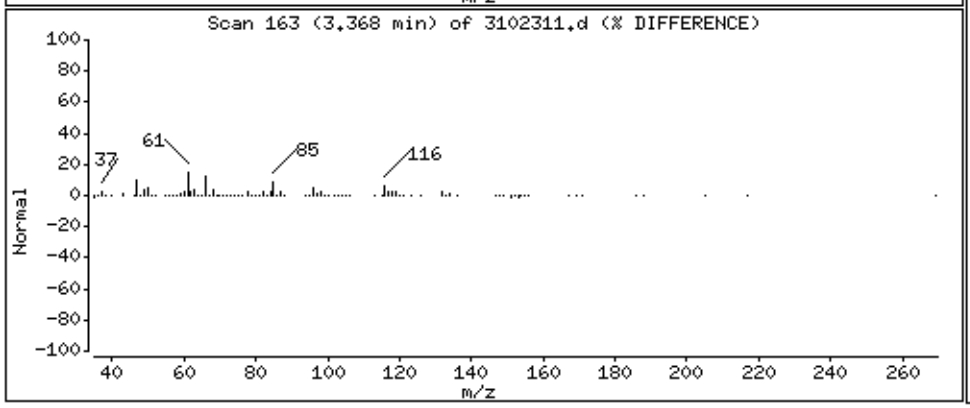
49 Freon 113

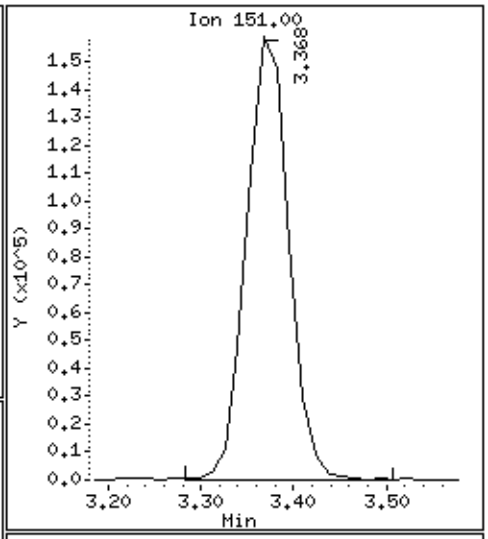
Concentration: 51.957 PPBV

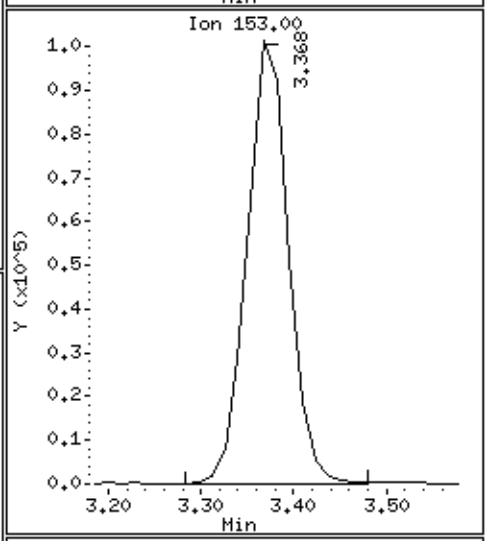


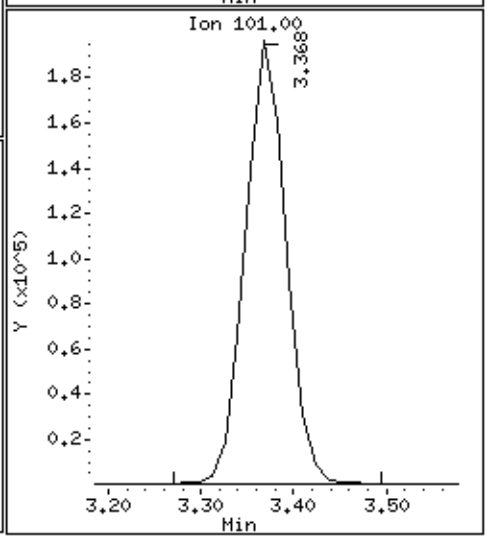












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

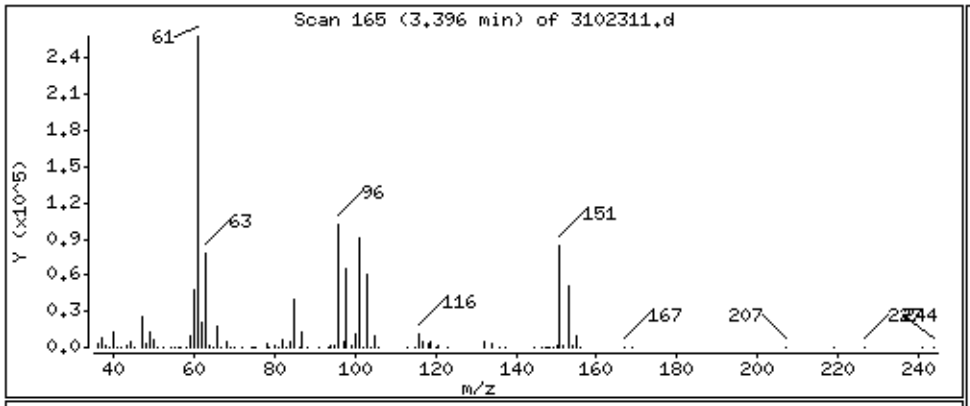
Operator: cb

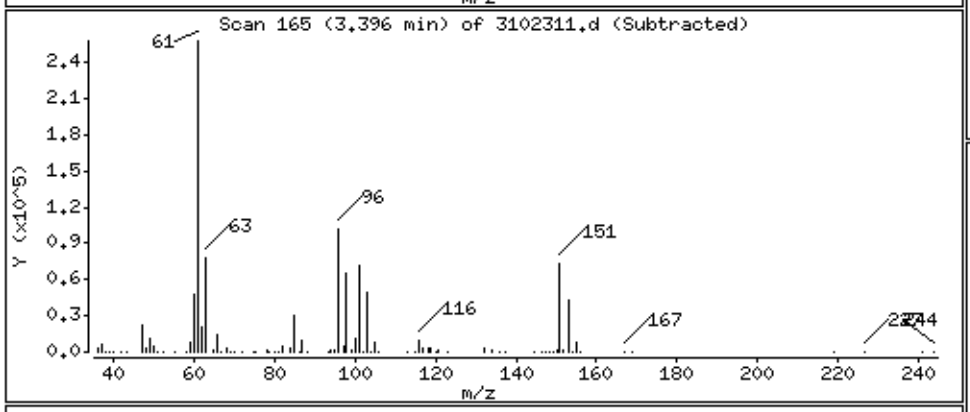
Column phase: RTX-624

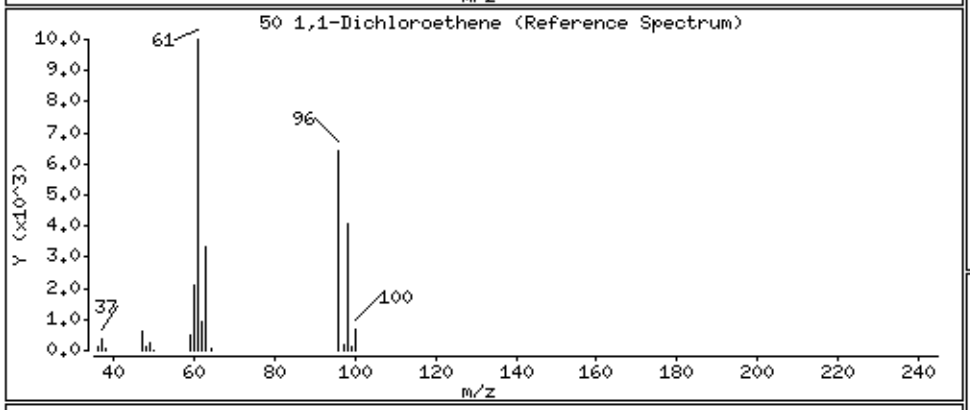
Column diameter: 0.25

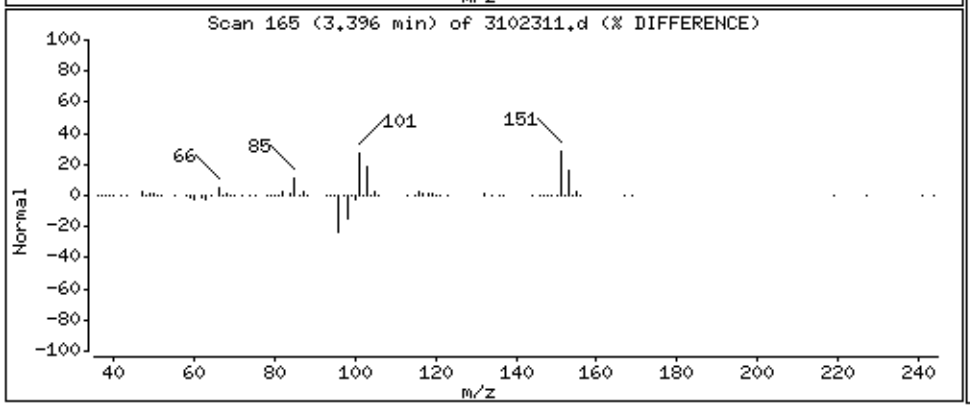
50 1,1-Dichloroethene

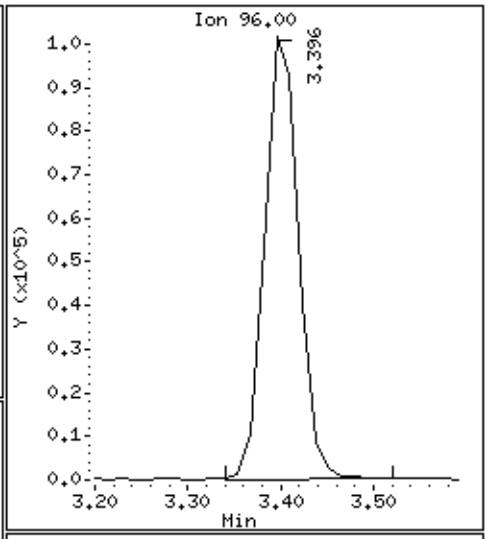
Concentration: 54.572 PPBV

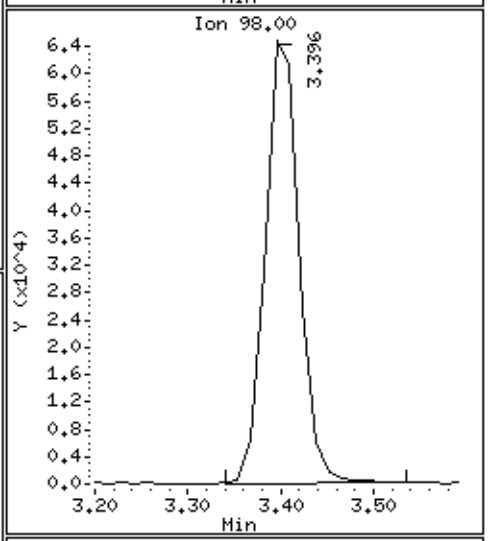


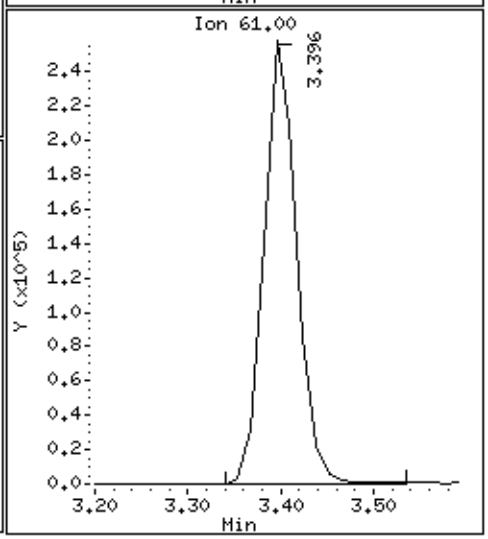












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

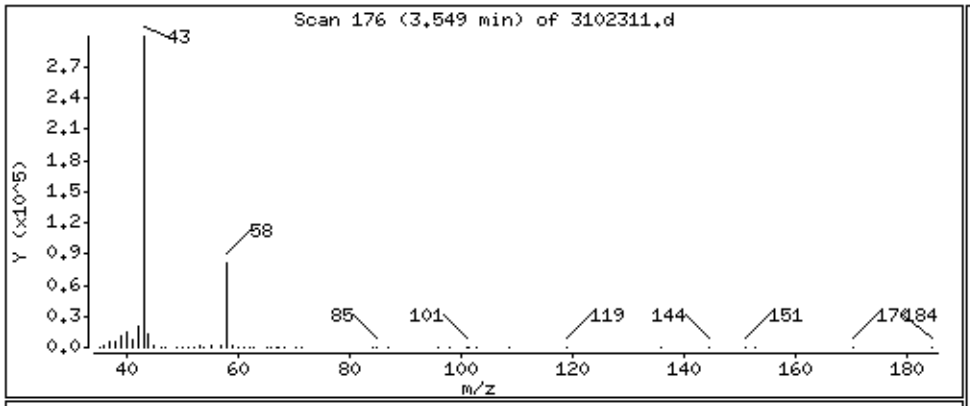
Operator: cb

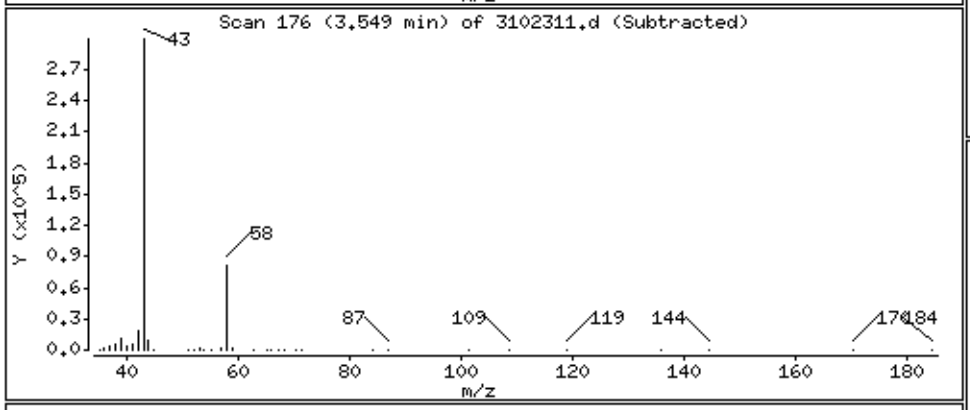
Column phase: RTX-624

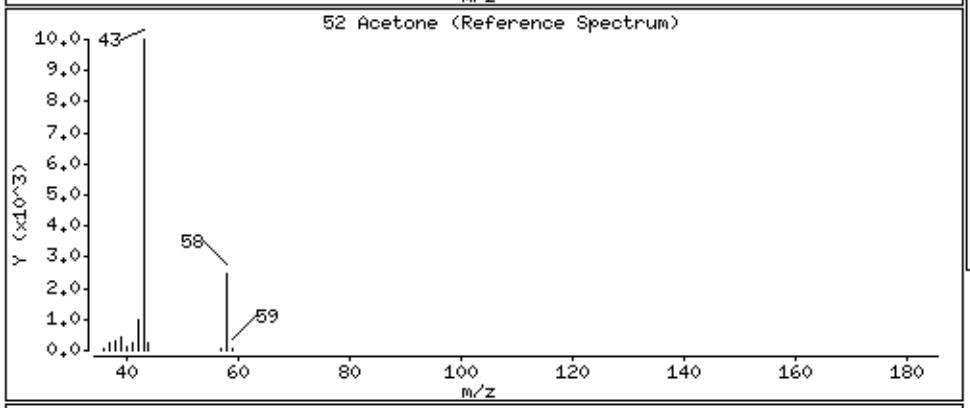
Column diameter: 0.25

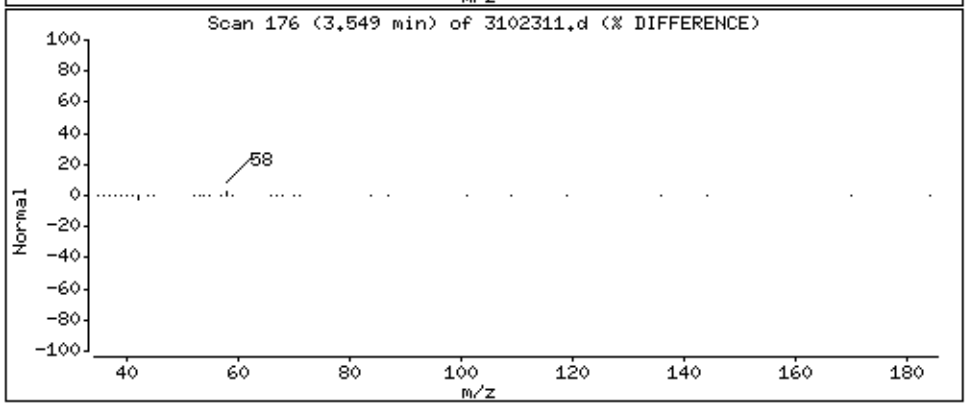
52 Acetone

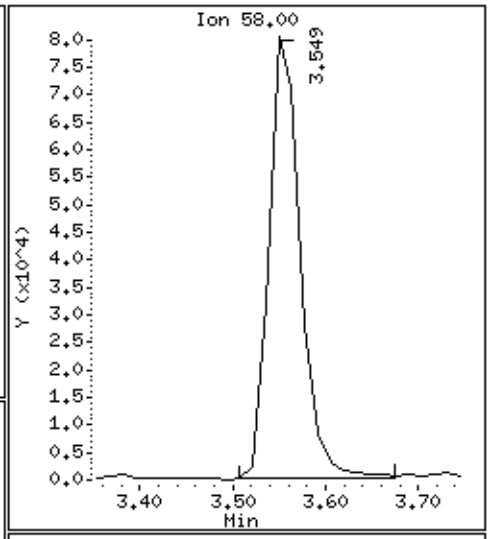
Concentration: 51.077 PPBV

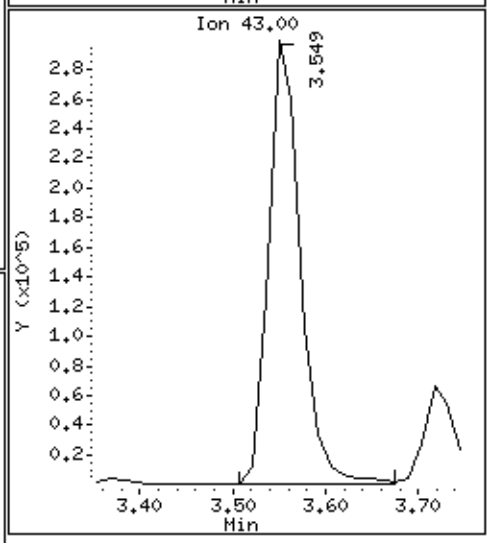












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

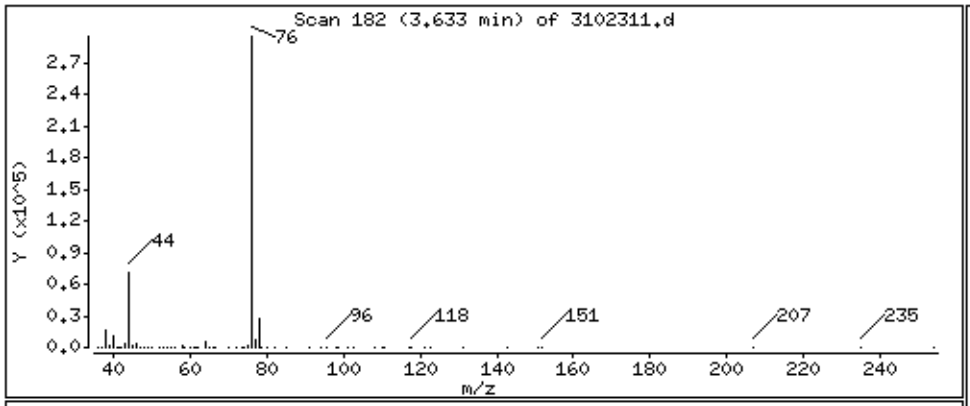
Operator: cb

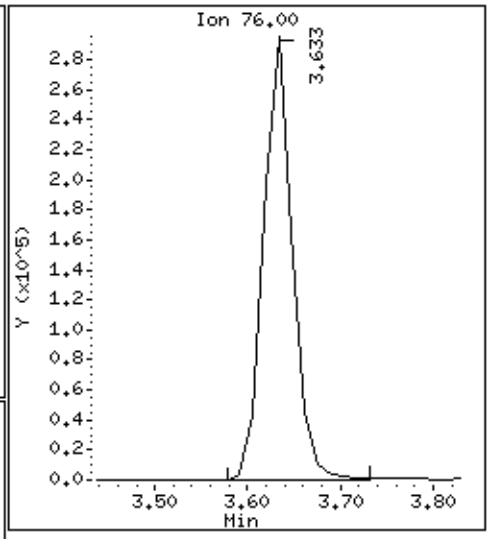
Column phase: RTX-624

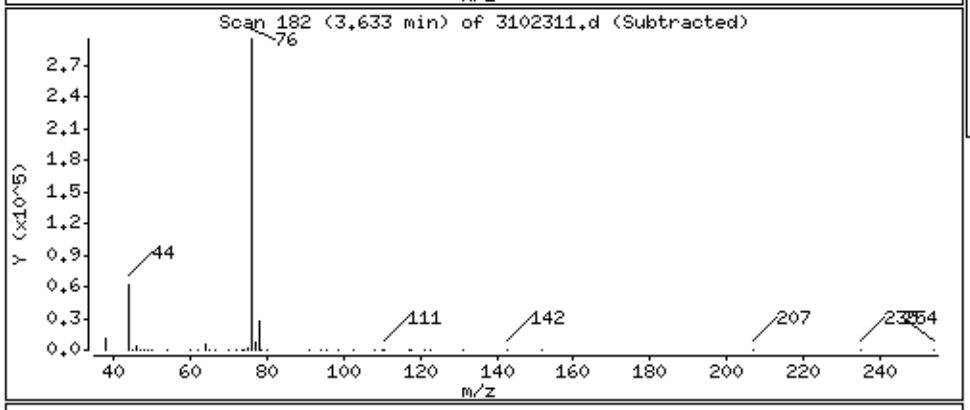
Column diameter: 0.25

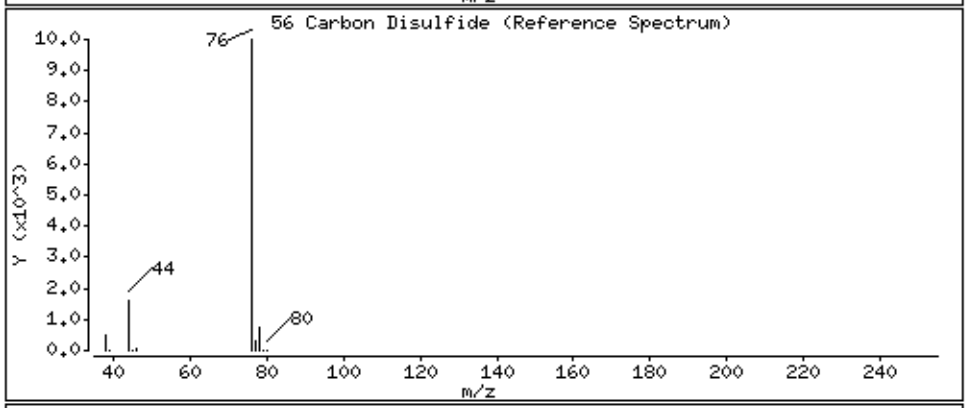
56 Carbon Disulfide

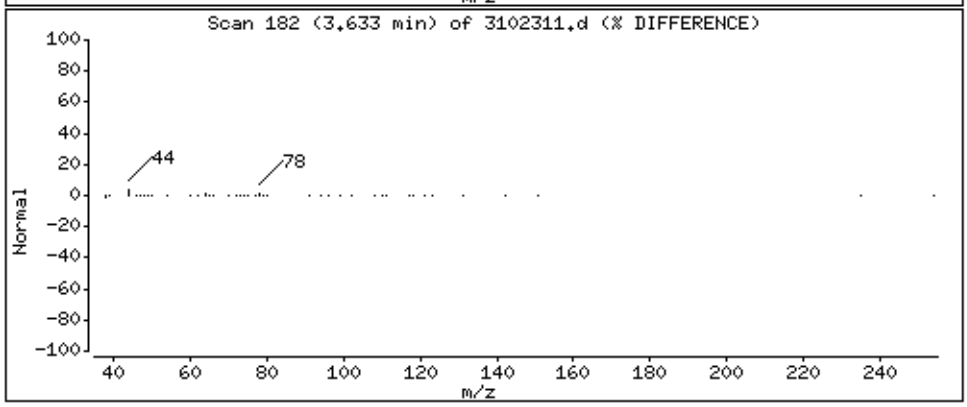
Concentration: 46.484 PPBV











Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

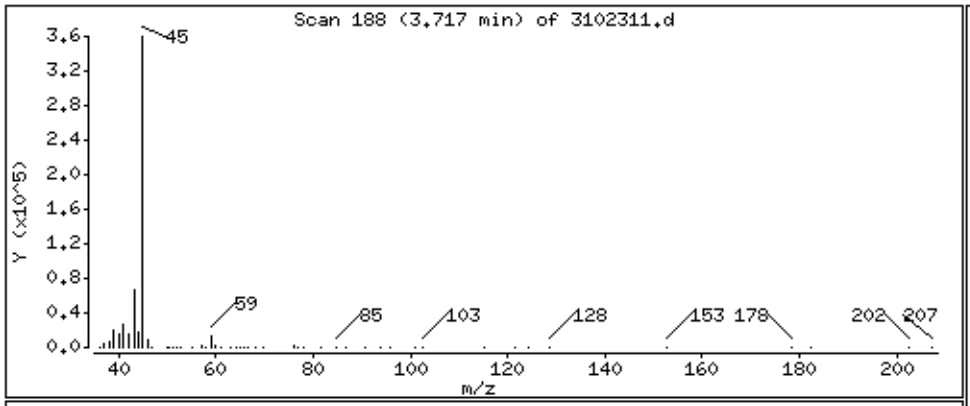
Operator: cb

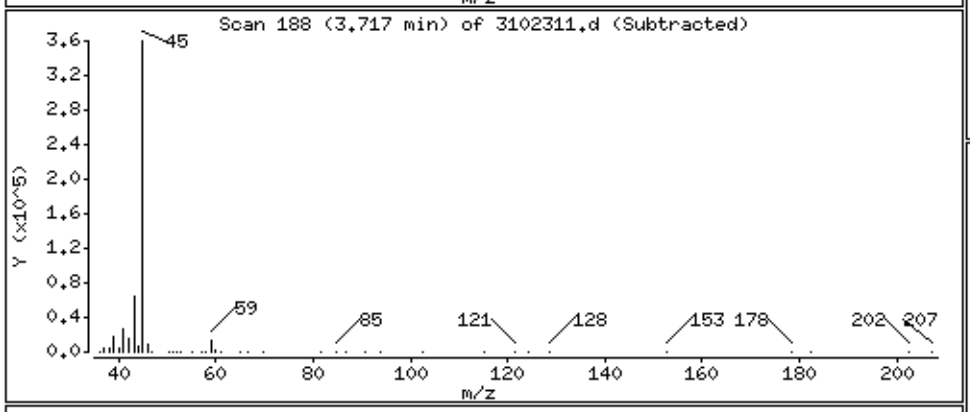
Column phase: RTX-624

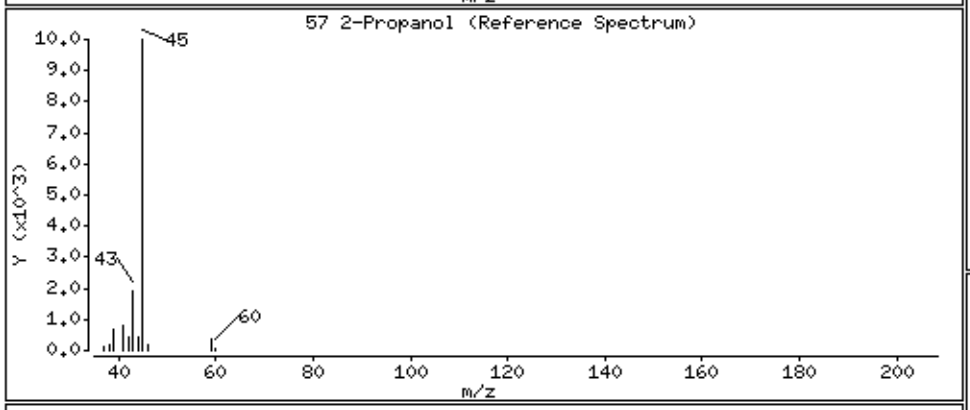
Column diameter: 0.25

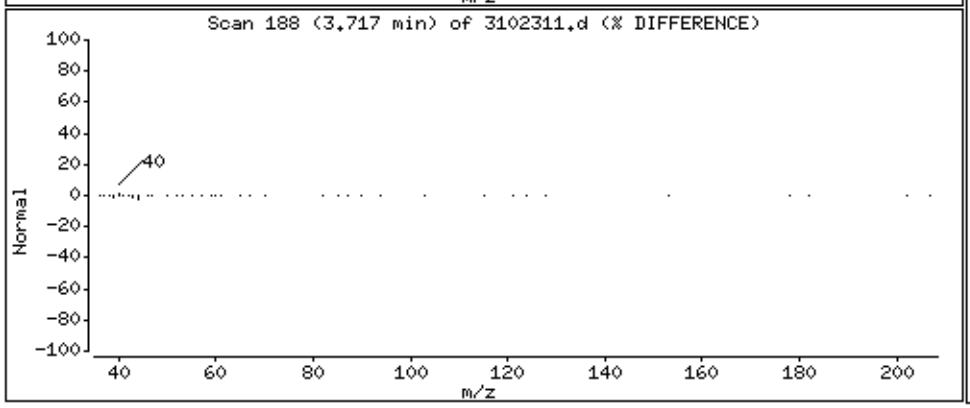
57 2-Propanol

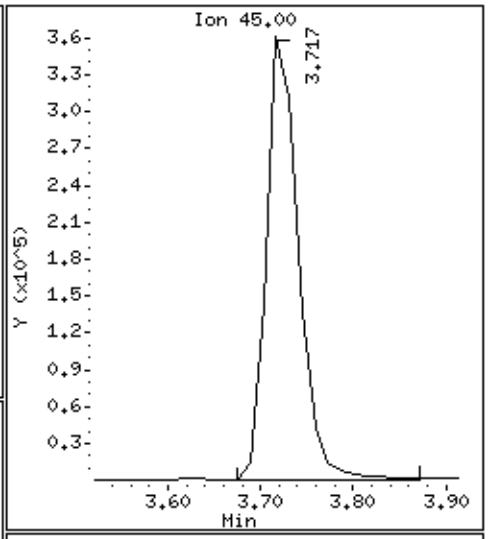
Concentration: 54.649 PPBV

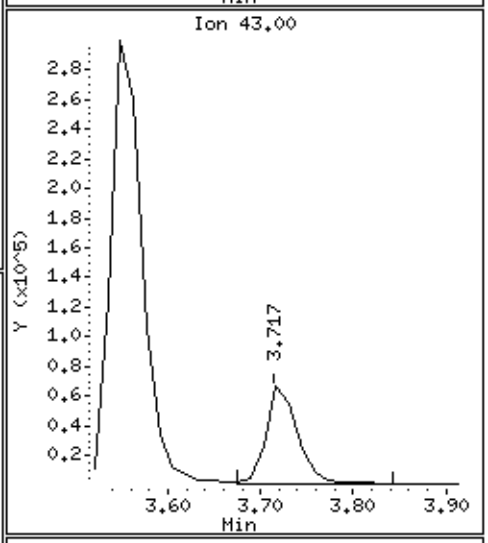


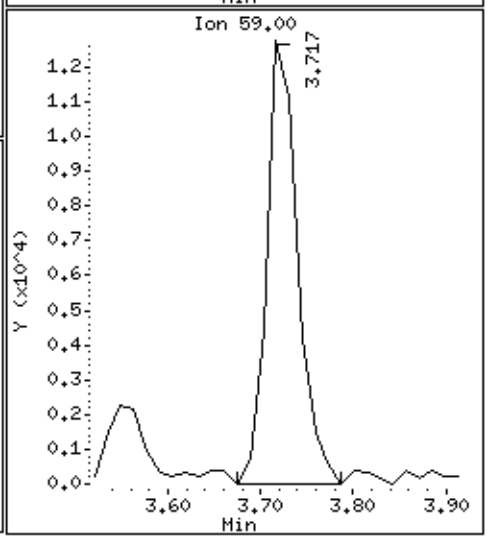












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

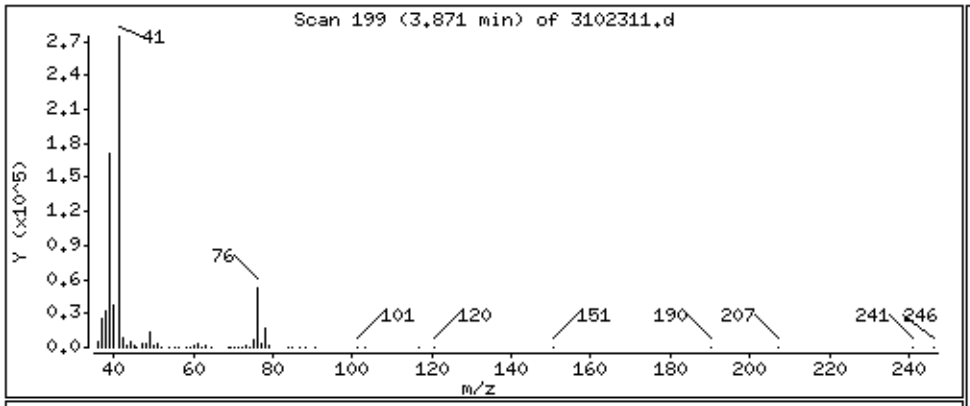
Operator: cb

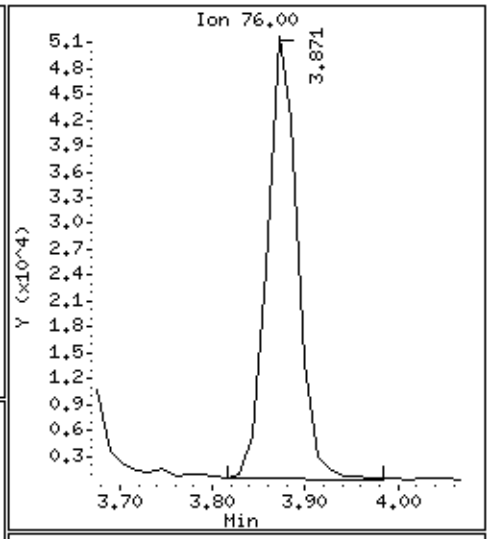
Column phase: RTX-624

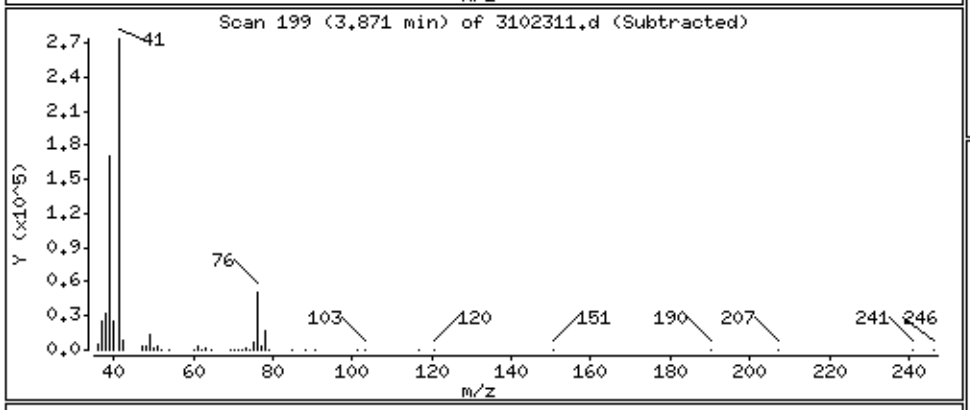
Column diameter: 0.25

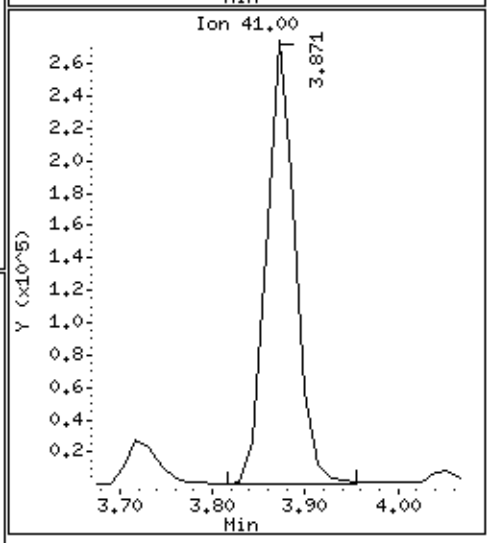
58 3-Chloropropene

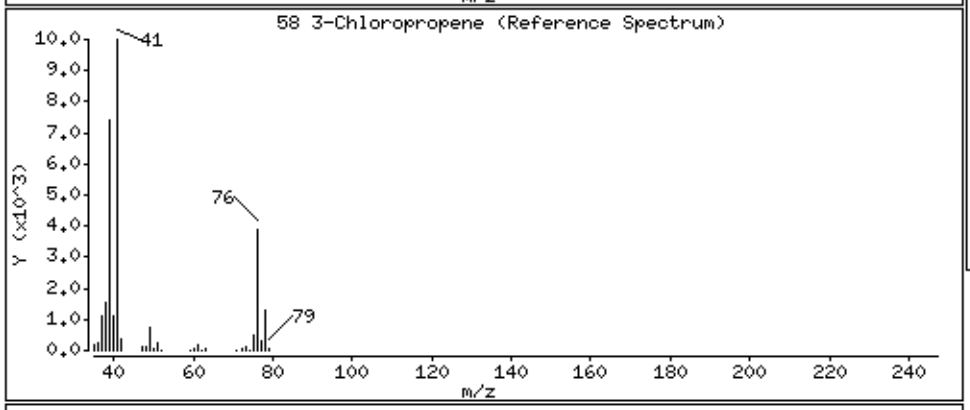
Concentration: 51.761 PPBV

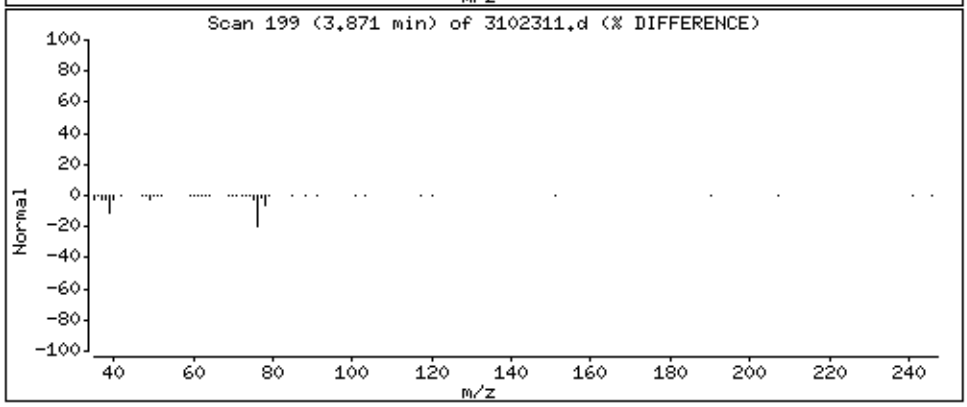












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

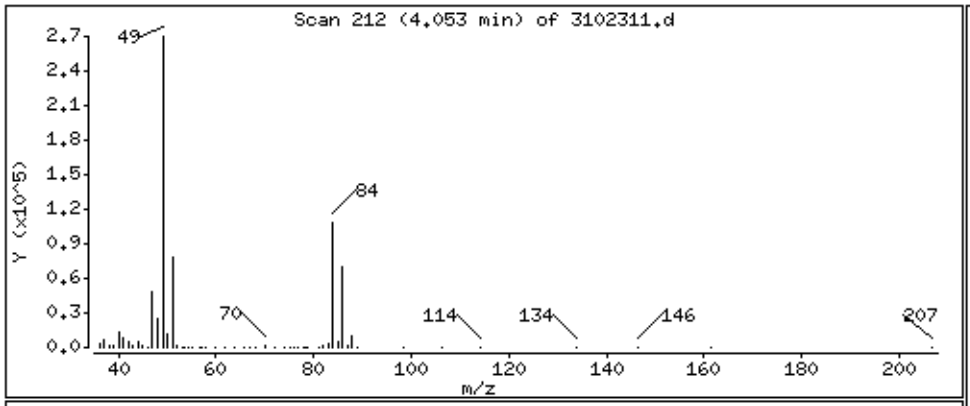
Operator: cb

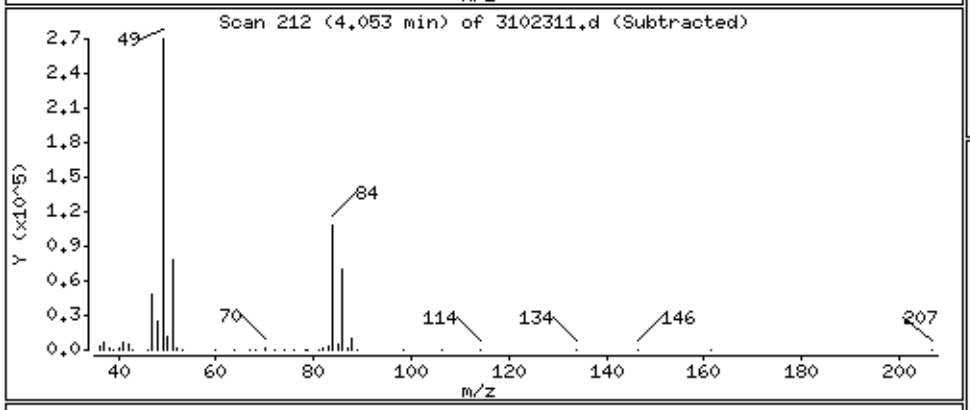
Column phase: RTX-624

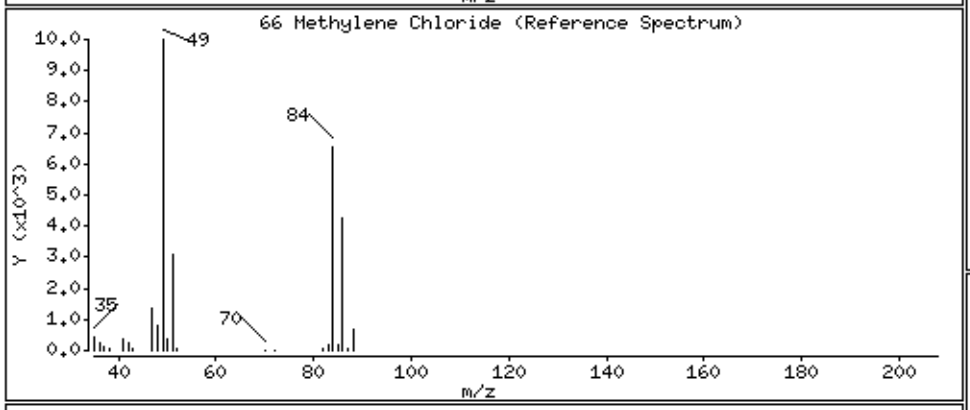
Column diameter: 0.25

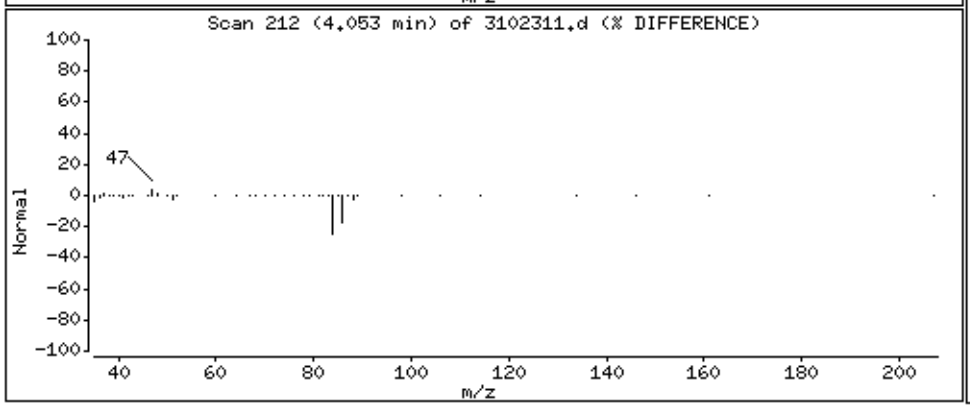
66 Methylene Chloride

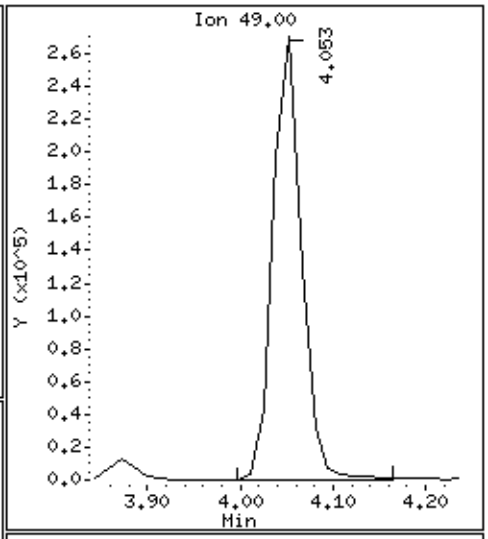
Concentration: 51.116 PPBV

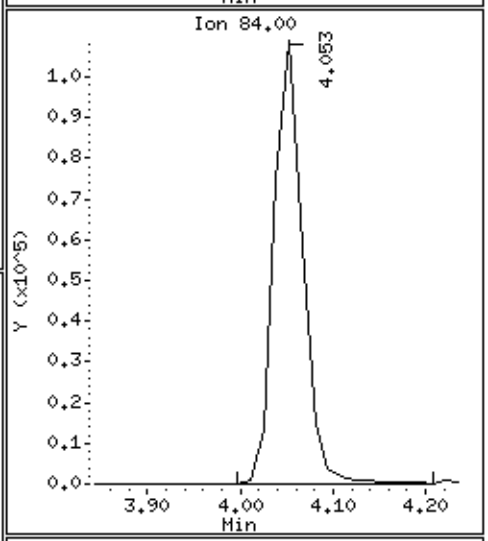


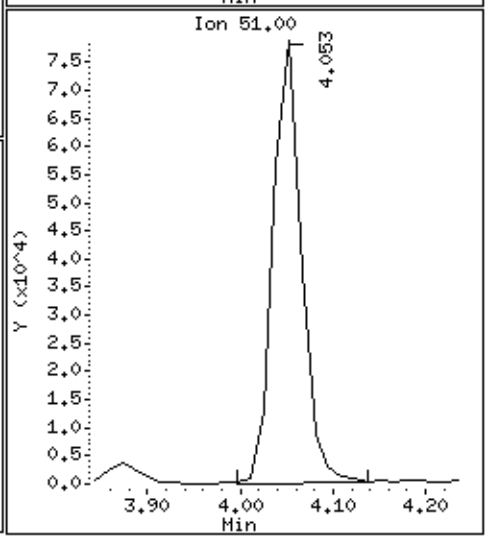












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

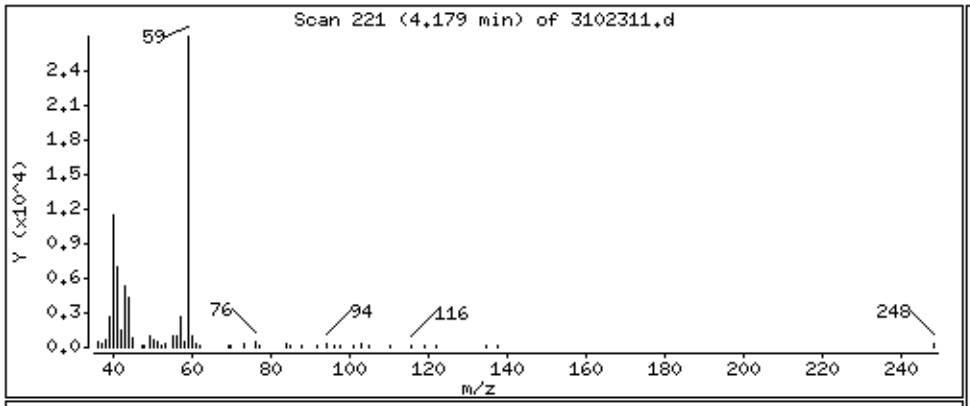
Operator: cb

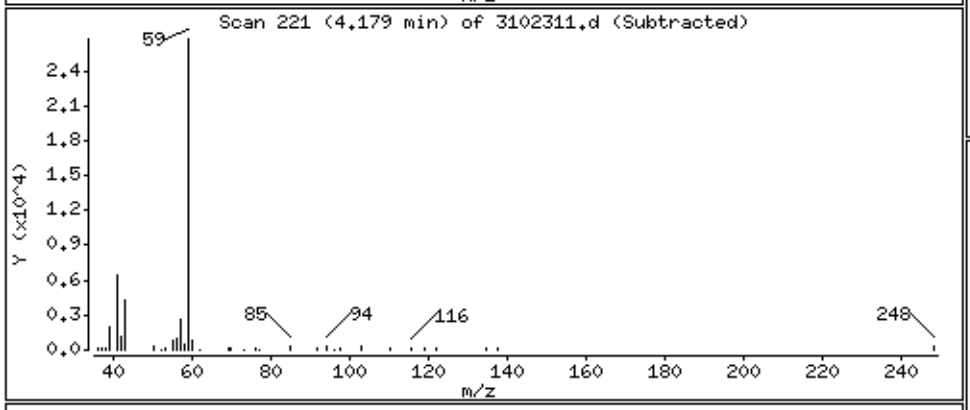
Column phase: RTX-624

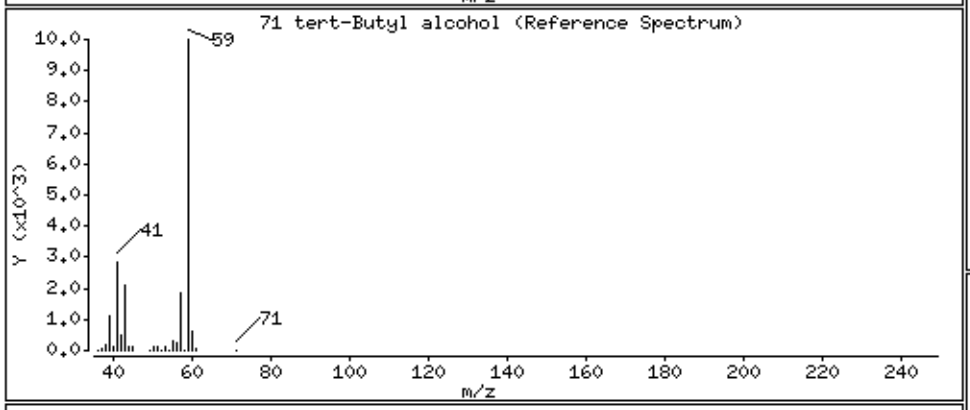
Column diameter: 0.25

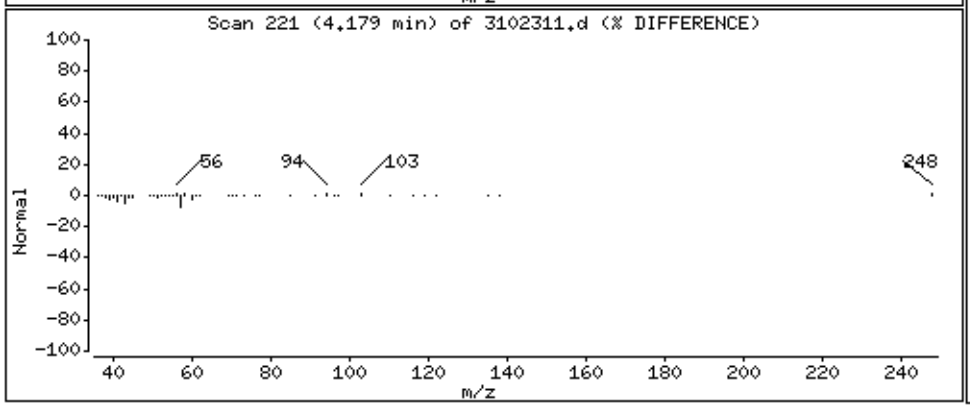
71 tert-Butyl alcohol

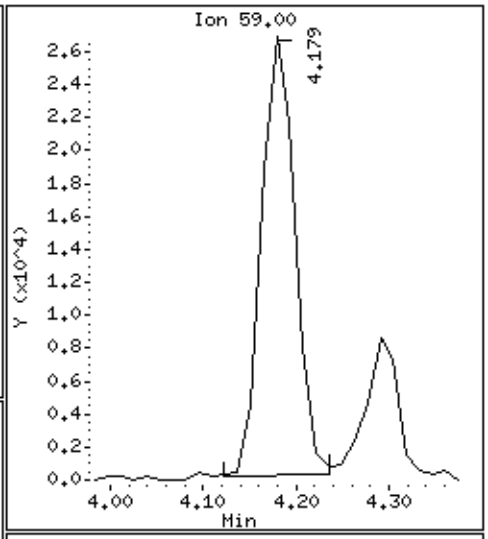
Concentration: 3.905 PPBV

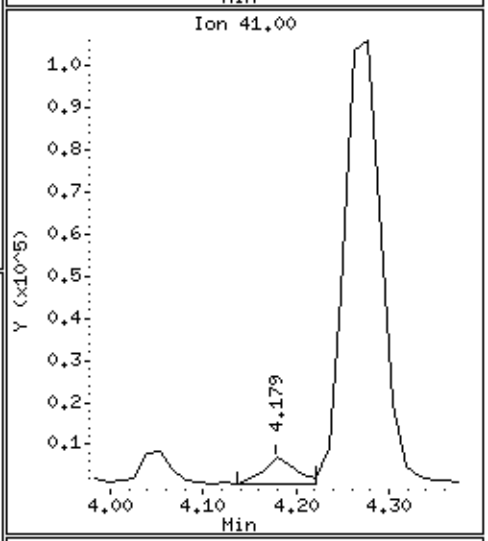


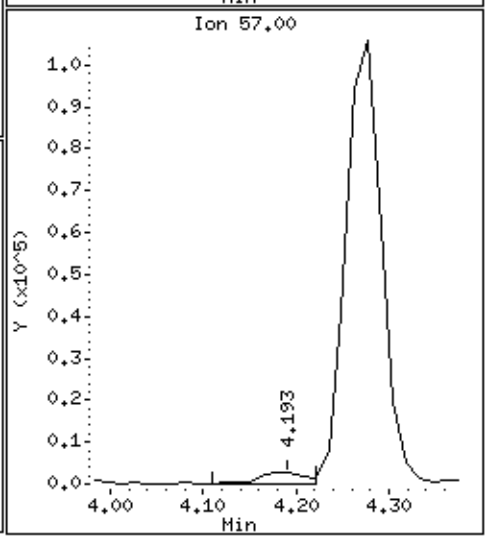












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

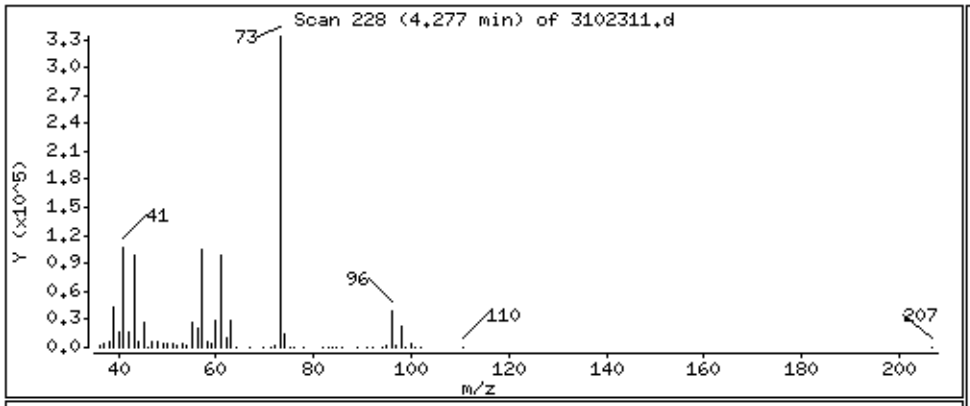
Operator: cb

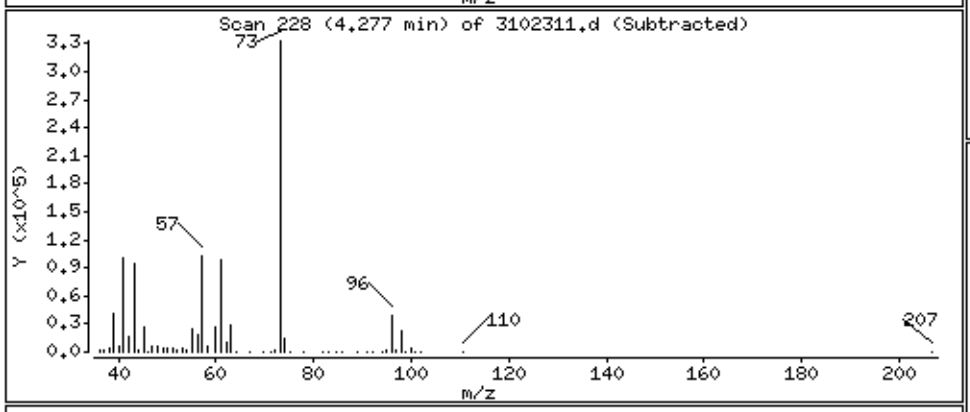
Column phase: RTX-624

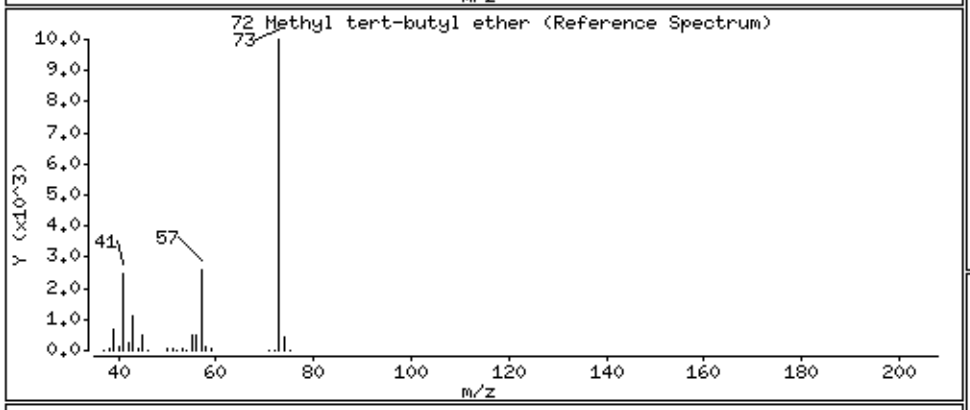
Column diameter: 0.25

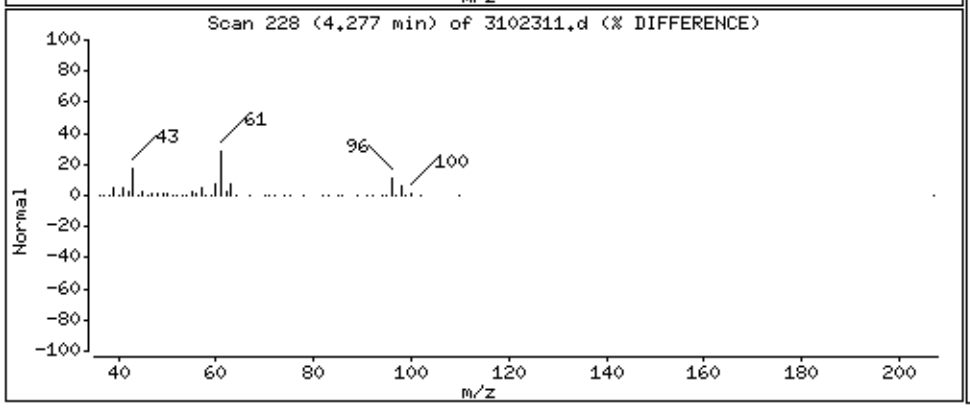
72 Methyl tert-butyl ether

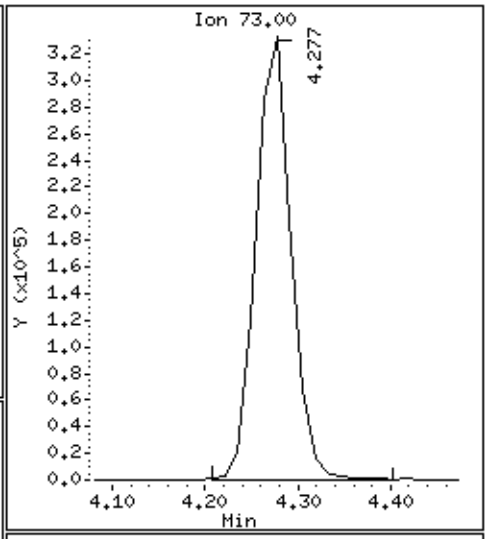
Concentration: 52.451 PPBV

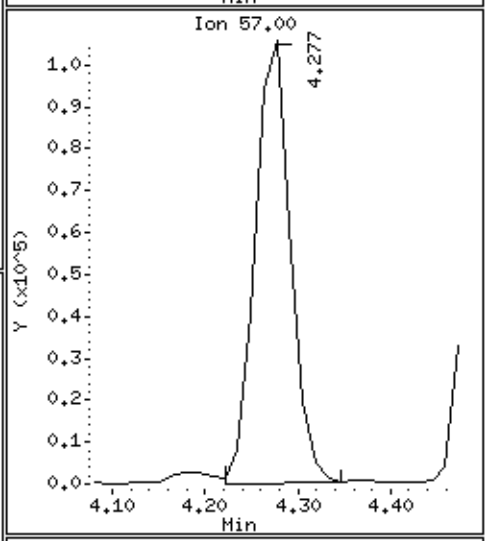


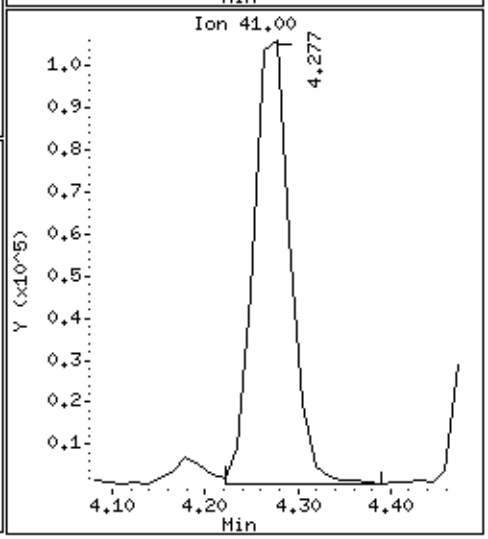












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

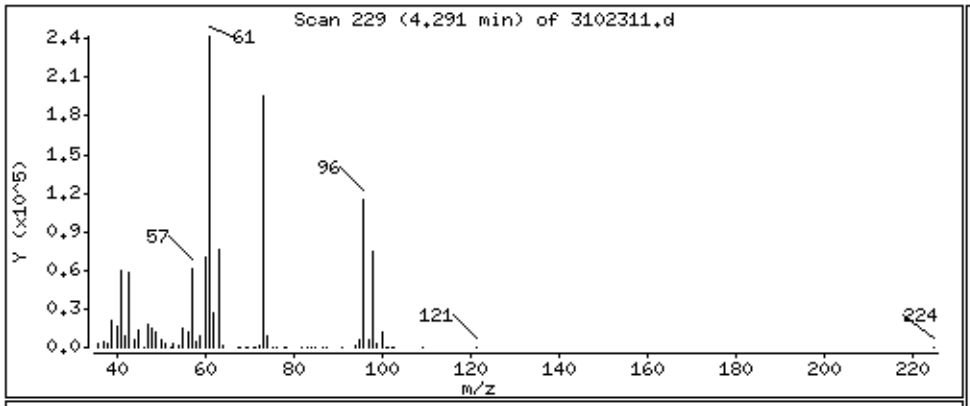
Operator: cb

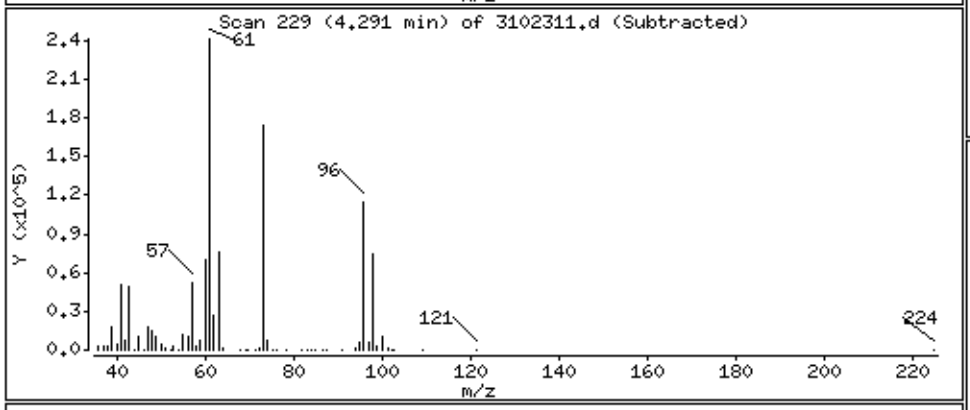
Column phase: RTX-624

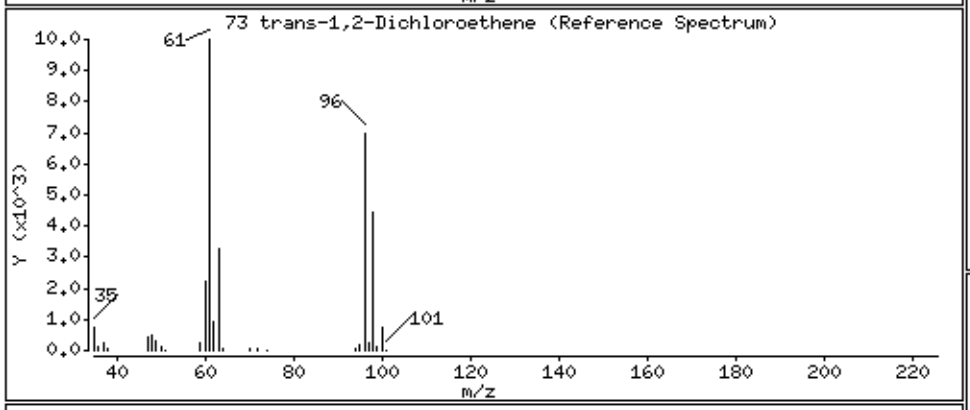
Column diameter: 0.25

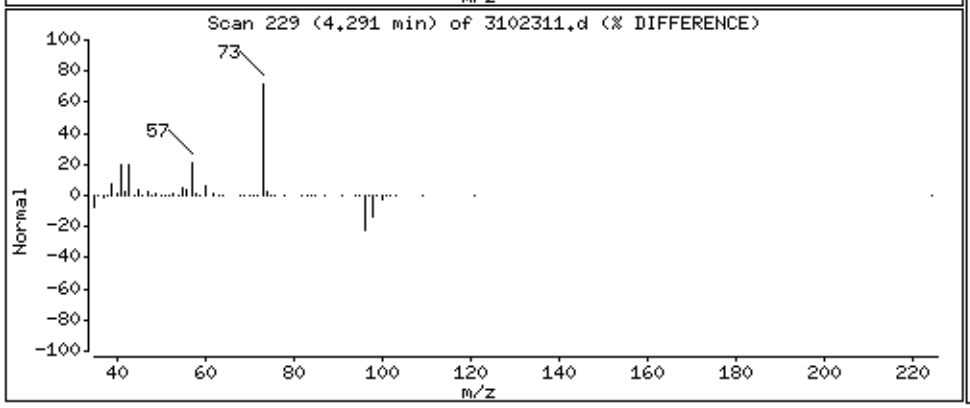
73 trans-1,2-Dichloroethene

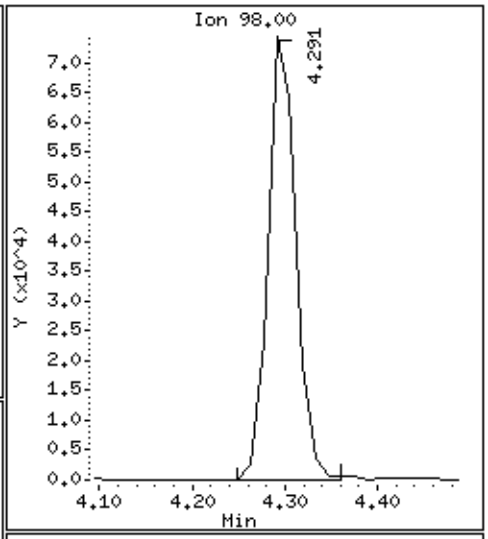
Concentration: 47.994 PPBV

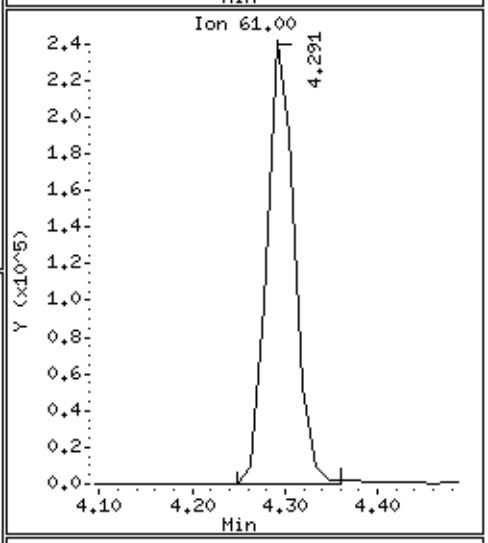


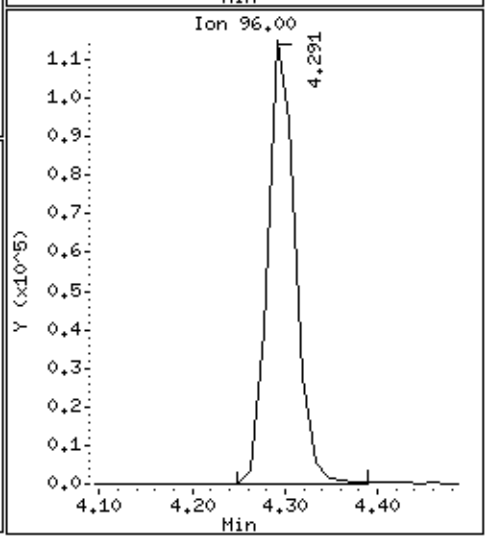












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

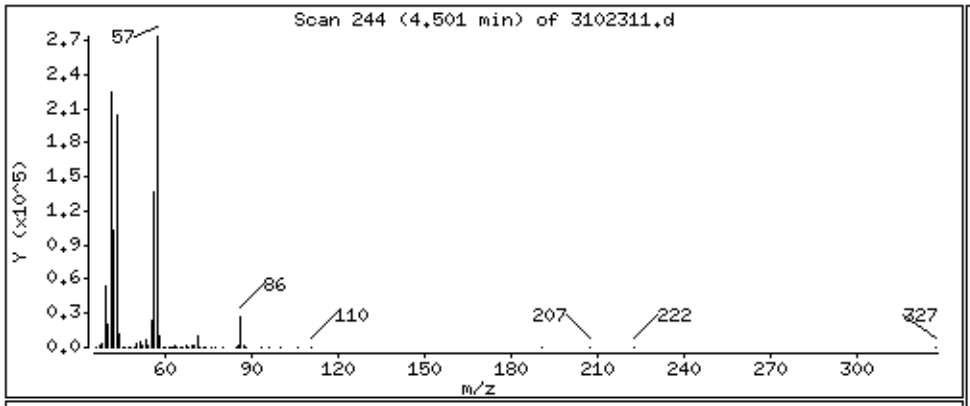
Operator: cb

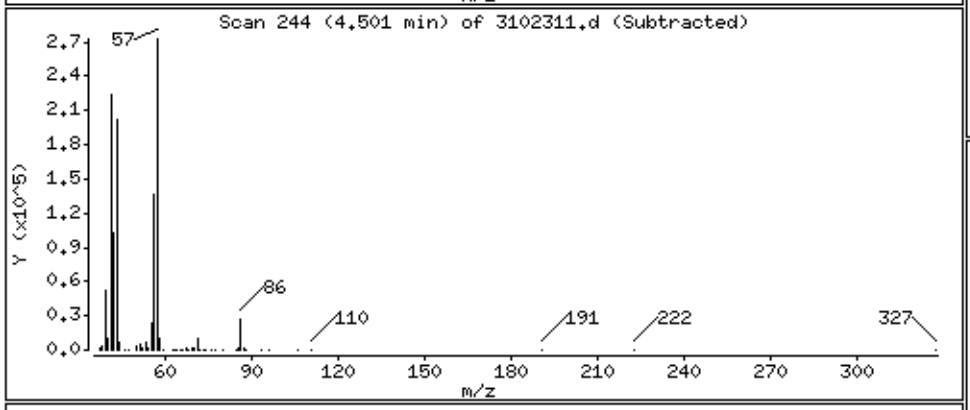
Column phase: RTX-624

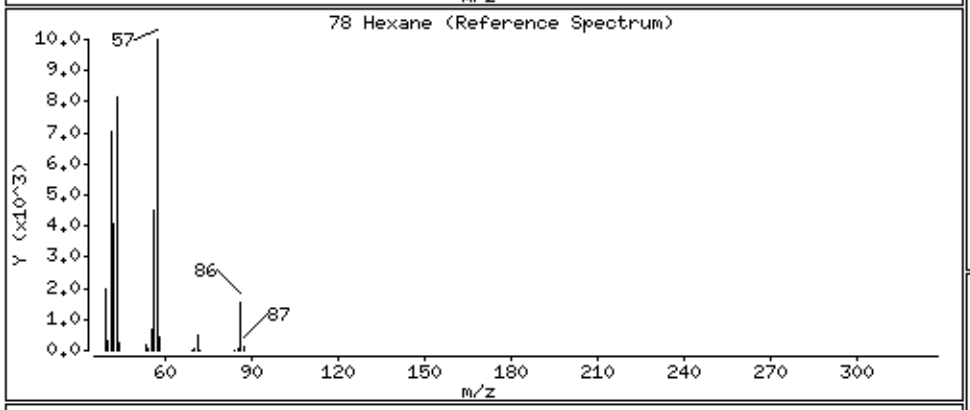
Column diameter: 0.25

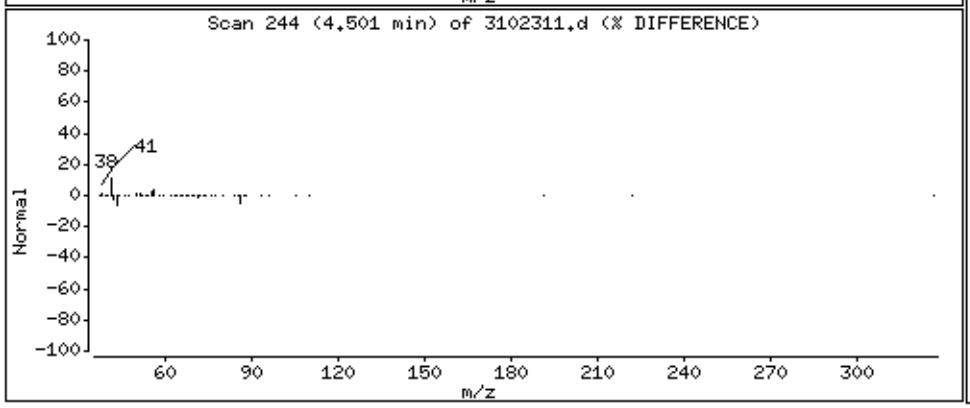
78 Hexane

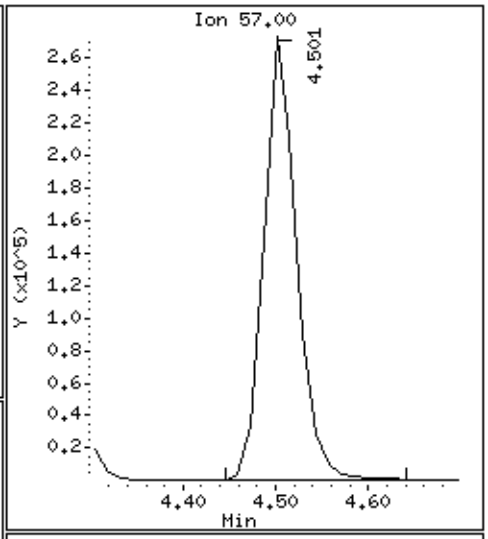
Concentration: 52.094 PPBV

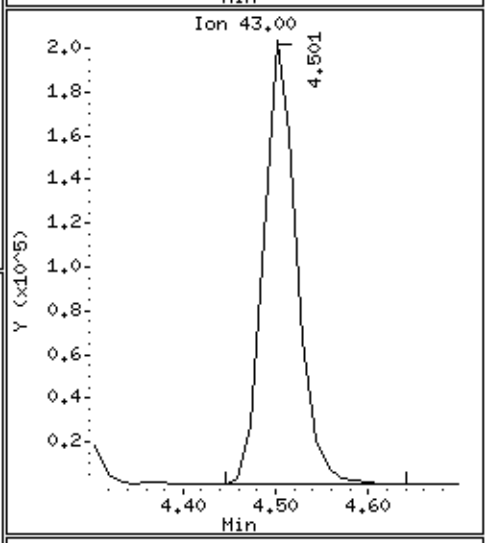


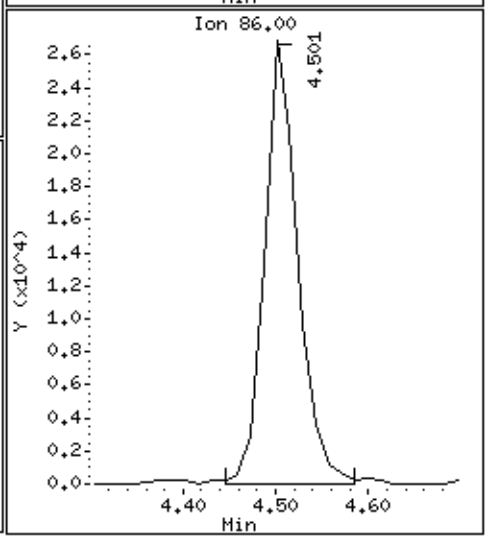












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

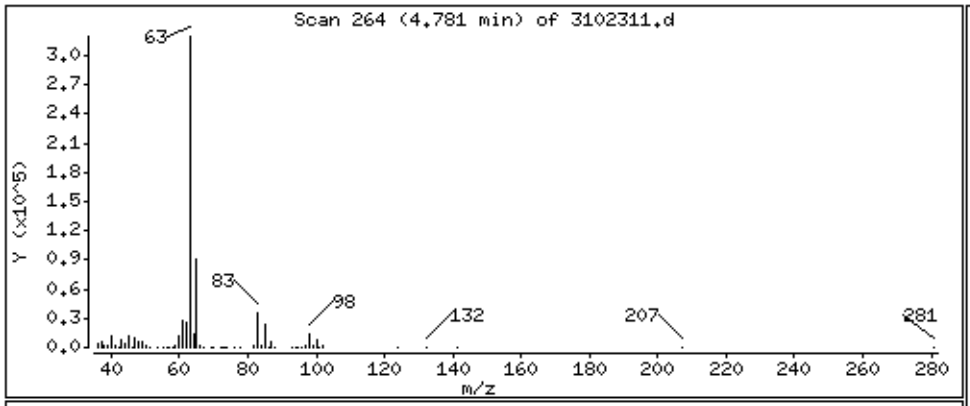
Operator: cb

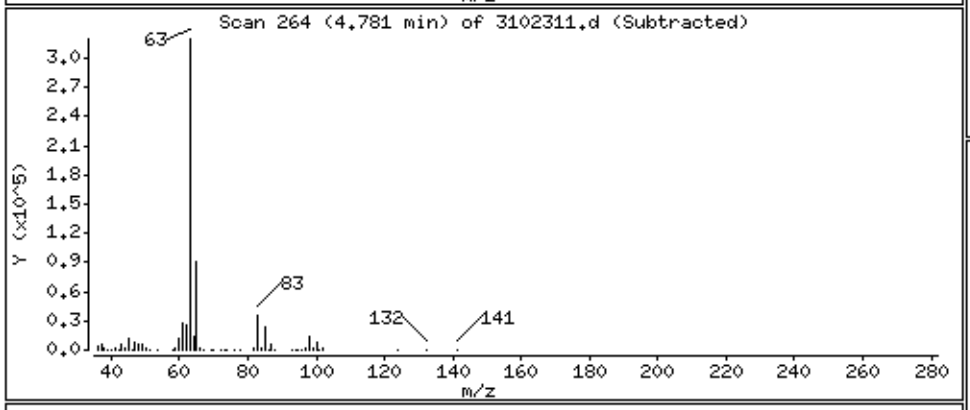
Column phase: RTX-624

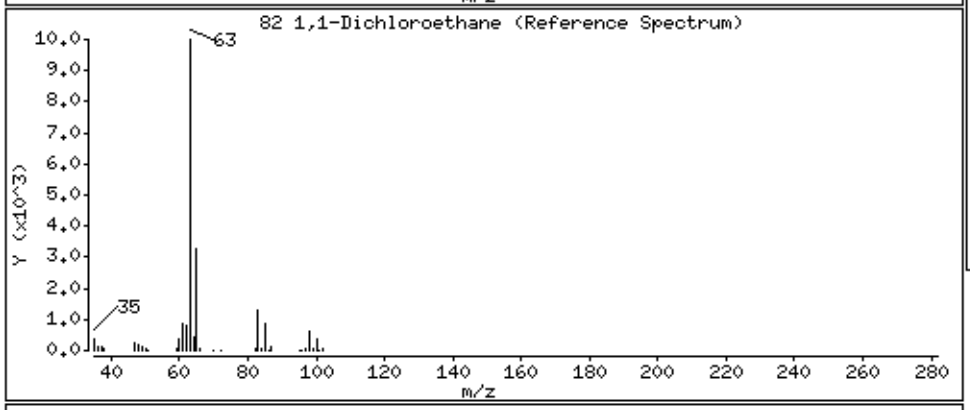
Column diameter: 0.25

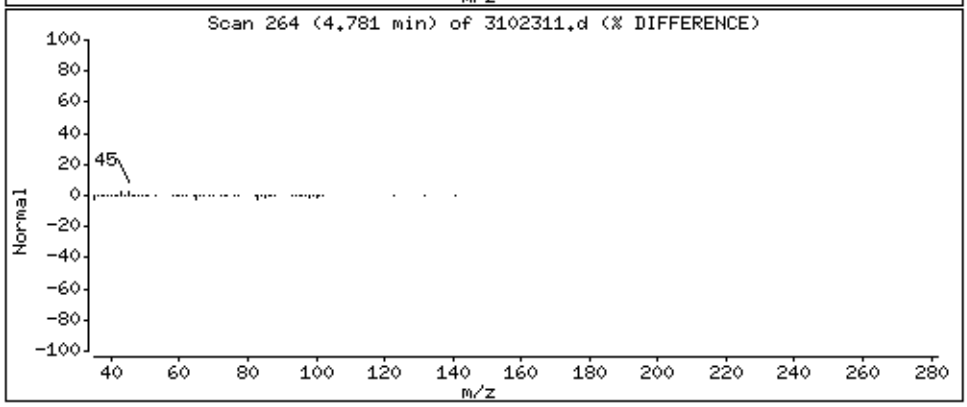
82 1,1-Dichloroethane

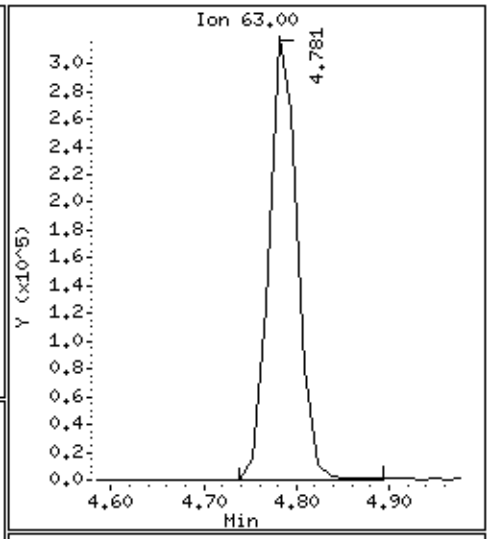
Concentration: 54.213 PPBV

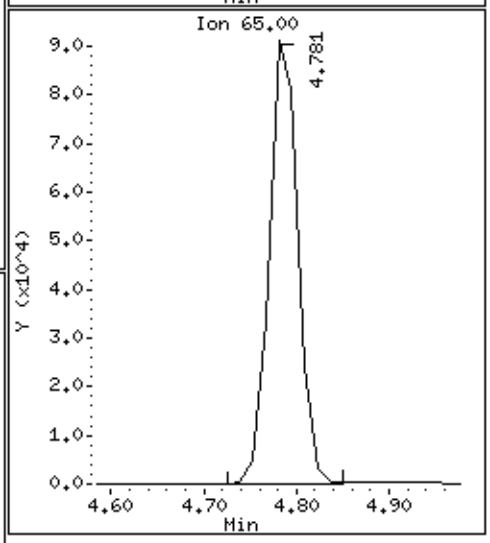












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

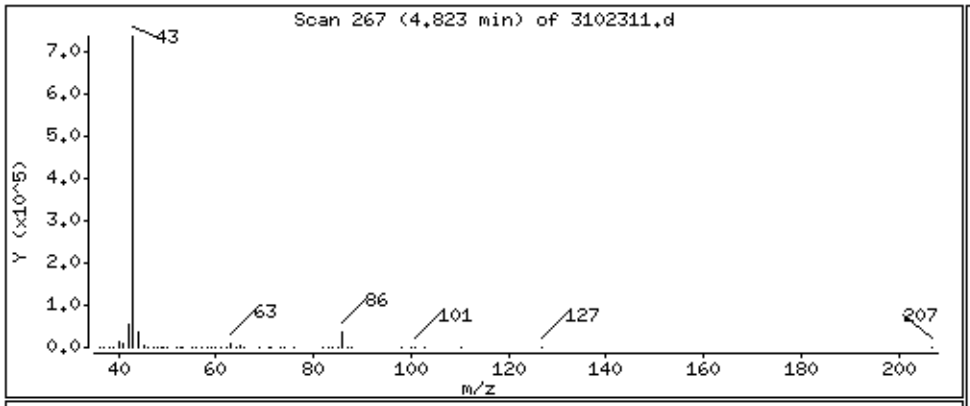
Operator: cb

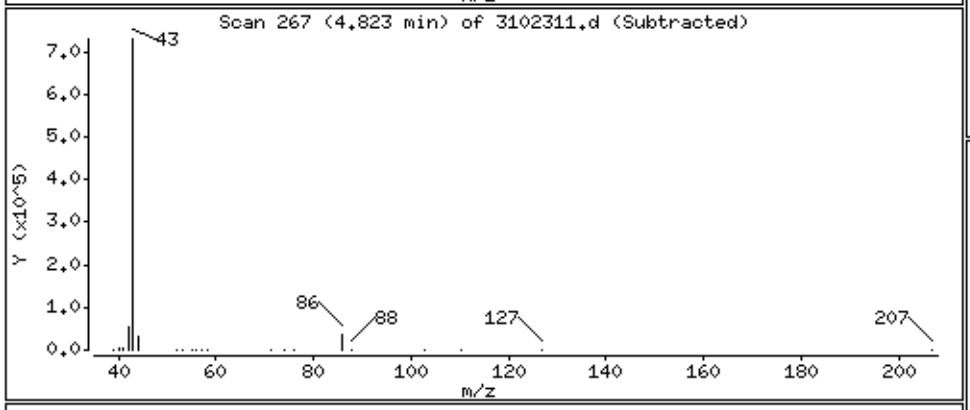
Column phase: RTX-624

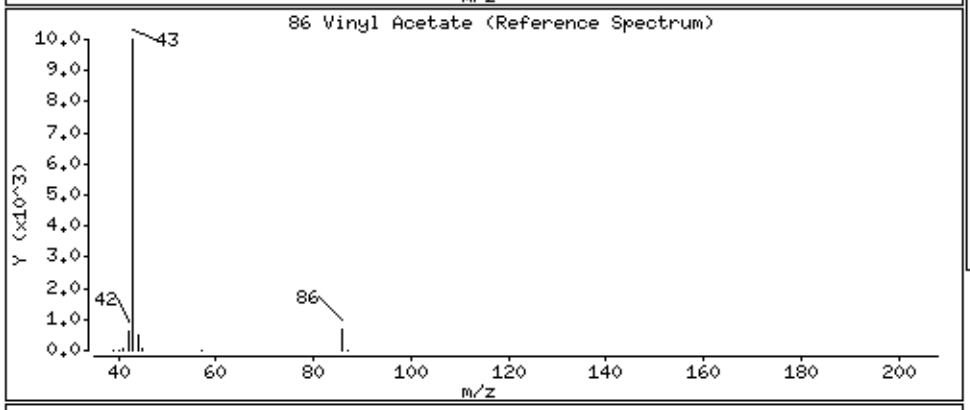
Column diameter: 0.25

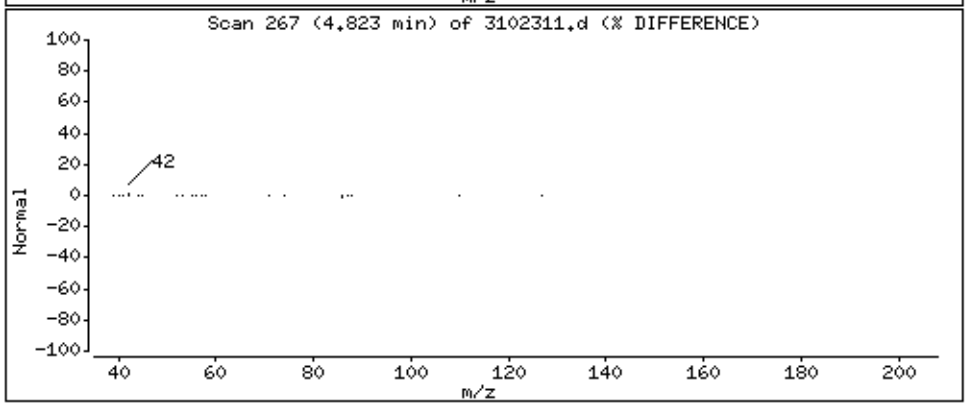
86 Vinyl Acetate

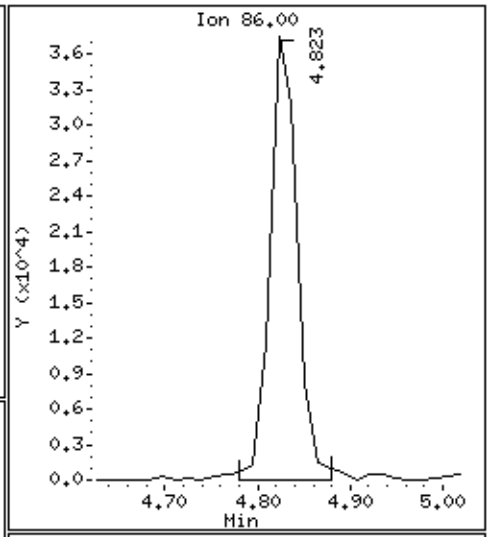
Concentration: 57.224 PPBV

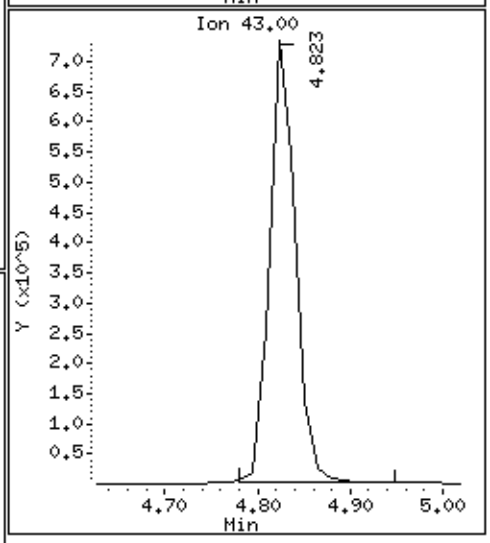












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

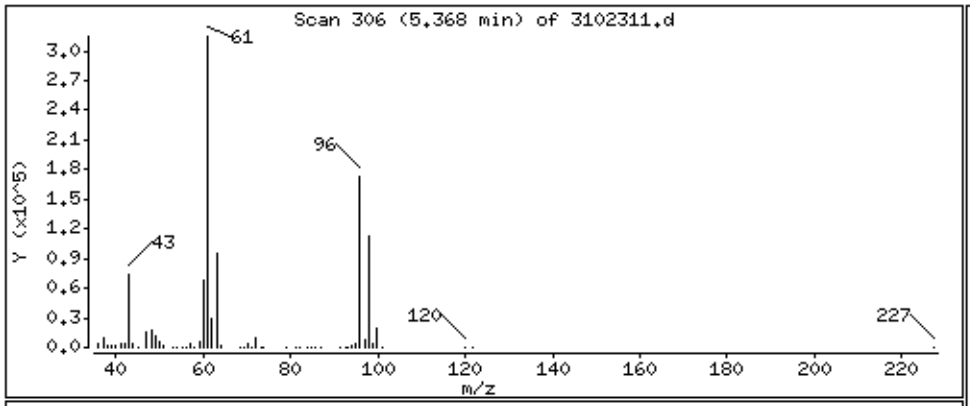
Operator: cb

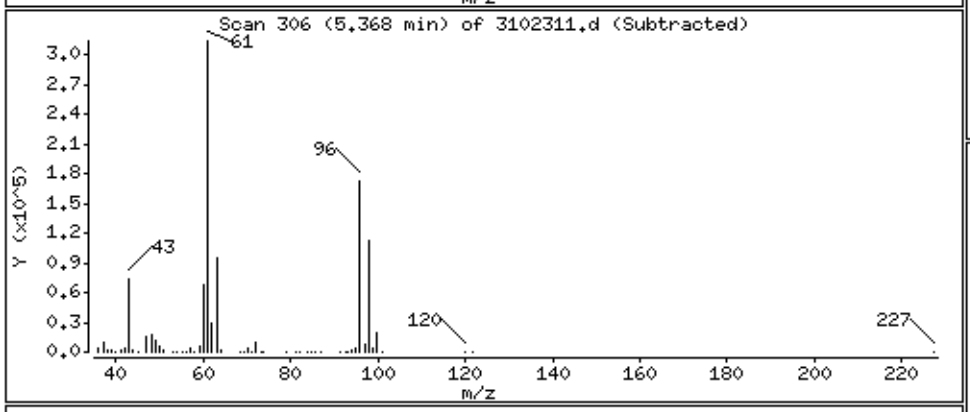
Column phase: RTX-624

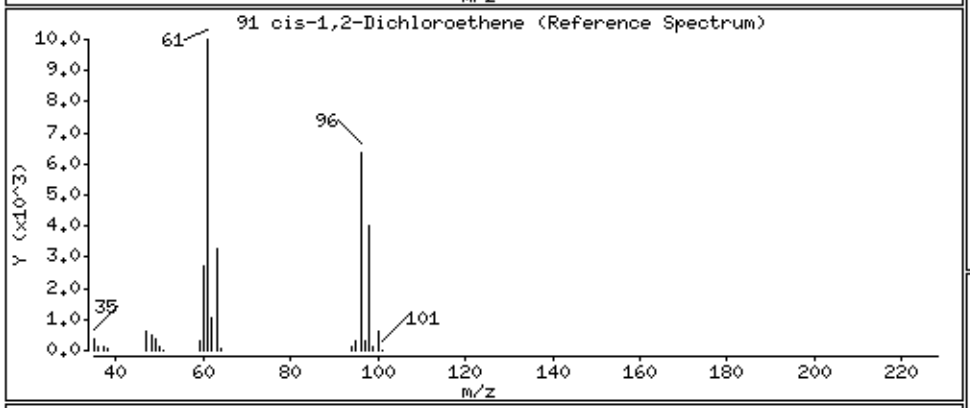
Column diameter: 0.25

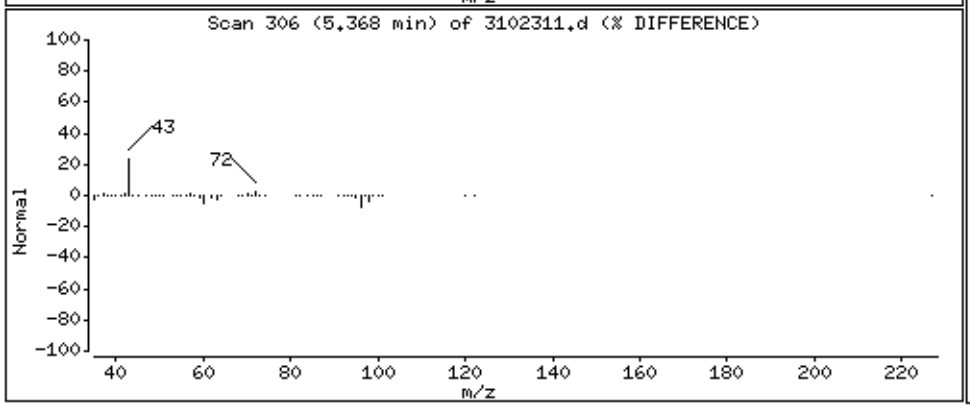
91 cis-1,2-Dichloroethene

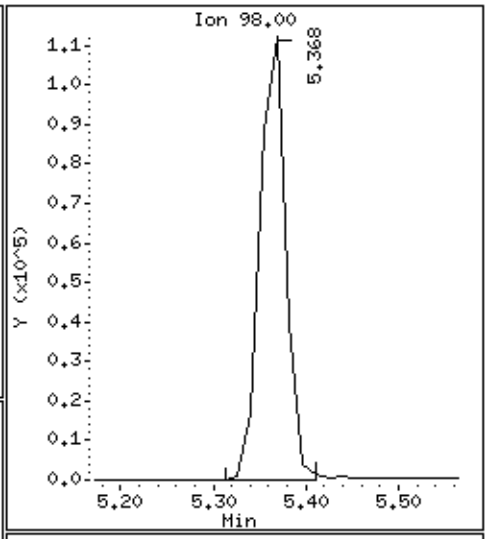
Concentration: 57.924 PPBV

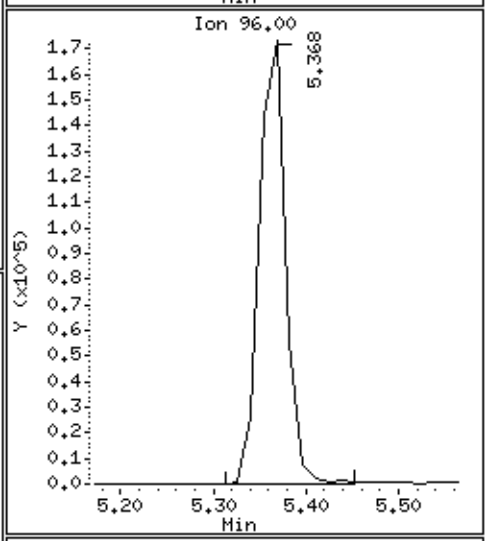


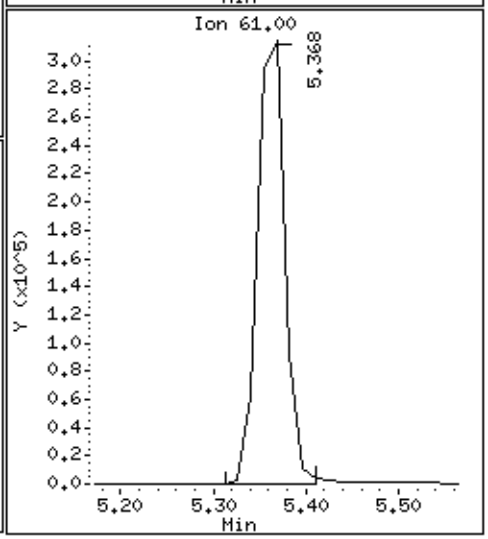












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

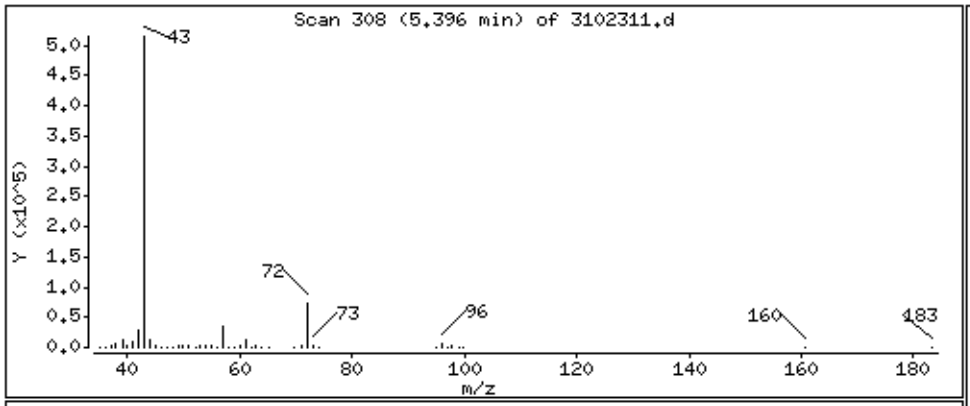
Operator: cb

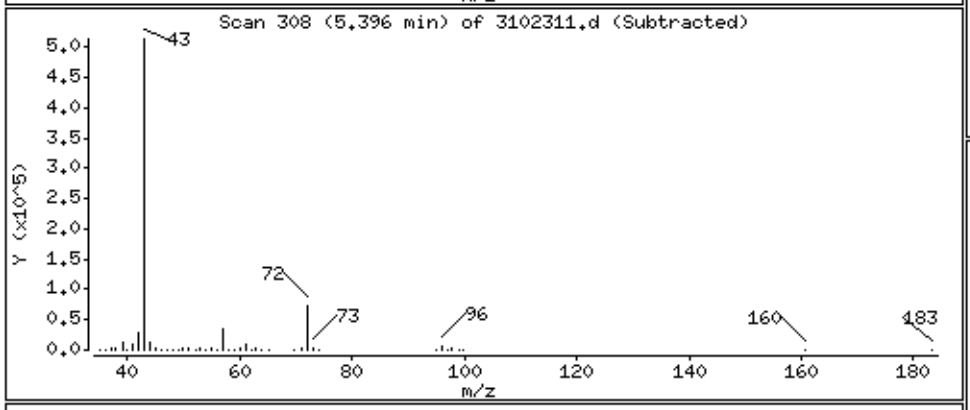
Column phase: RTX-624

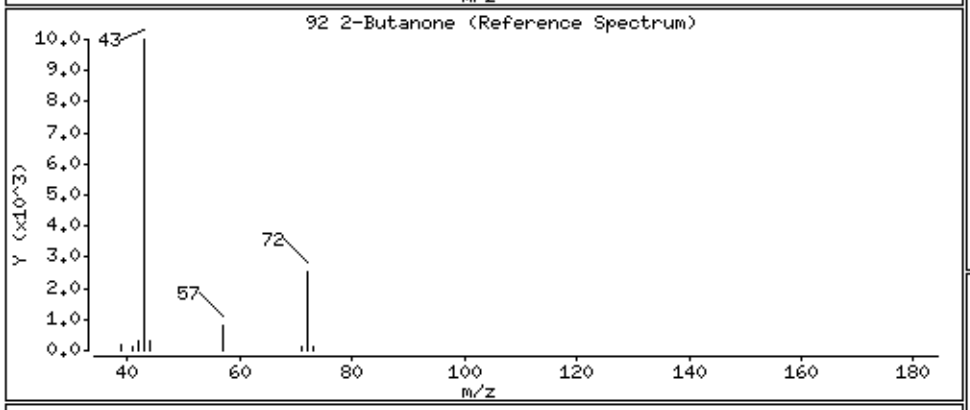
Column diameter: 0.25

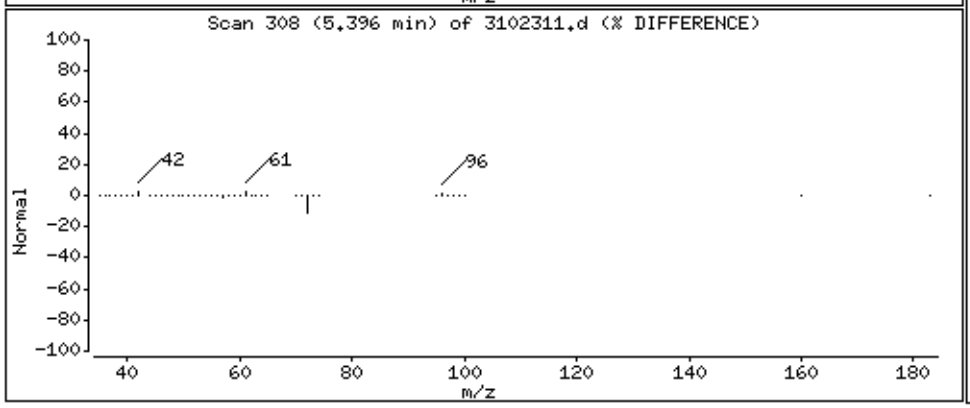
92 2-Butanone

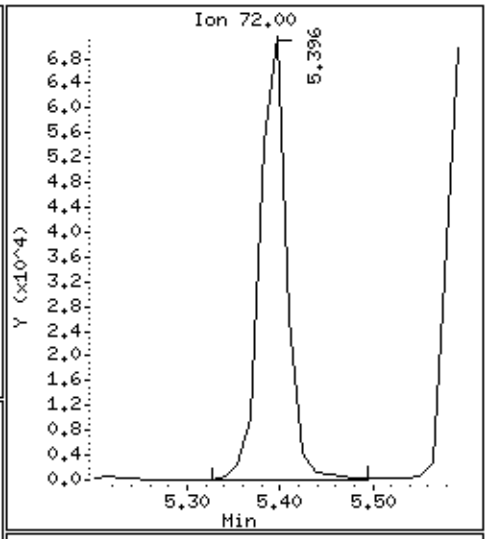
Concentration: 55.754 PPBV

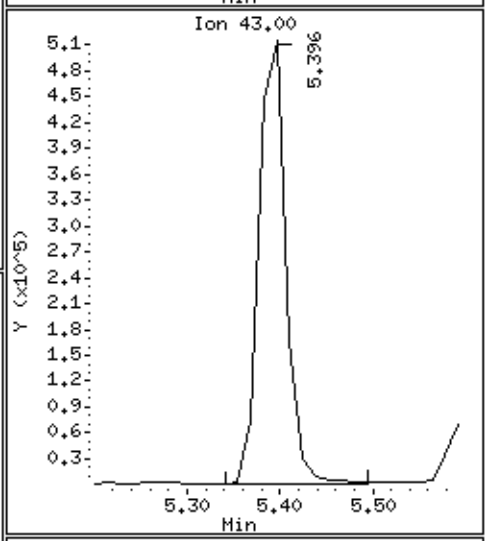


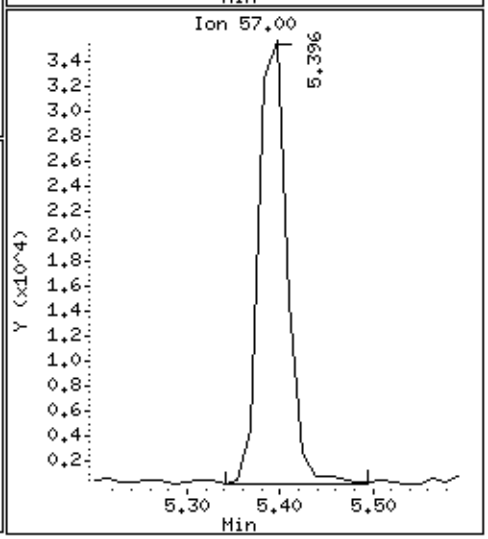












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

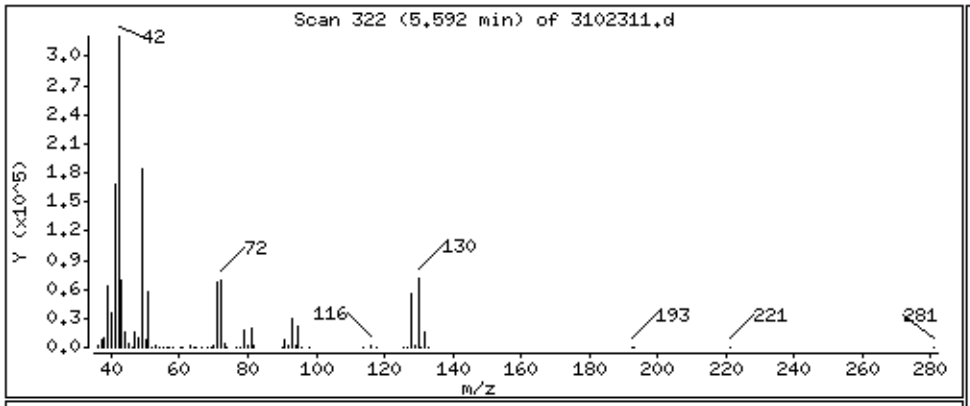
Operator: cb

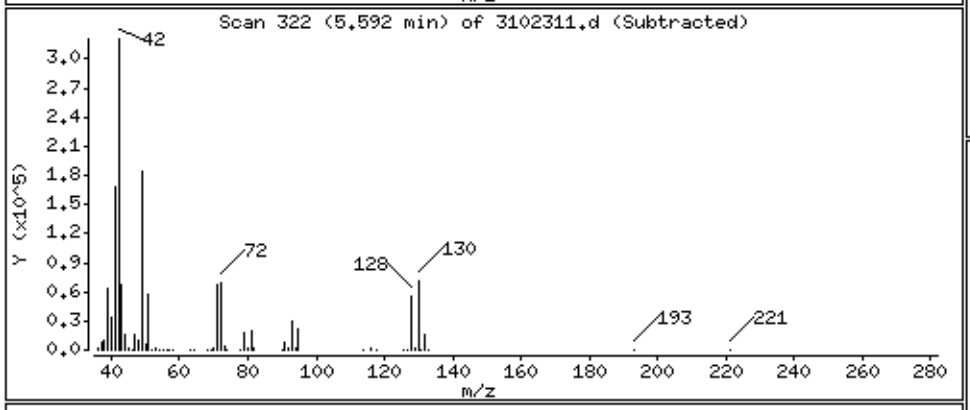
Column phase: RTX-624

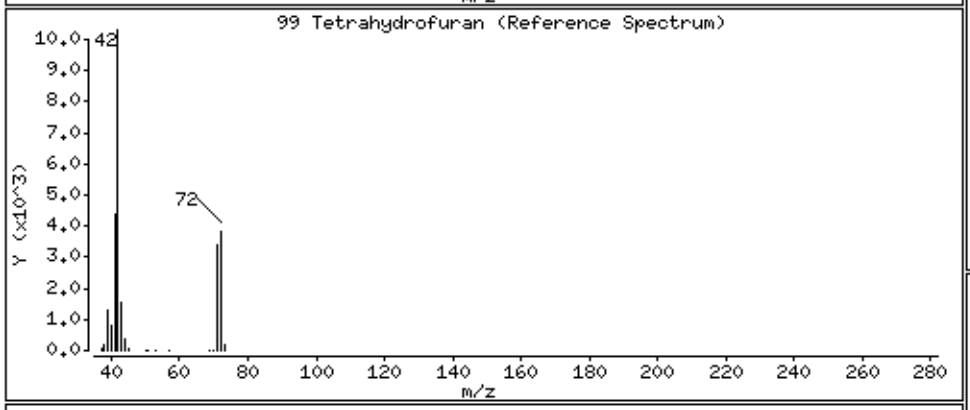
Column diameter: 0.25

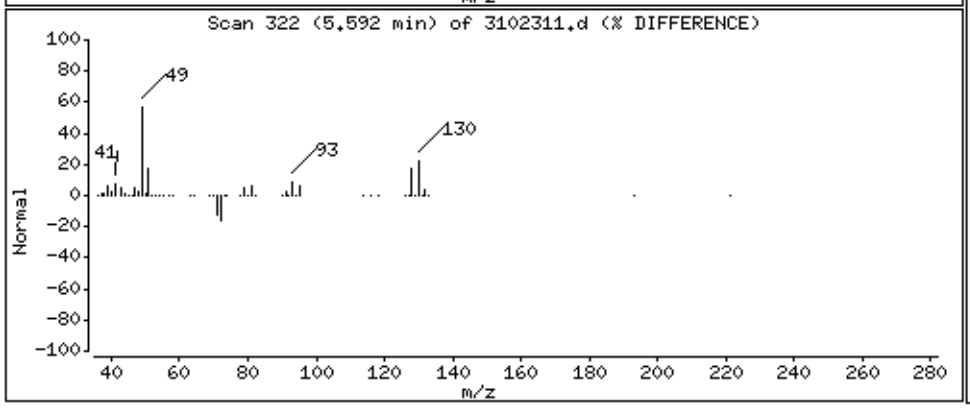
99 Tetrahydrofuran

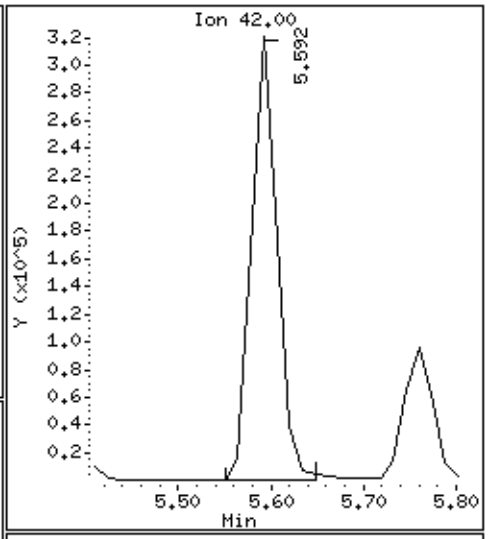
Concentration: 52.539 PPBV

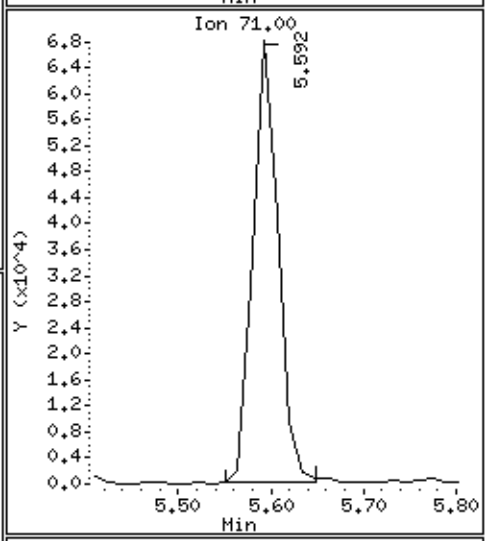


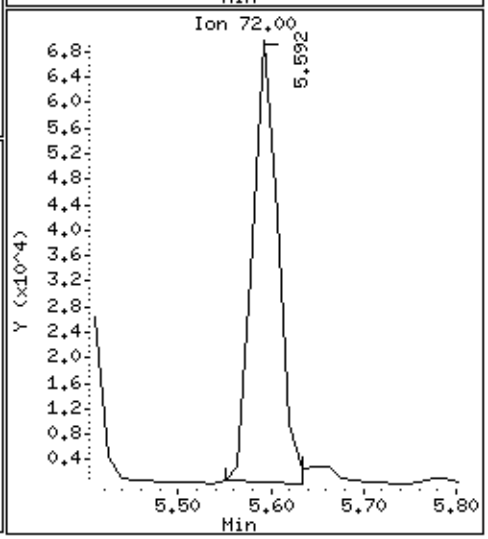












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

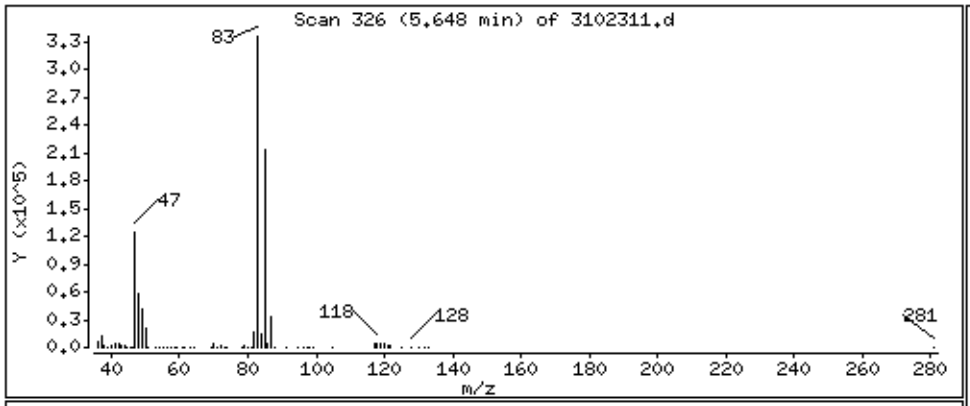
Operator: cb

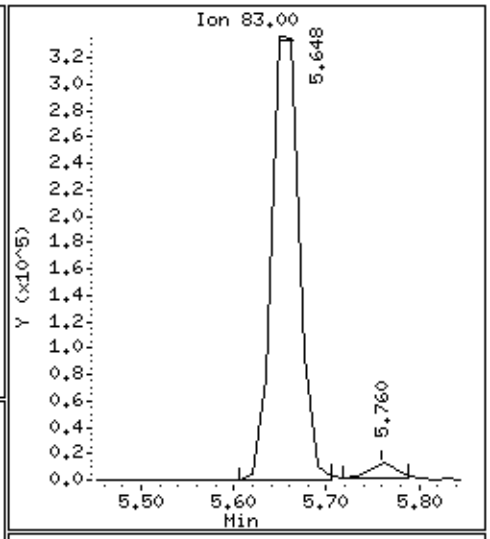
Column phase: RTX-624

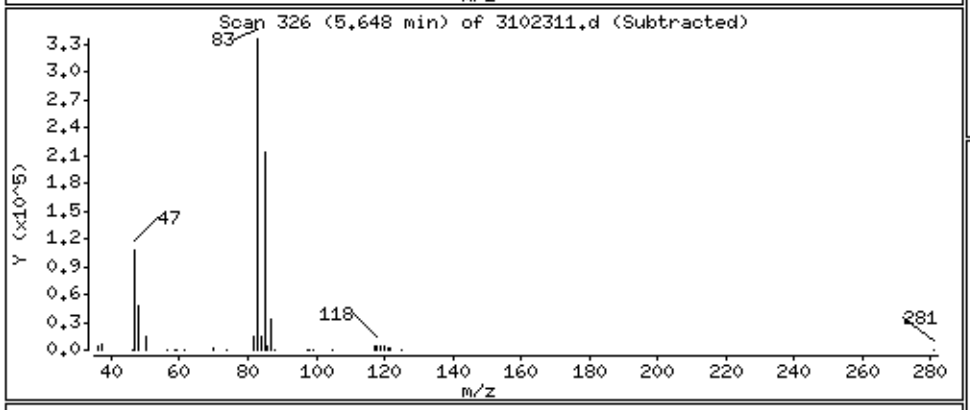
Column diameter: 0.25

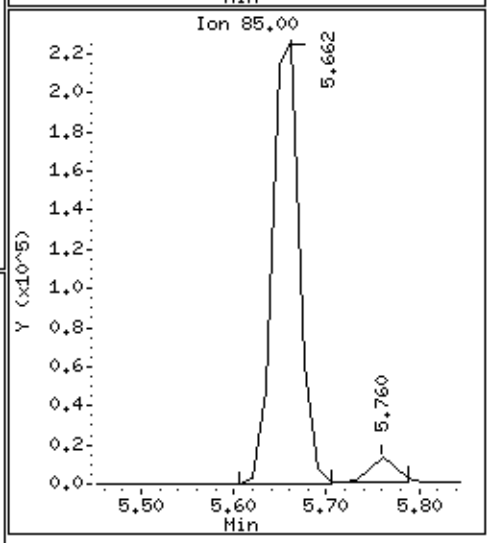
100 Chloroform

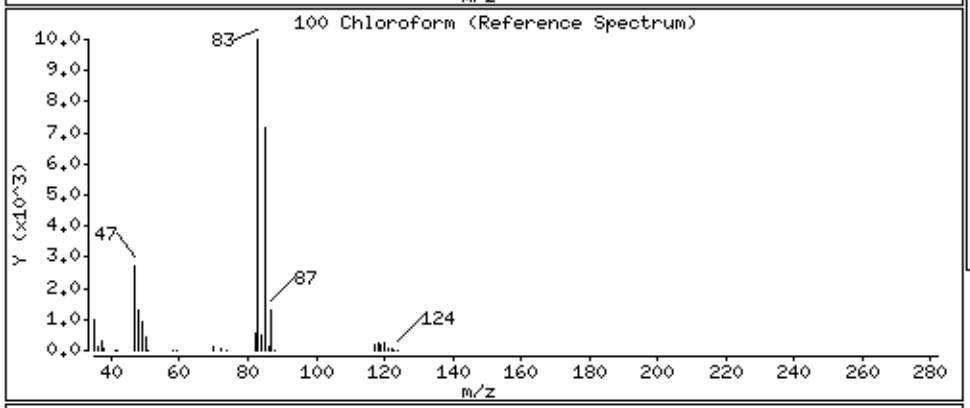
Concentration: 55.571 PPBV

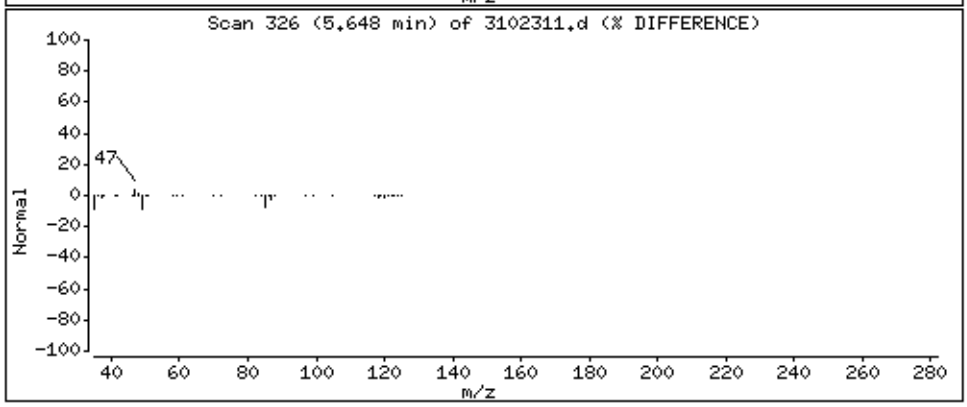












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

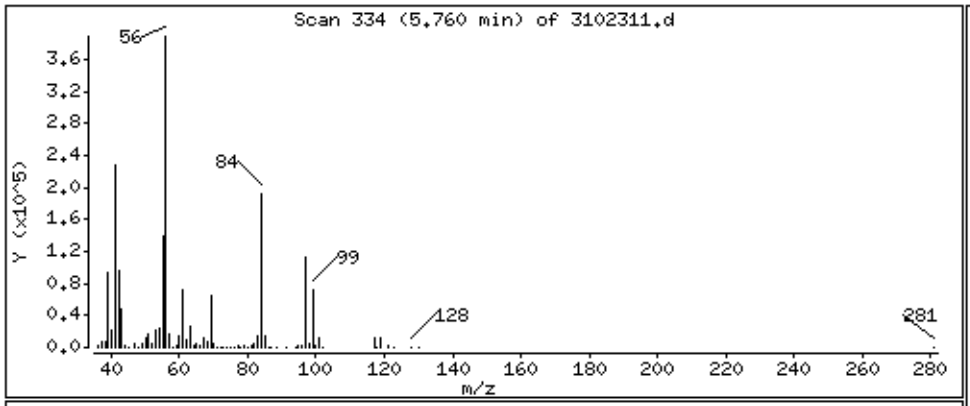
Operator: cb

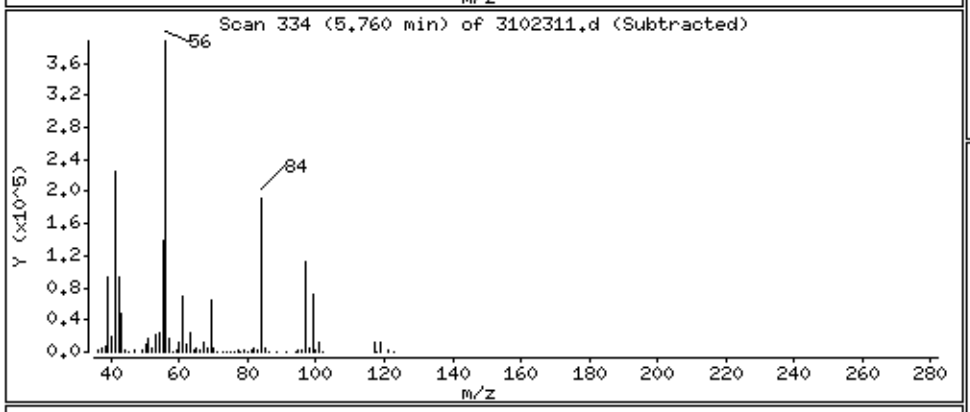
Column phase: RTX-624

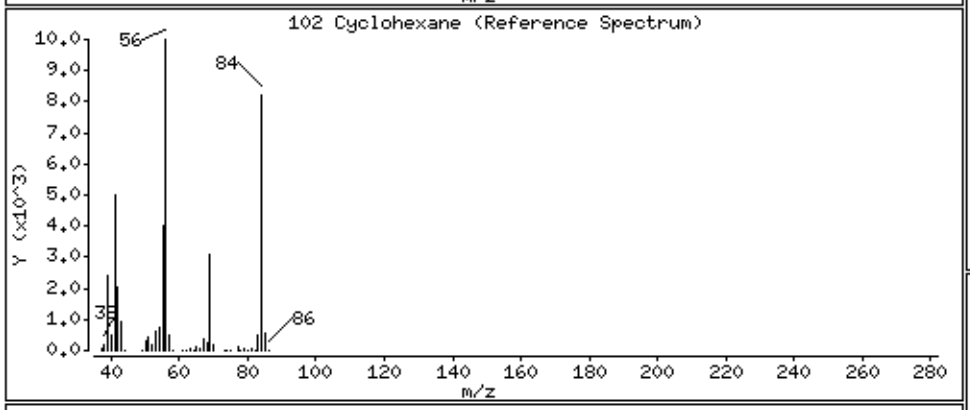
Column diameter: 0.25

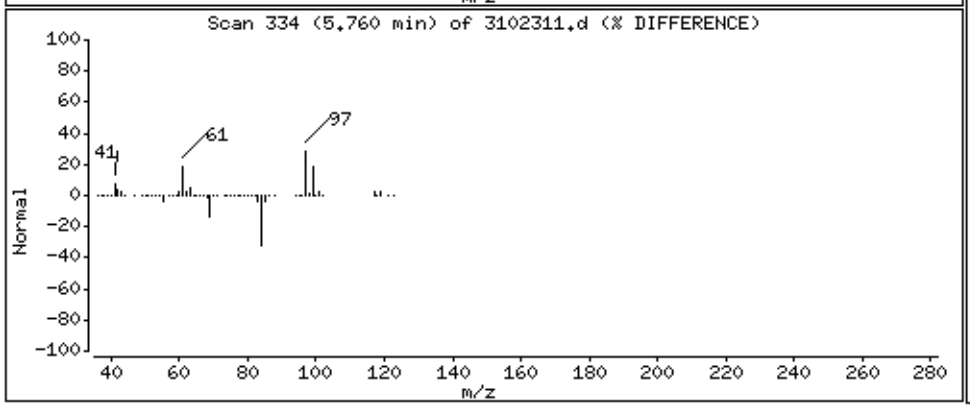
102 Cyclohexane

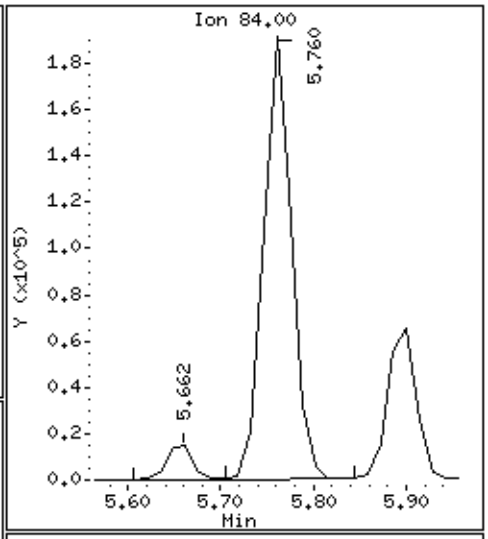
Concentration: 54.698 PPBV

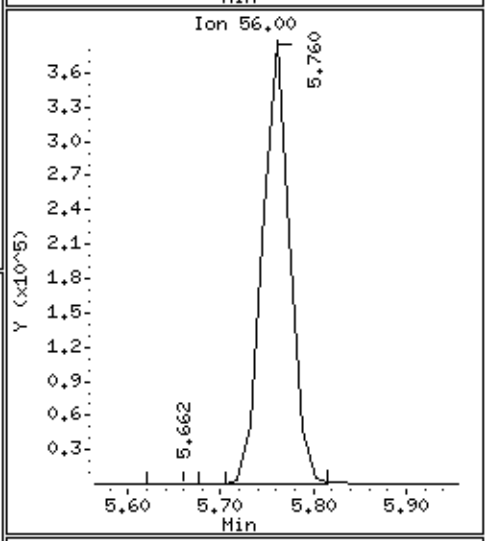


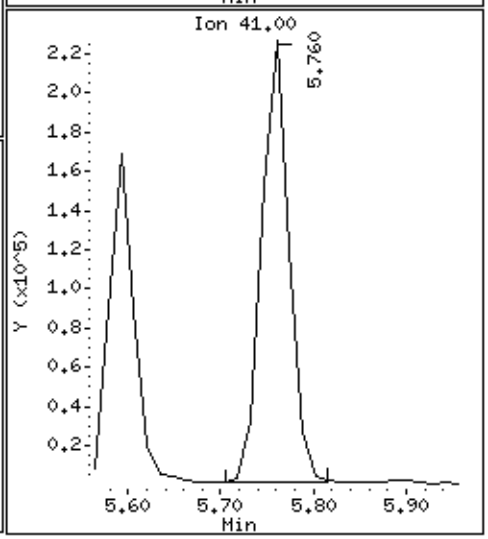












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

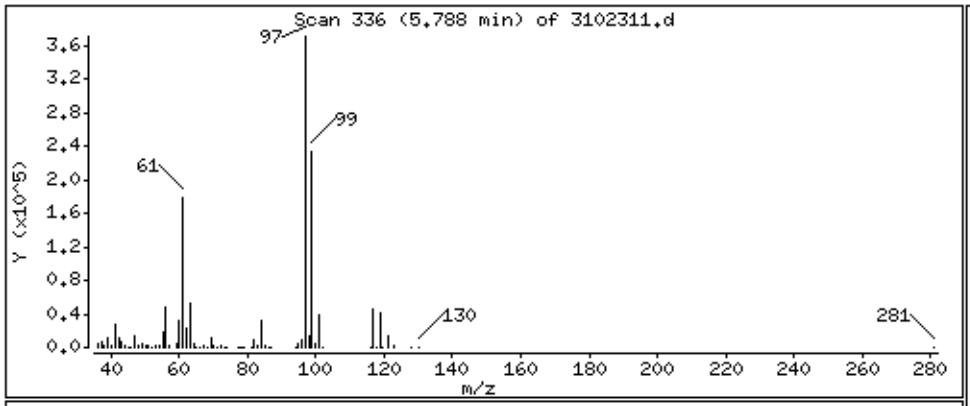
Operator: cb

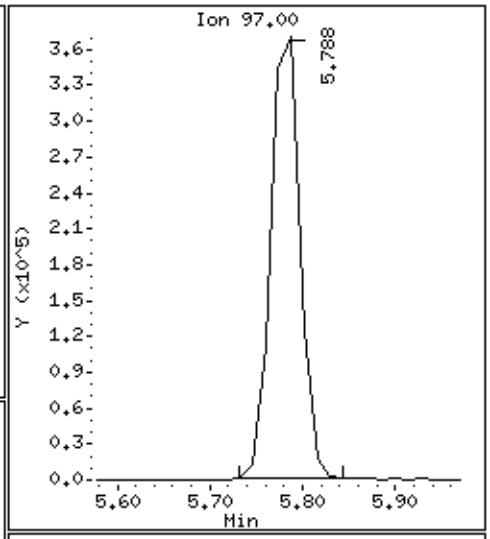
Column phase: RTX-624

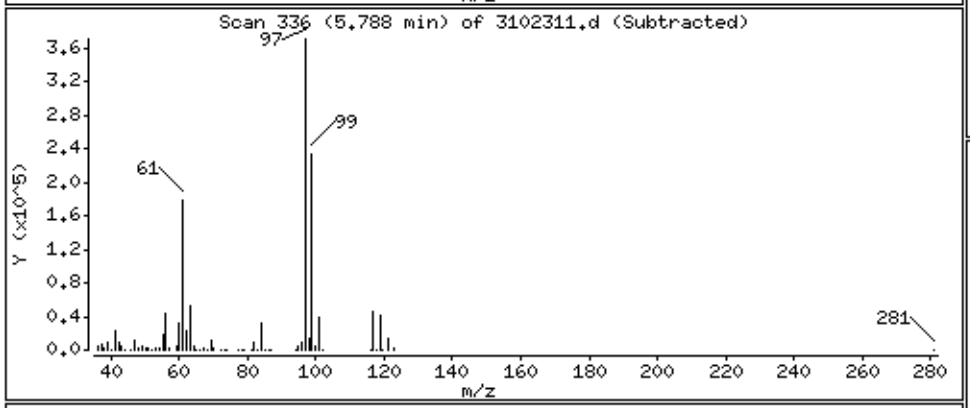
Column diameter: 0.25

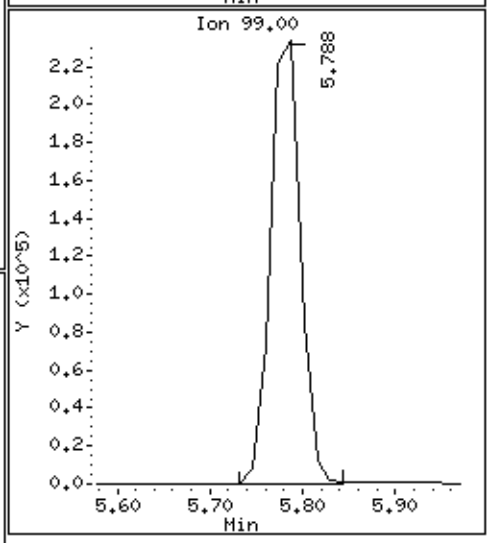
103 1,1,1-Trichloroethane

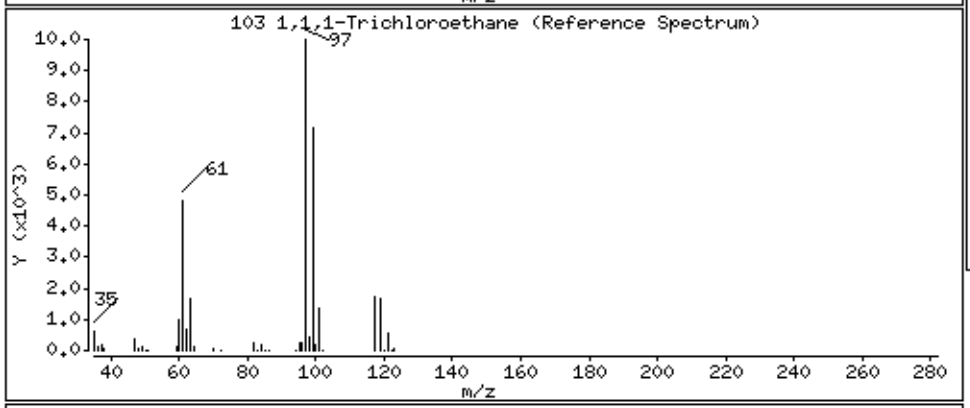
Concentration: 53.925 PPBV

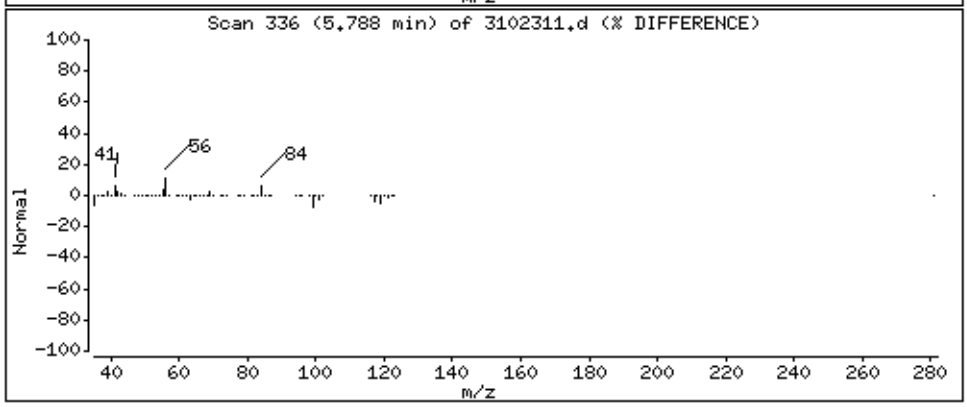












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

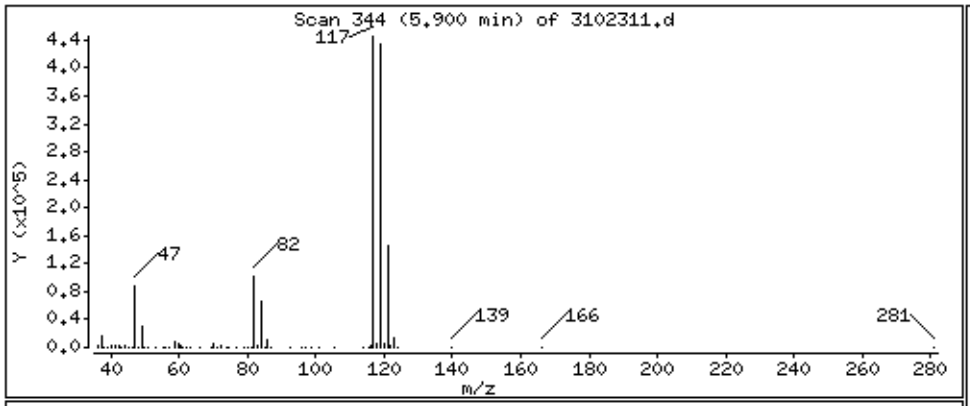
Operator: cb

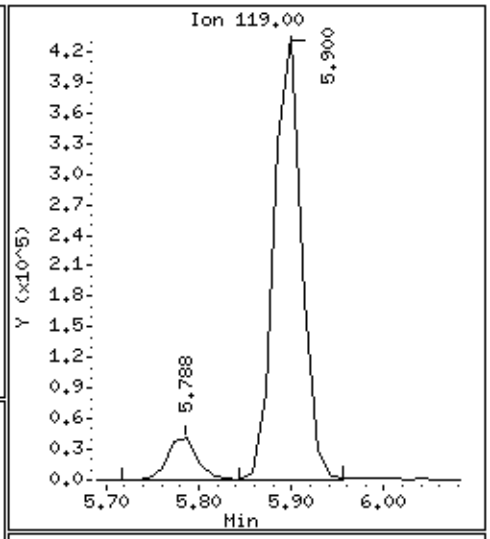
Column phase: RTX-624

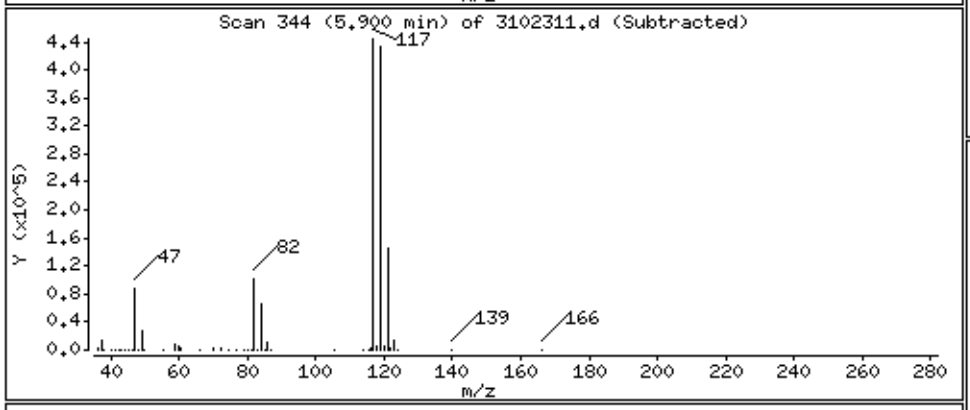
Column diameter: 0.25

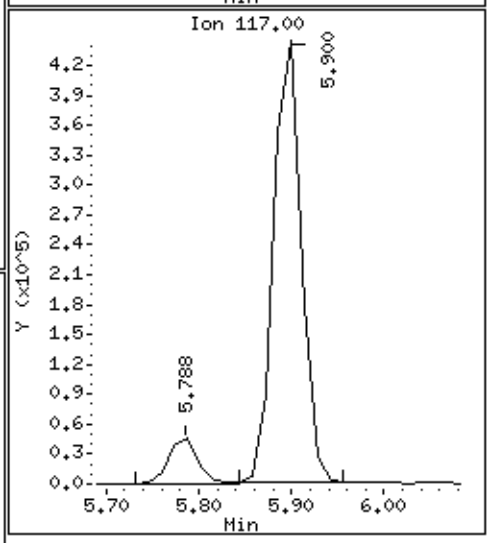
106 Carbon Tetrachloride

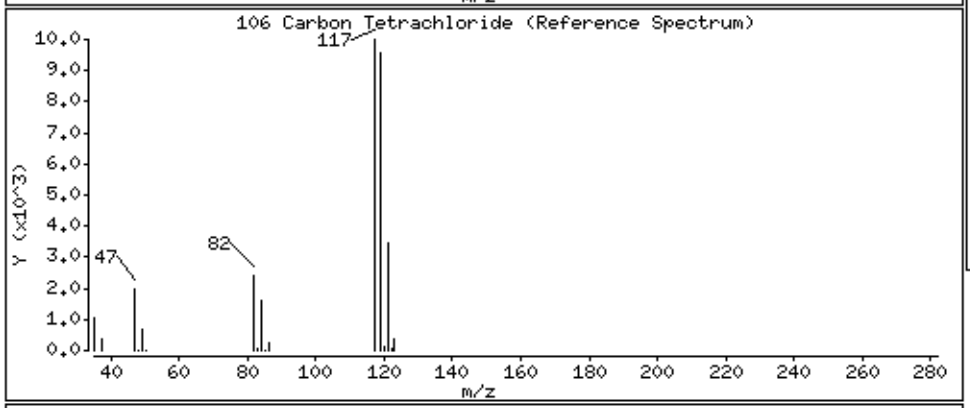
Concentration: 53.044 PPBV

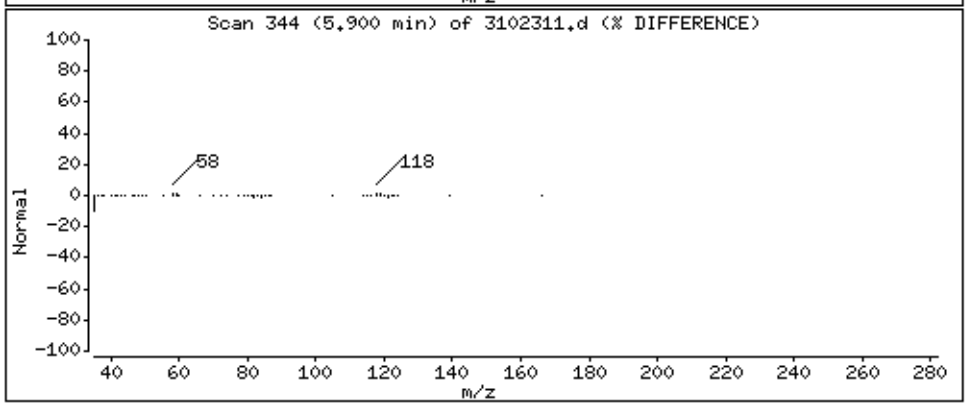












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

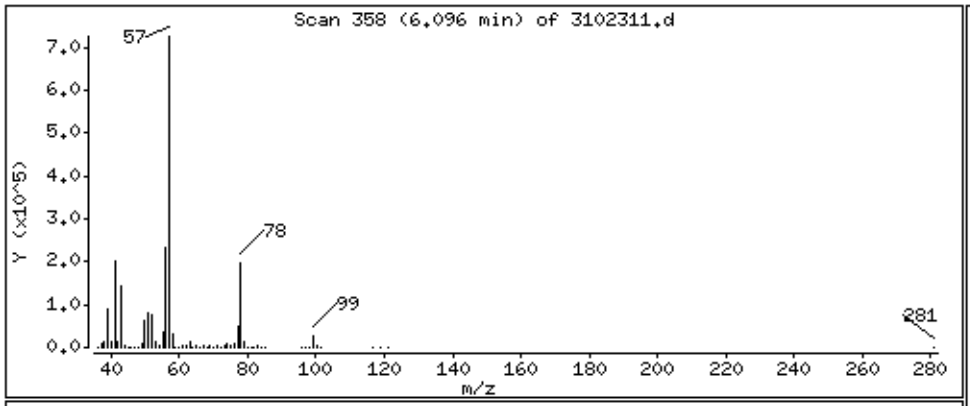
Operator: cb

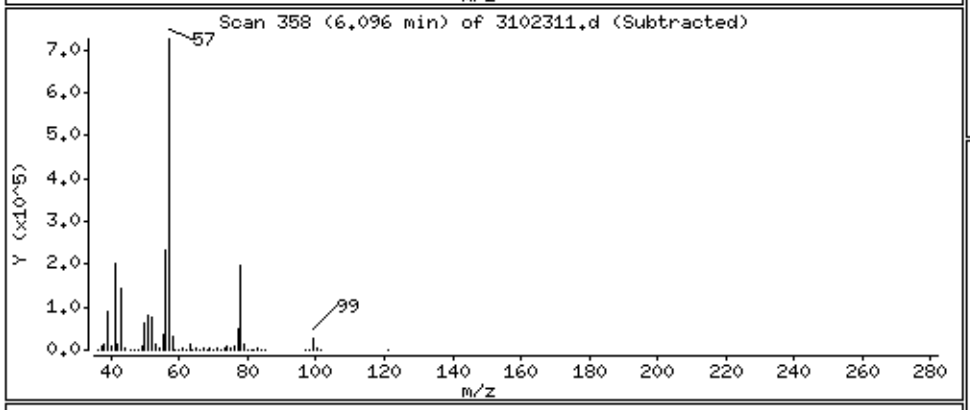
Column phase: RTX-624

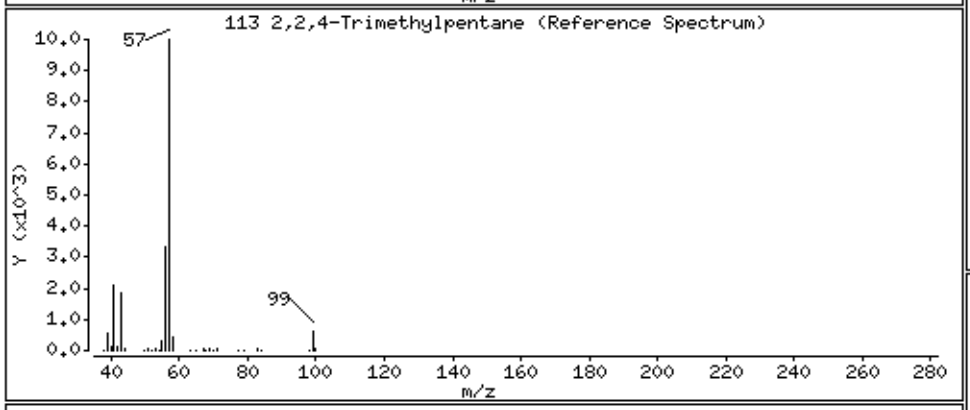
Column diameter: 0.25

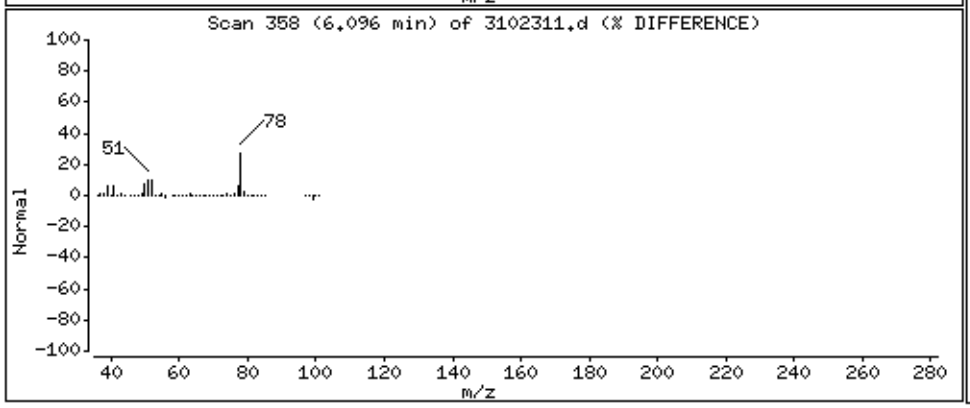
113 2,2,4-Trimethylpentane

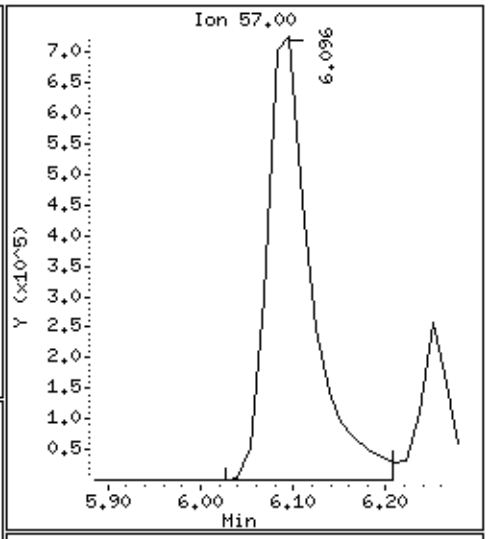
Concentration: 54.640 PPBV

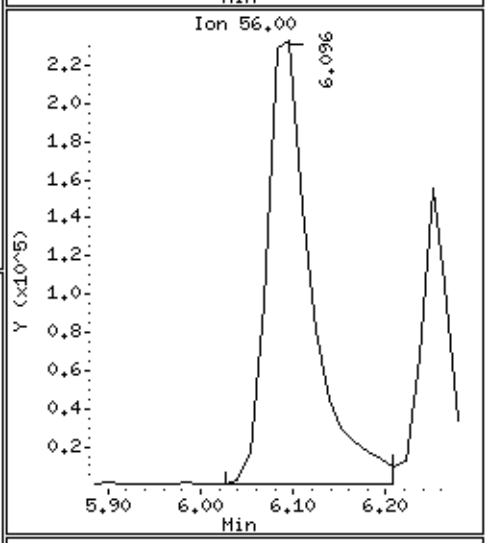


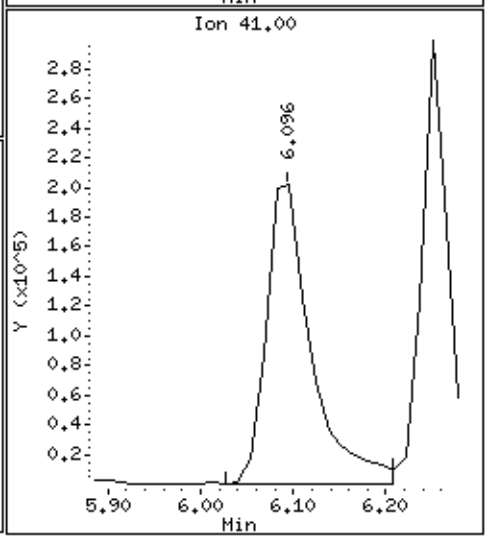












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

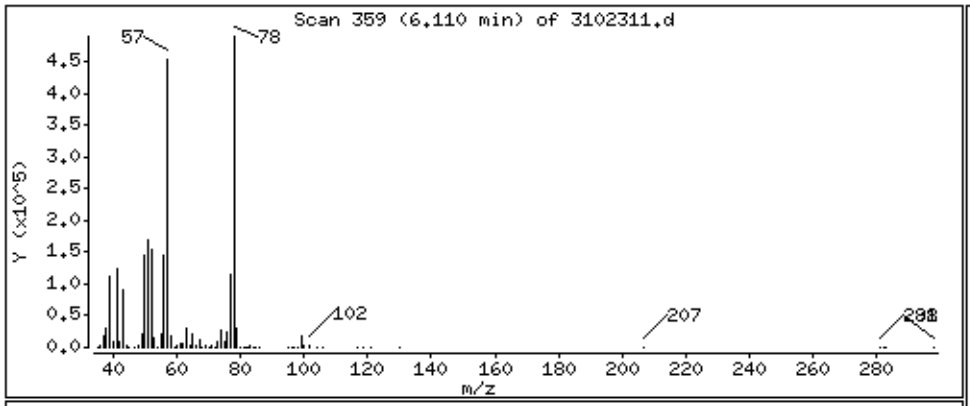
Operator: cb

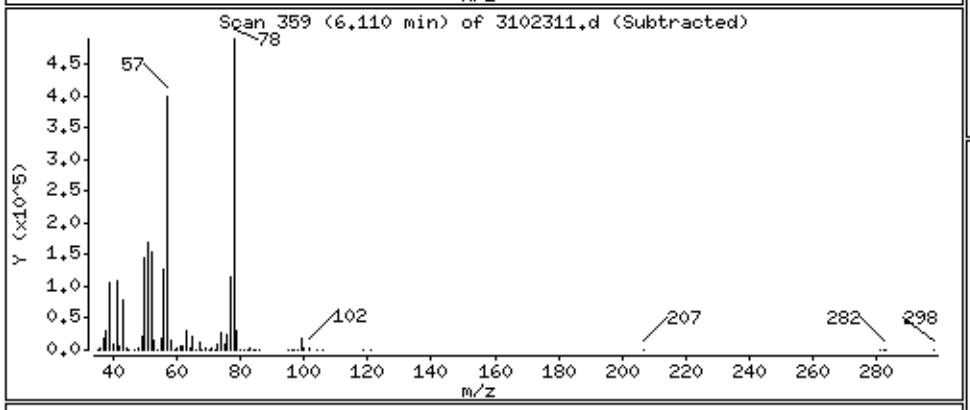
Column phase: RTX-624

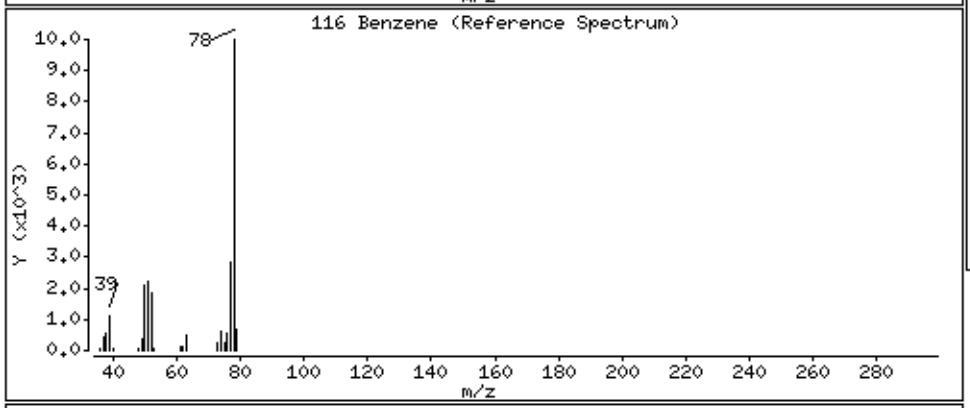
Column diameter: 0.25

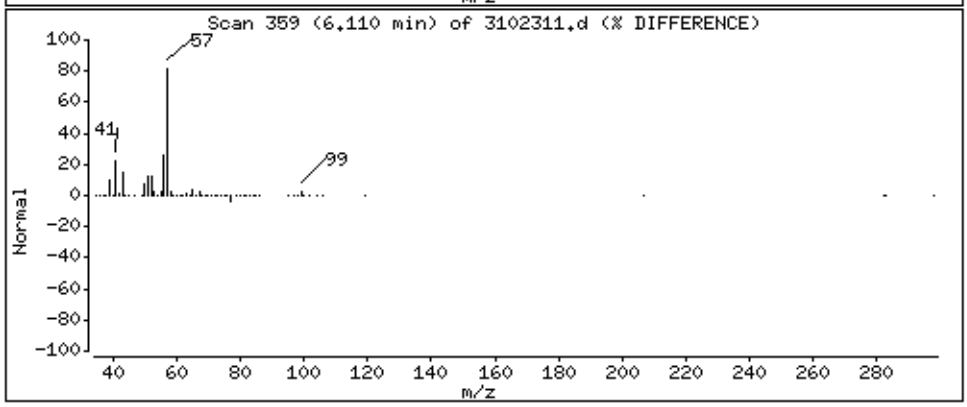
116 Benzene

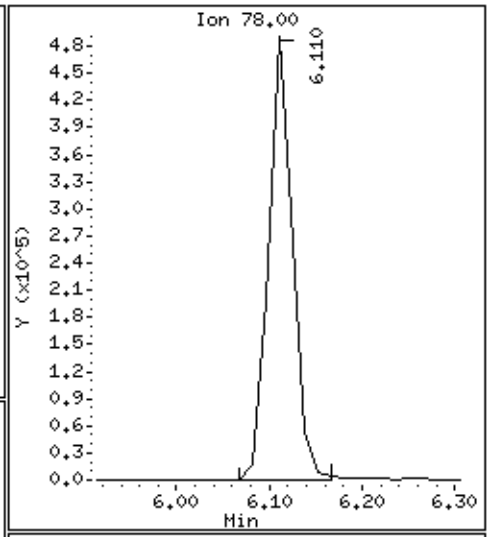
Concentration: 53.526 PPBV

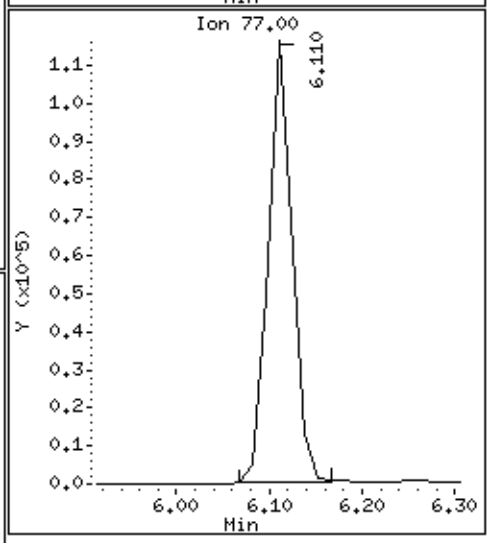












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

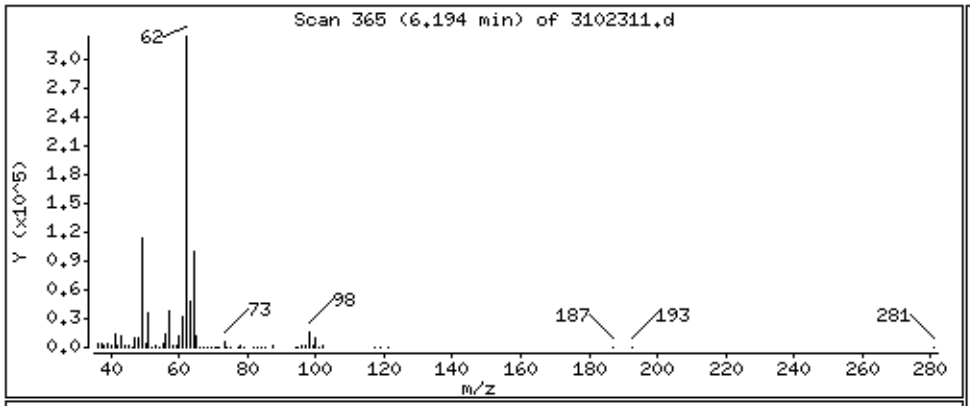
Operator: cb

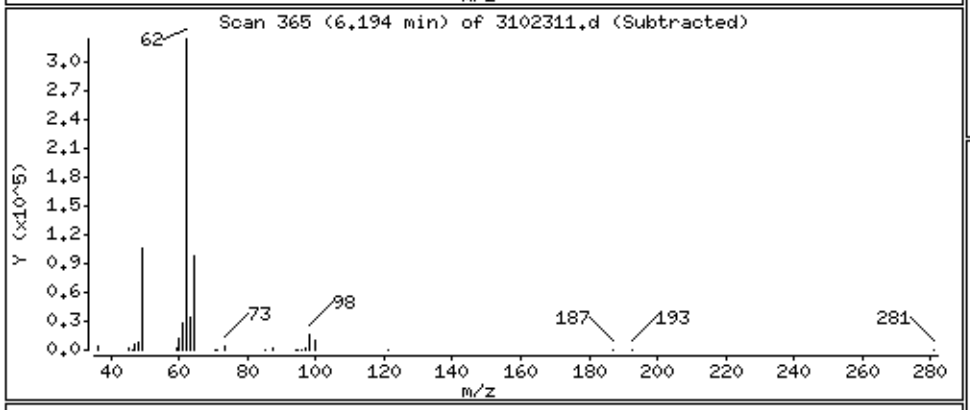
Column phase: RTX-624

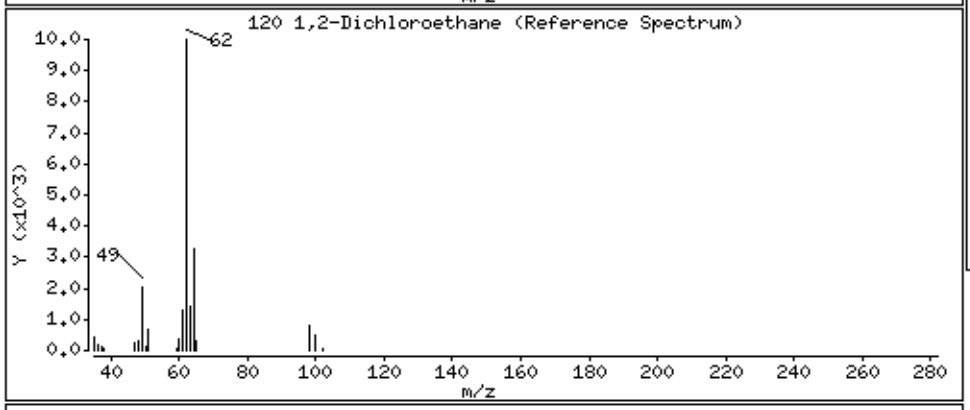
Column diameter: 0.25

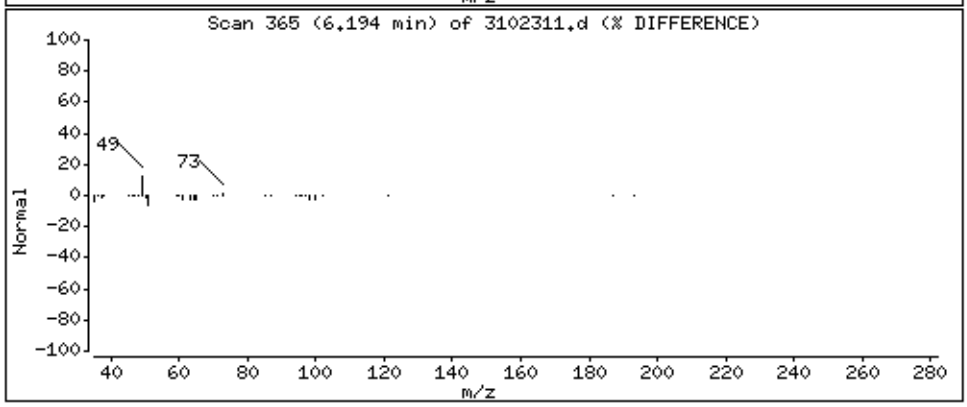
120 1,2-Dichloroethane

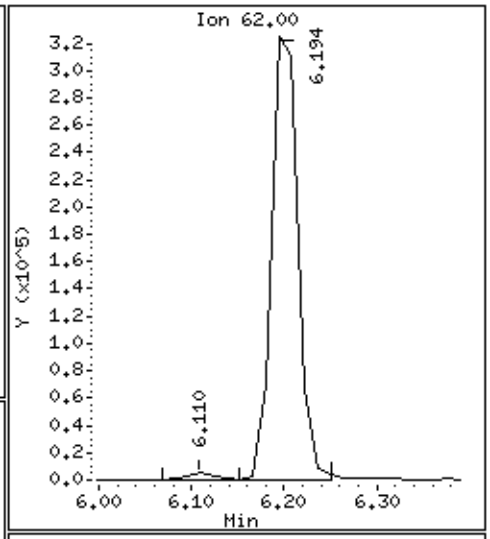
Concentration: 52.314 PPBV

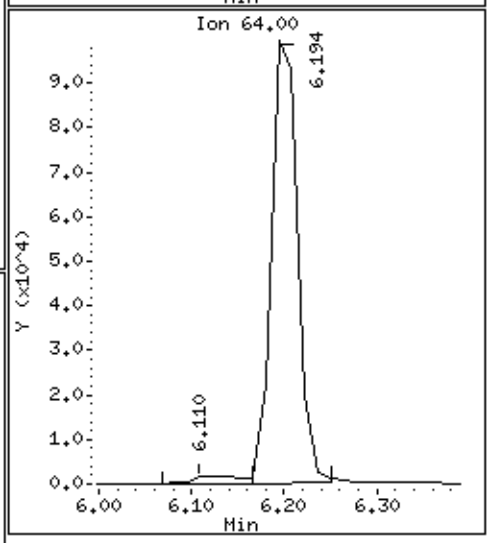












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

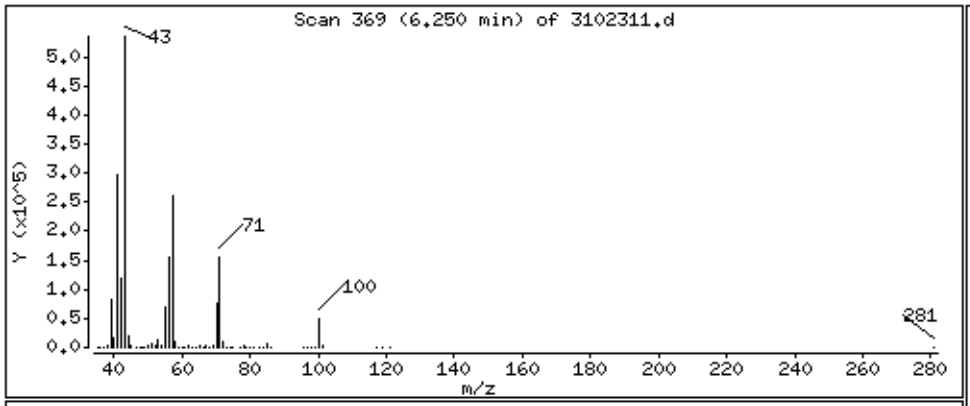
Operator: cb

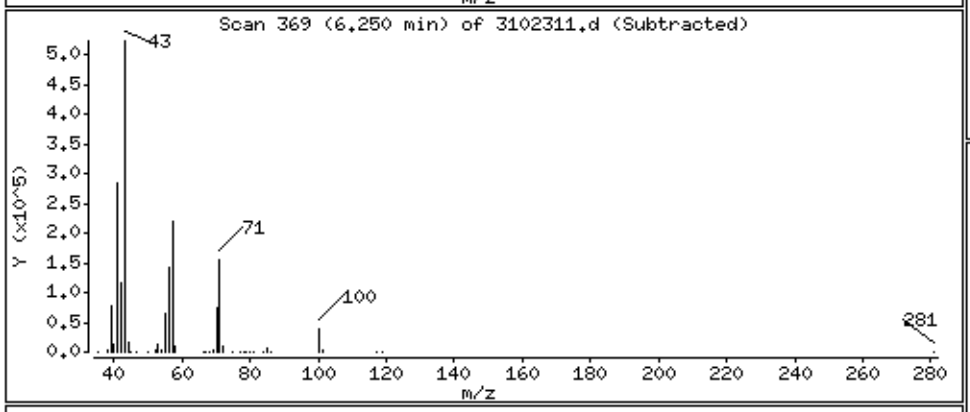
Column phase: RTX-624

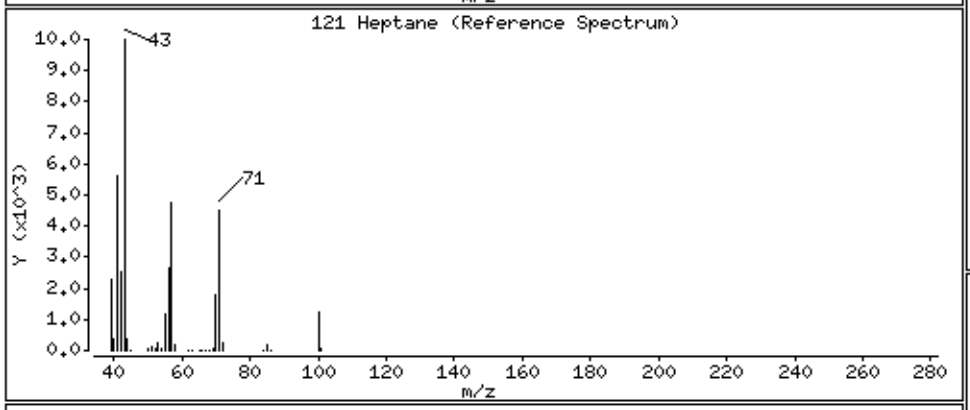
Column diameter: 0.25

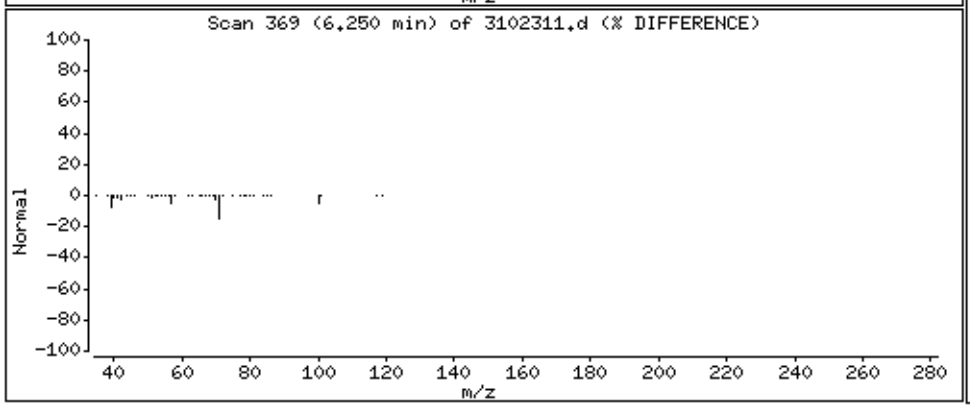
121 Heptane

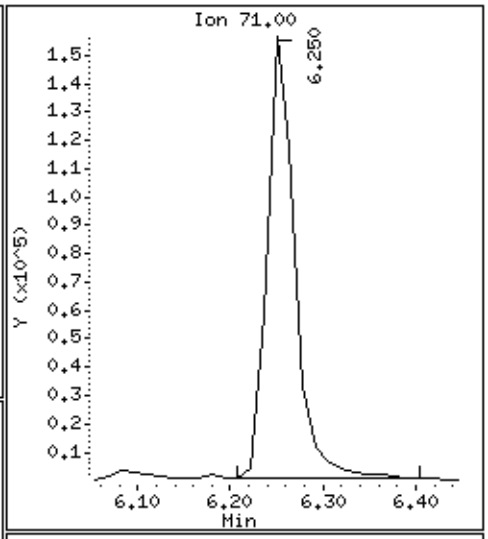
Concentration: 51.158 PPBV

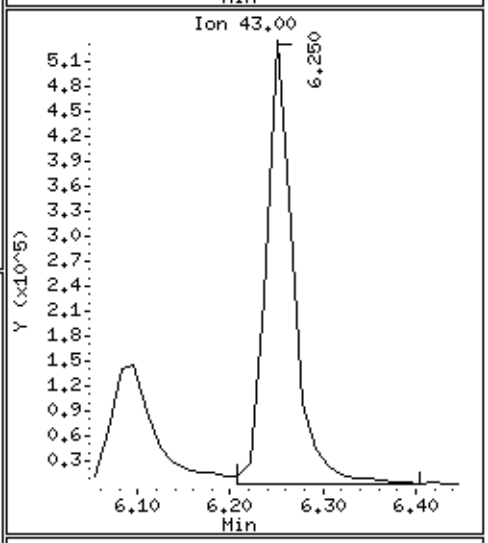


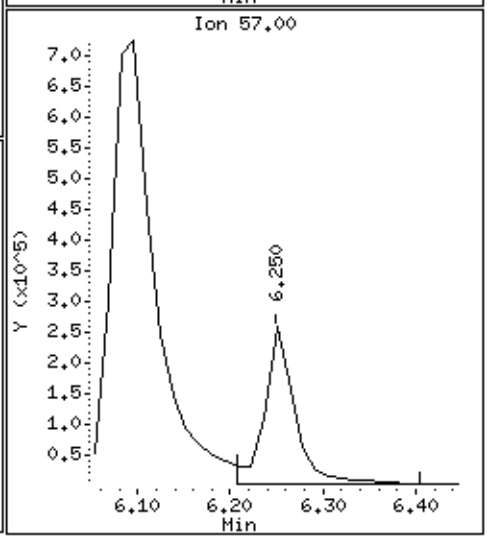












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

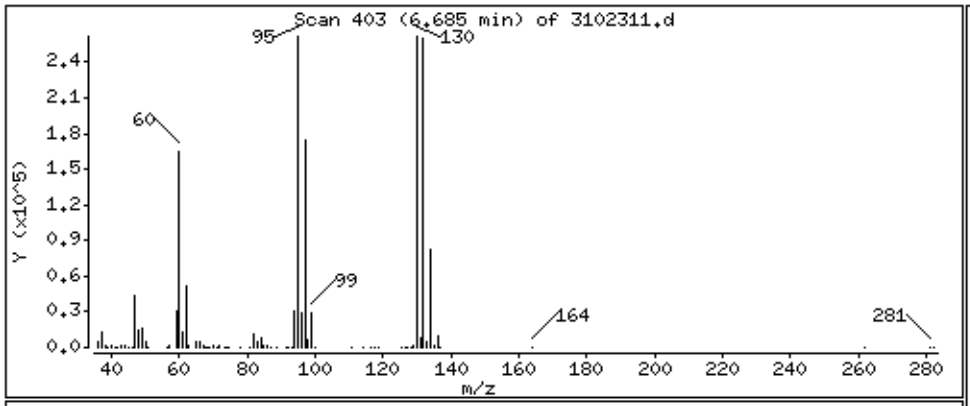
Operator: cb

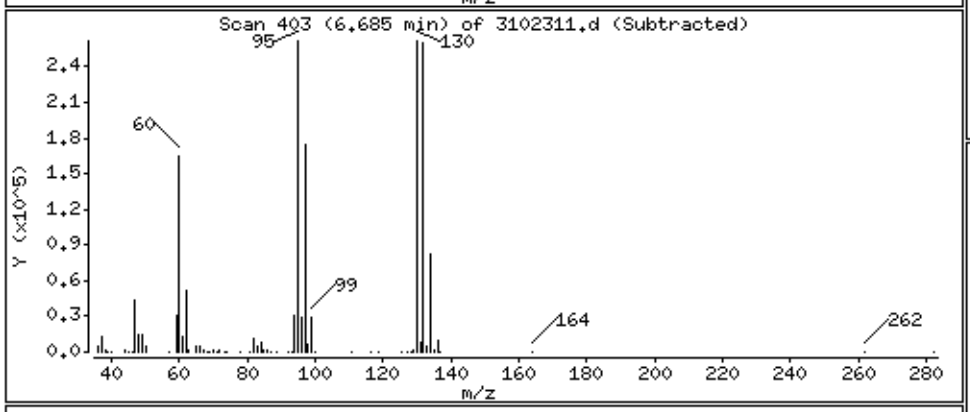
Column phase: RTX-624

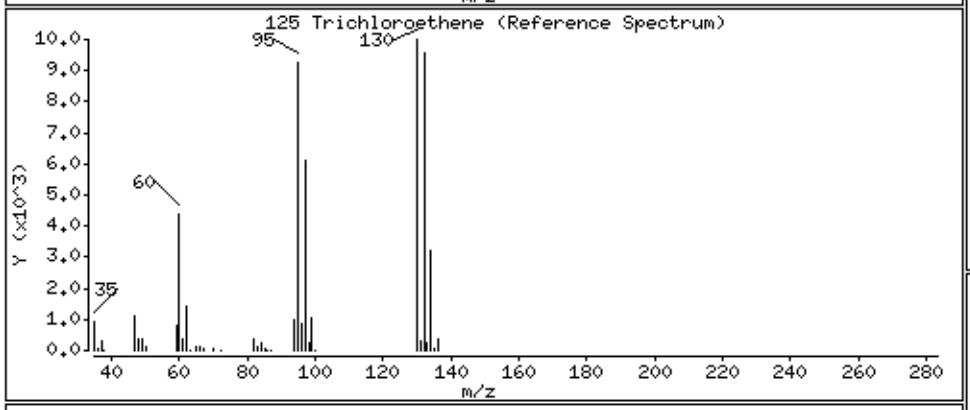
Column diameter: 0.25

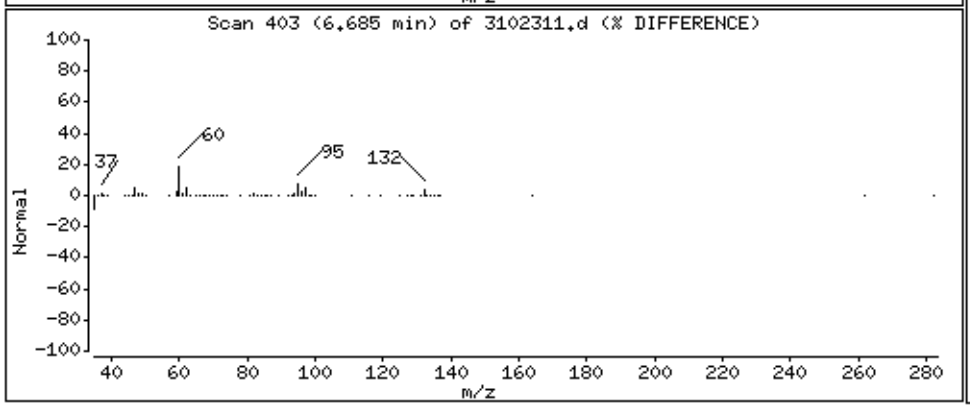
125 Trichloroethene

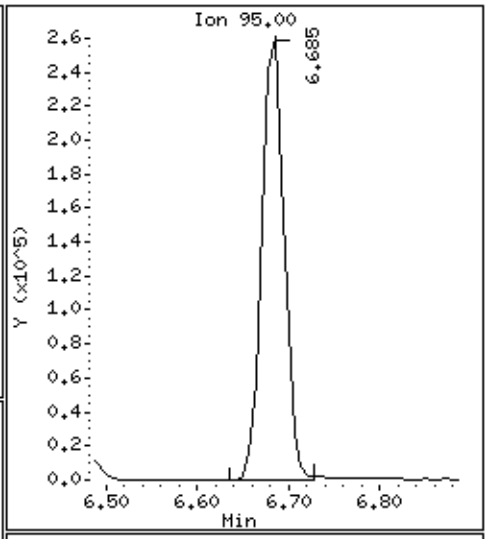
Concentration: 53.078 PPBV

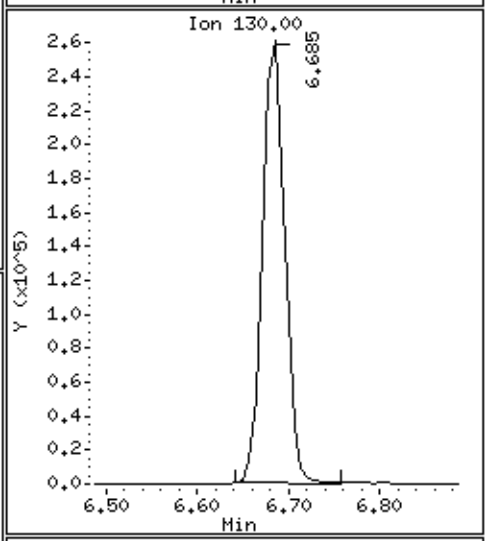


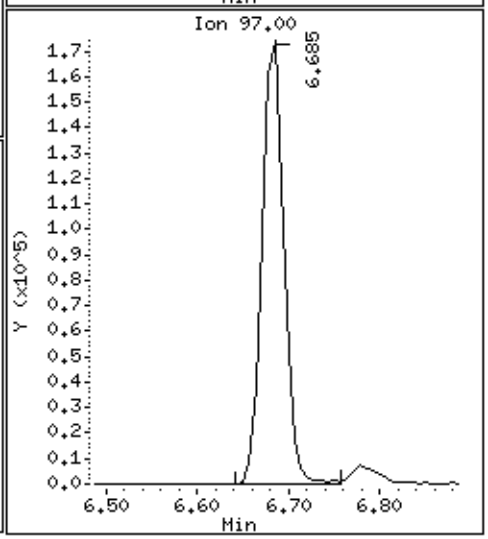












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

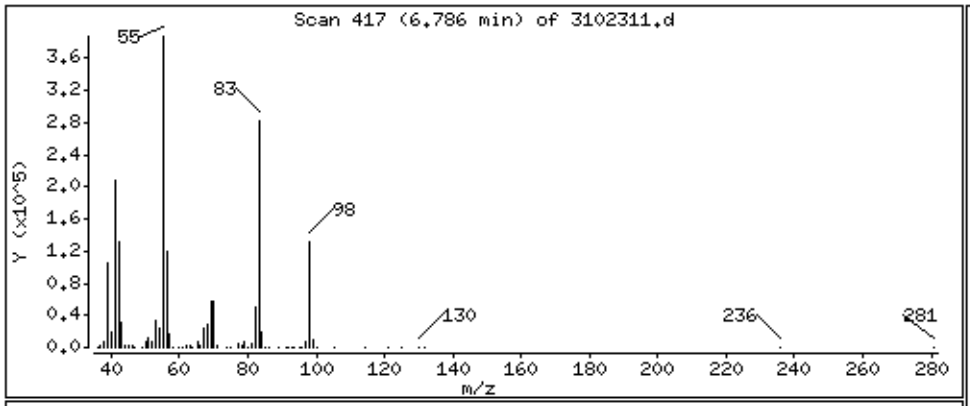
Operator: cb

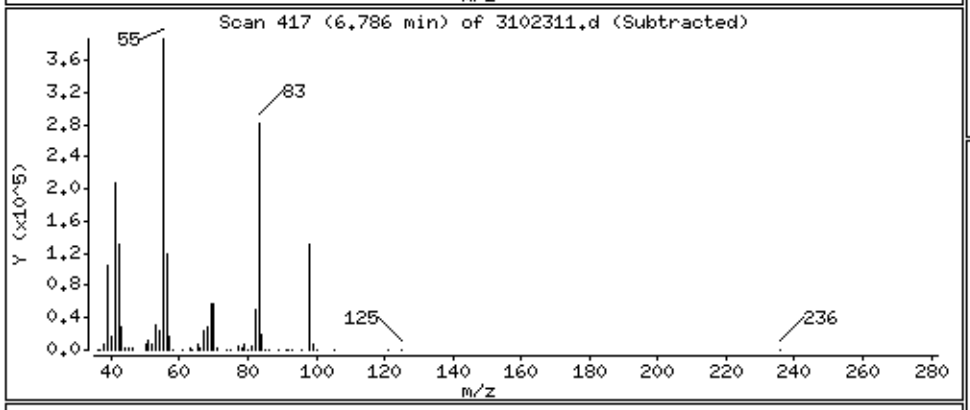
Column phase: RTX-624

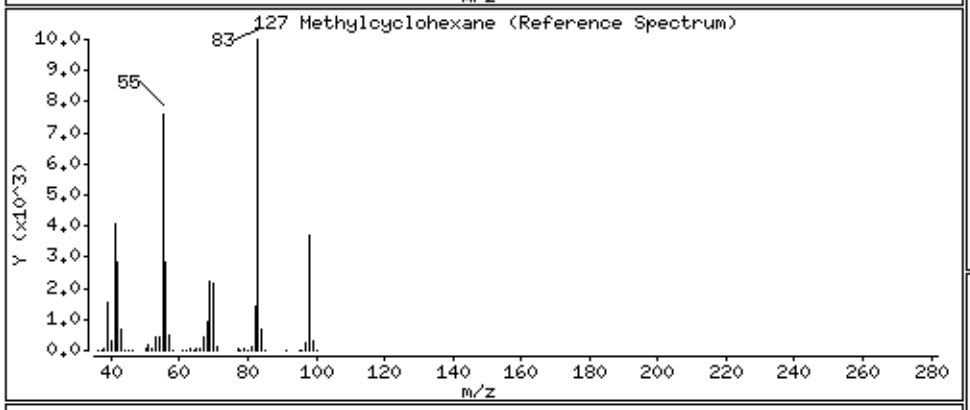
Column diameter: 0.25

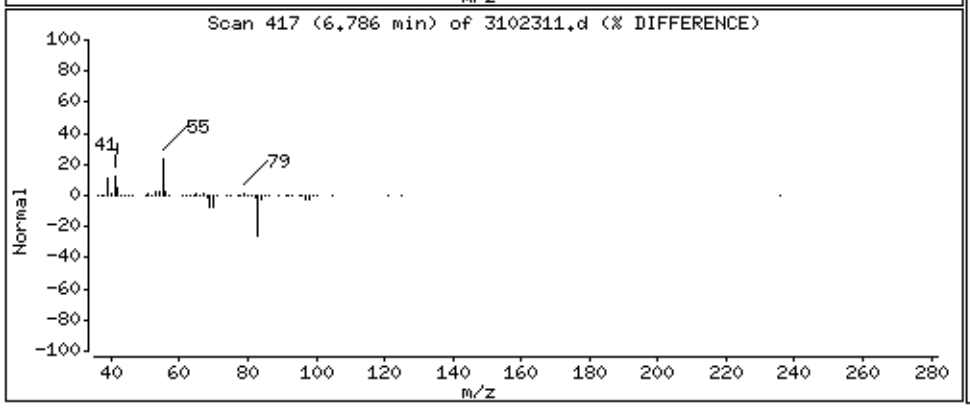
127 Methylcyclohexane

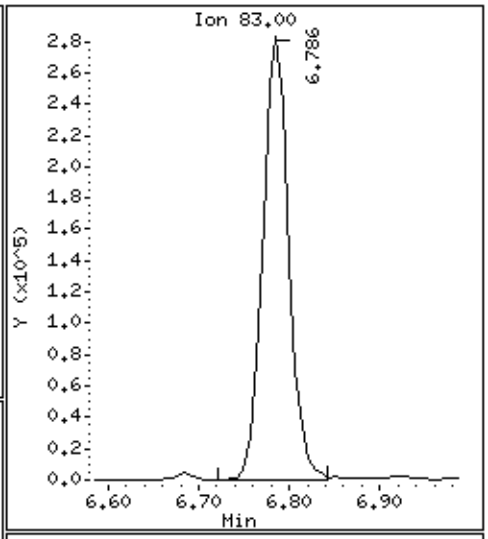
Concentration: 53.358 PPBV

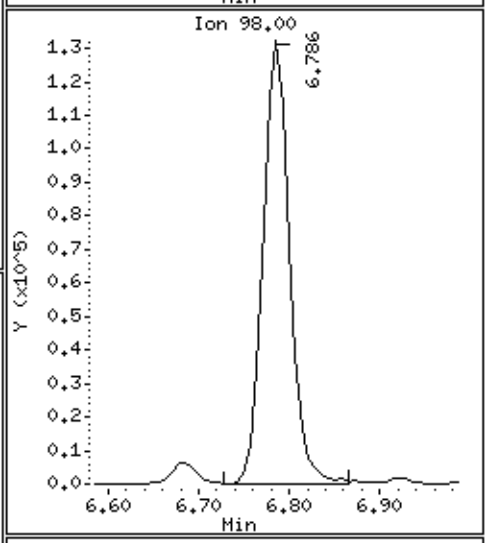


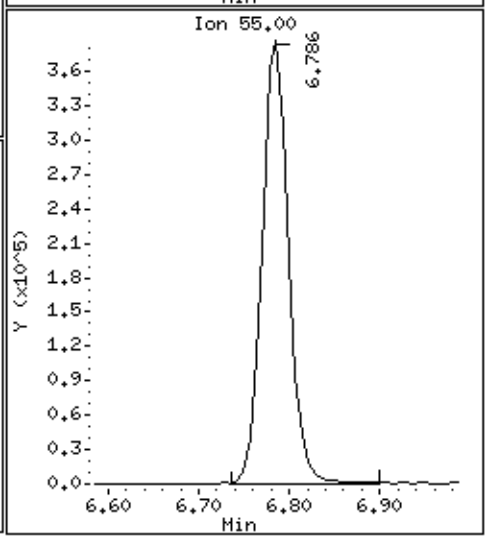












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

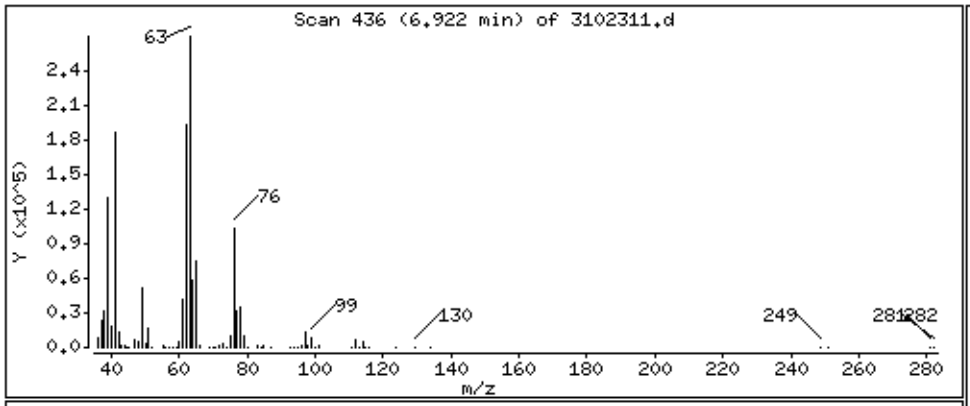
Operator: cb

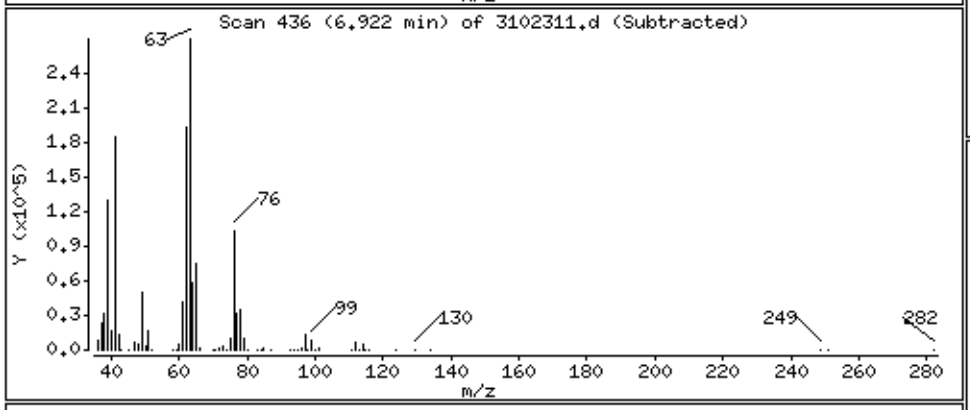
Column phase: RTX-624

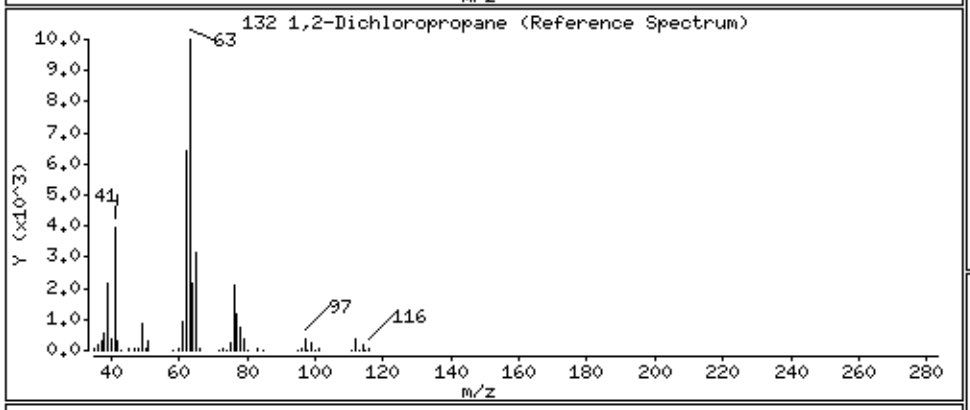
Column diameter: 0.25

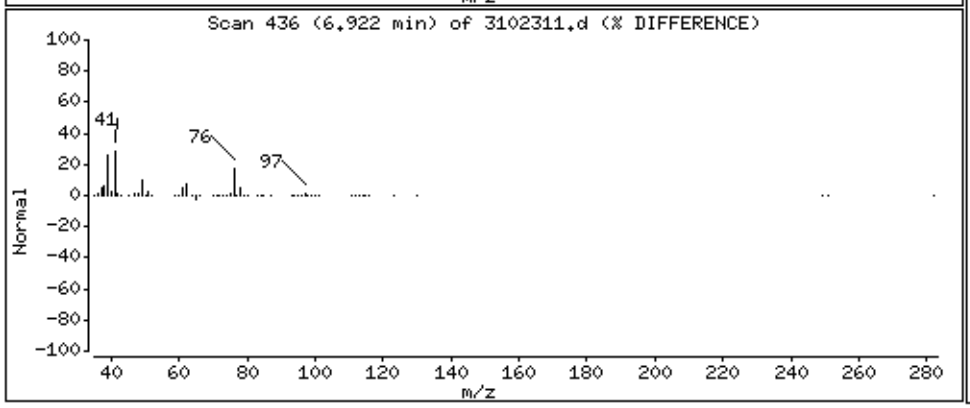
132 1,2-Dichloropropane

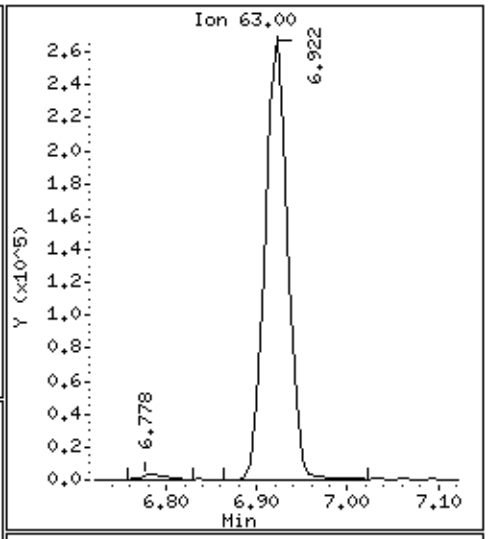
Concentration: 53.845 PPBV

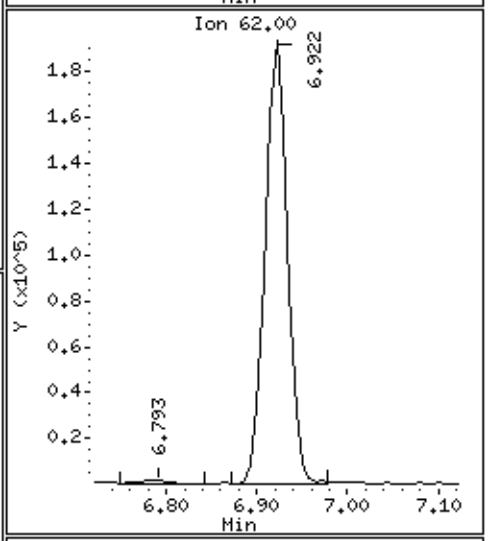


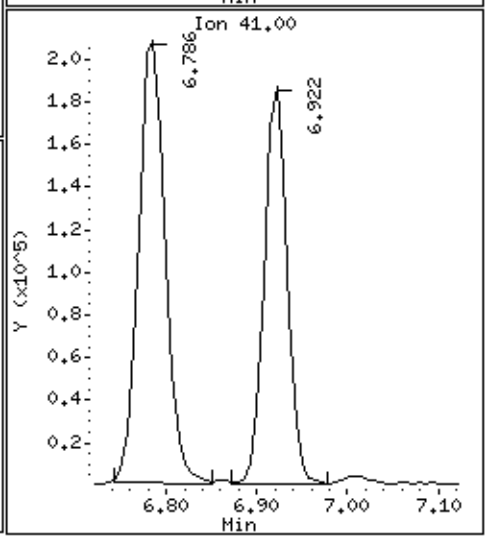












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

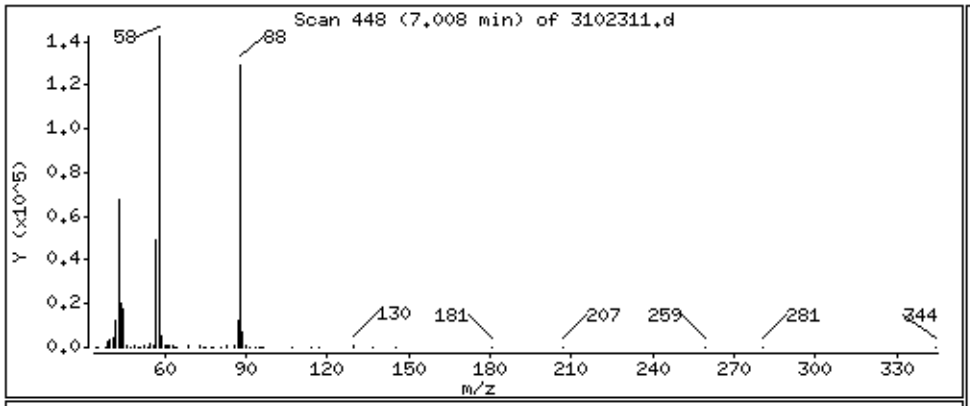
Operator: cb

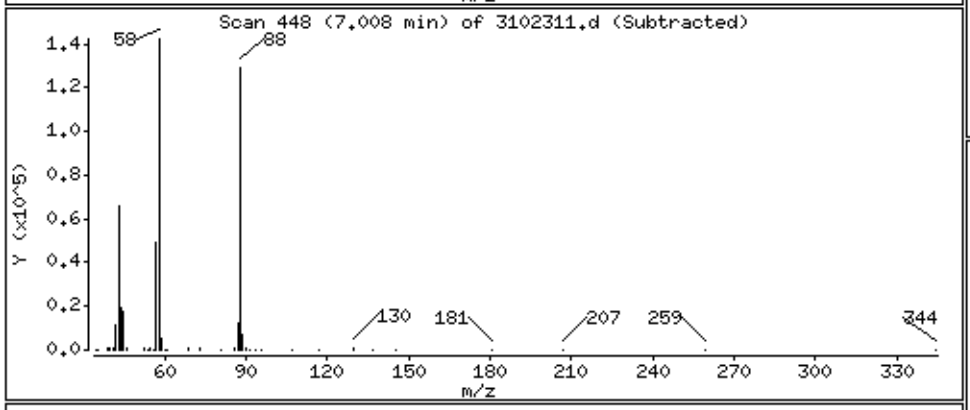
Column phase: RTX-624

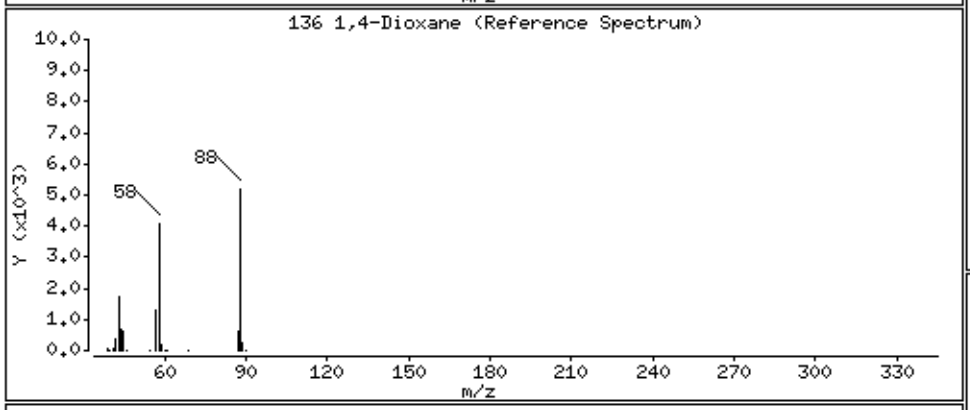
Column diameter: 0.25

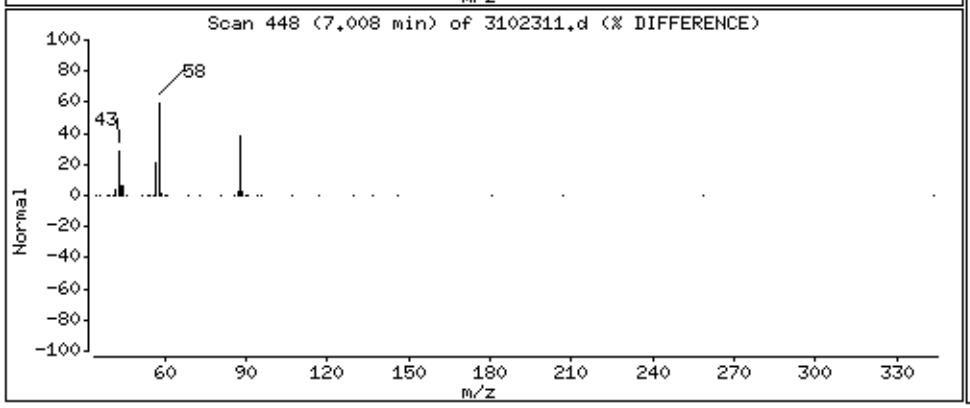
136 1,4-Dioxane

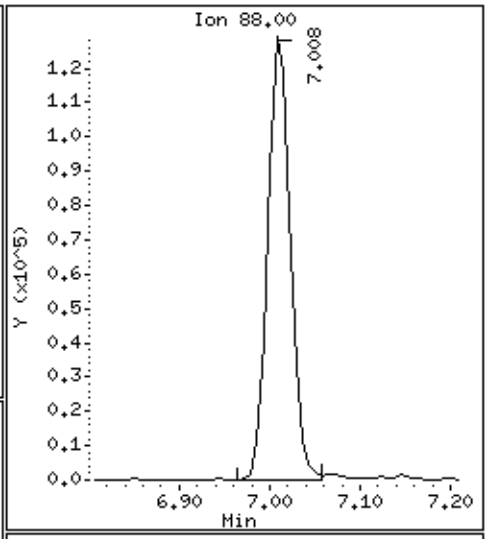
Concentration: 53.191 PPBV

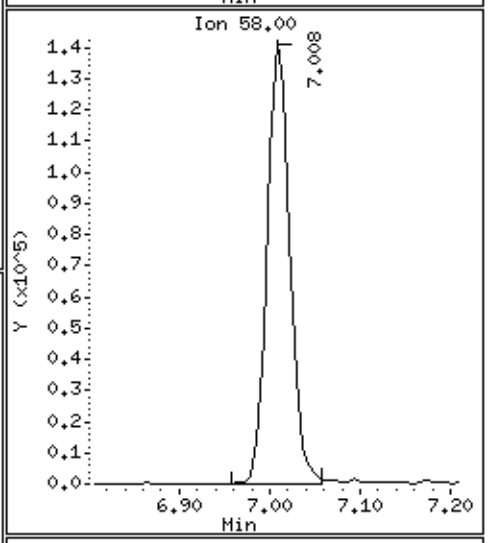


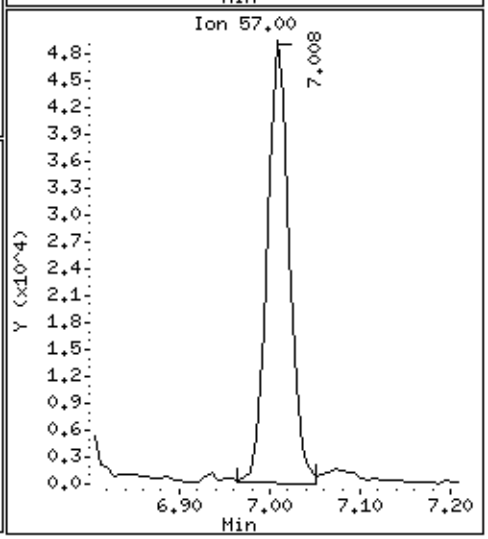












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

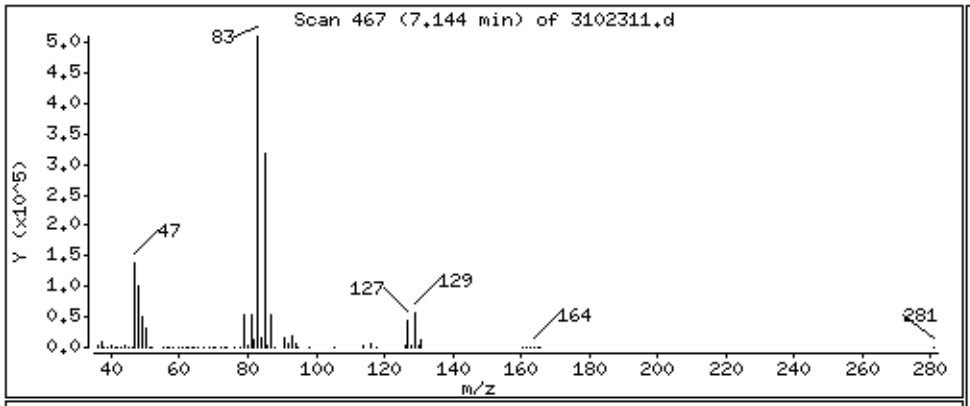
Operator: cb

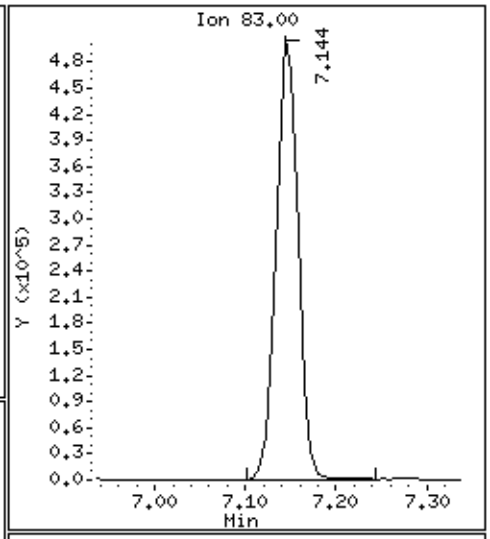
Column phase: RTX-624

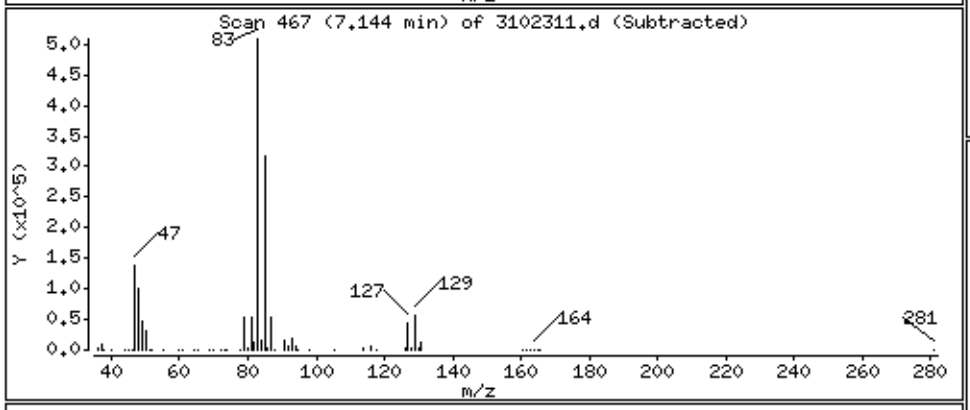
Column diameter: 0.25

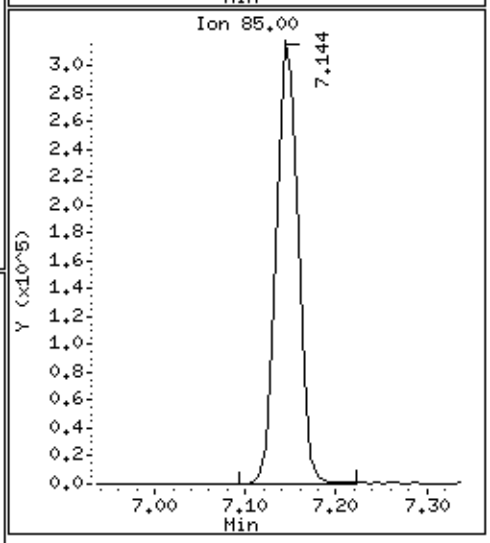
138 Bromodichloromethane

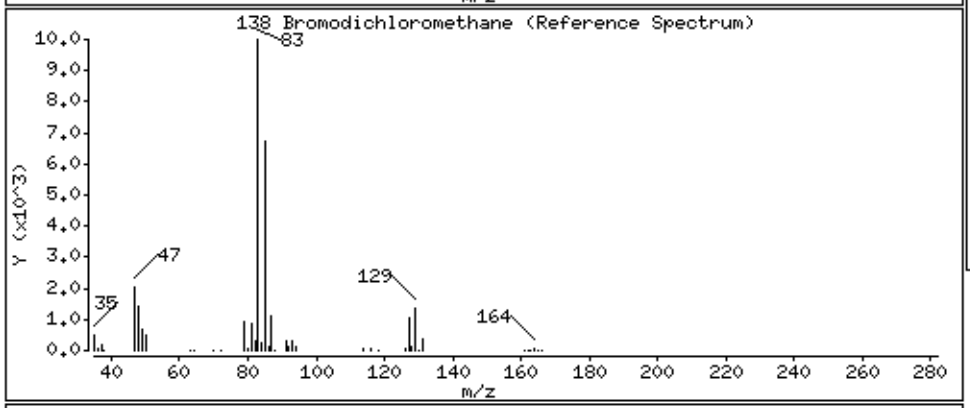
Concentration: 55.242 PPBV

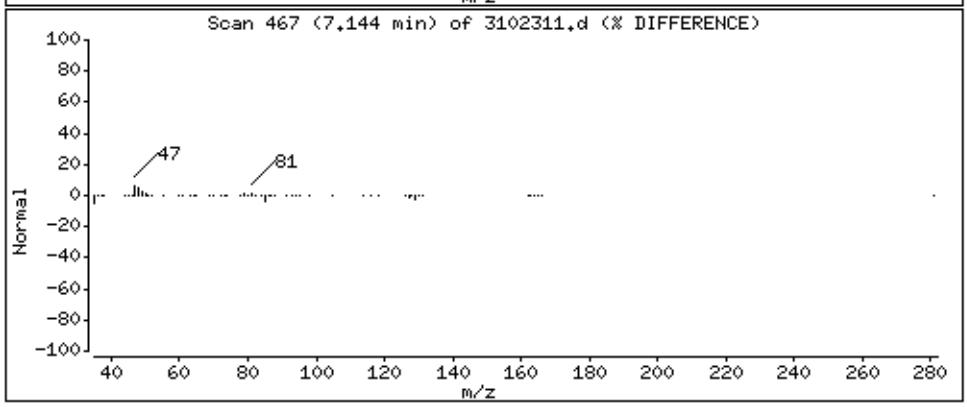












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

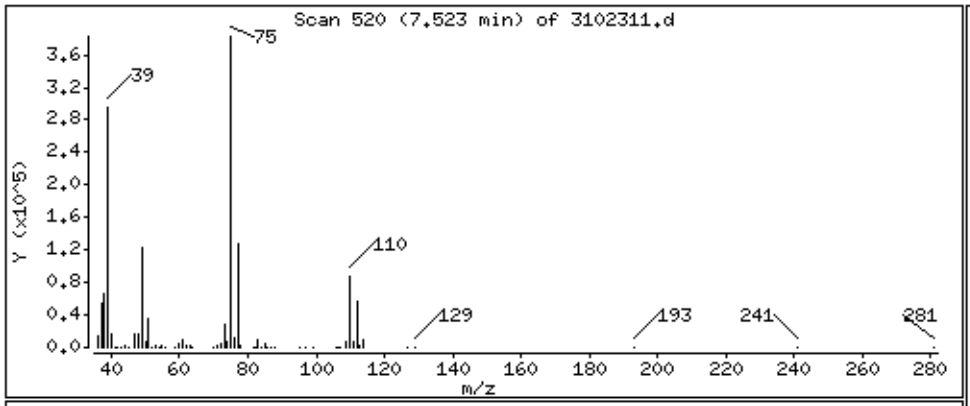
Operator: cb

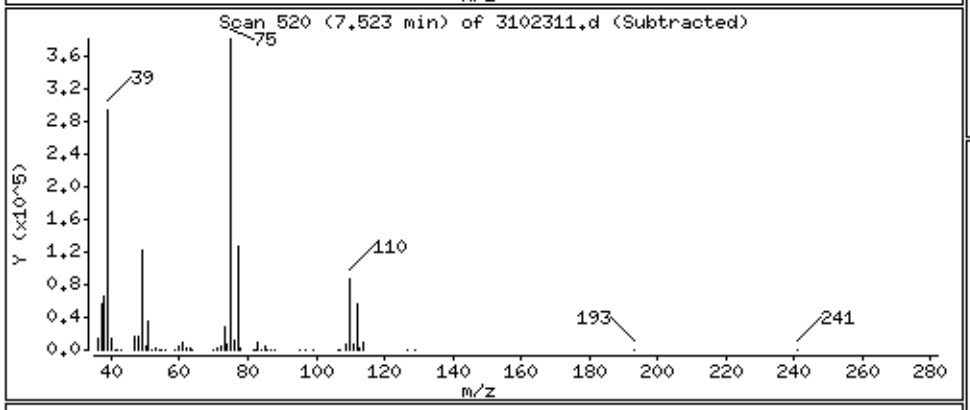
Column phase: RTX-624

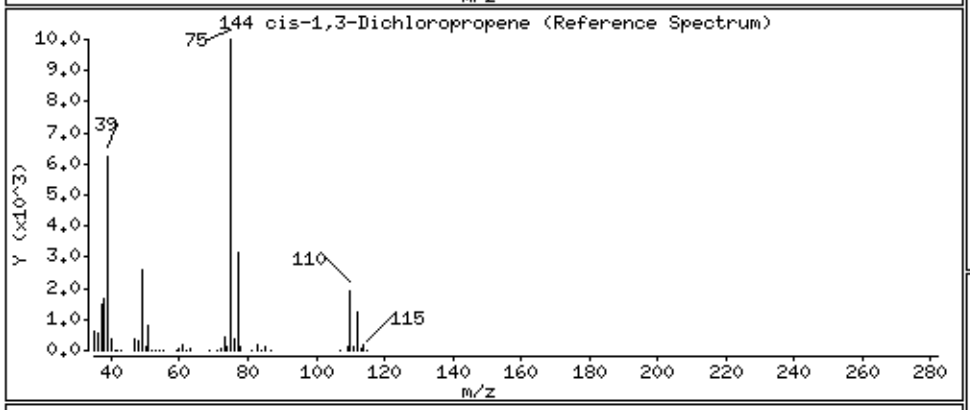
Column diameter: 0.25

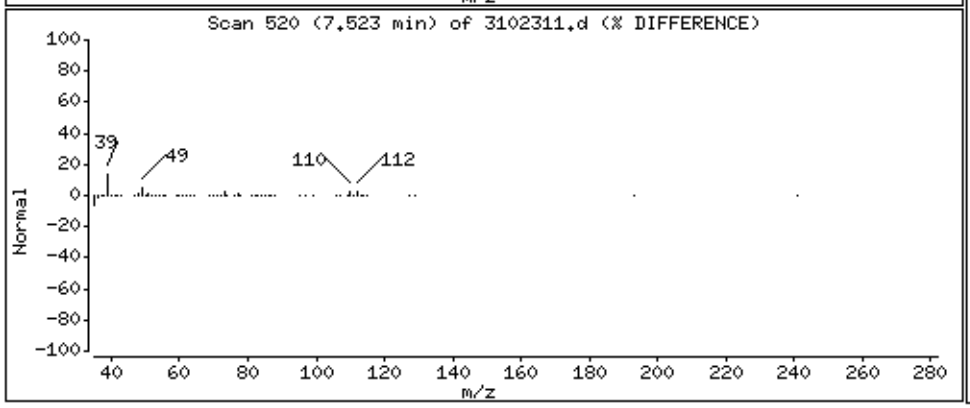
144 cis-1,3-Dichloropropene

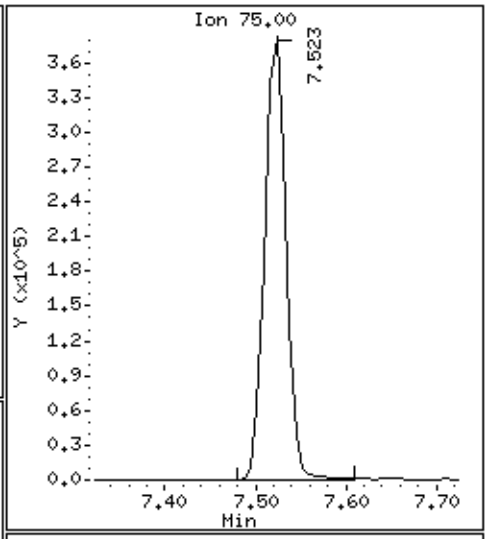
Concentration: 50.410 PPBV

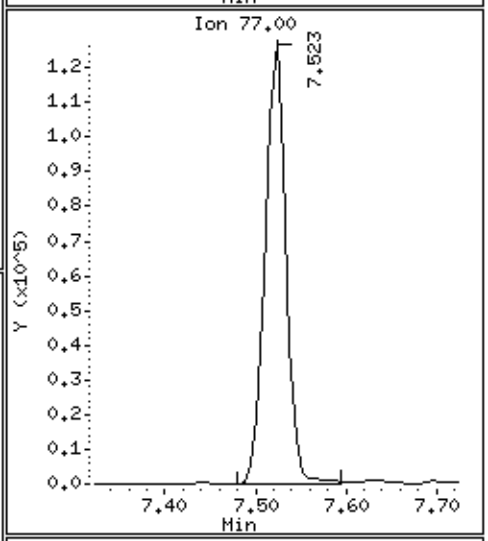


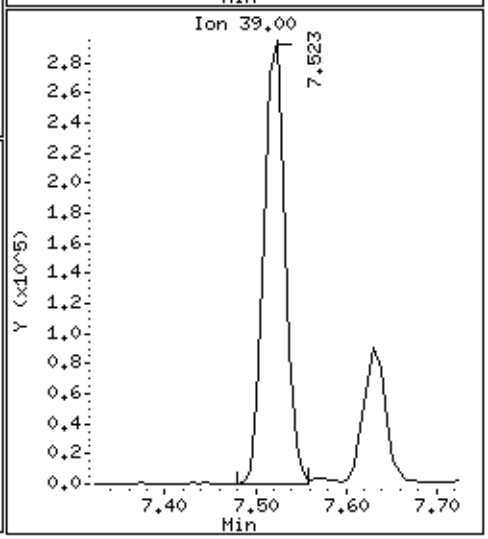












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

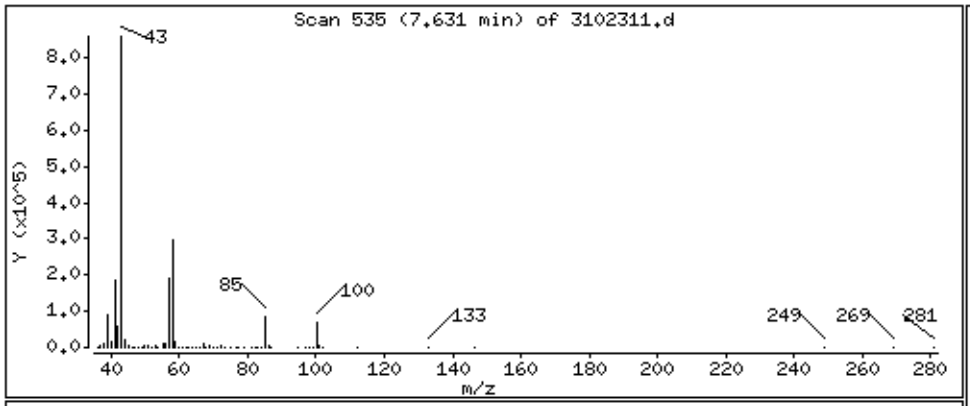
Operator: cb

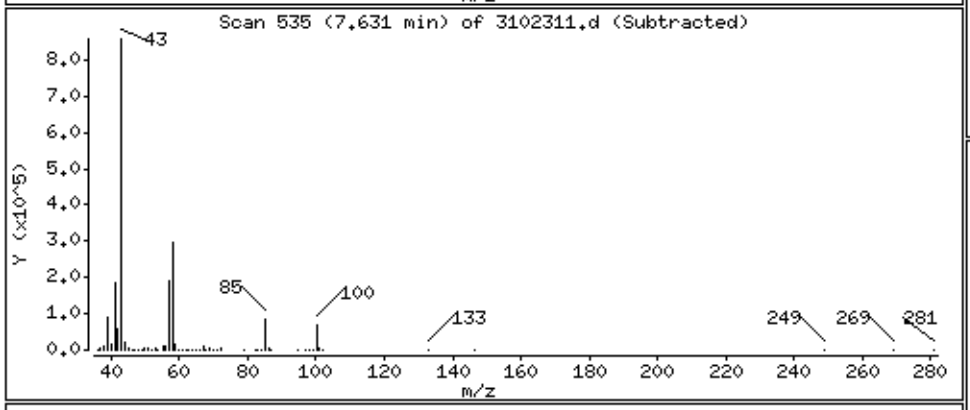
Column phase: RTX-624

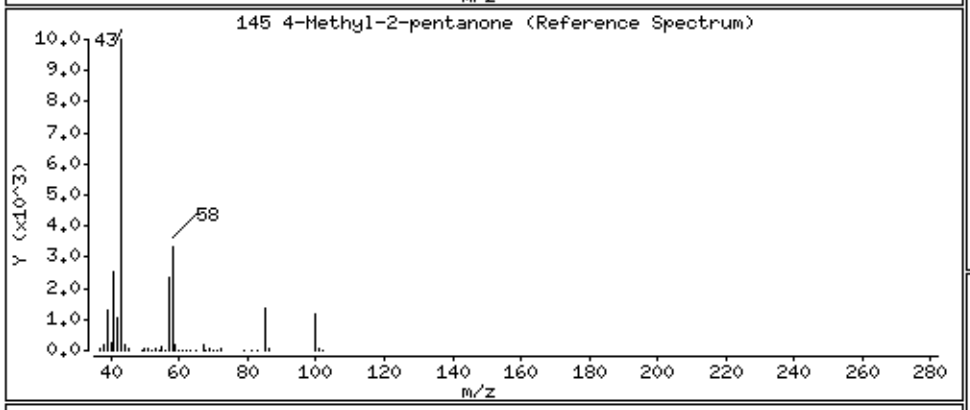
Column diameter: 0.25

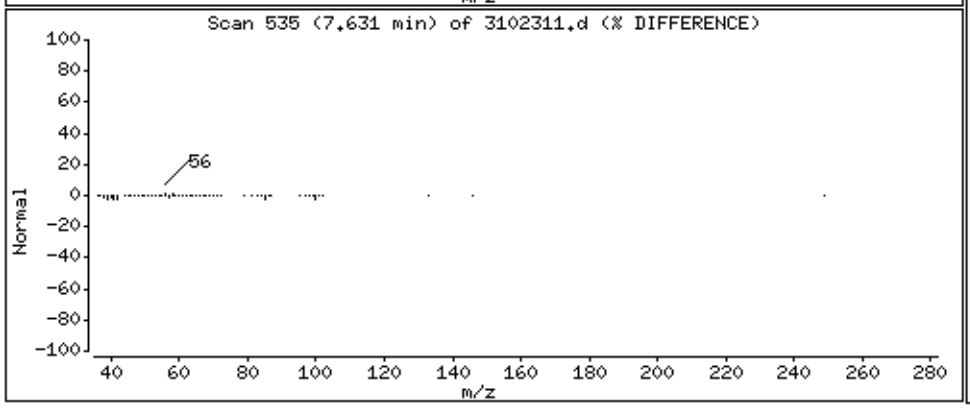
145 4-Methyl-2-pentanone

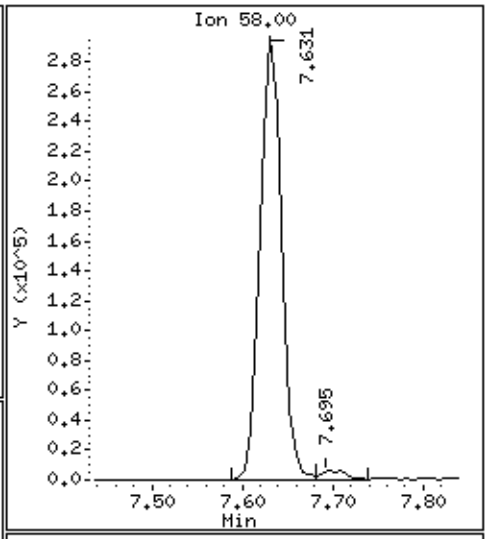
Concentration: 50.121 PPBV

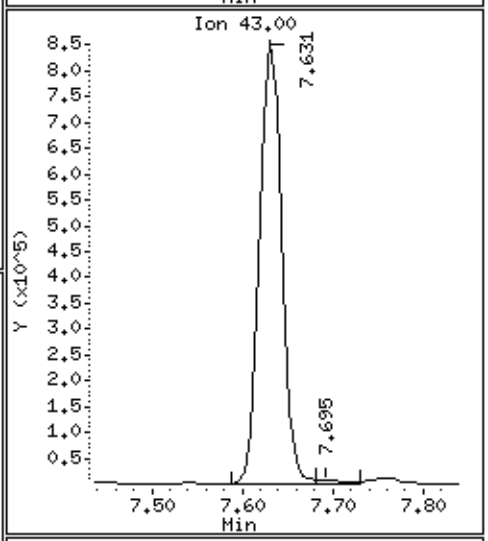


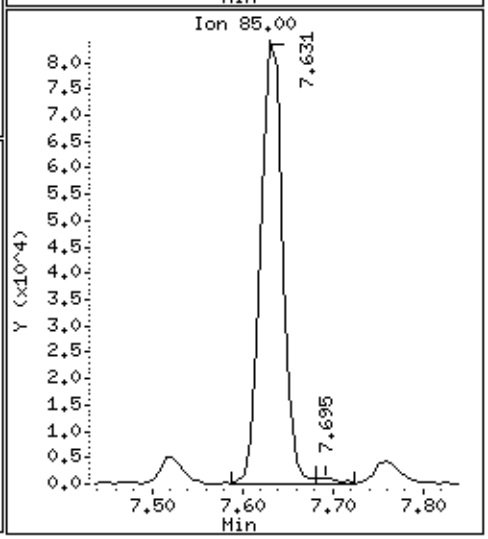












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

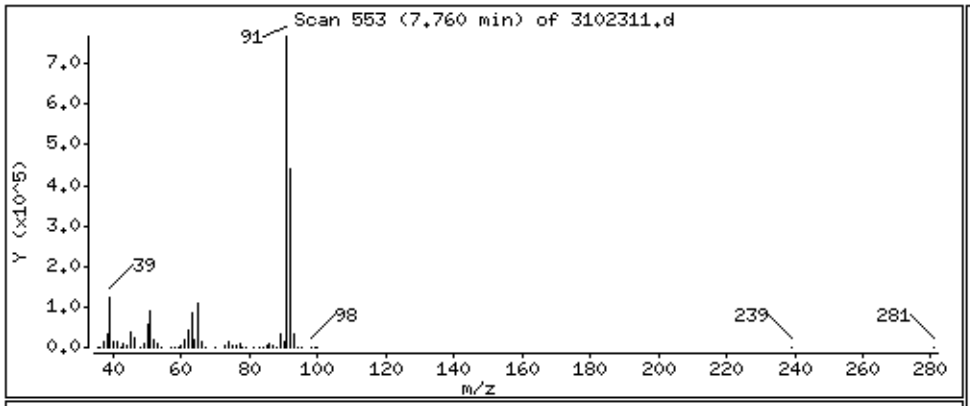
Operator: cb

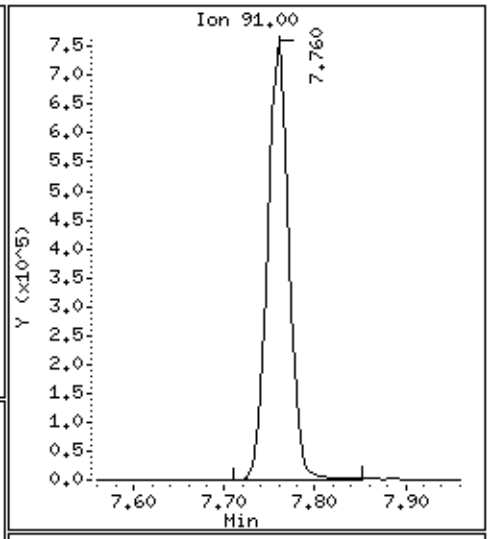
Column phase: RTX-624

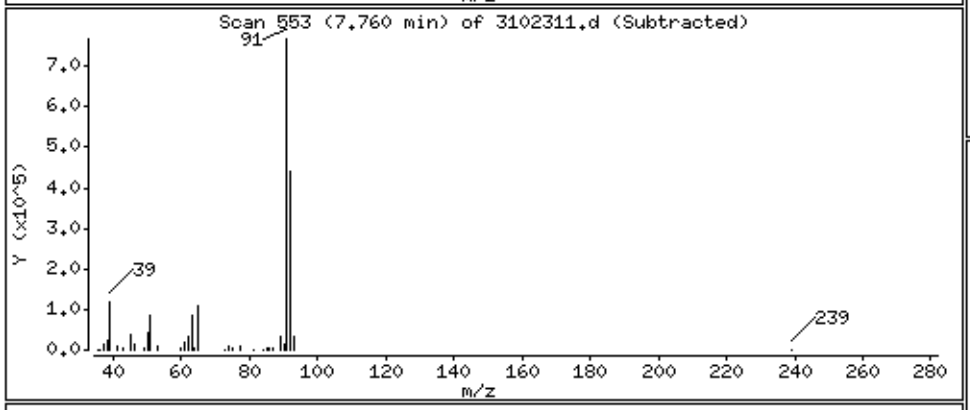
Column diameter: 0.25

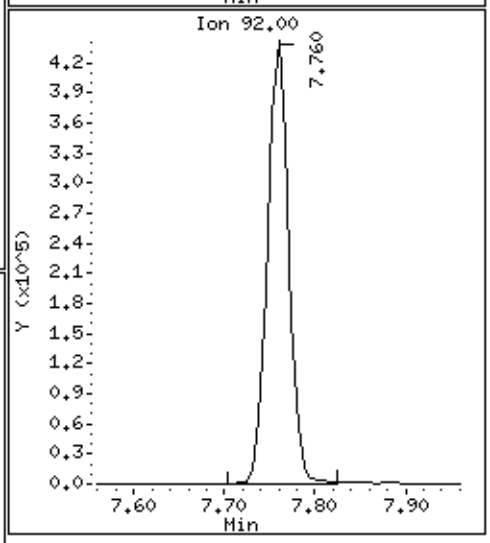
147 Toluene

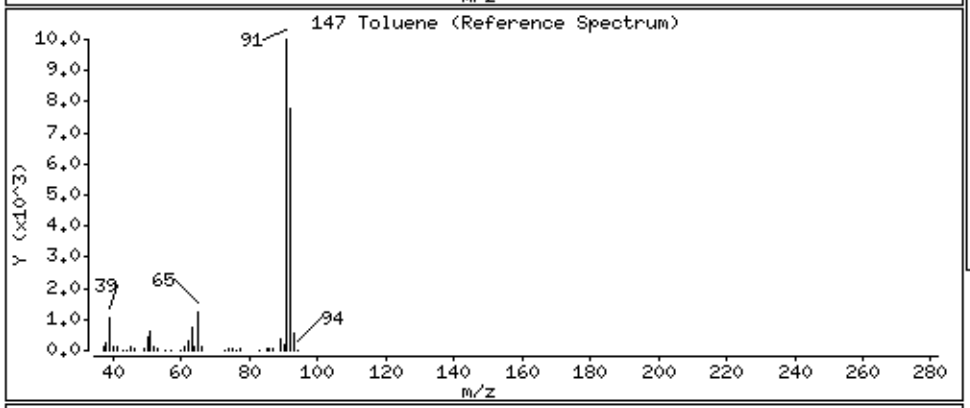
Concentration: 53.365 PPBV

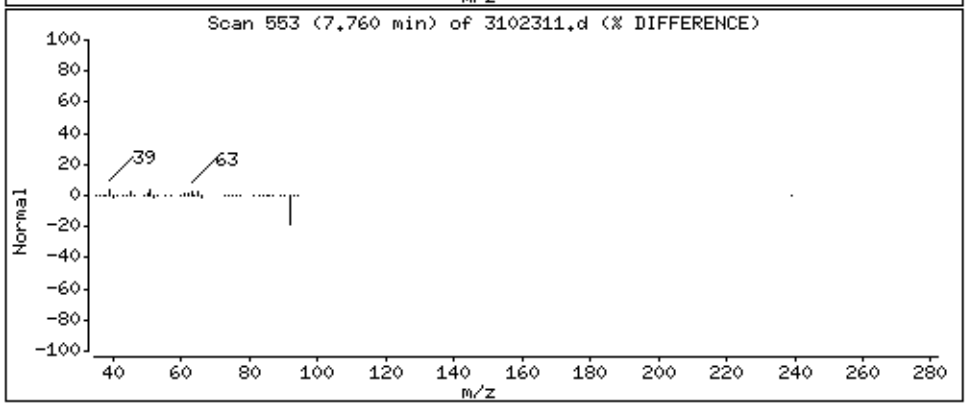












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

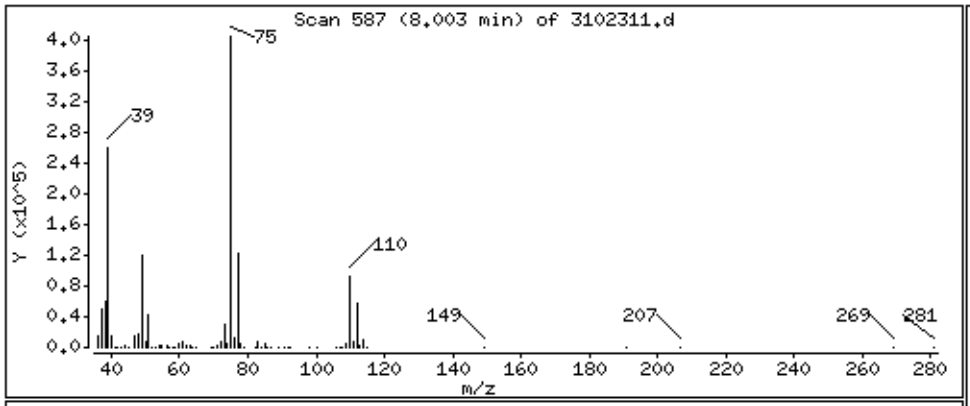
Operator: cb

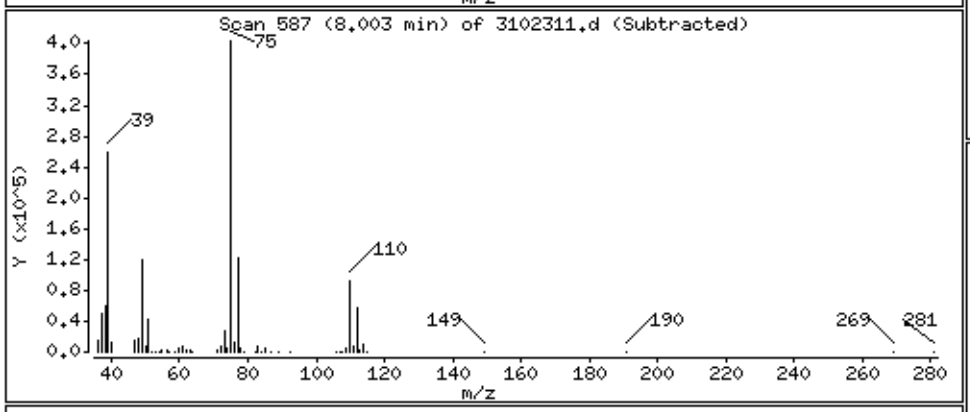
Column phase: RTX-624

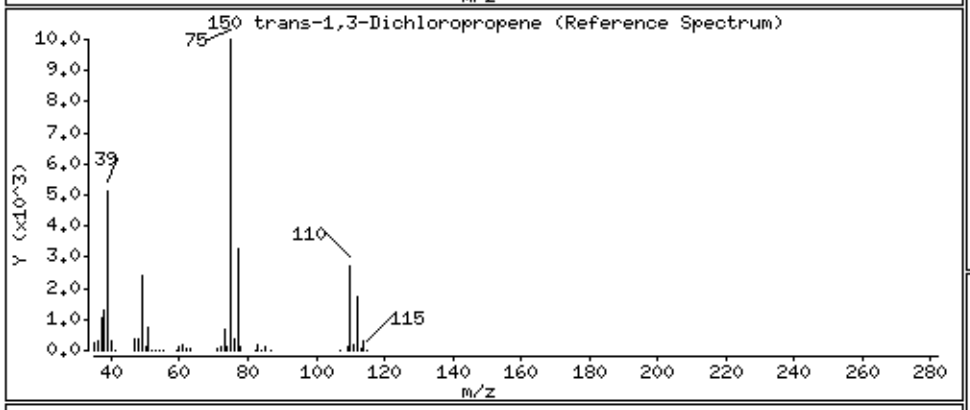
Column diameter: 0.25

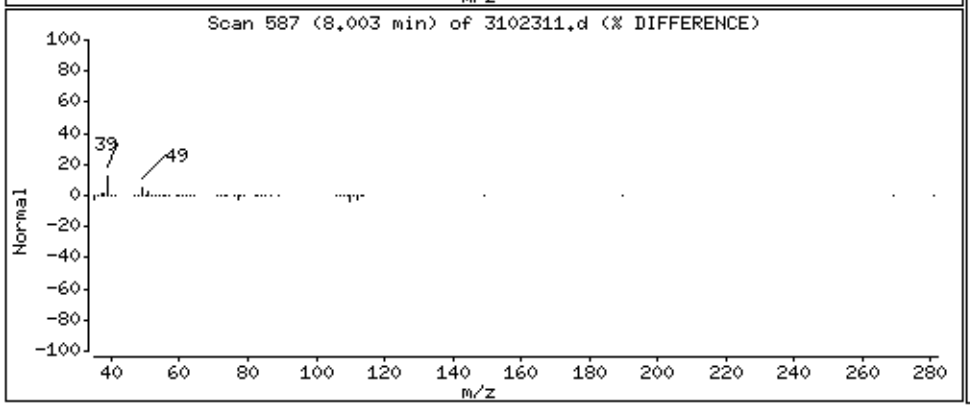
150 trans-1,3-Dichloropropene

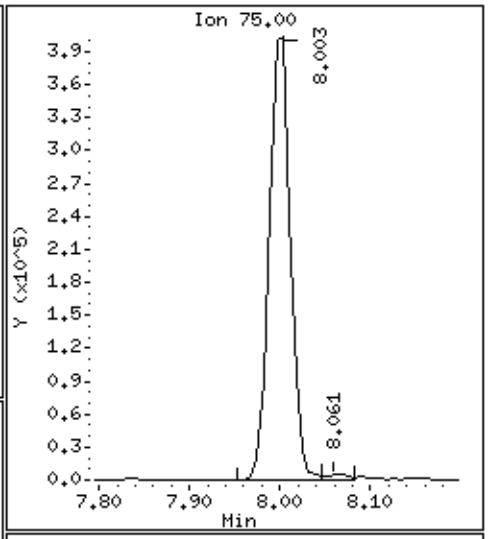
Concentration: 56.985 PPBV

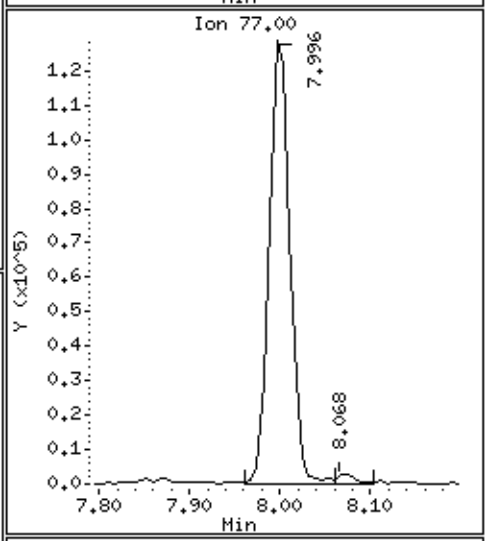


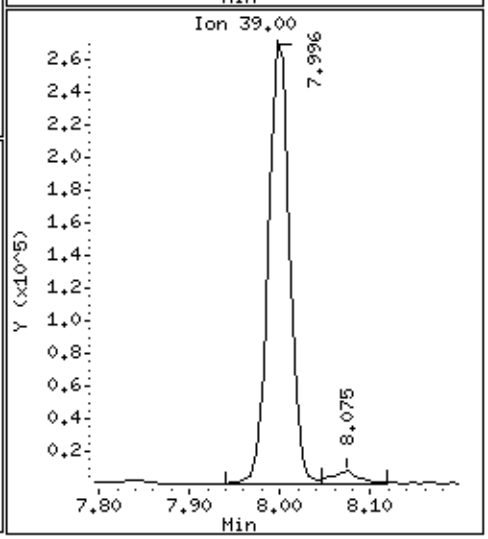












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

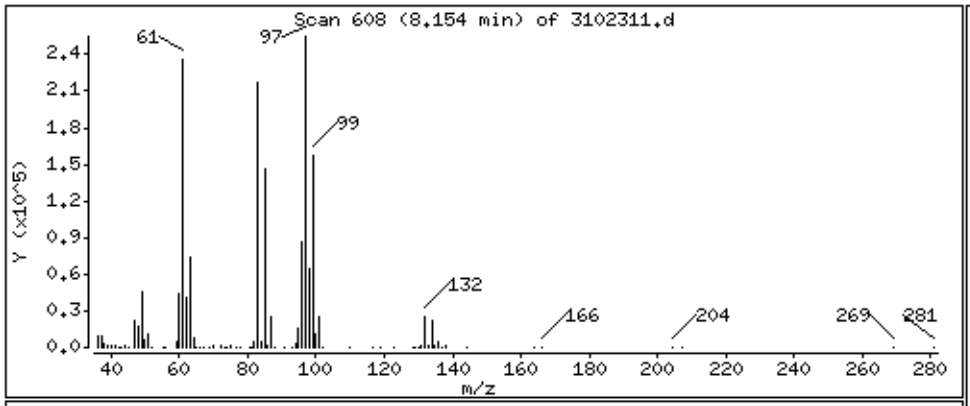
Operator: cb

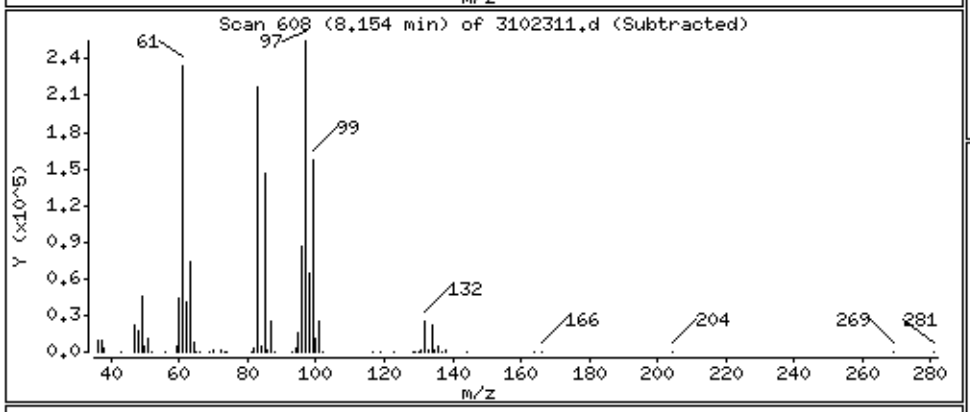
Column phase: RTX-624

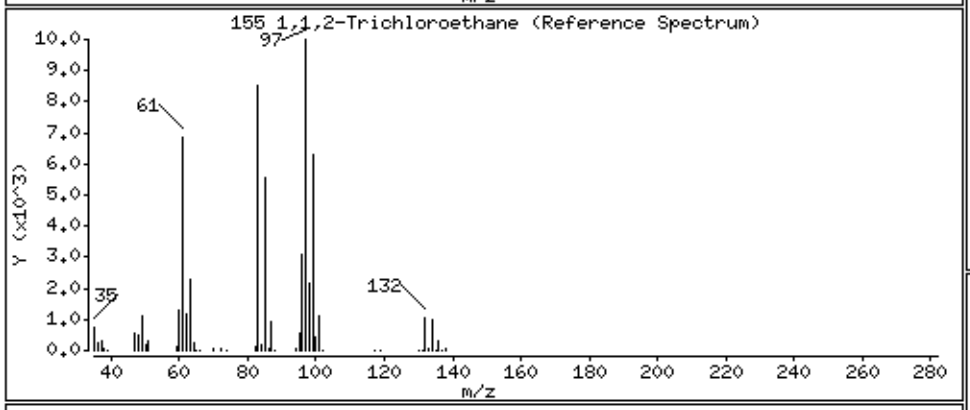
Column diameter: 0.25

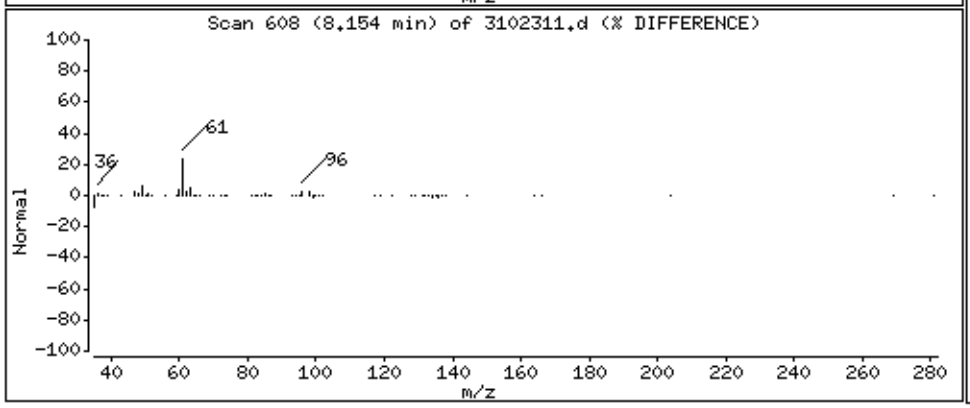
155 1,1,2-Trichloroethane

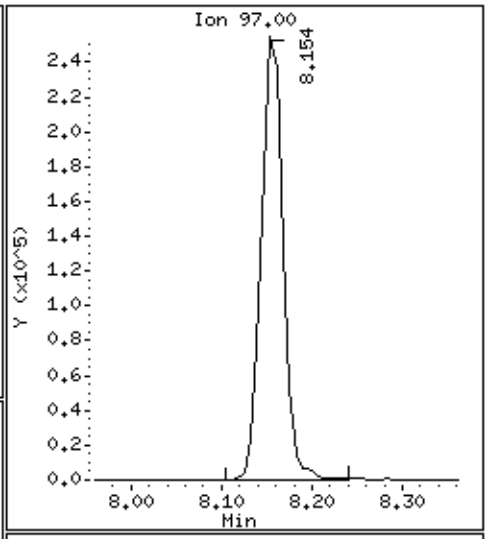
Concentration: 53.892 PPBV

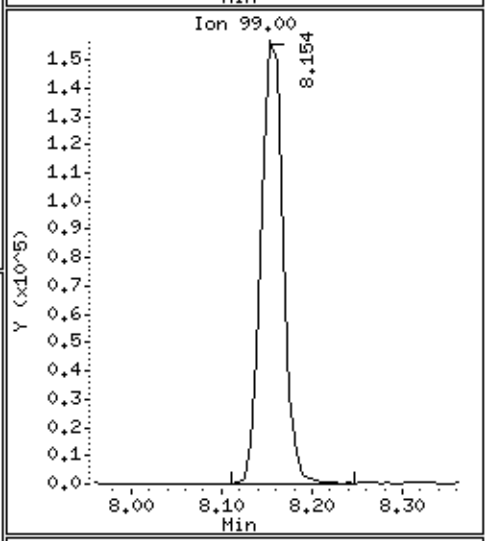


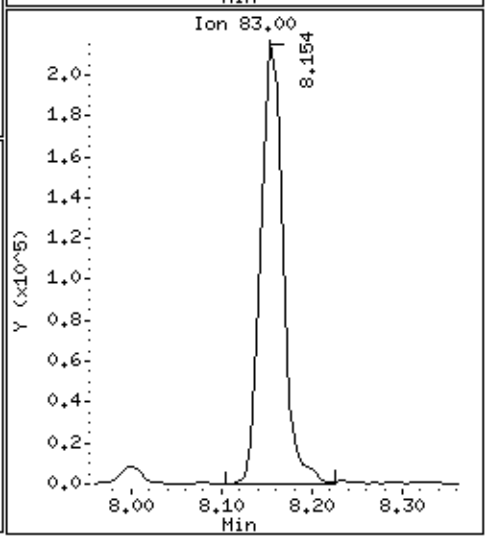












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

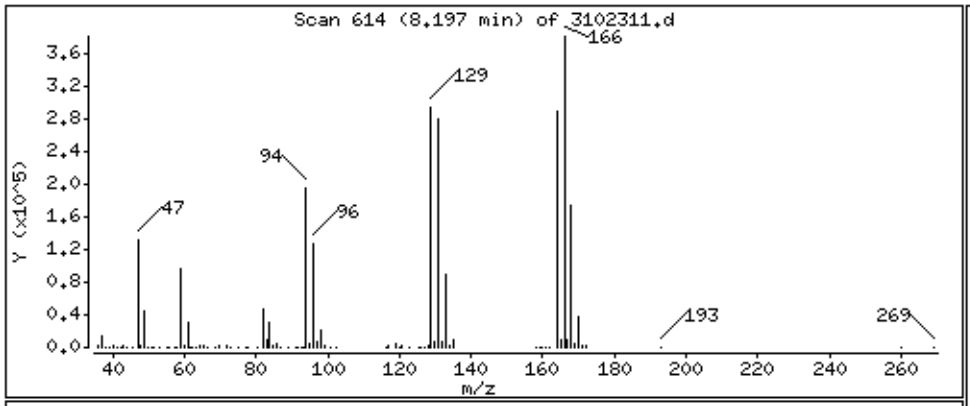
Operator: cb

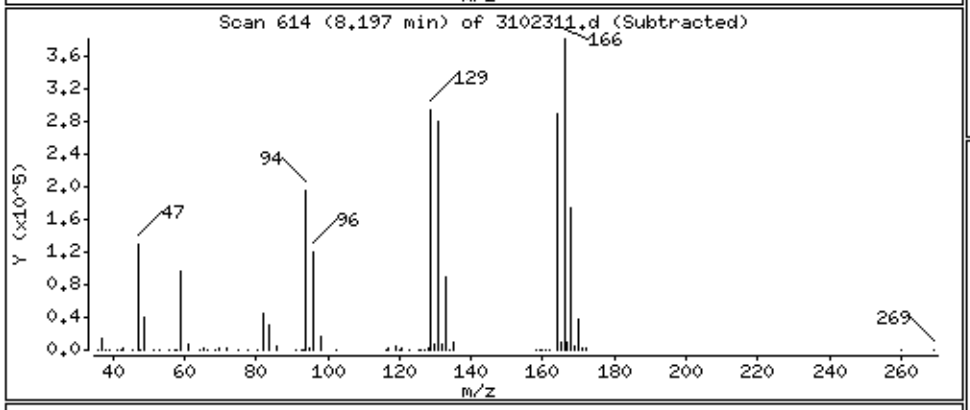
Column phase: RTX-624

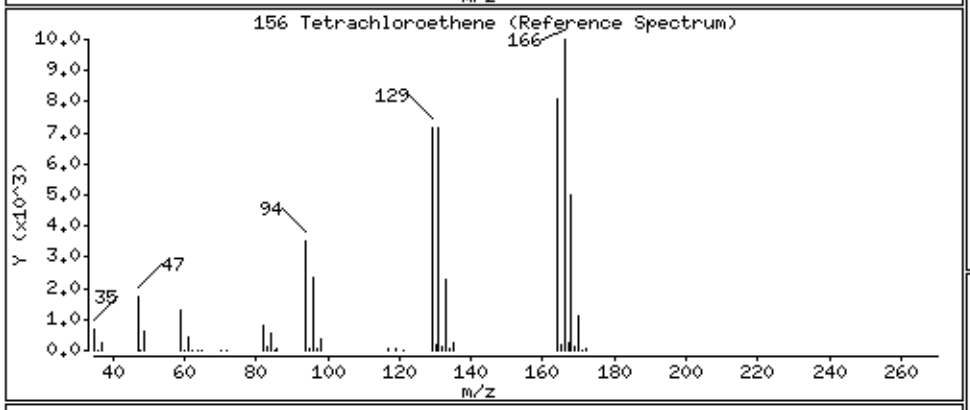
Column diameter: 0.25

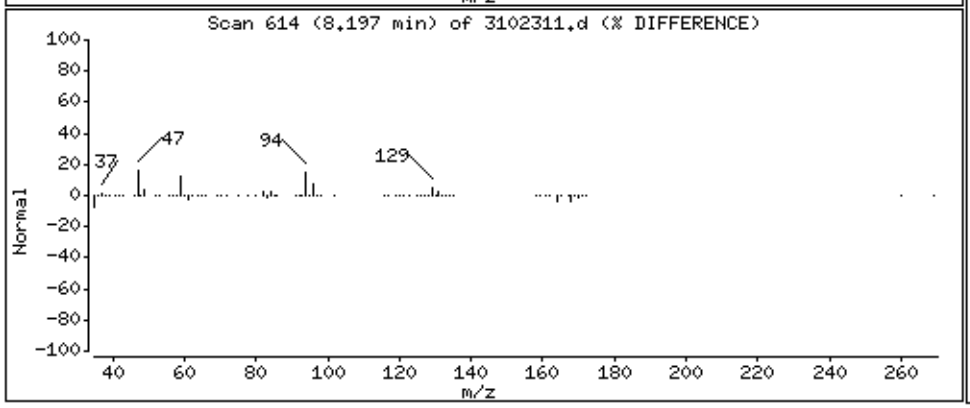
156 Tetrachloroethene

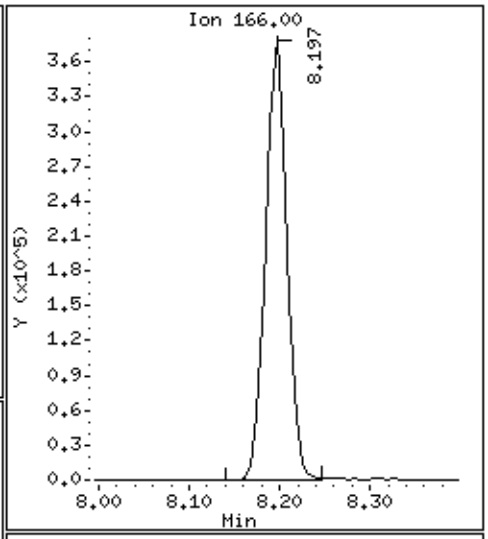
Concentration: 54.523 PPBV

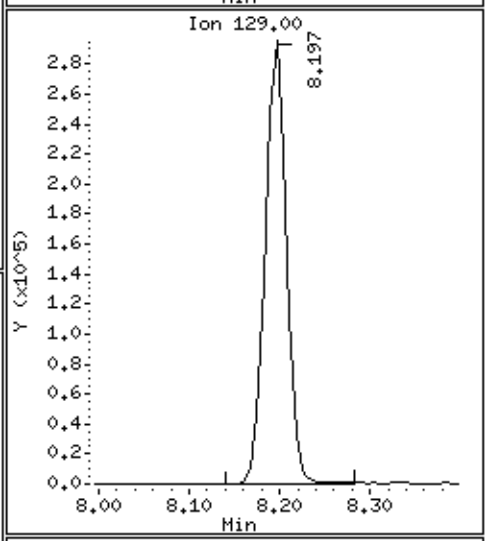


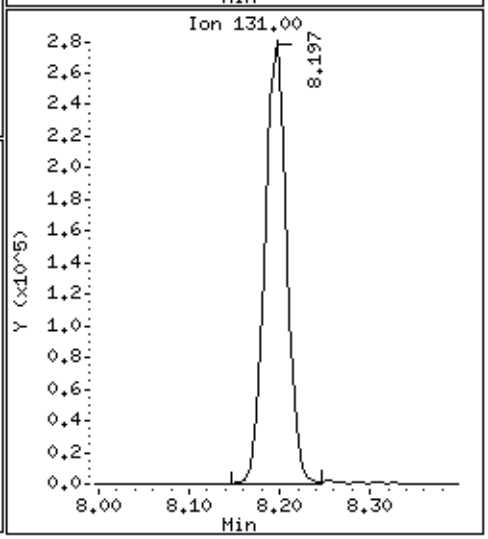












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

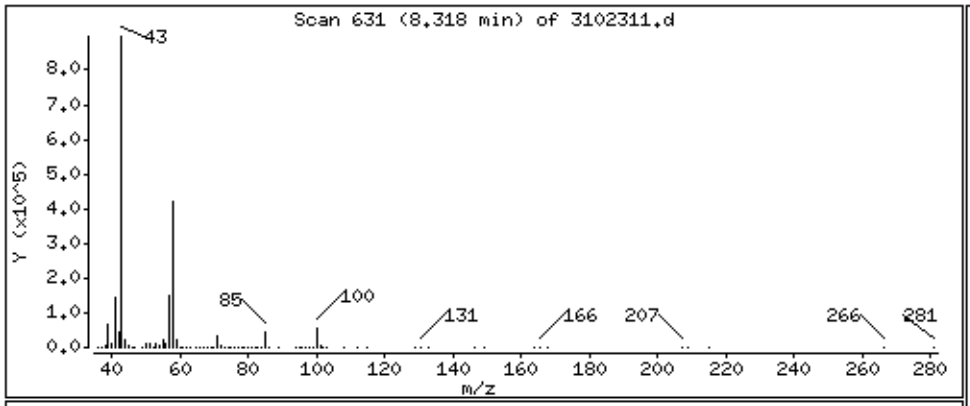
Operator: cb

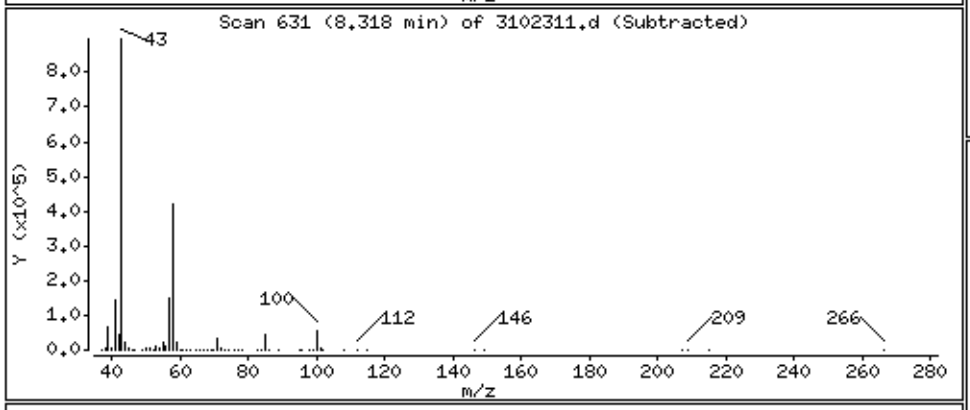
Column phase: RTX-624

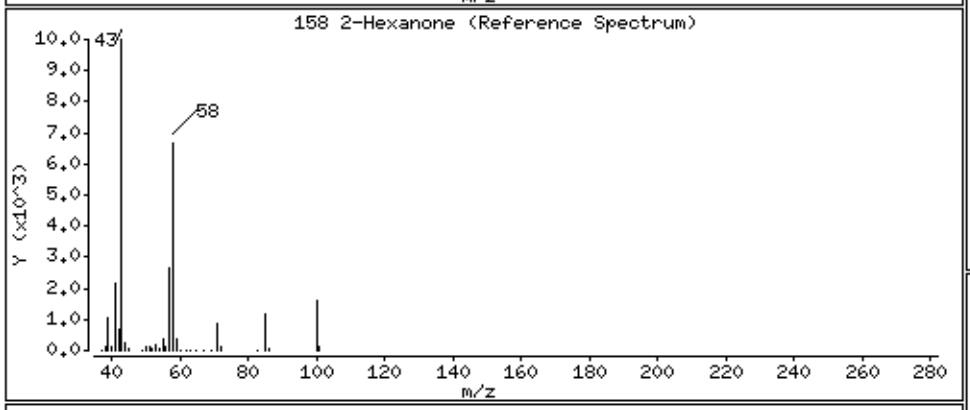
Column diameter: 0.25

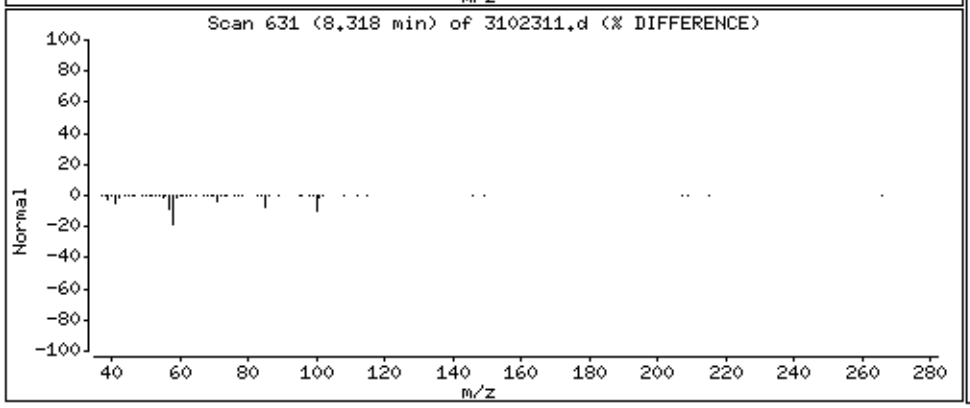
158 2-Hexanone

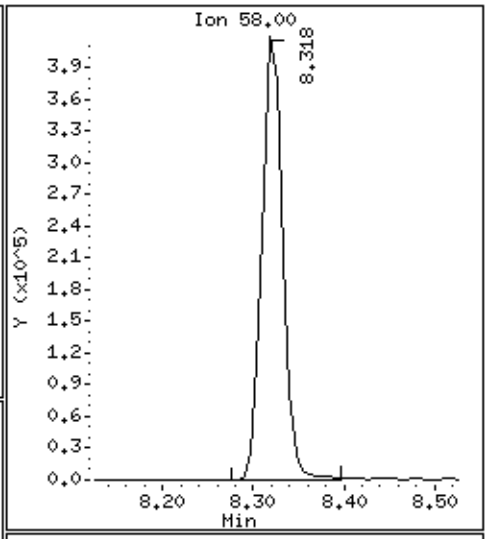
Concentration: 53.155 PPBV

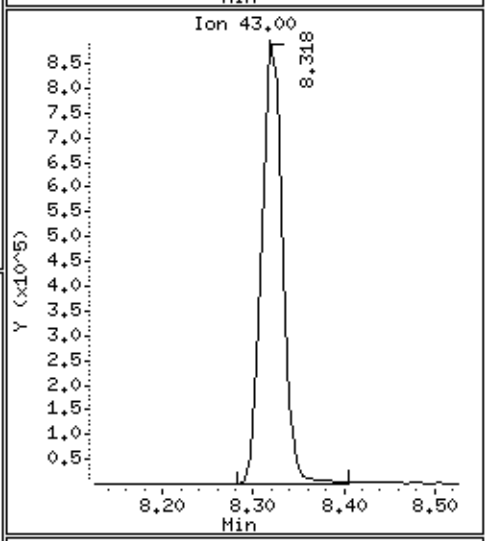


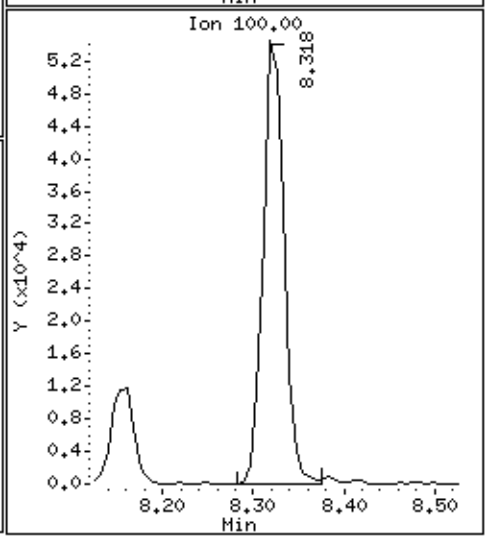












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

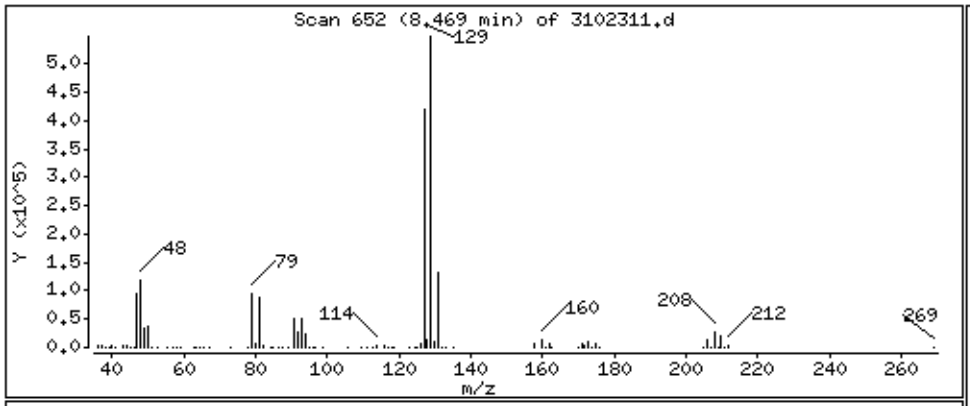
Operator: cb

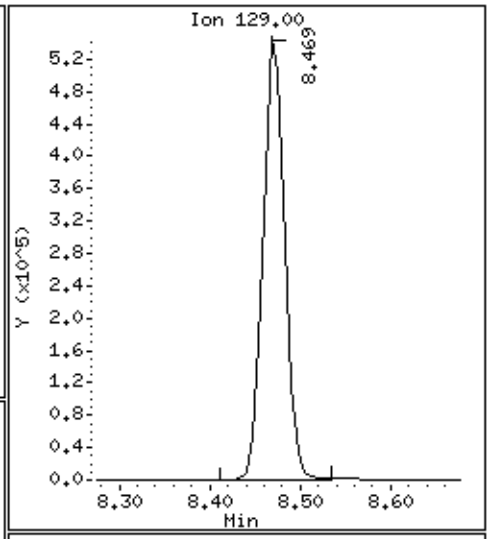
Column phase: RTX-624

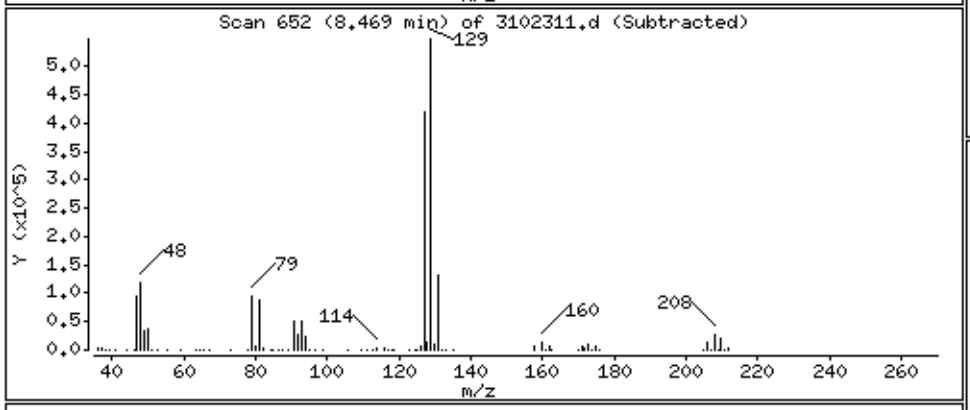
Column diameter: 0.25

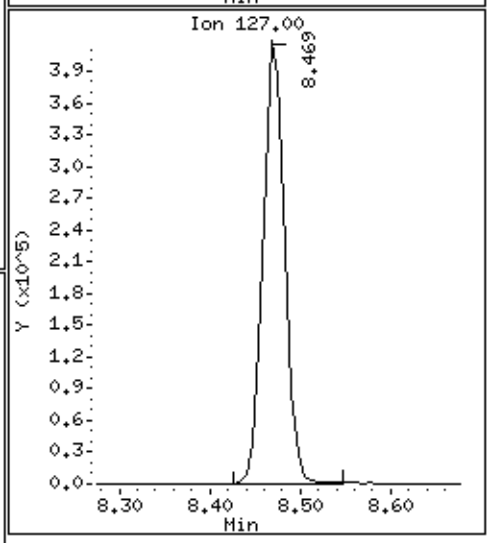
160 Dibromochloromethane

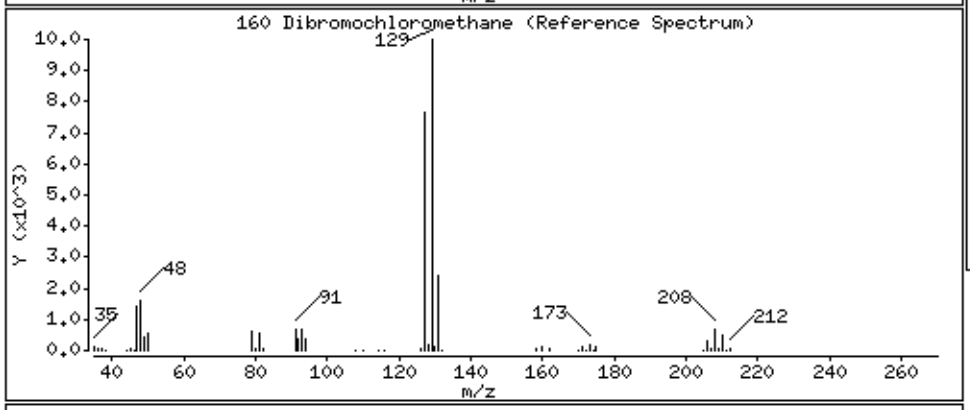
Concentration: 56.689 PPBV

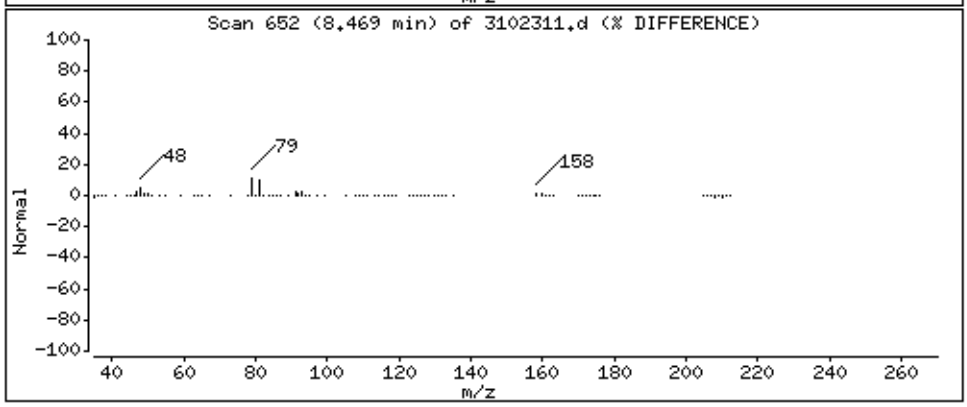












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

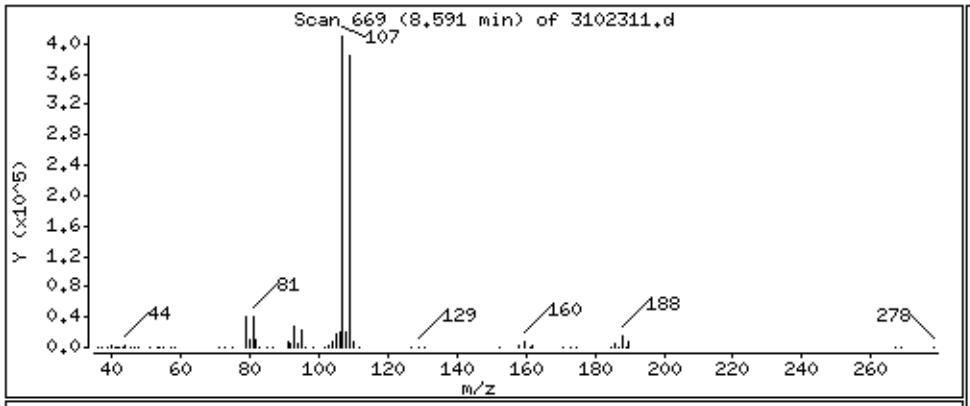
Operator: cb

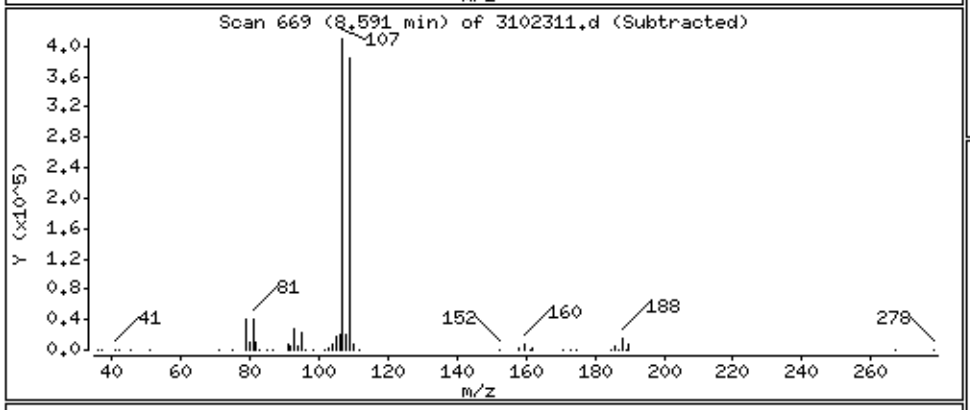
Column phase: RTX-624

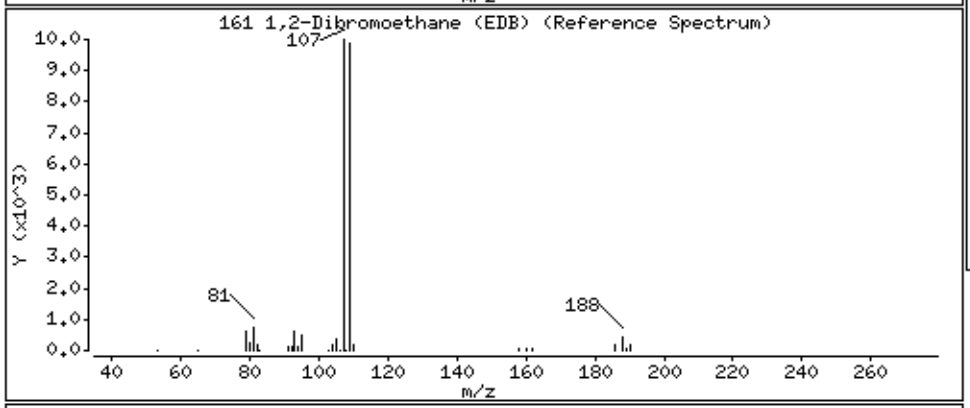
Column diameter: 0.25

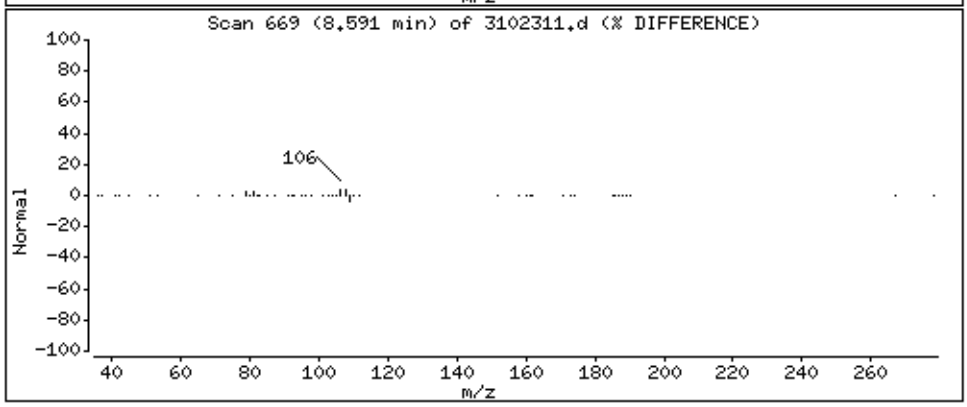
161 1,2-Dibromoethane (EDB)

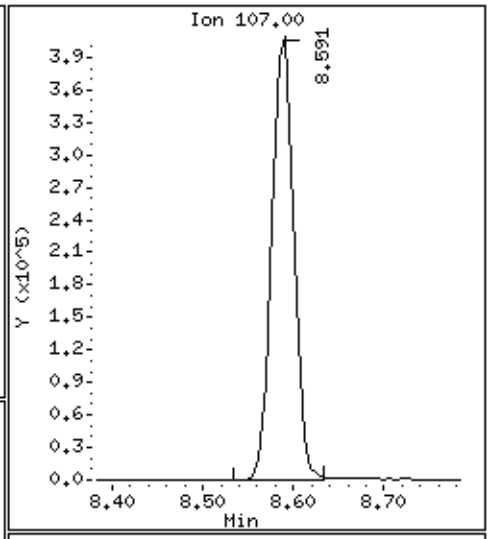
Concentration: 55.022 PPBV

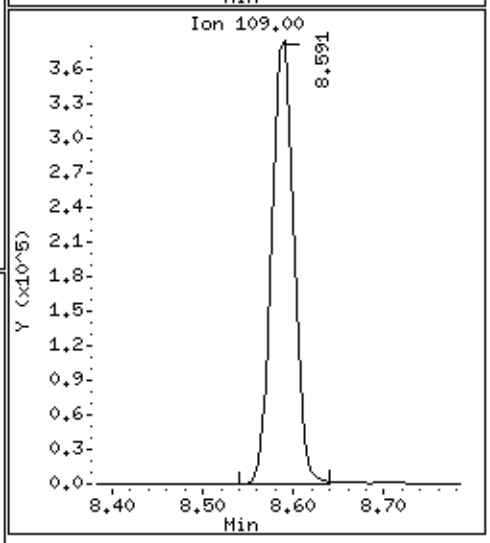












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

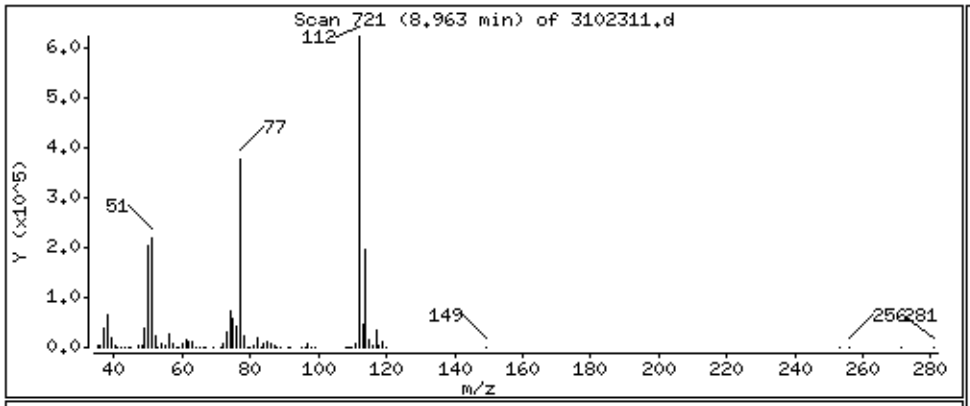
Operator: cb

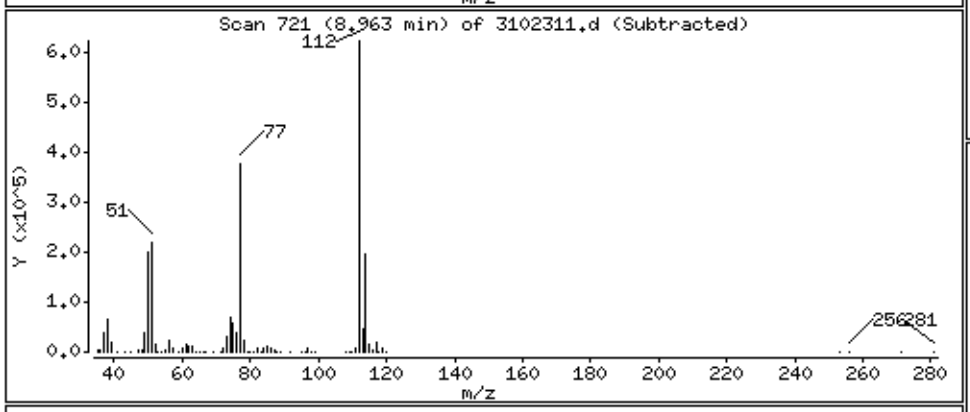
Column phase: RTX-624

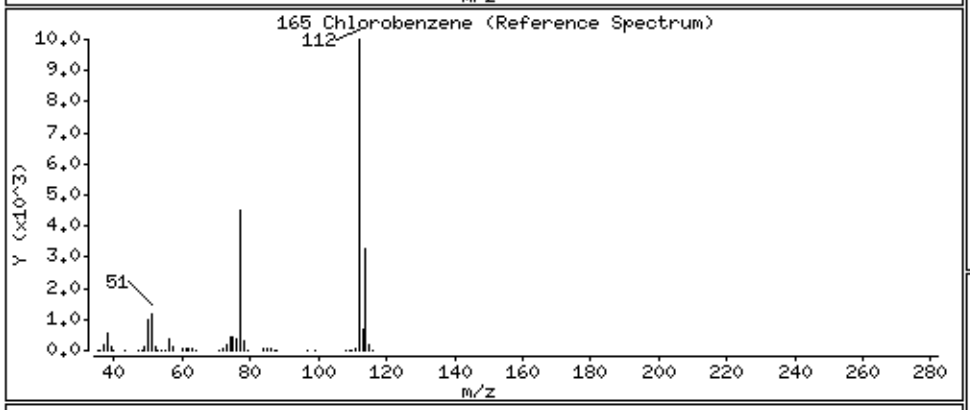
Column diameter: 0.25

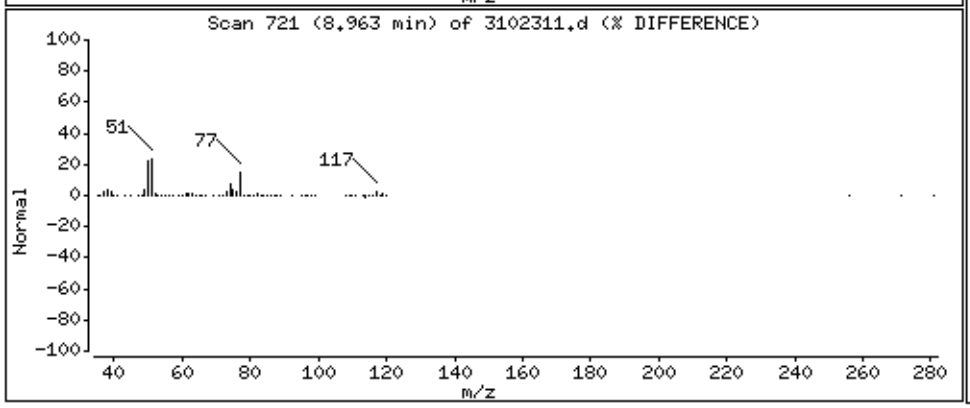
165 Chlorobenzene

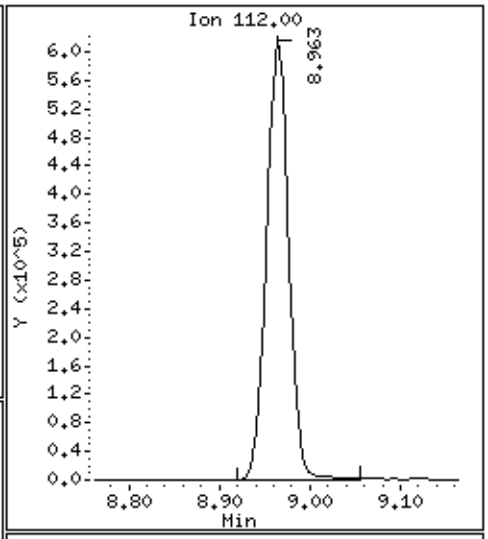
Concentration: 53.401 PPBV

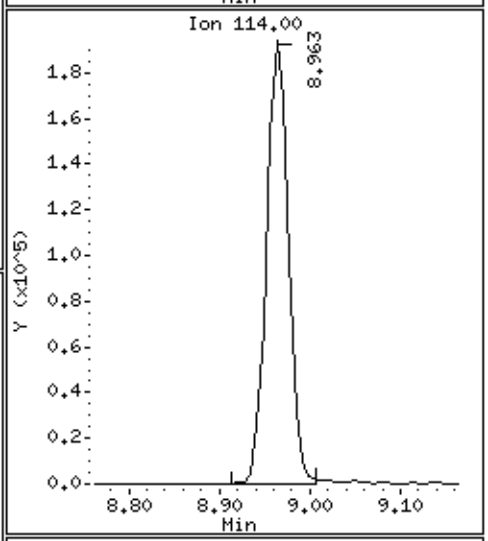


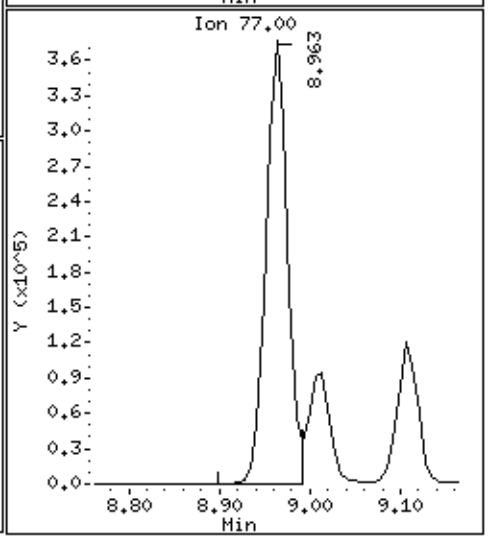












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

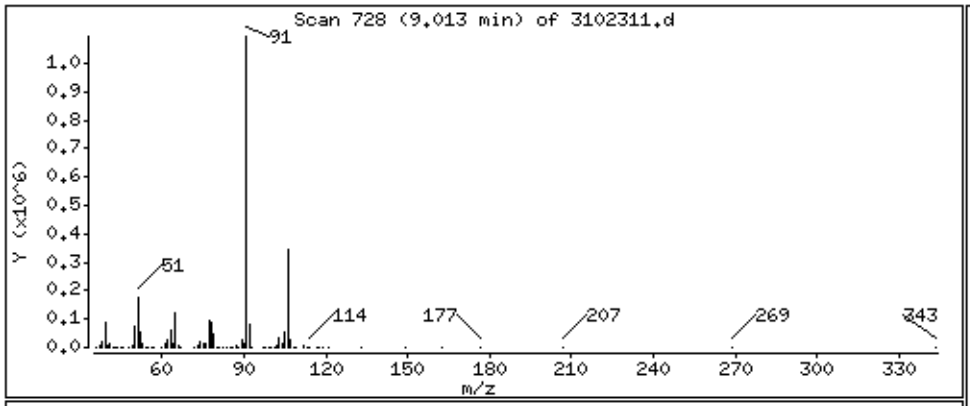
Operator: cb

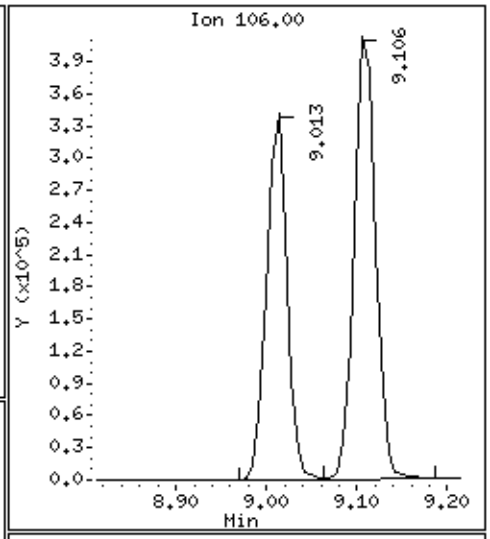
Column phase: RTX-624

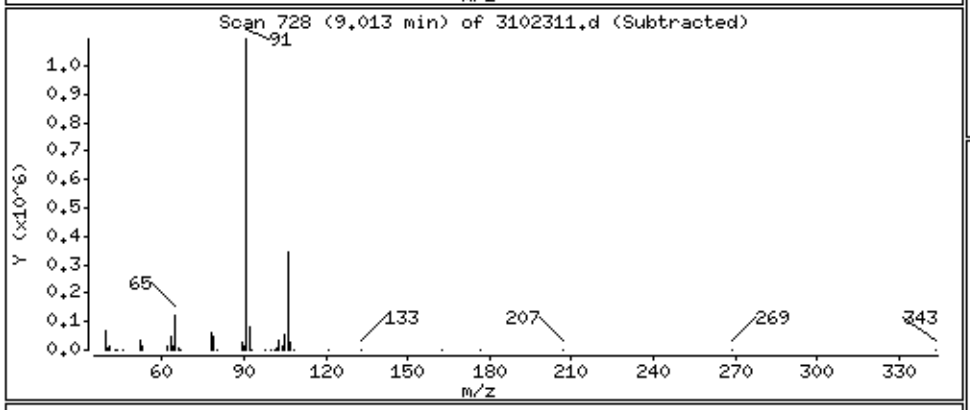
Column diameter: 0.25

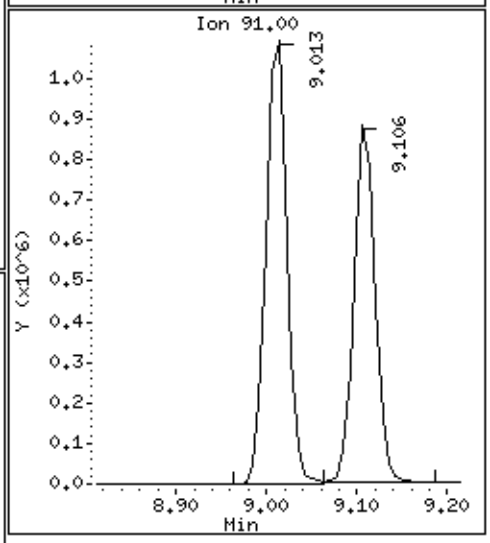
167 Ethyl Benzene

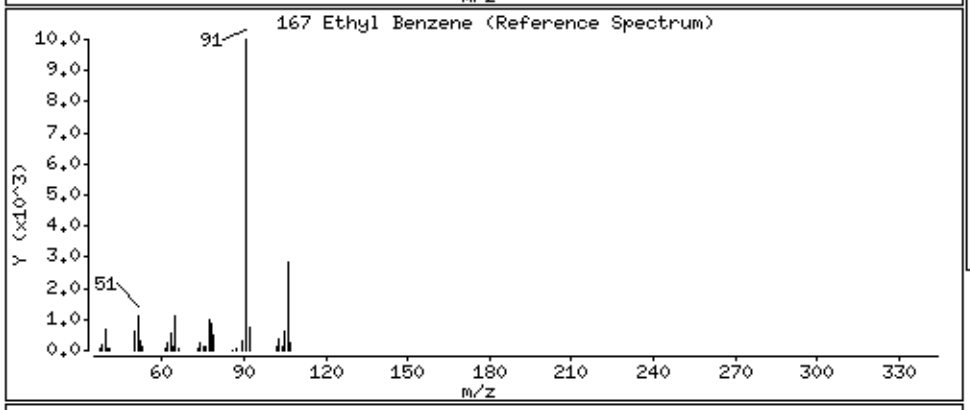
Concentration: 53.908 PPBV

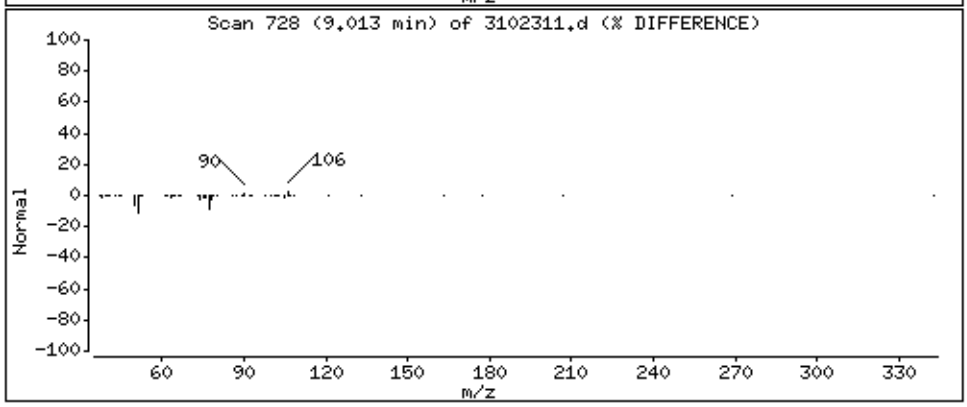












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

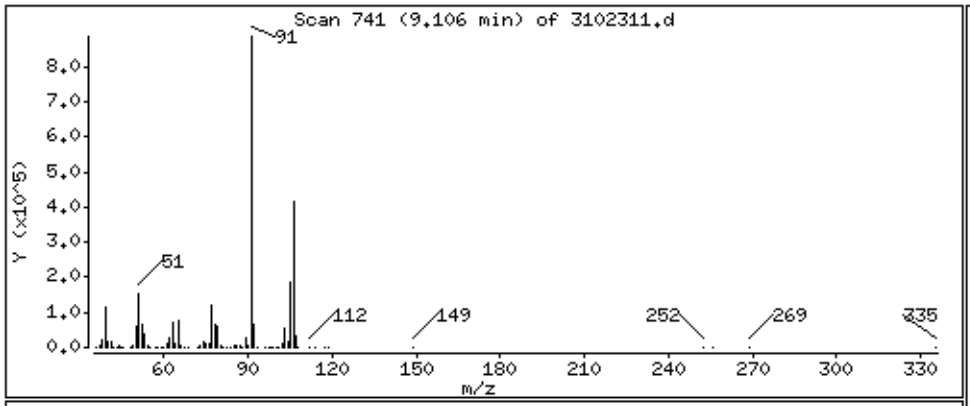
Operator: cb

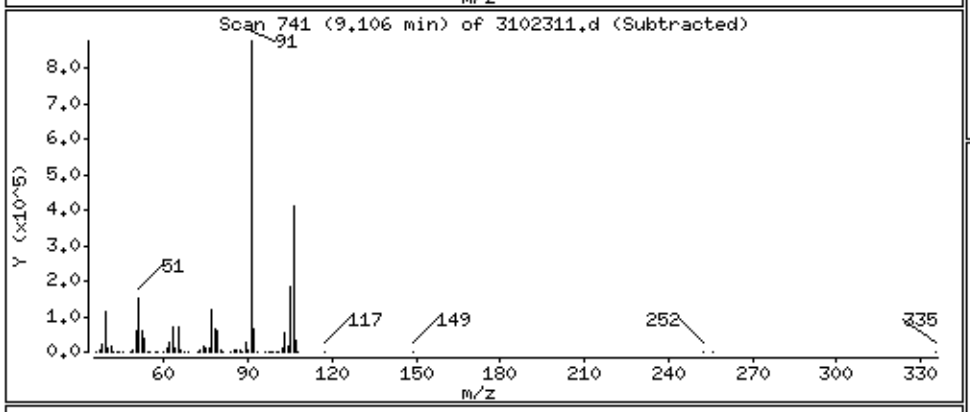
Column phase: RTX-624

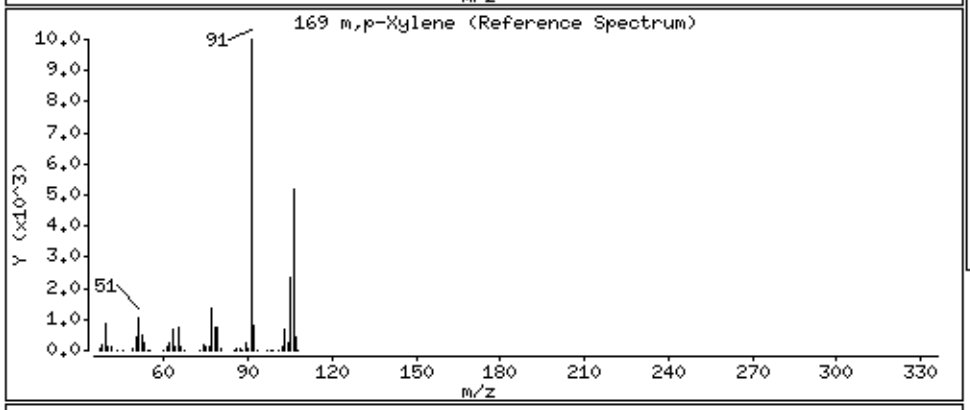
Column diameter: 0.25

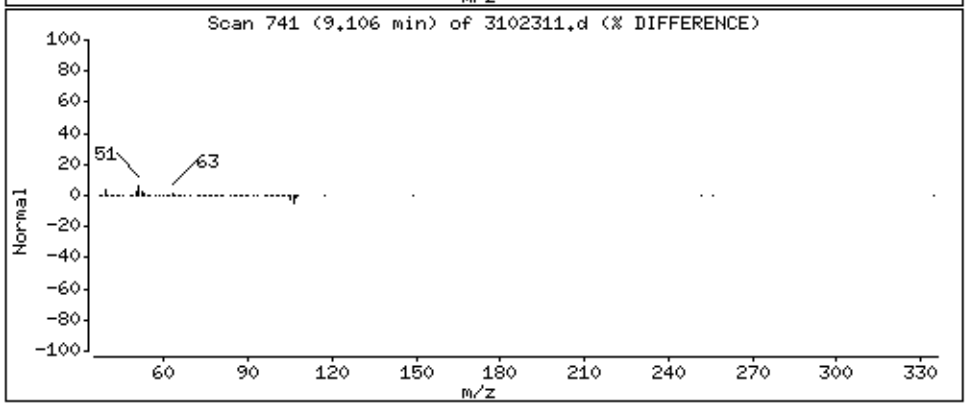
169 m,p-Xylene

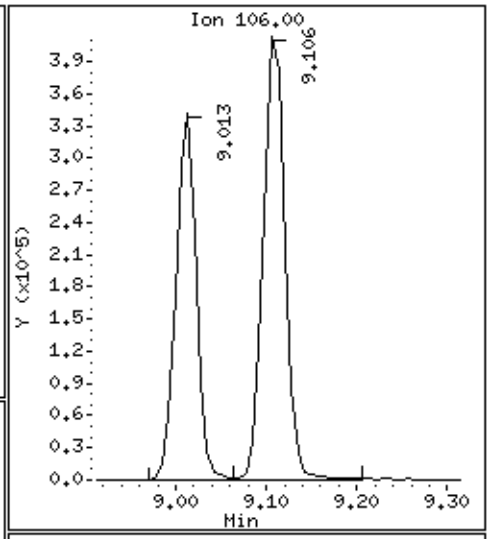
Concentration: 54.891 PPBV

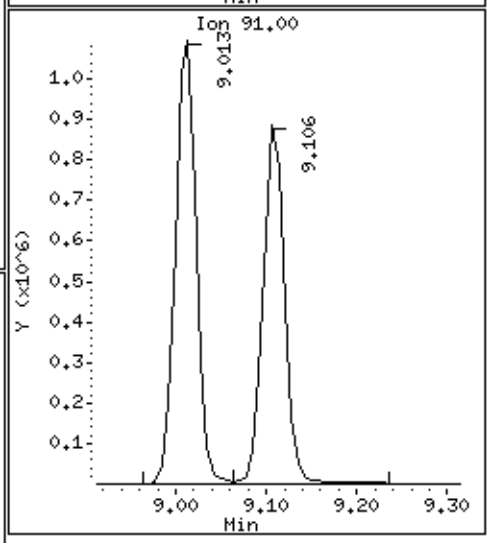












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

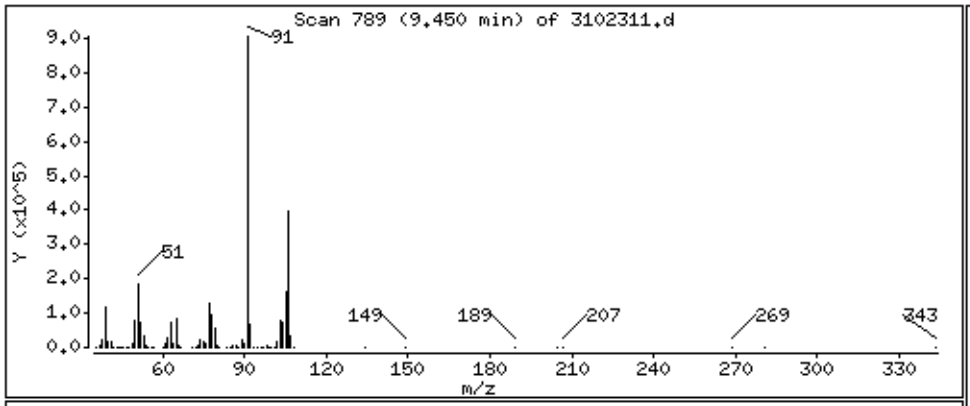
Operator: cb

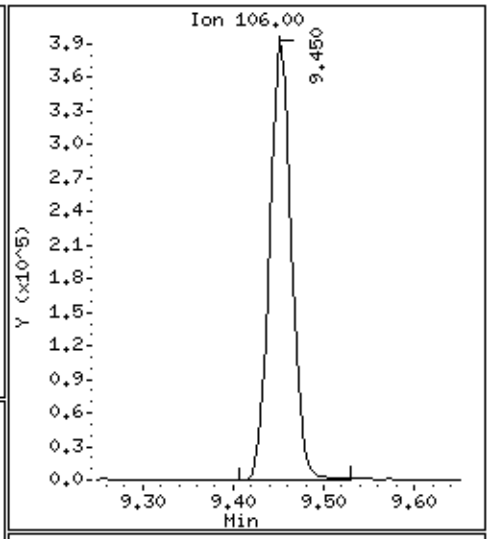
Column phase: RTX-624

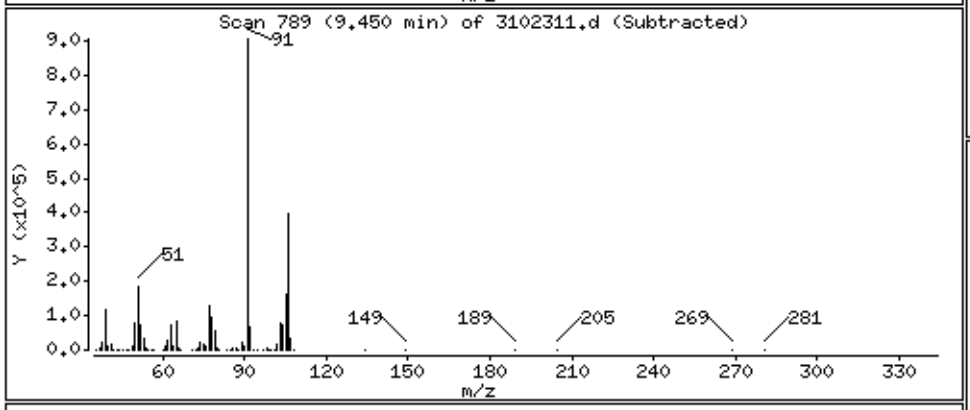
Column diameter: 0.25

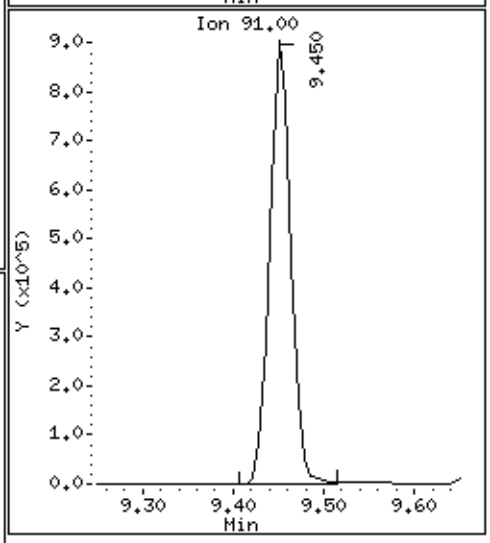
171 o-Xylene

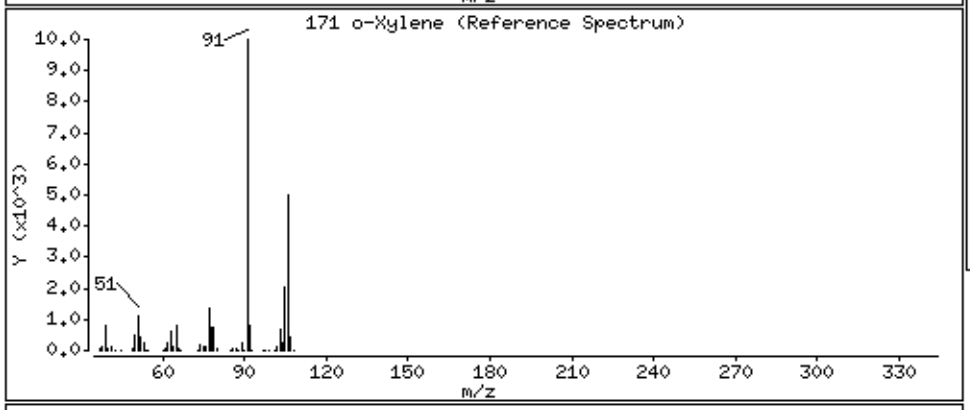
Concentration: 54.278 PPBV

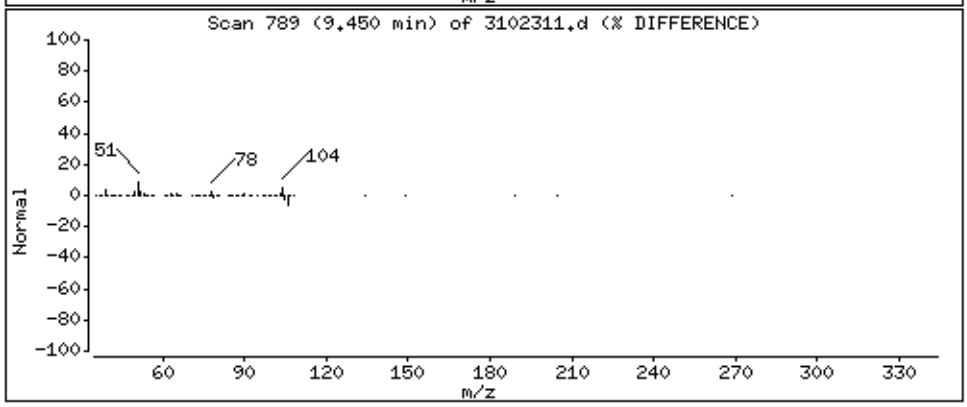












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

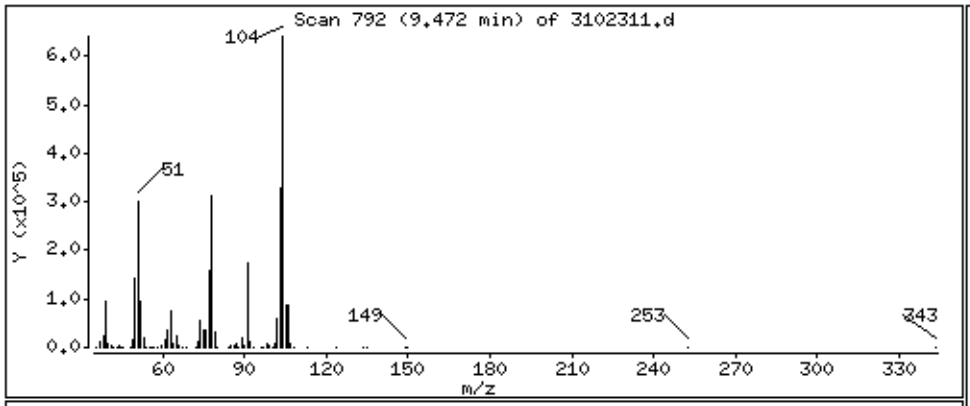
Operator: cb

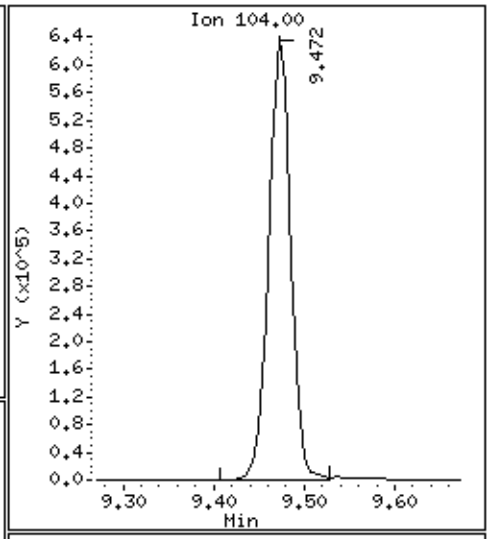
Column phase: RTX-624

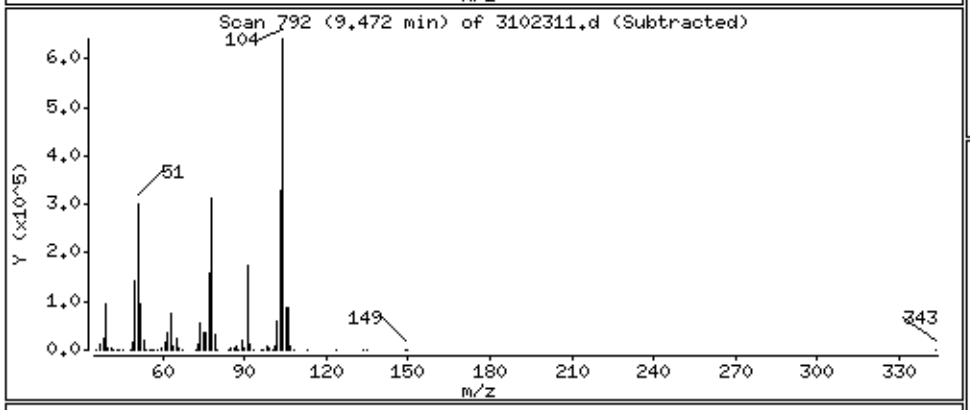
Column diameter: 0.25

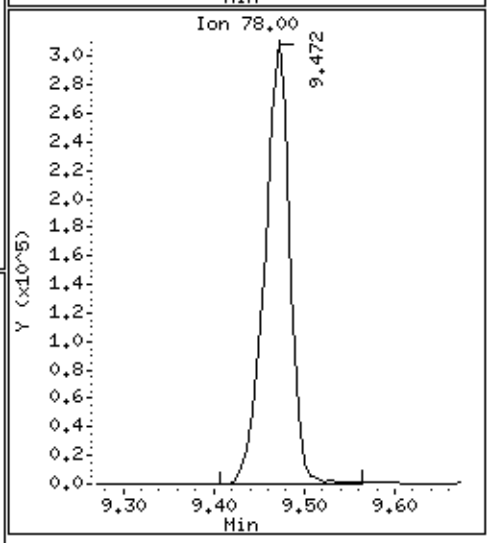
172 Styrene

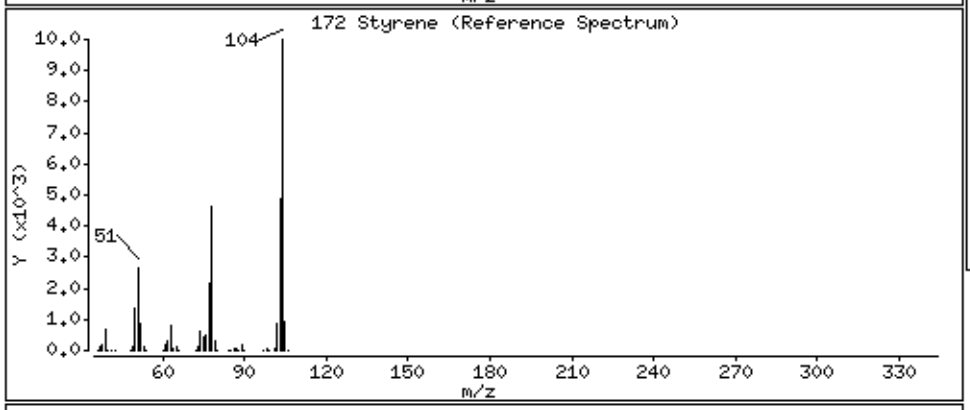
Concentration: 53.713 PPBV

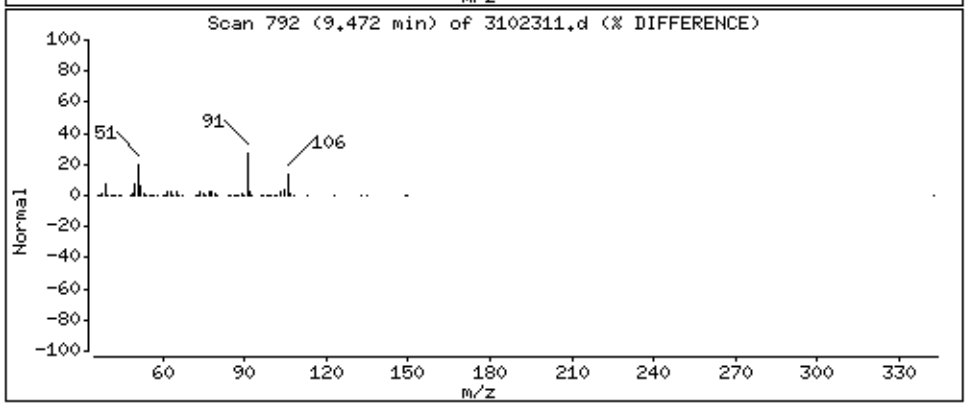












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

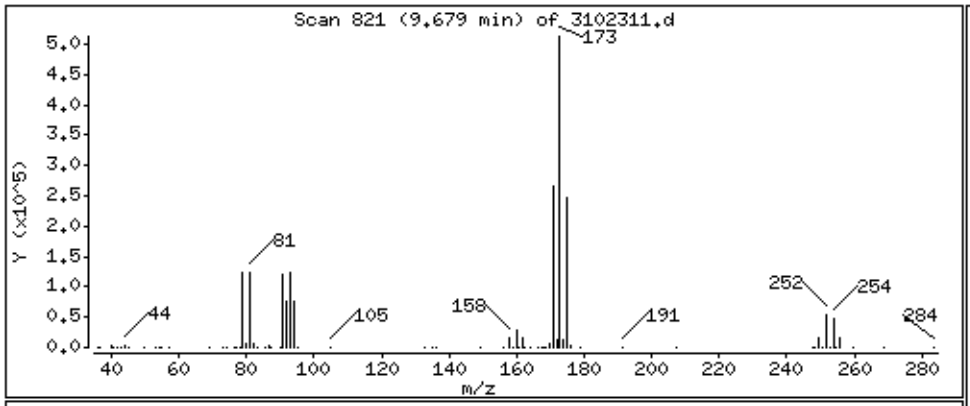
Operator: cb

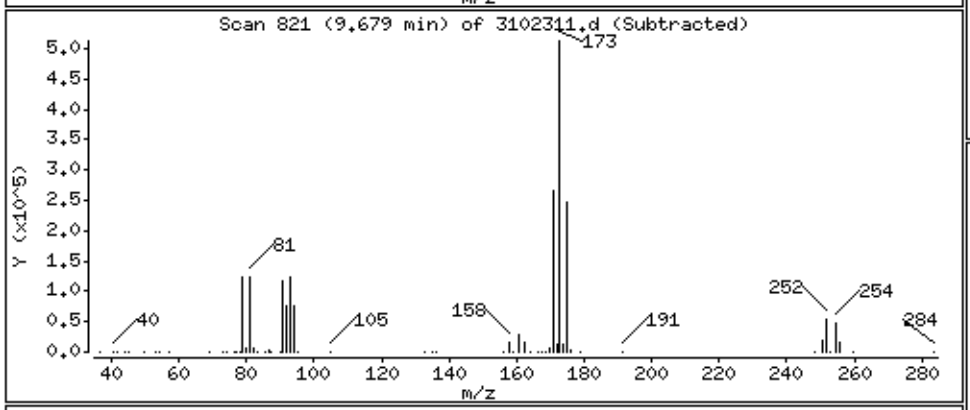
Column phase: RTX-624

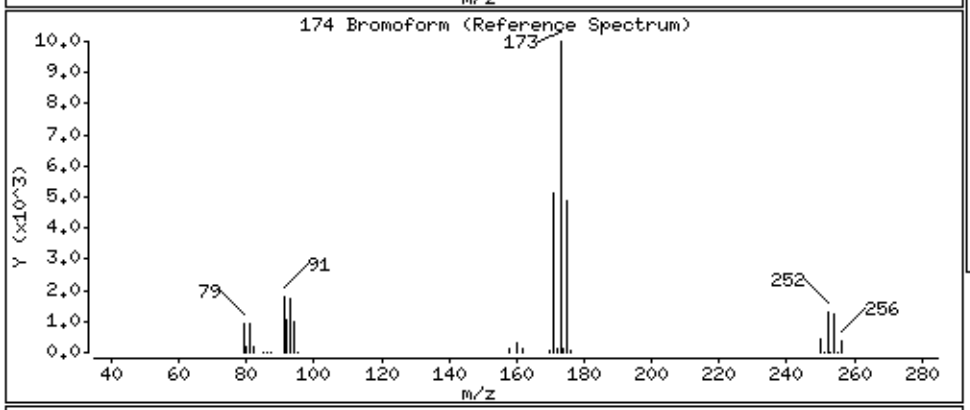
Column diameter: 0.25

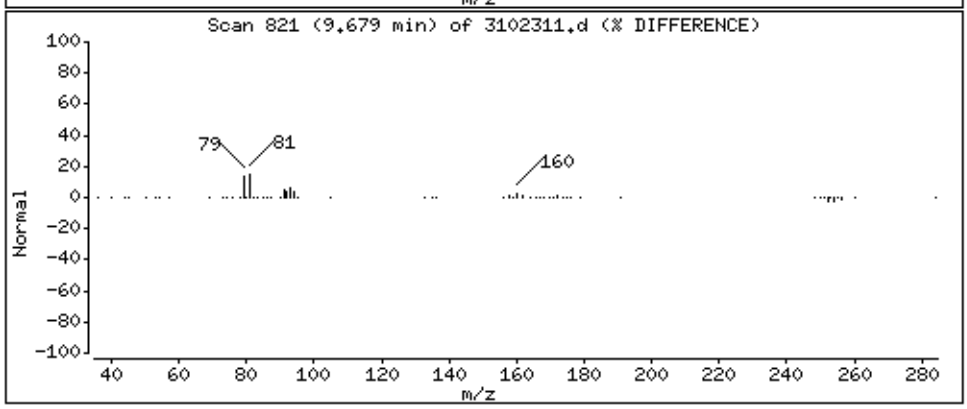
174 Bromoform

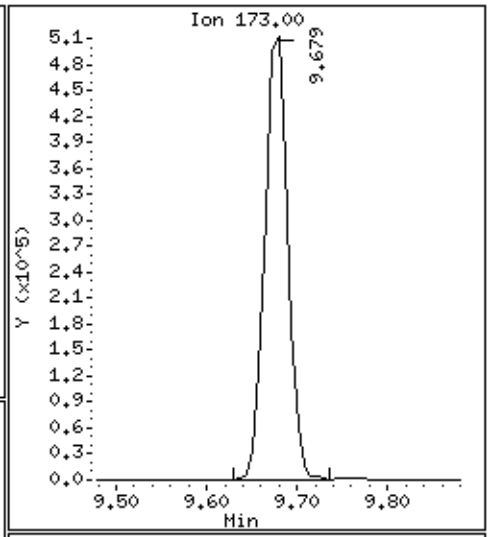
Concentration: 54.964 PPBV

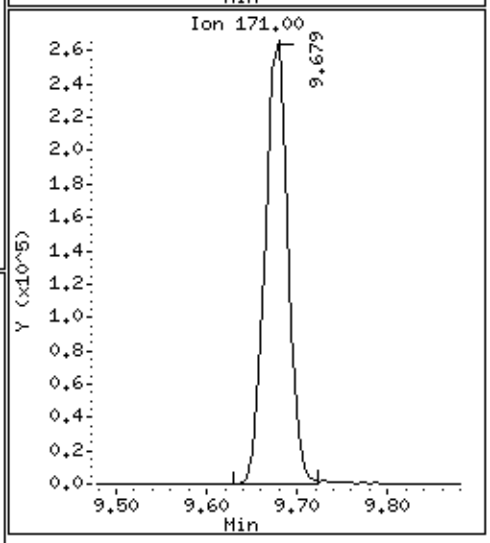












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

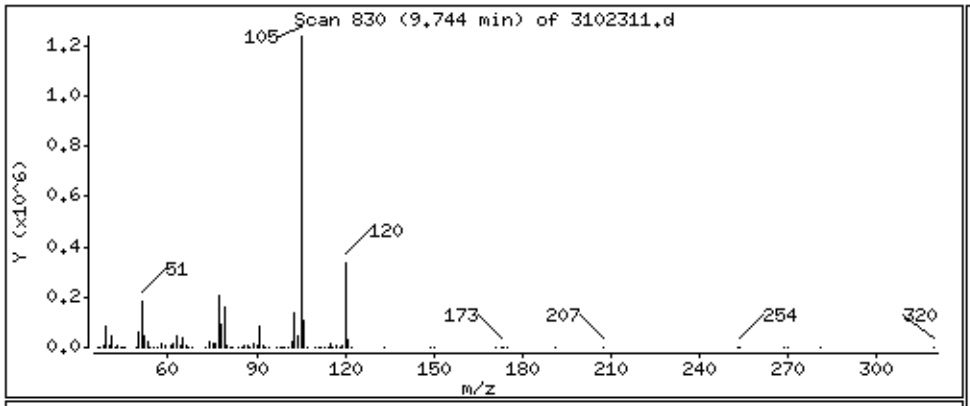
Operator: cb

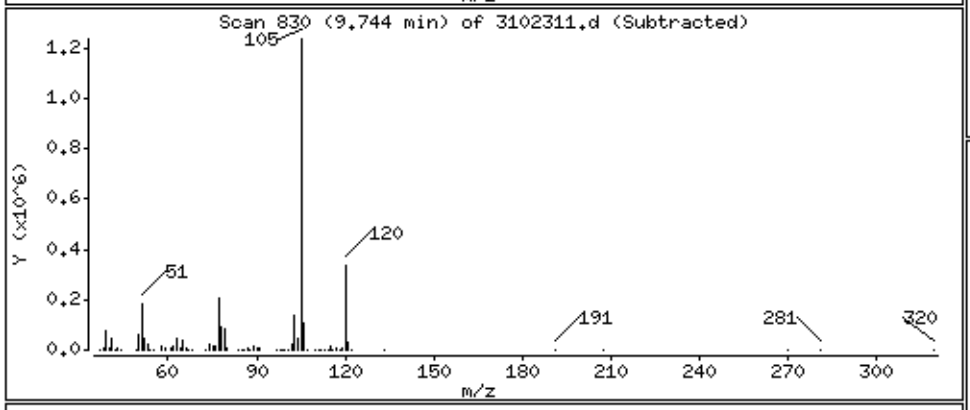
Column phase: RTX-624

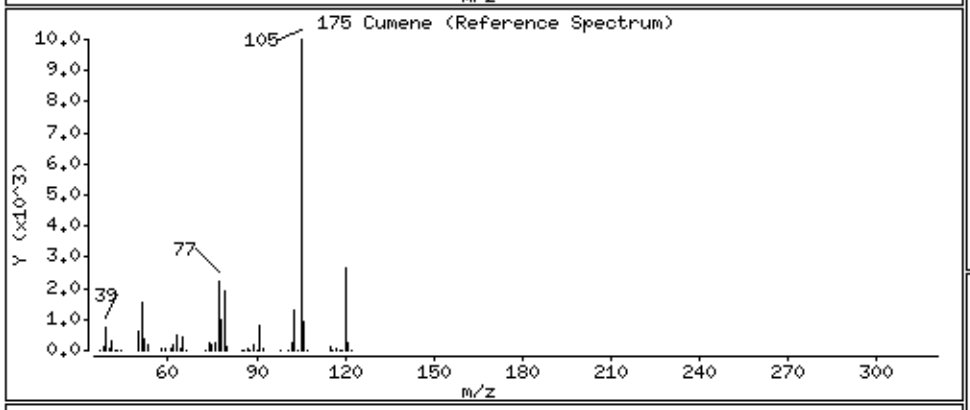
Column diameter: 0.25

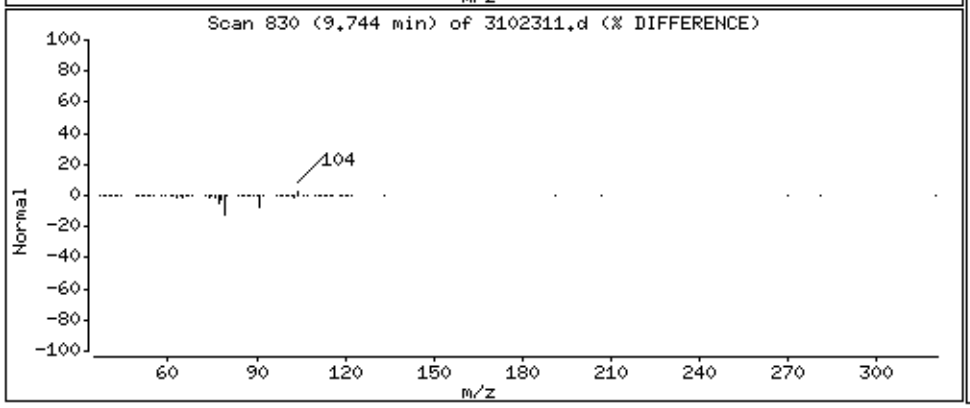
175 Cumene

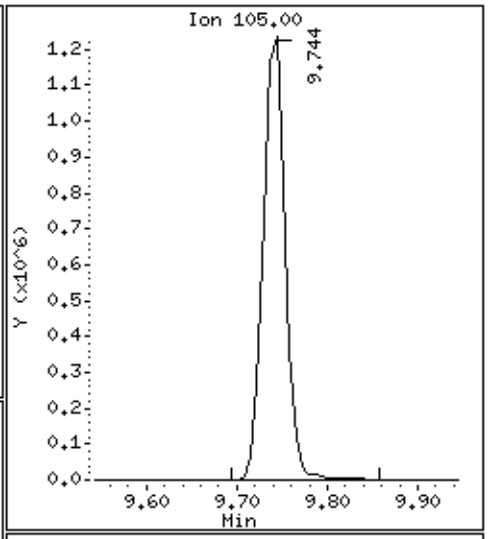
Concentration: 54.158 PPBV

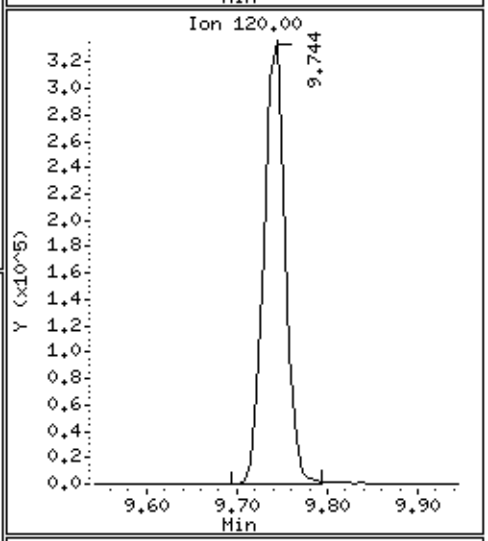


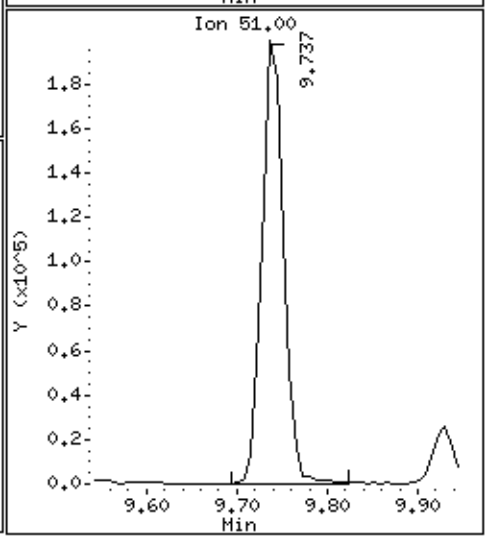












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

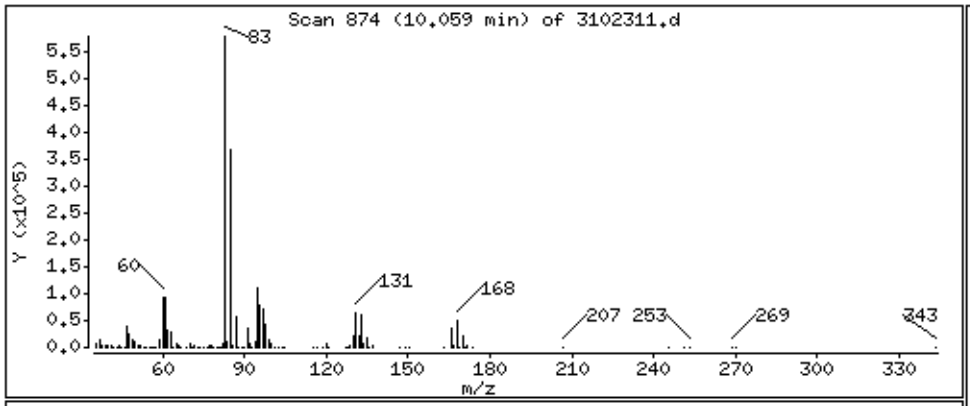
Operator: cb

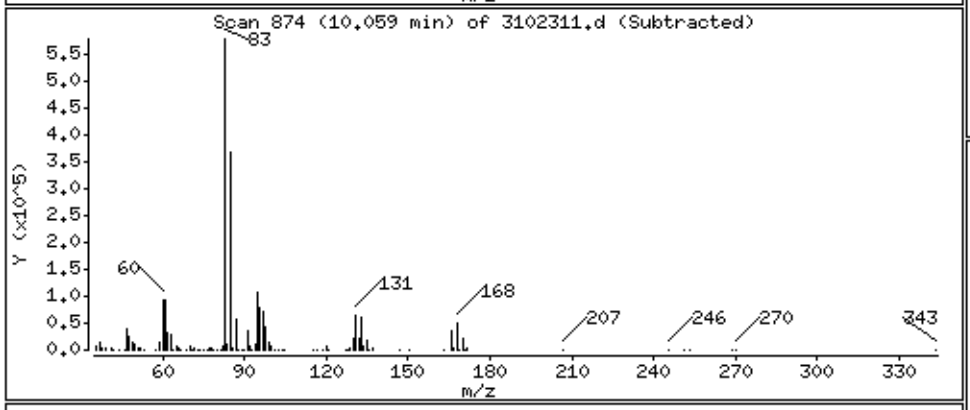
Column phase: RTX-624

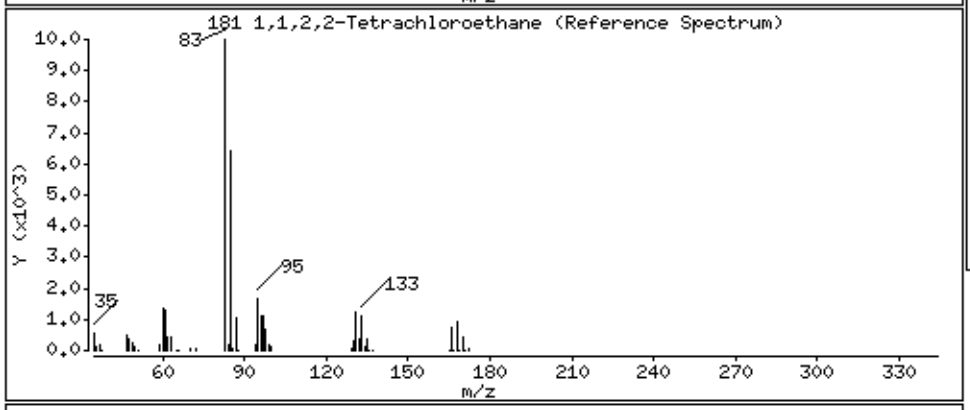
Column diameter: 0.25

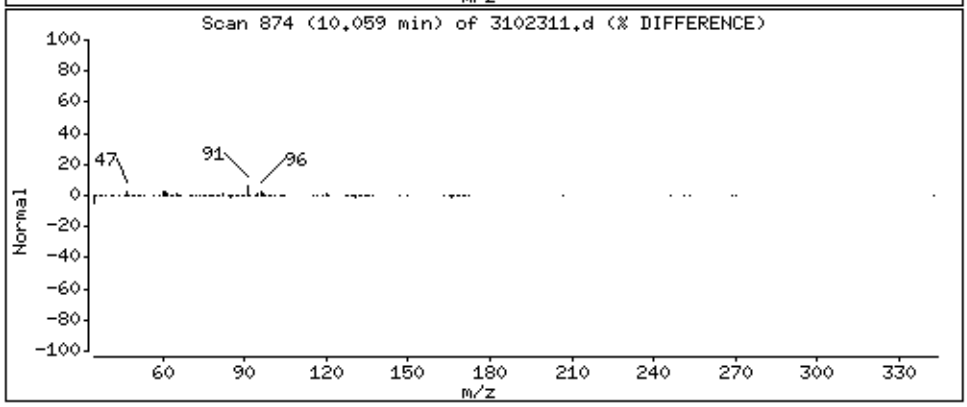
181 1,1,2,2-Tetrachloroethane

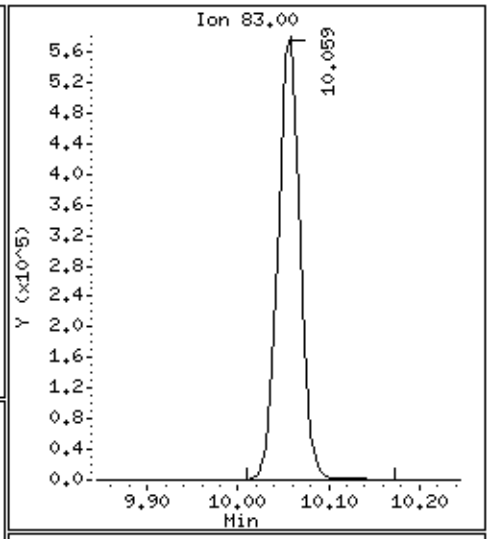
Concentration: 54.776 PPBV

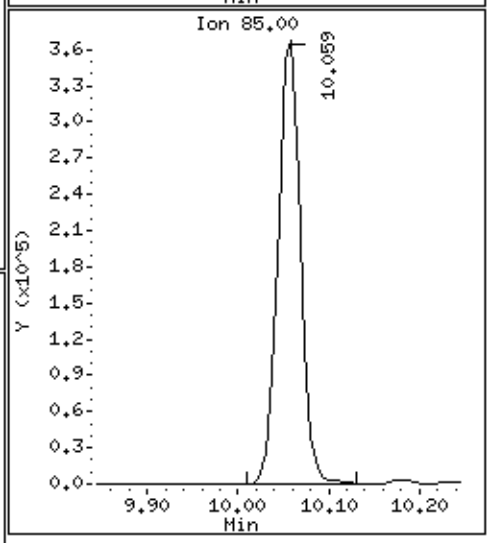












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

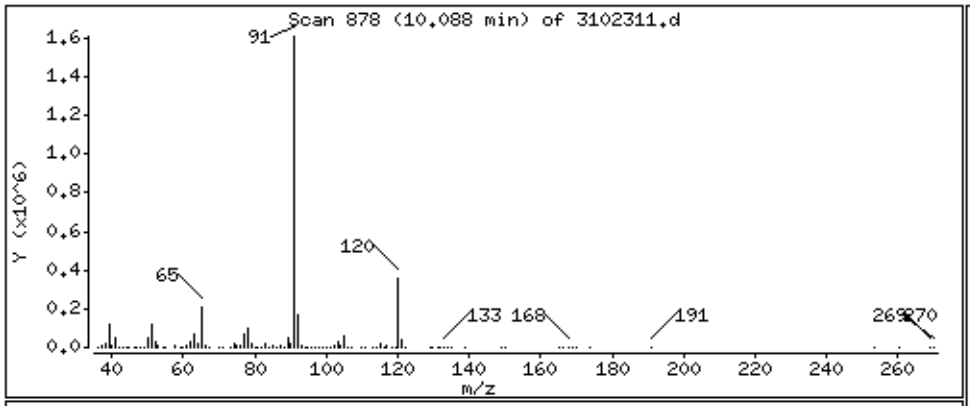
Operator: cb

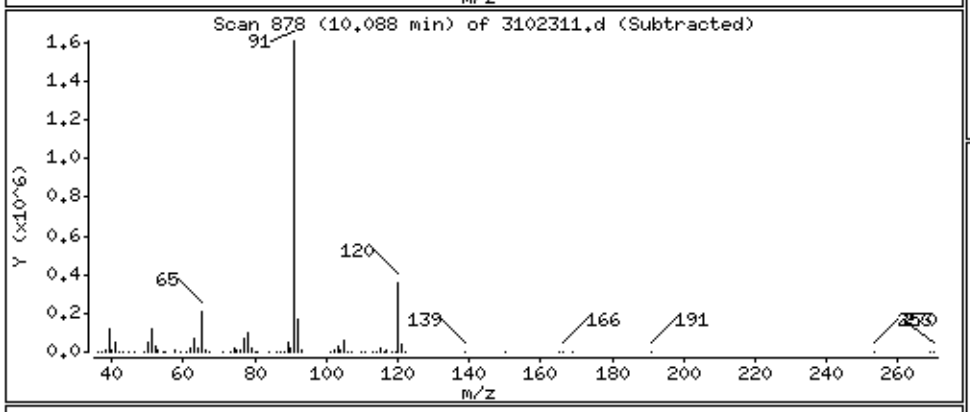
Column phase: RTX-624

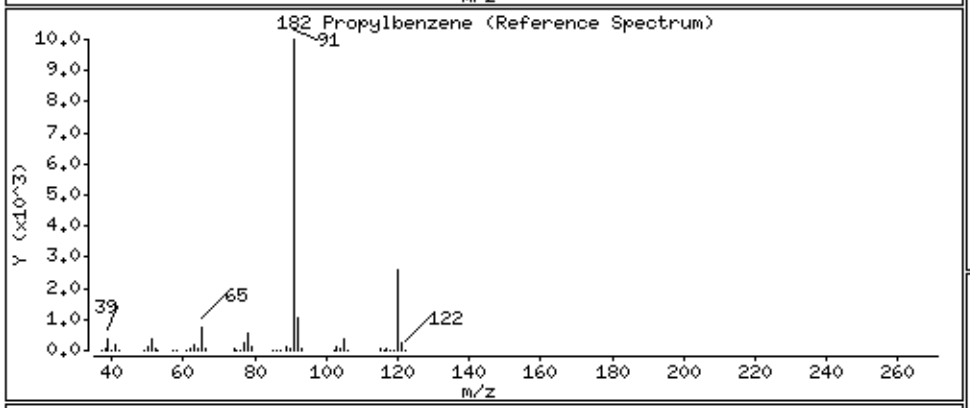
Column diameter: 0.25

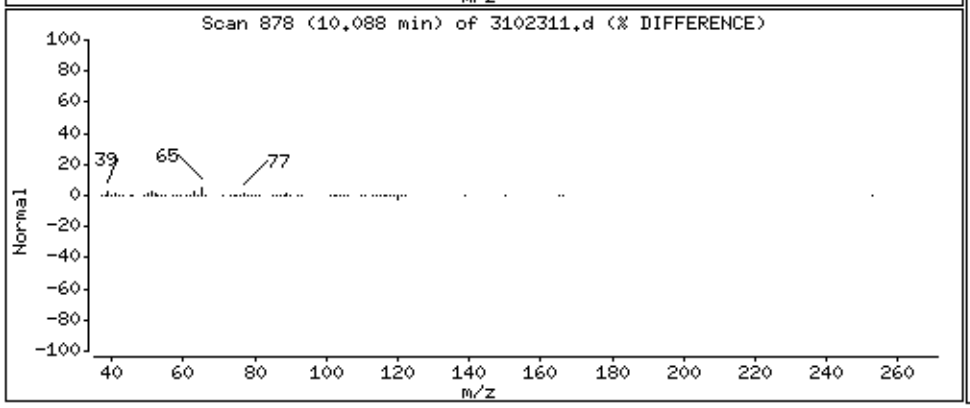
182 Propylbenzene

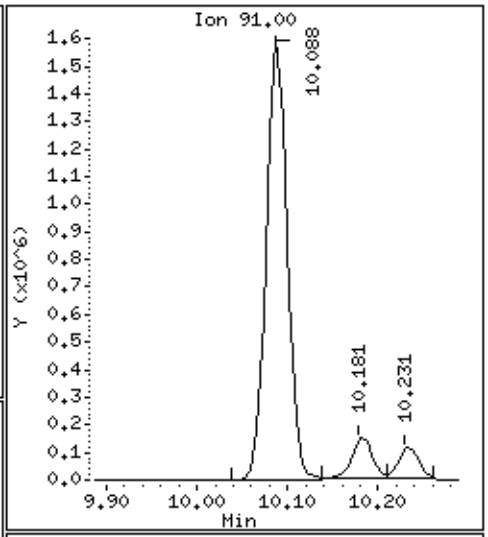
Concentration: 56.023 PPBV

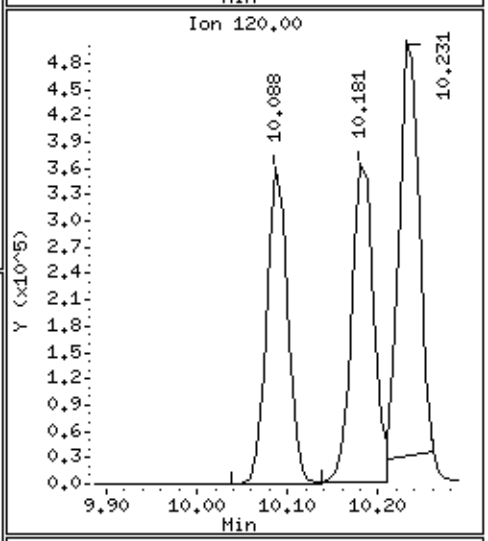


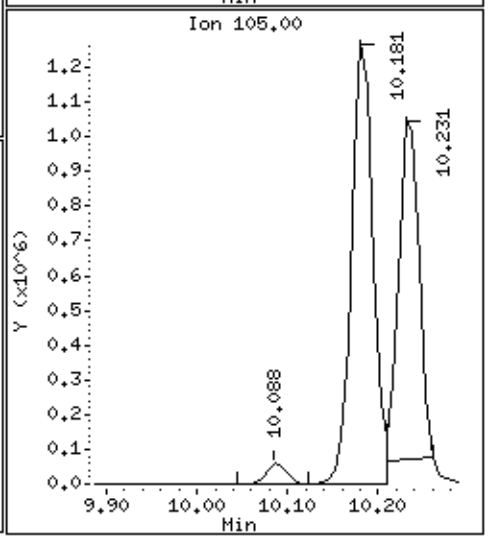












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

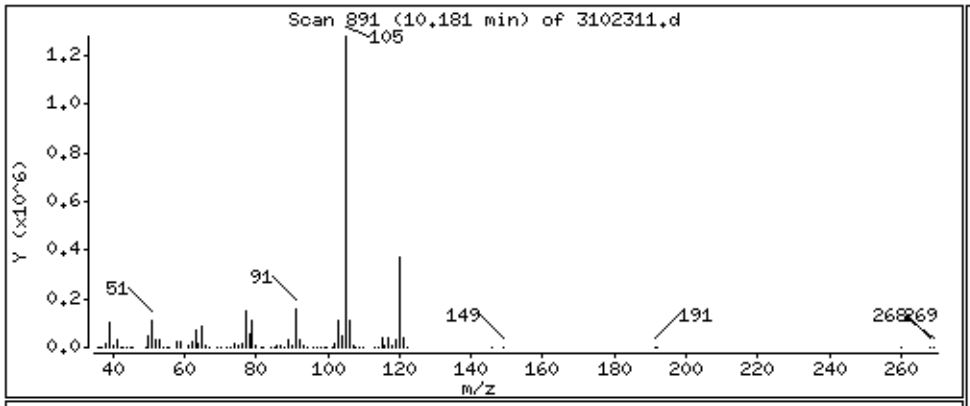
Operator: cb

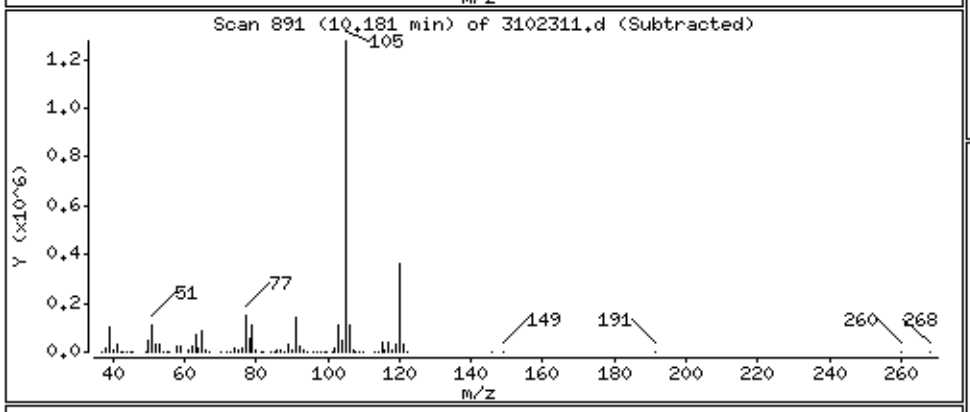
Column phase: RTX-624

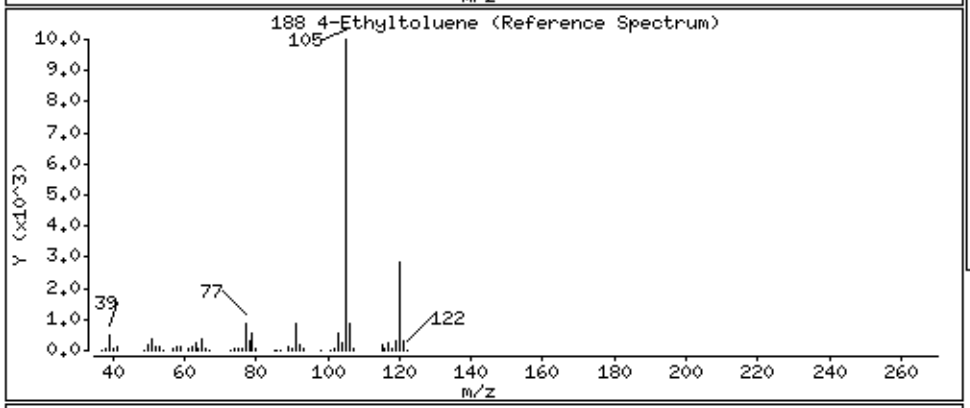
Column diameter: 0.25

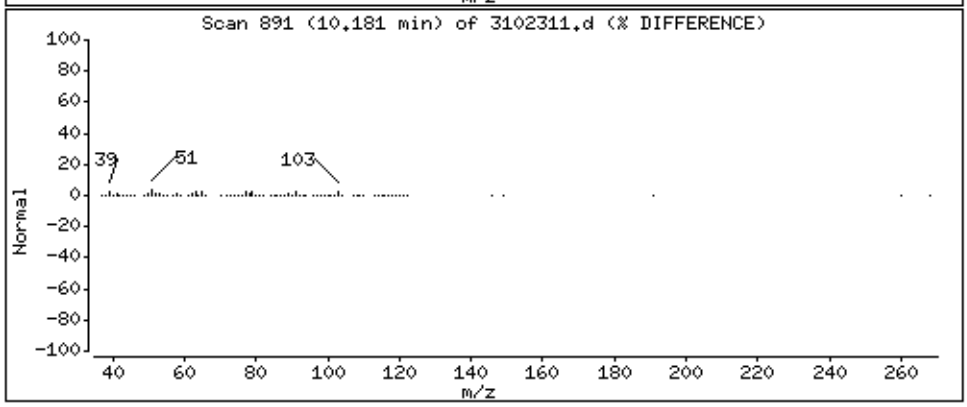
188 4-Ethyltoluene

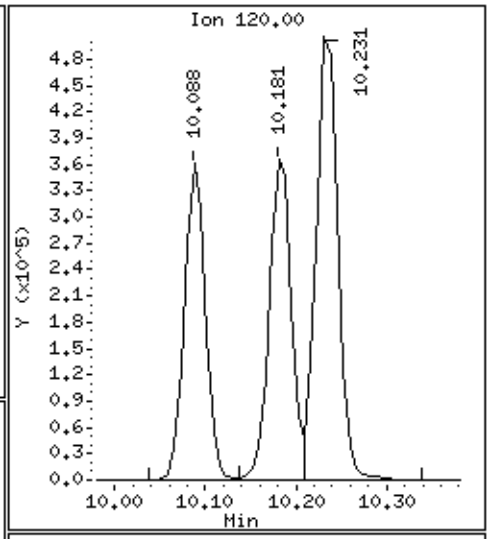
Concentration: 53.691 PPBV

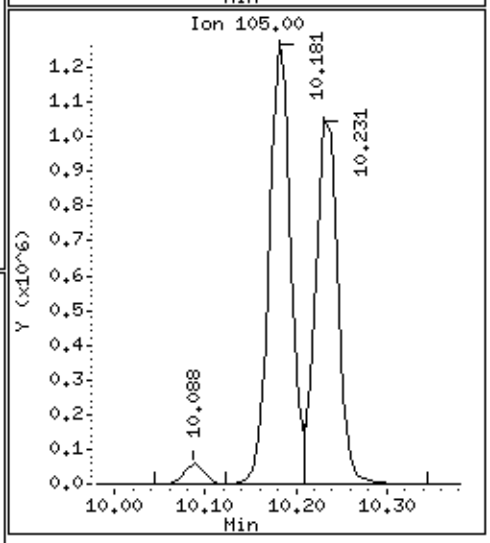












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

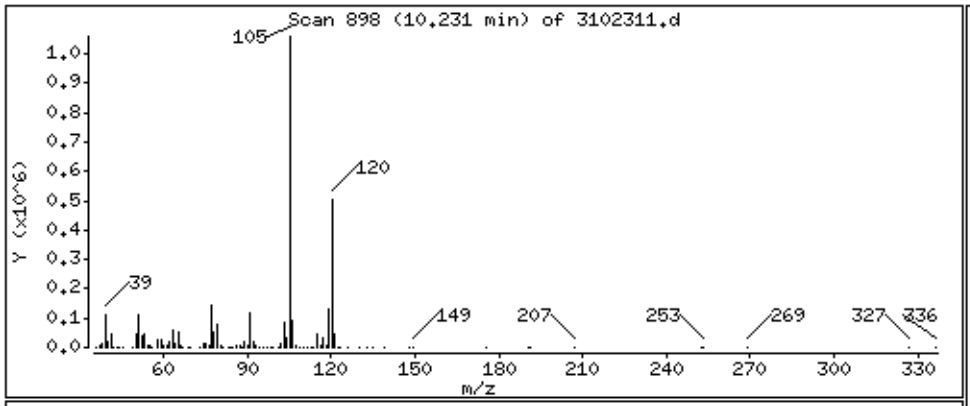
Operator: cb

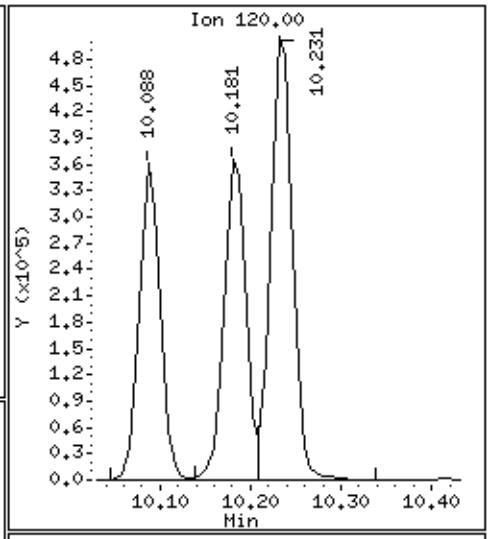
Column phase: RTX-624

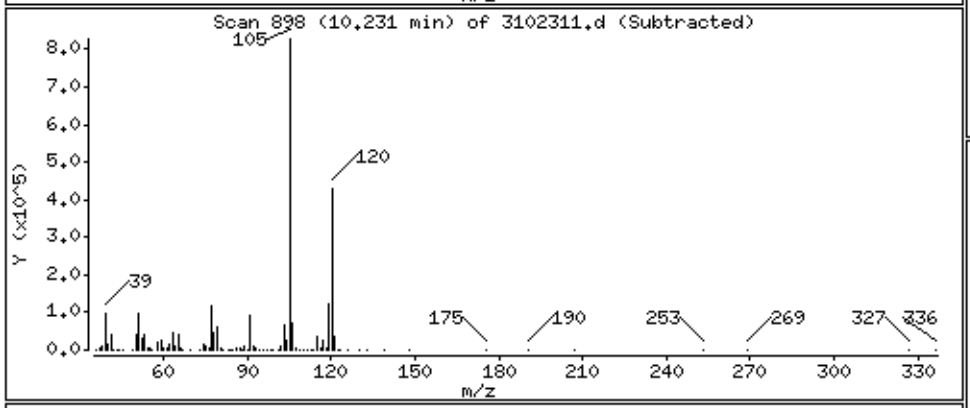
Column diameter: 0.25

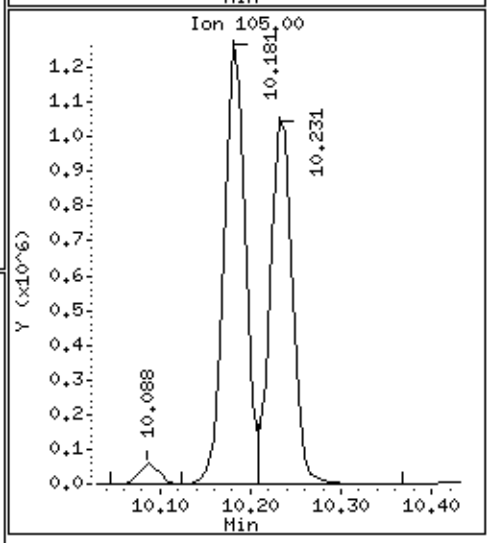
190 1,3,5-Trimethylbenzene

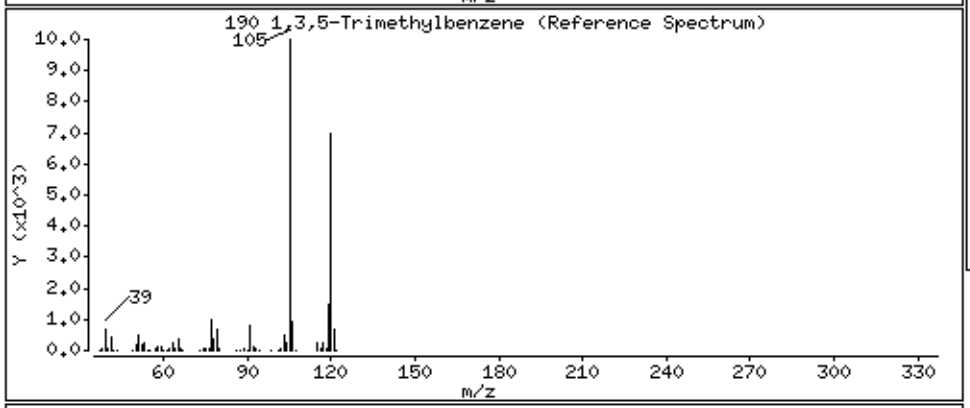
Concentration: 51.855 PPBV

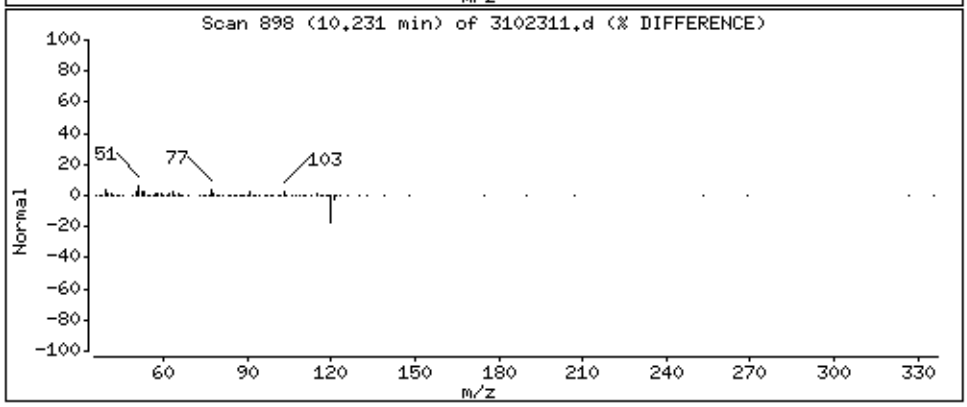












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

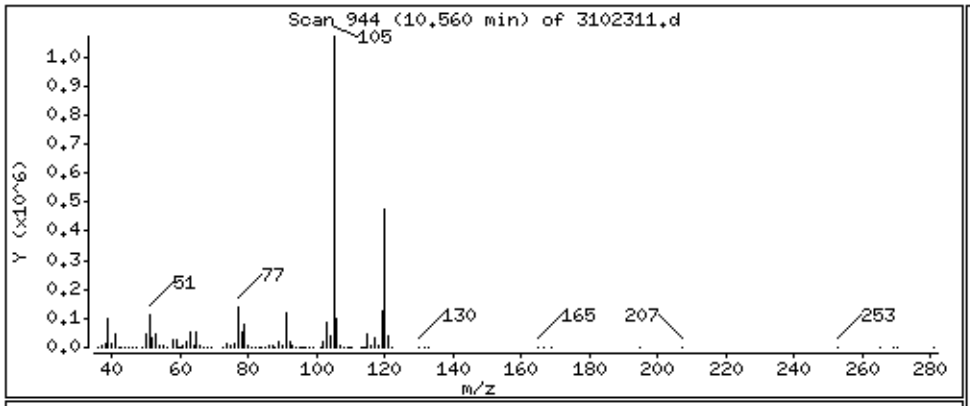
Operator: cb

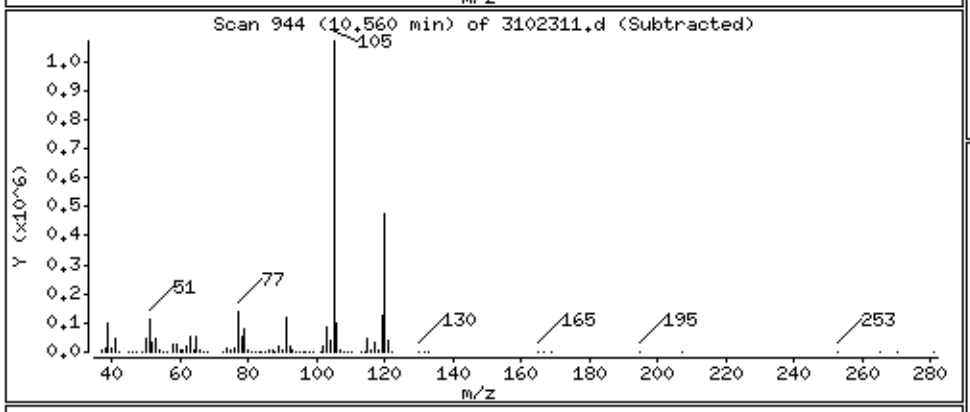
Column phase: RTX-624

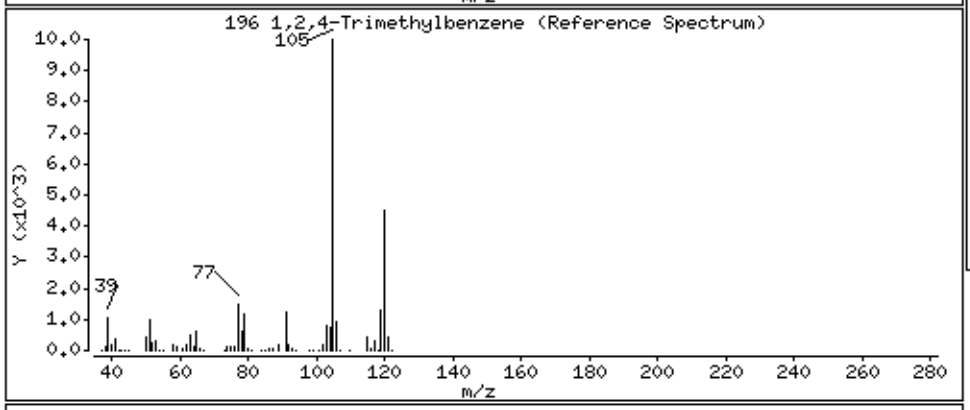
Column diameter: 0.25

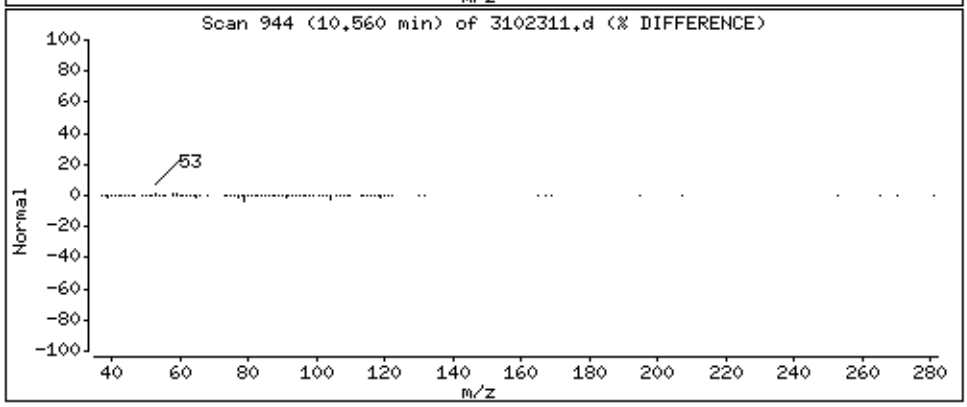
196 1,2,4-Trimethylbenzene

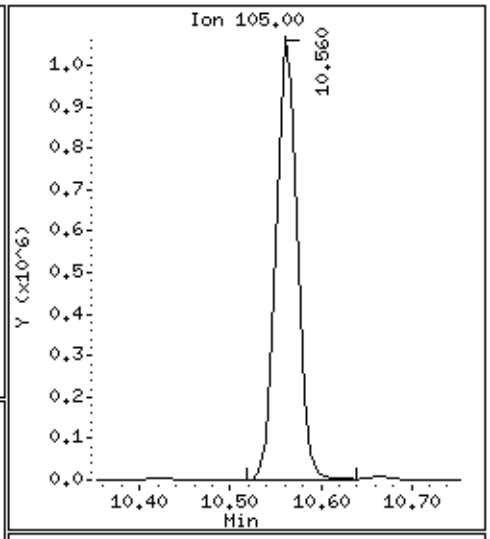
Concentration: 52.035 PPBV

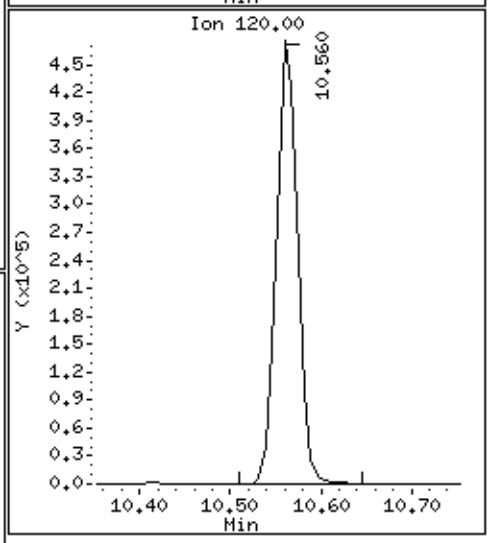












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

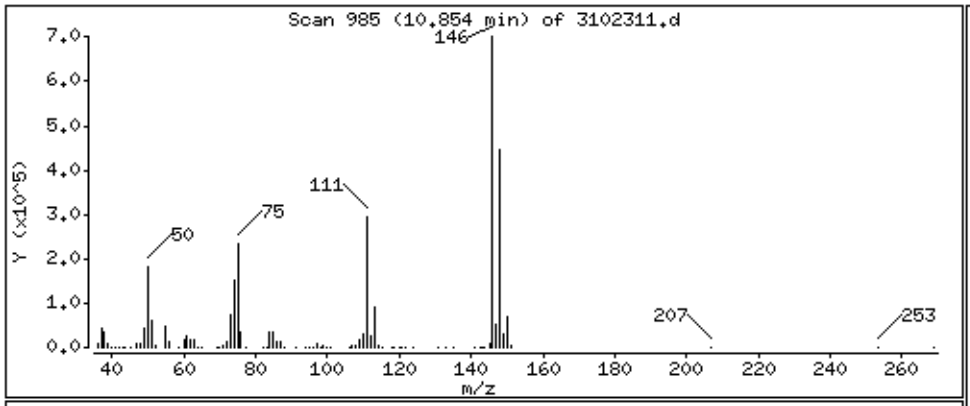
Operator: cb

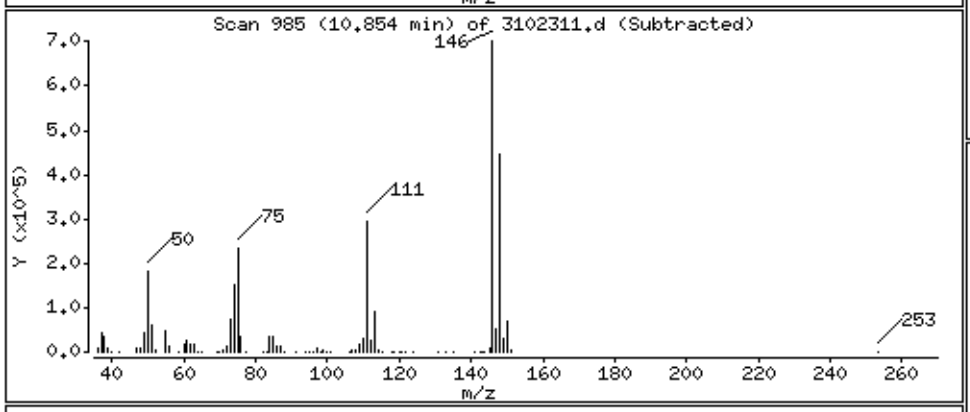
Column phase: RTX-624

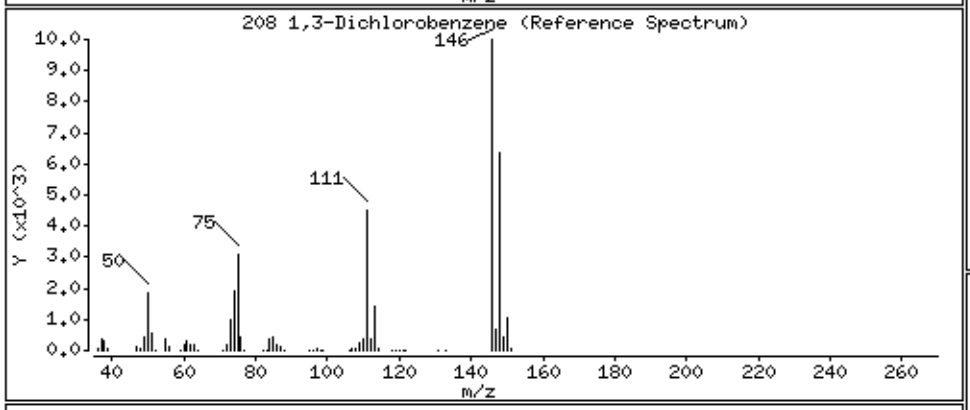
Column diameter: 0.25

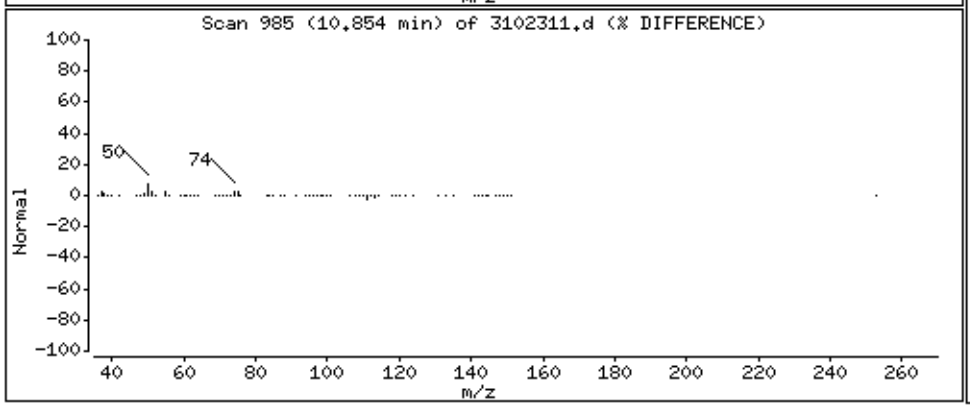
208 1,3-Dichlorobenzene

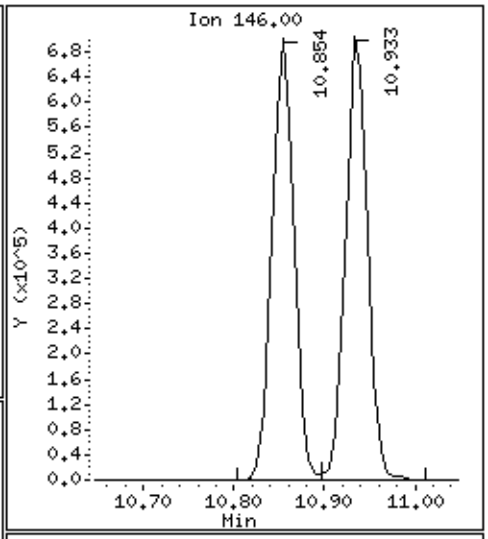
Concentration: 54.358 PPBV

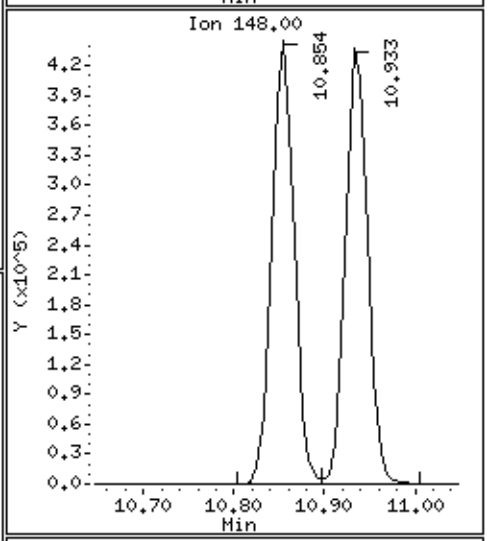


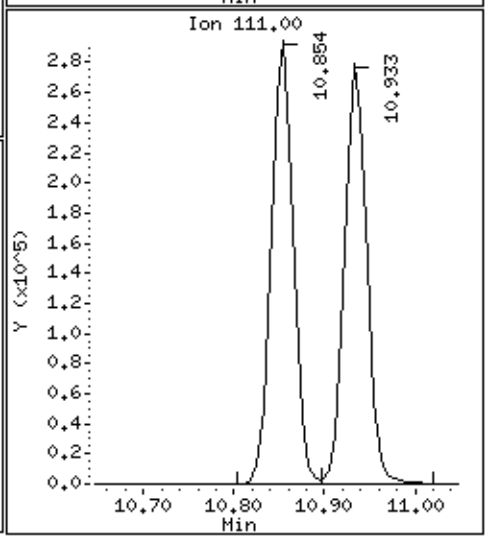












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

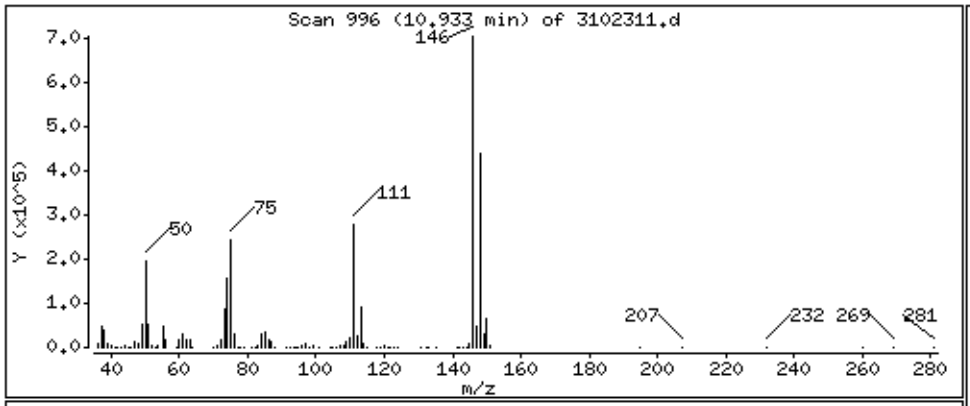
Operator: cb

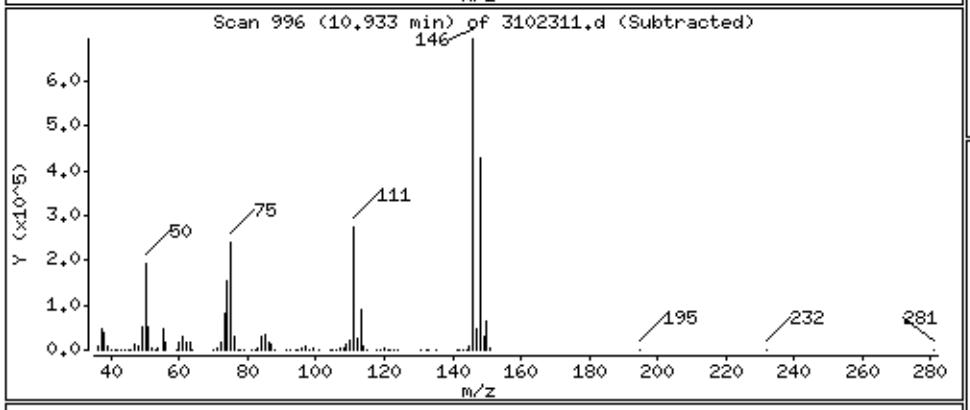
Column phase: RTX-624

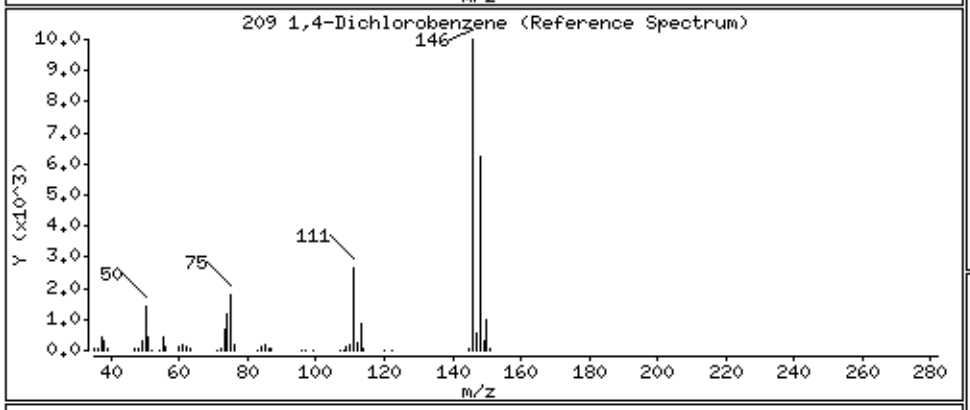
Column diameter: 0.25

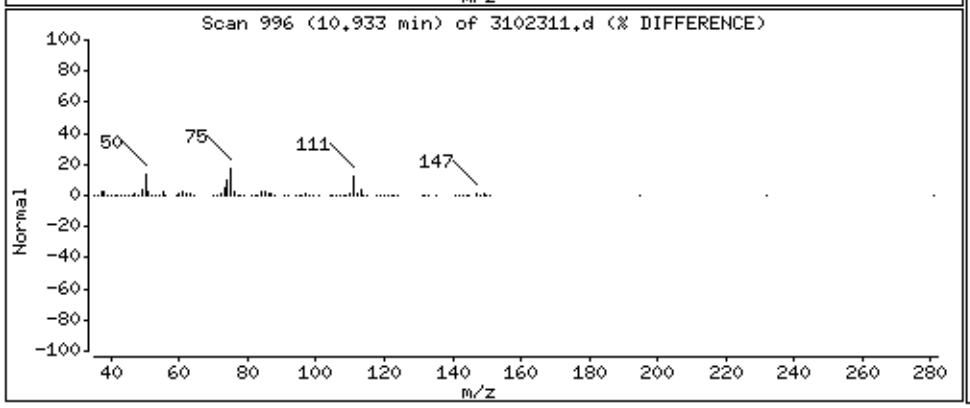
209 1,4-Dichlorobenzene

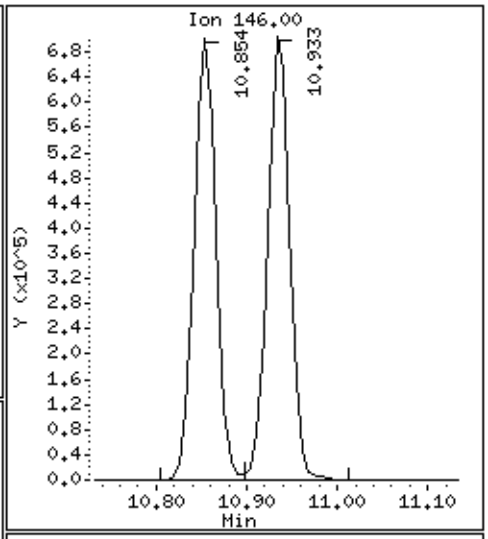
Concentration: 52.242 PPBV

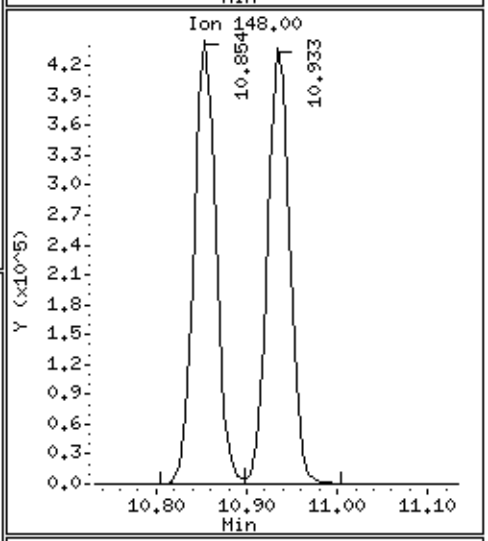


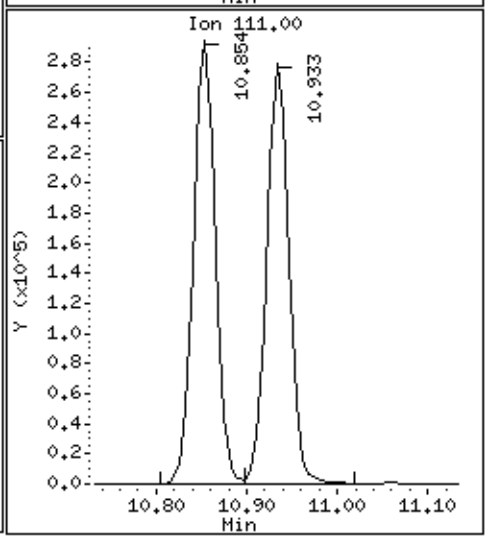












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

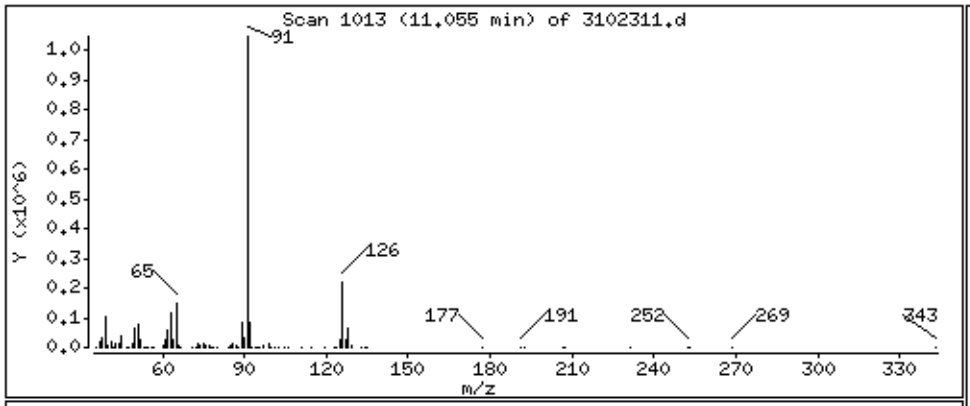
Operator: cb

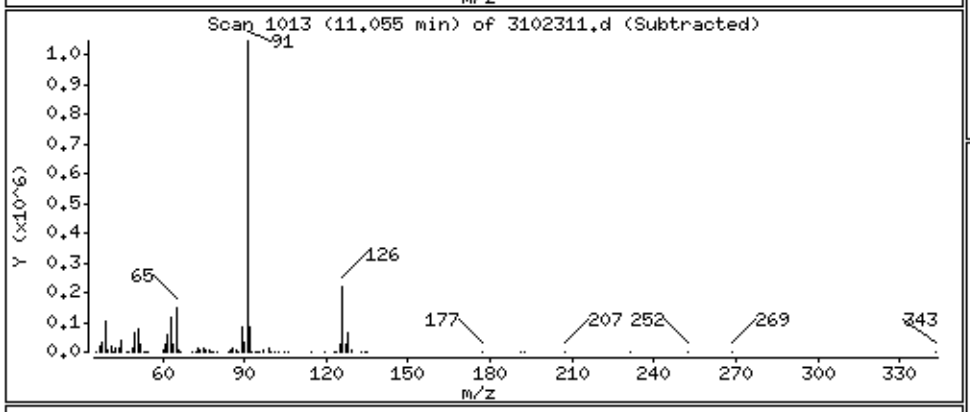
Column phase: RTX-624

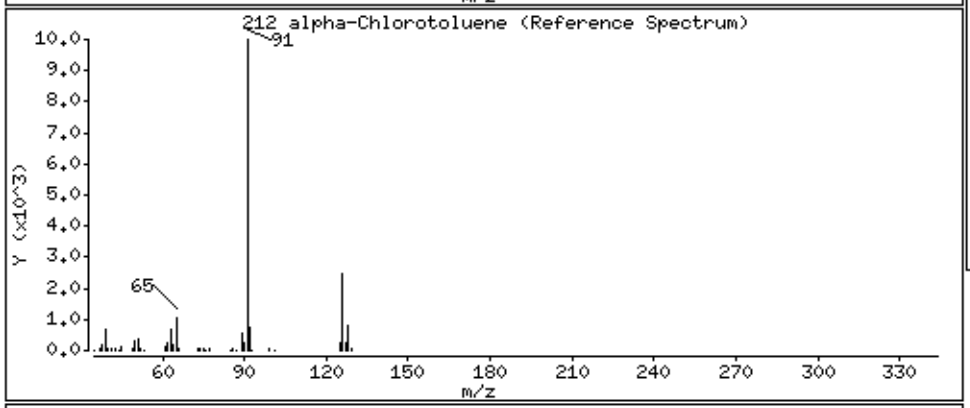
Column diameter: 0.25

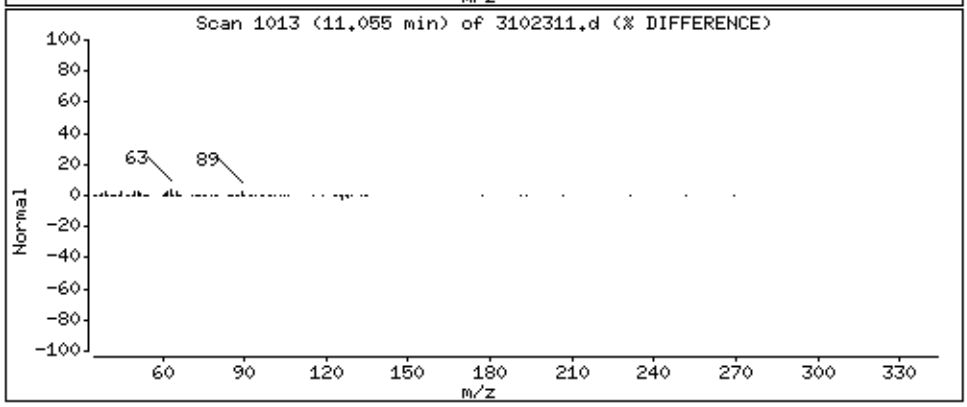
212 alpha-Chlorotoluene

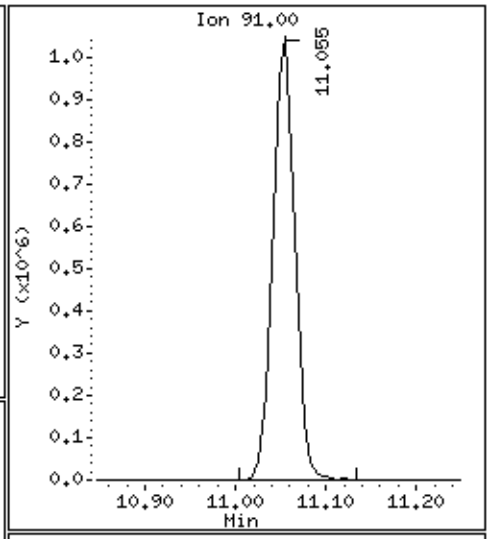
Concentration: 55.612 PPBV

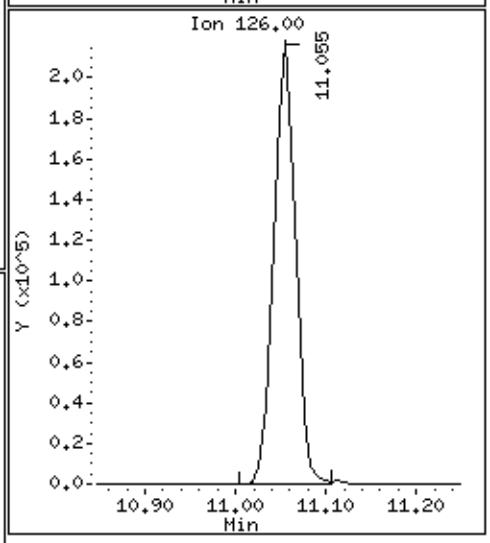












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

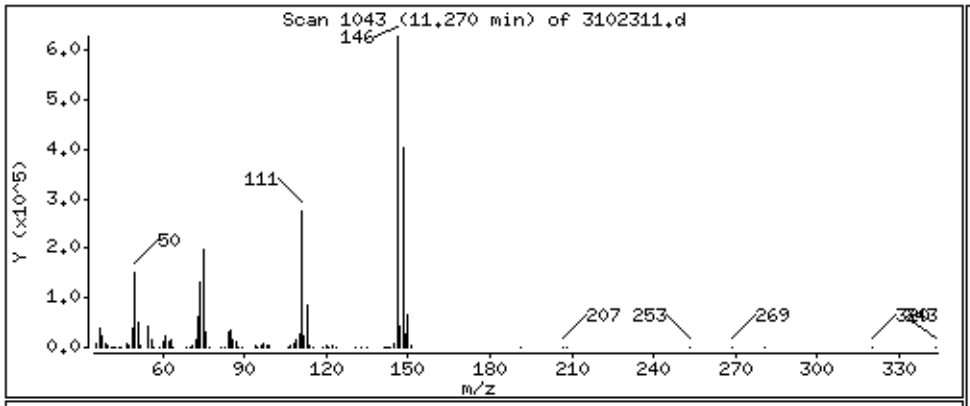
Operator: cb

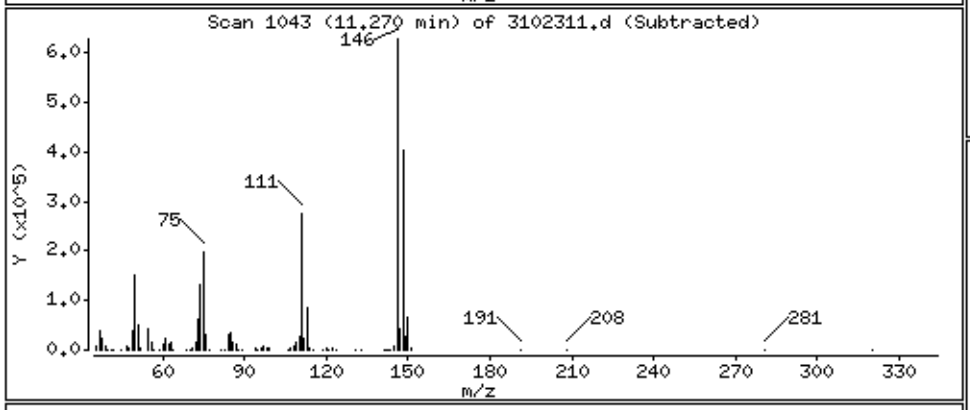
Column phase: RTX-624

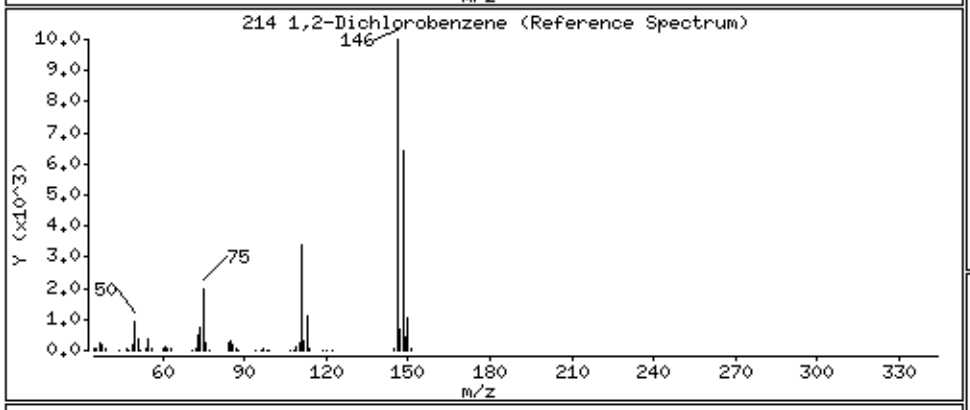
Column diameter: 0.25

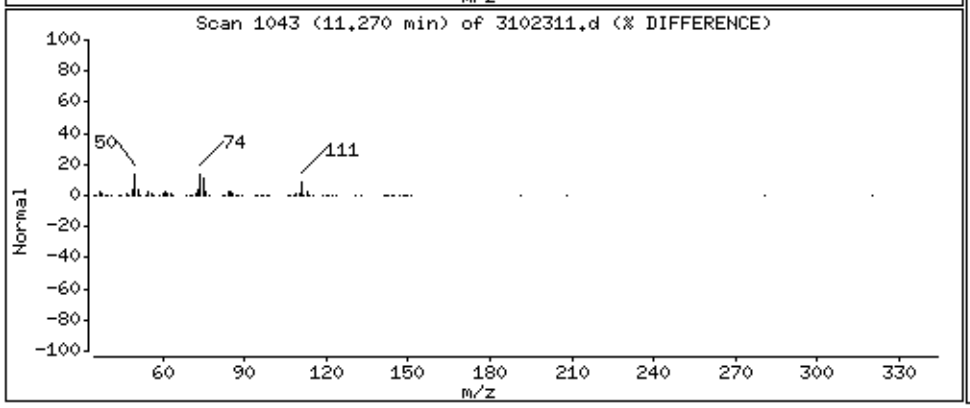
214 1,2-Dichlorobenzene

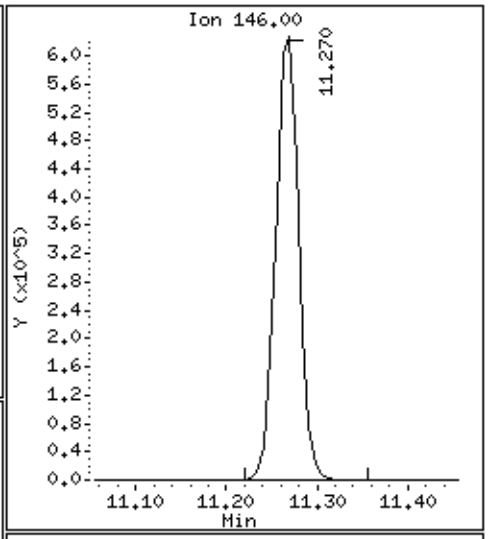
Concentration: 54.096 PPBV

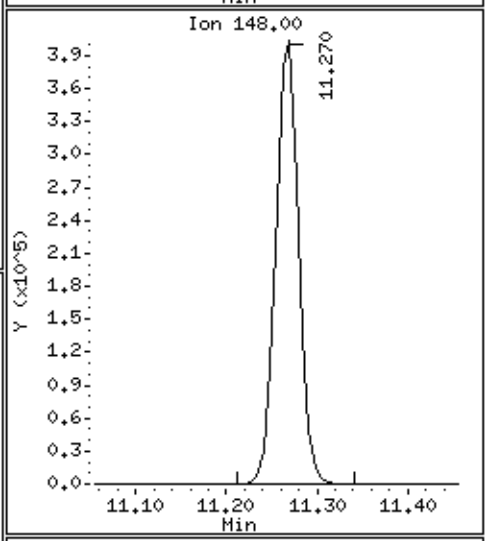


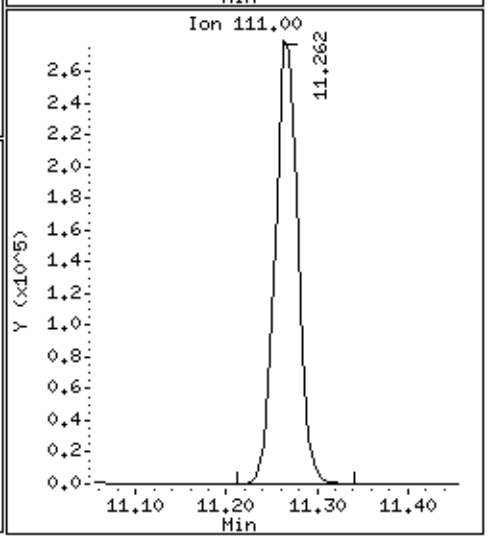












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

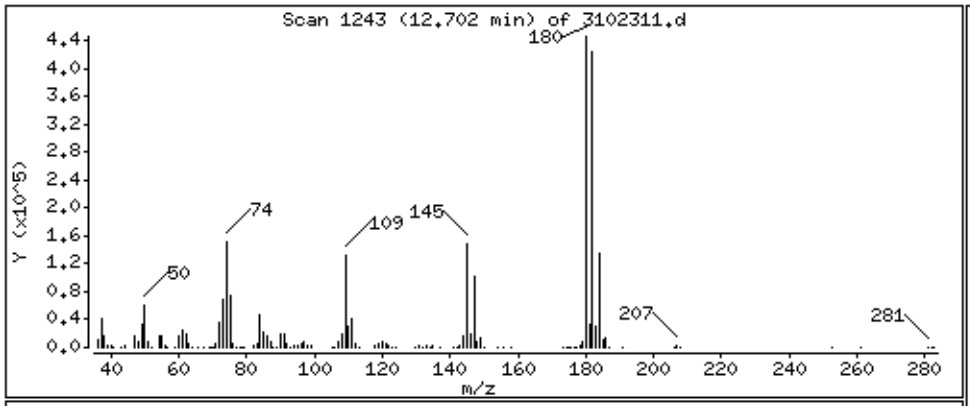
Operator: cb

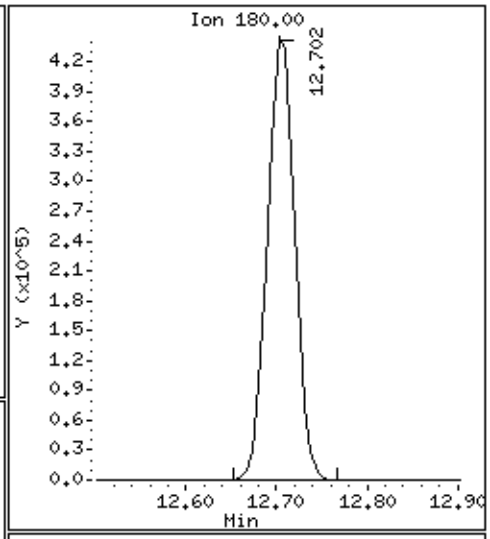
Column phase: RTX-624

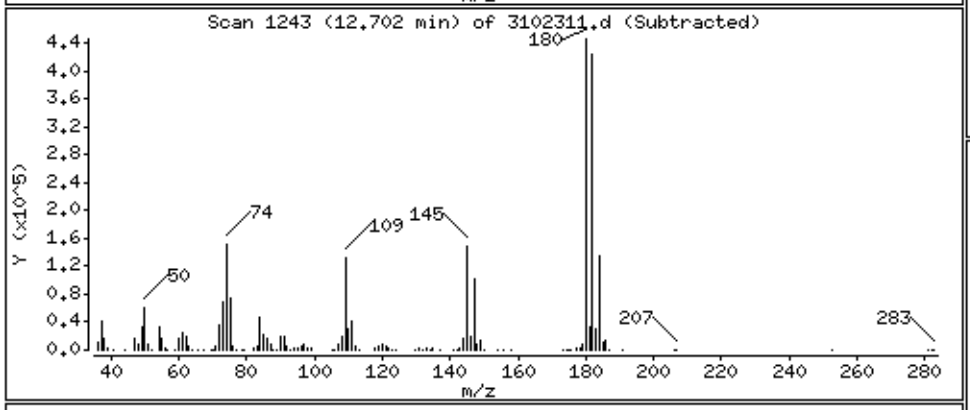
Column diameter: 0.25

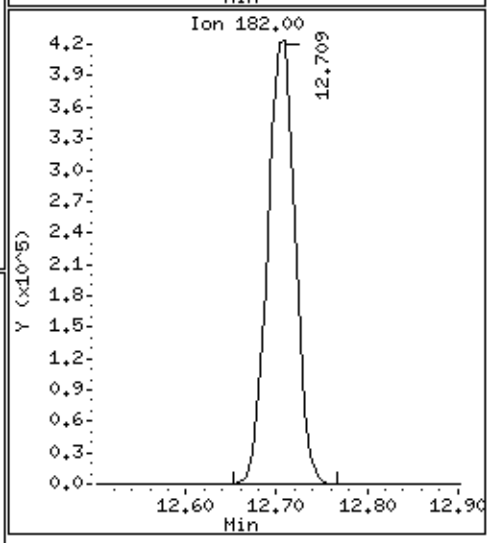
226 1,2,4-Trichlorobenzene

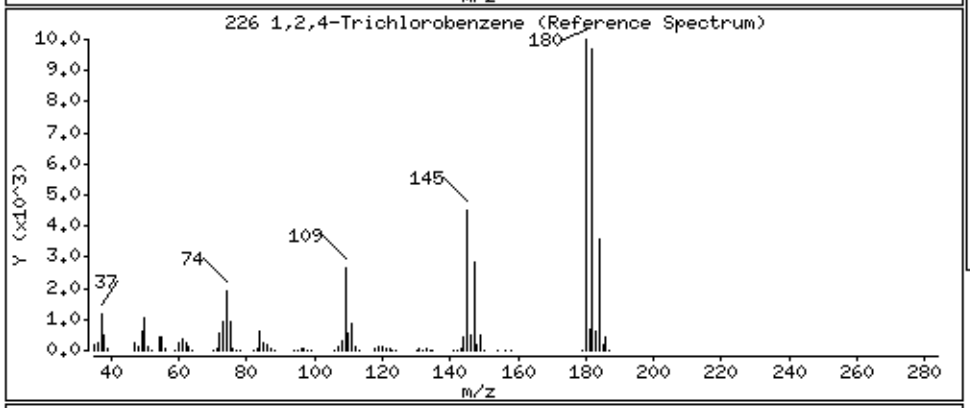
Concentration: 51.706 PPBV

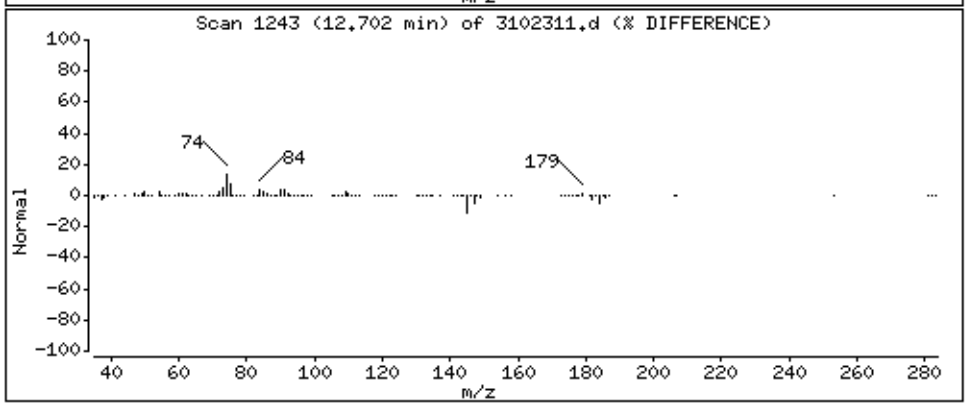












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

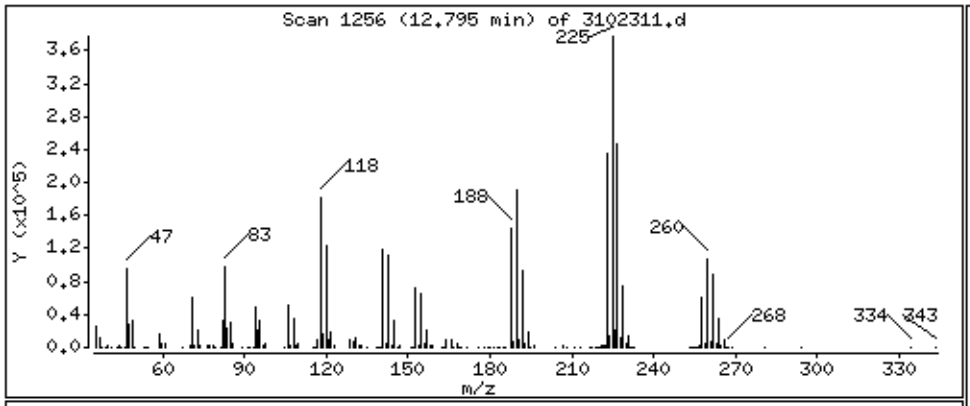
Operator: cb

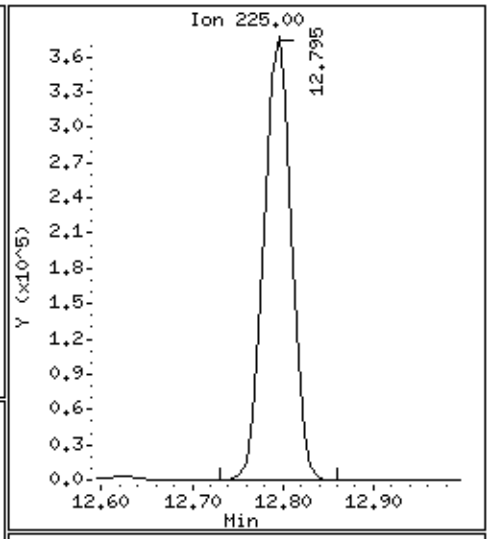
Column phase: RTX-624

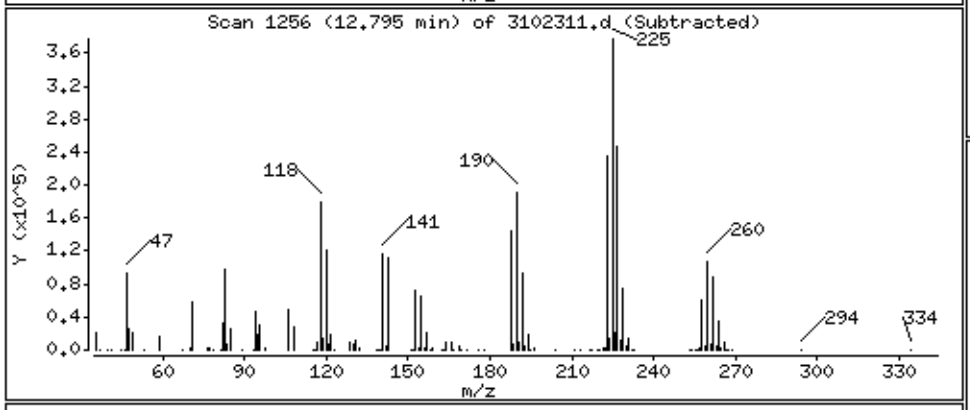
Column diameter: 0.25

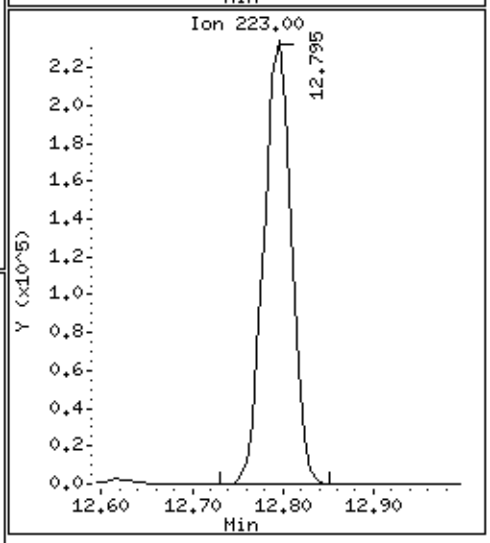
227 Hexachlorobutadiene

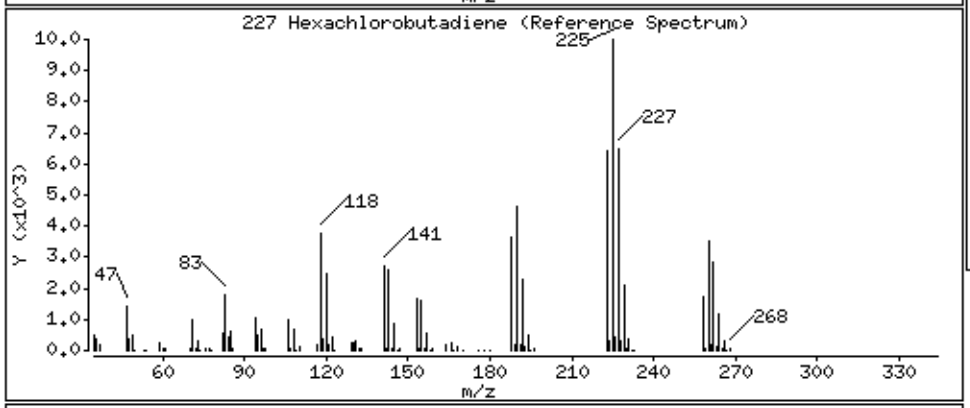
Concentration: 52.097 PPBV

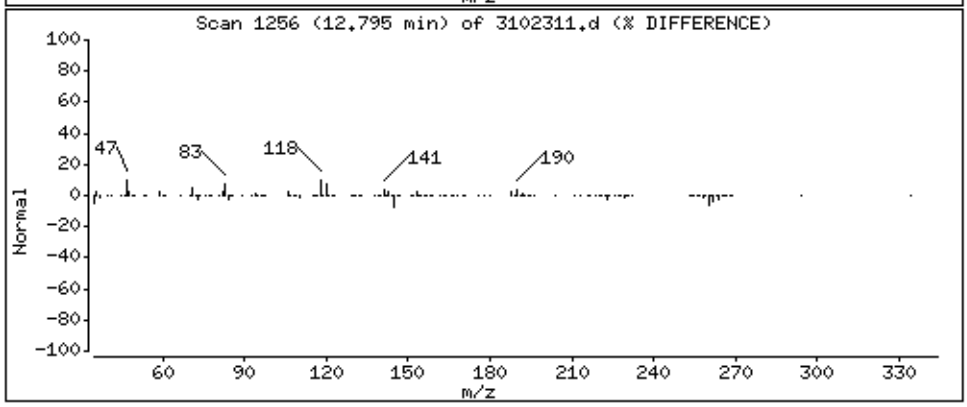












Data File: /chem/msd3.i/23oct15.b/3102311.d

Date : 23-OCT-2015 16:16

Client ID: ICV

Instrument: msd3.i

Sample Info: 50mL #2736-272

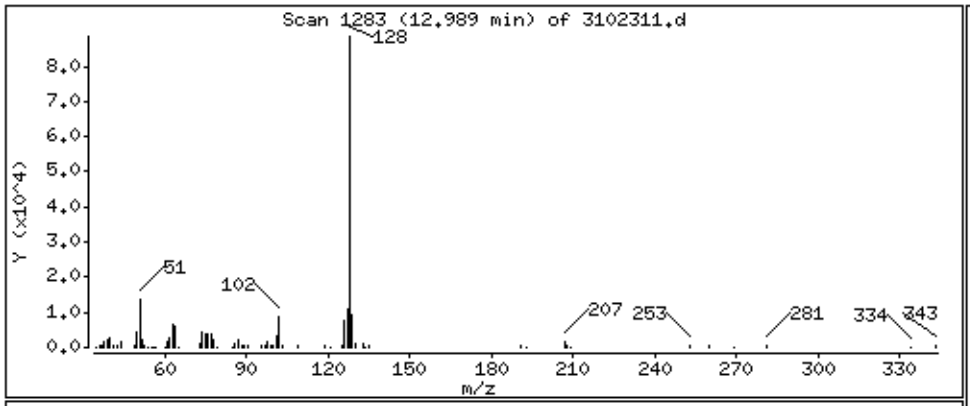
Operator: cb

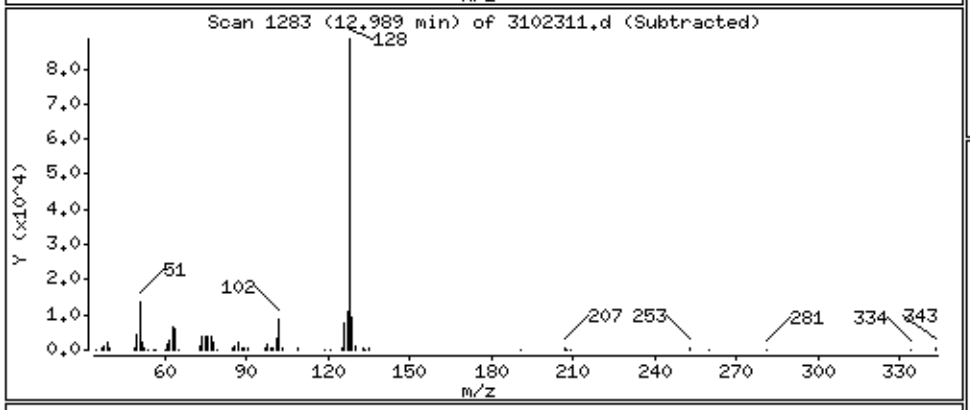
Column phase: RTX-624

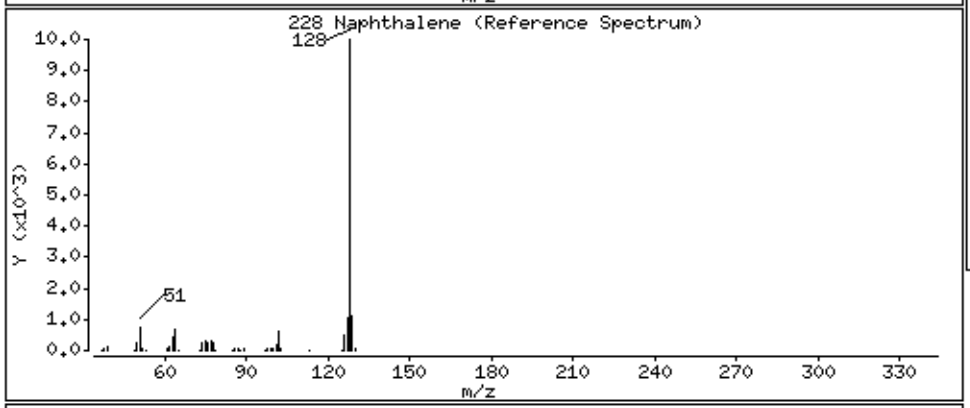
Column diameter: 0.25

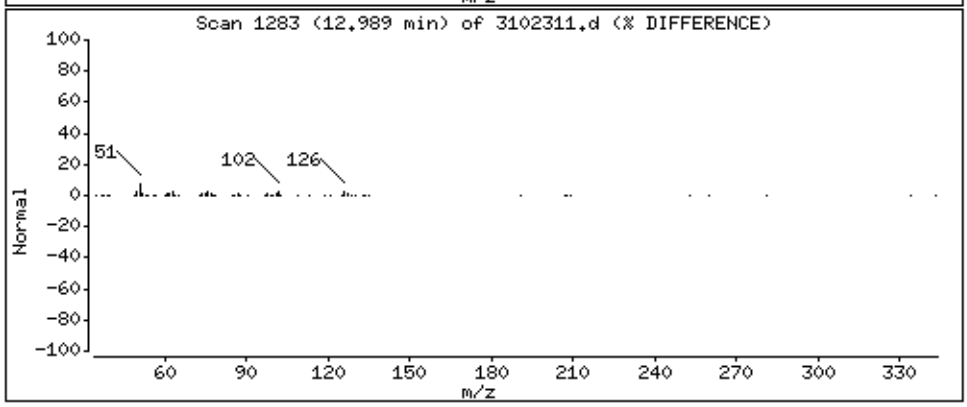
228 Naphthalene

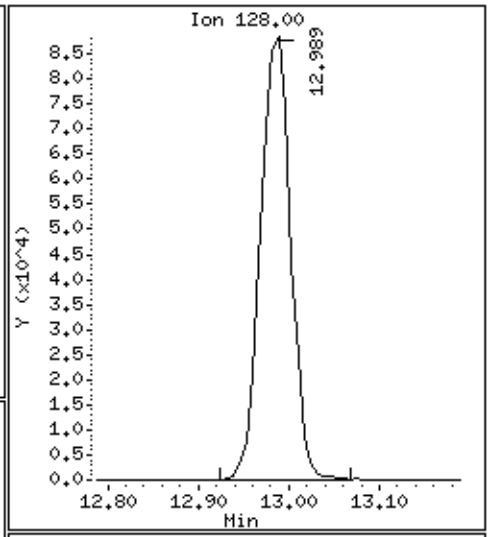
Concentration: 4.360 PPBV

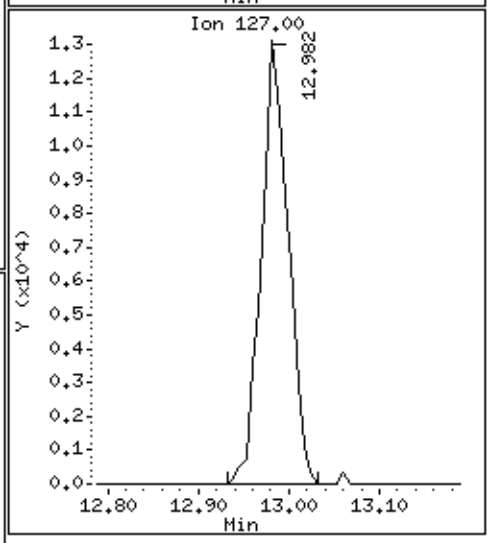












Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102310.d
Lab Smp Id: ICAL Level 2
Inj Date : 23-OCT-2015 15:51
Operator : cb Inst ID: msd3.i
Smp Info : 20mL #2759-25
Misc Info : 0.5ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 16:16 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 14 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	142650	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	107696			42.88- 102.88	75.50
5.592	5.592 (1.000)	49	325773			207.65- 267.65	228.37
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.474	6.474 (1.000)	114	617662	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	106169			0.00- 45.78	17.19
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	577236	25.0000		80.00- 120.00	100.00
8.934	8.934 (1.000)	82	332926			26.67- 86.67	57.68
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	290610	25.0000	23.319	80.00- 120.00	100.00
6.124	6.124 (1.095)	67	132454			22.68- 82.68	45.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.190)	98	640079	25.0000	24.140	80.00- 120.00	100.00
7.702	7.702 (1.190)	70	73388			0.00- 41.75	11.47
7.702	7.702 (1.190)	100	416228			34.13- 94.13	65.03
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	363471	25.0000	25.494	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	457117			96.73- 156.73	125.76
9.930	9.930 (1.111)	176	339312			65.47- 125.47	93.35
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	6595	0.50000	0.4425	80.00- 120.00	100.00(a)
1.605	1.605 (0.287)	87	2329			2.62- 62.62	35.31
15 Freon 114					CAS #: 76-14-2		
1.730	1.730 (0.309)	135	5216	0.50000	0.5247	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	1418			1.99- 61.99	27.19
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	3156	0.50000	0.5423	80.00- 120.00	100.00
1.940	1.940 (0.347)	64	1085			0.00- 58.77	34.38
26 1,3-Butadiene					CAS #: 106-99-0		
1.954	1.954 (0.349)	54	3864	0.50000	0.5996	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	4370			79.69- 139.69	113.10
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	10301	0.50000	0.5541	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	5686			33.61- 93.61	55.20
49 Freon 113					CAS #: 76-13-1		
3.381	3.381 (0.605)	151	5636	0.50000	0.5554	80.00- 120.00	100.00
3.381	3.381 (0.605)	153	2929			35.19- 95.19	51.97
3.381	3.381 (0.605)	101	7346			88.07- 148.07	130.34
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.395	3.395 (0.607)	96	2905	0.50000	0.5814	80.00- 120.00	100.00
3.395	3.395 (0.607)	98	1614			35.15- 95.15	55.56
3.395	3.395 (0.607)	61	5430			221.75- 281.75	186.92
66 Methylene Chloride					CAS #: 75-09-2		
4.039	4.039 (0.722)	49	6701	0.50000	0.5672	80.00- 120.00	100.00(a)
4.053	4.053 (0.725)	84	2447			9.02- 69.02	36.52
4.053	4.053 (0.725)	51	3278			0.00- 59.58	48.92
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	9577	0.50000	0.5499	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether (continued)							
4.277	4.277 (0.765)	57	3857			2.00- 62.00	40.27
4.277	4.277 (0.765)	41	3972			3.65- 63.65	41.47
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	1584	0.50000	0.4614	80.00- 120.00	100.00(a)
4.291	4.291 (0.767)	61	5535			296.65- 356.65	349.43
4.291	4.291 (0.767)	96	3230			124.62- 184.62	203.91
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	7559	0.50000	0.5626	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	5363			44.95- 104.95	70.95
4.487	4.487 (0.802)	86	760			0.00- 40.12	10.05
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	6577	0.50000	0.5000	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	2168			0.00- 58.92	32.96
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	2011	0.50000	0.5065	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	3162			121.93- 181.93	157.24
5.354	5.354 (0.957)	61	5487			268.28- 328.28	272.85
99 Tetrahydrofuran					CAS #: 109-99-9		
5.606	5.606 (1.002)	42	6249	0.50000	0.5212	80.00- 120.00	100.00
5.606	5.606 (1.002)	71	1228			0.00- 49.93	19.65
5.592	5.592 (1.000)	72	1532			0.00- 50.49	24.52
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	5900	0.50000	0.4366	80.00- 120.00	100.00(a)
5.648	5.648 (1.010)	85	4600			34.28- 94.28	77.97
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	4181	0.50000	0.5395	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	9089			165.55- 225.55	217.39
5.760	5.760 (1.030)	41	5125			88.39- 148.39	122.58
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	7218	0.50000	0.4550	80.00- 120.00	100.00(a)
5.788	5.788 (1.035)	99	5507			33.59- 93.59	76.30
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.886	5.886 (1.053)	119	8813	0.50000	0.5031	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	9038			75.03- 135.03	102.55
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.082	6.082 (1.088)	57	23197	0.50000	0.4992	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
113 2,2,4-Trimethylpentane (continued)							
6.082	6.082 (1.088)	56	8276			2.46- 62.46	35.68
6.082	6.082 (1.088)	41	8818			0.00- 55.56	38.01
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.944)	78	9703	0.50000	0.5680	80.00- 120.00	100.00
6.110	6.110 (0.944)	77	2820			0.00- 54.02	29.06
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.957)	62	6591	0.50000	0.5137	80.00- 120.00	100.00
6.194	6.194 (0.957)	64	1703			0.97- 60.97	25.84
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.965)	71	4180	0.50000	0.6353	80.00- 120.00	100.00
6.250	6.250 (0.965)	43	11168			309.54- 369.54	267.18
6.250	6.250 (0.965)	57	5390			143.16- 203.16	128.95
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.033)	95	4649	0.50000	0.5406	80.00- 120.00	100.00
6.678	6.678 (1.032)	130	4750			68.86- 128.86	102.17
6.678	6.678 (1.032)	97	3560			32.82- 92.82	76.58
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.048)	83	6065	0.50000	0.5584	80.00- 120.00	100.00(a)
6.778	6.778 (1.047)	98	2966			17.65- 77.65	48.90
6.771	6.771 (1.046)	55	9530			110.81- 170.81	157.13
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.069)	63	4785	0.50000	0.5368	80.00- 120.00	100.00
6.914	6.914 (1.068)	62	2609			41.59- 101.59	54.52
6.914	6.914 (1.068)	41	4001			40.69- 100.69	83.62
138 Bromodichloromethane					CAS #: 75-27-4		
7.136	7.136 (1.102)	83	7794	0.50000	0.4890	80.00- 120.00	100.00(a)
7.151	7.151 (1.105)	85	5302			34.24- 94.24	68.03
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.162)	75	6599	0.50000	0.5179	80.00- 120.00	100.00
7.523	7.523 (1.162)	77	1764			2.36- 62.36	26.73
7.523	7.523 (1.162)	39	5104			46.86- 106.86	77.35
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.638 (1.180)	58	6191	0.50000	0.6216	80.00- 120.00	100.00
7.631	7.631 (1.179)	43	17766			274.73- 334.73	286.96
7.631	7.631 (1.179)	85	1316			0.00- 58.76	21.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.199)	91	11896	0.50000	0.5028	80.00- 120.00	100.00
7.760	7.760 (1.199)	92	7778			27.05- 87.05	65.38
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.996	7.996 (0.894)	75	5622	0.50000	0.4885	80.00- 120.00	100.00(a)
7.996	7.996 (0.894)	77	1297			0.84- 60.84	23.07
7.996	7.996 (0.894)	39	3751			38.83- 98.83	66.72
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.161	8.161 (0.913)	97	4174	0.50000	0.5308	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	2643			32.22- 92.22	63.32
8.154	8.154 (0.912)	83	4016			54.60- 114.60	96.21
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	6051	0.50000	0.5373	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	5035			47.11- 107.11	83.21
8.189	8.189 (0.916)	131	4599			43.50- 103.50	76.00
158 2-Hexanone					CAS #: 591-78-6		
8.326	8.326 (0.931)	58	6248	0.50000	0.5011	80.00- 120.00	100.00(a)
8.326	8.326 (0.931)	43	15231			189.79- 249.79	243.77
8.326	8.326 (0.931)	100	1155			0.00- 43.05	18.49
160 Dibromochloromethane					CAS #: 124-48-1		
8.476	8.476 (0.948)	129	8226	0.50000	0.5131	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	6471			46.79- 106.79	78.67
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.583	8.583 (0.960)	107	5994	0.50000	0.4754	80.00- 120.00	100.00(a)
8.591	8.591 (0.961)	109	5644			64.52- 124.52	94.16
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	11015	0.50000	0.5652	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	4090			2.26- 62.26	37.13
8.934	8.934 (0.999)	77	12826			30.55- 90.55	116.44
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	4610	0.50000	0.4651	80.00- 120.00	100.00(a)
9.013	9.013 (1.008)	91	17337			294.90- 354.90	376.07
169 m,p-Xylene					CAS #: 108-38-3		
9.114	9.114 (1.019)	106	6859	0.50000	0.5508	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	15479			185.23- 245.23	225.67
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	7041	0.50000	0.5819	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
171 o-Xylene (continued)							
9.450	9.450 (1.057)	91	15622			194.61- 254.61	221.87
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	10393	0.50000	0.5216	80.00- 120.00	100.00
9.479	9.479 (1.060)	78	5903			26.13- 86.13	56.80
174 Bromoform					CAS #: 75-25-2		
9.679	9.679 (1.083)	173	9147	0.50000	0.5568	80.00- 120.00	100.00
9.672	9.672 (1.082)	171	5009			22.32- 82.32	54.76
175 Cumene					CAS #: 98-82-8		
9.744	9.744 (1.090)	105	20367	0.50000	0.5309	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	5945			0.00- 56.11	29.19
9.744	9.744 (1.090)	51	3602			0.00- 46.14	17.69
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.045	10.045 (1.123)	83	9940	0.50000	0.5479	80.00- 120.00	100.00
10.045	10.045 (1.123)	85	6140			34.99- 94.99	61.77
182 Propylbenzene					CAS #: 103-65-1		
10.088	10.088 (1.128)	91	24395	0.50000	0.5383	80.00- 120.00	100.00
10.088	10.088 (1.128)	120	6047			0.00- 52.84	24.79
10.088	10.088 (1.128)	105	946			0.00- 33.71	3.88
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.181 (1.139)	120	6750	0.50000	0.5770	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	19339			305.47- 365.47	286.50
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	10158	0.50000	0.6202	80.00- 120.00	100.00
10.224	10.224 (1.143)	105	22604			180.29- 240.29	222.52
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	19032	0.50000	0.5659	80.00- 120.00	100.00
10.560	10.560 (1.181)	120	8690			13.81- 73.81	45.66
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	11188	0.50000	0.5124	80.00- 120.00	100.00
10.854	10.854 (1.214)	148	7715			33.25- 93.25	68.96
10.840	10.840 (1.212)	111	5872			12.53- 72.53	52.48
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.933	10.933 (1.223)	146	13836	0.50000	0.6074	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	7011			32.78- 92.78	50.67
10.919	10.919 (1.221)	111	5196			10.80- 70.80	37.55

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
212 alpha-Chlorotoluene						CAS #: 100-44-7		
11.048	11.048	(1.236)	91	16360	0.50000	0.5142	80.00- 120.00	100.00
11.040	11.040	(1.235)	126	3297			0.00- 49.93	20.15
214 1,2-Dichlorobenzene						CAS #: 95-50-1		
11.255	11.255	(1.259)	146	10371	0.50000	0.5007	80.00- 120.00	100.00
11.262	11.262	(1.260)	148	7073			34.01- 94.01	68.20
11.255	11.255	(1.259)	111	5376			13.60- 73.60	51.84

QC Flag Legend

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

Report Date: 23-Oct-2015 16:16

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102310.d
Lab Smp Id: ICAL Level 2
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 0.5ppbv (5.0ppbv)

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	142650	7.14
123 1,4-Difluorobenze	566731	340039	793423	617662	8.99
163 Chlorobenzene-d5	553811	332287	775335	577236	4.23

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.47	-0.22
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102310.d

Date : 23-OCT-2015 15:51

Client ID:

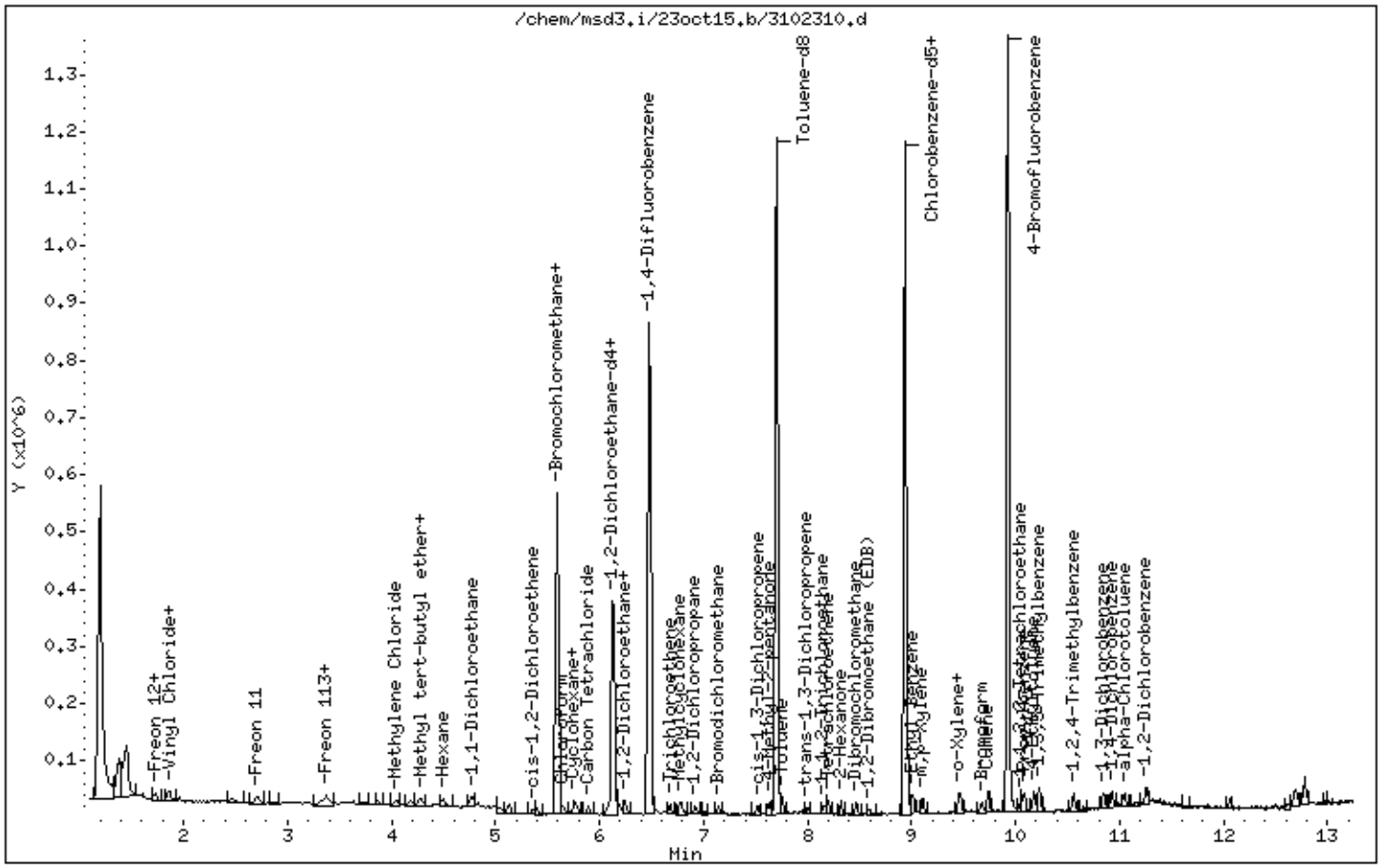
Instrument: msd3.i

Sample Info: 20mL #2759-25

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102303.d
Lab Smp Id: ICAL Level 3
Inj Date : 23-OCT-2015 11:41
Operator : cb Inst ID: msd3.i
Smp Info : 80ml 2736-25
Misc Info : 2.0ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:11 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 11:41 Cal File: 3102303.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12curve.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	126635	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	102238			42.88- 102.88	80.73
5.592	5.592 (1.000)	49	306813			207.65- 267.65	242.28
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	561451	25.0000		80.00- 120.00	100.00
6.488	6.488 (1.000)	88	90959			0.00- 45.78	16.20
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	549872	25.0000		80.00- 120.00	100.00
8.942	8.942 (1.000)	82	318203			26.67- 86.67	57.87
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	277987	25.0000	25.361	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	118571			22.68- 82.68	42.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	604111	25.0000	25.476	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	70578			0.00- 41.75	11.68
7.702	7.702 (1.187)	100	393322			34.13- 94.13	65.11
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	338417	25.0000	25.256	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	433967			96.73- 156.73	128.23
9.923	9.923 (1.110)	176	323927			65.47- 125.47	95.72
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	14278	2.00000	2.234	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	11151			37.10- 97.10	78.10
1.577	1.577 (0.282)	39	10869			40.83- 100.83	76.12
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	34606	2.00000	2.393	80.00- 120.00	100.00
1.619	1.619 (0.289)	87	11613			2.62- 62.62	33.56
15 Freon 114					CAS #: 76-14-2		
1.731	1.731 (0.309)	135	21875	2.00000	2.244	80.00- 120.00	100.00
1.731	1.731 (0.309)	137	7919			1.99- 61.99	36.20
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	15598	2.00000	2.338	80.00- 120.00	100.00(a)
1.814	1.814 (0.324)	52	4507			2.33- 62.33	28.89
23 Butane					CAS #: 106-97-8		
1.898	1.898 (0.339)	58	4534	2.00000	2.698	80.00- 120.00	100.00
1.884	1.884 (0.337)	43	28352			902.69- 962.69	625.32
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	13820	2.00000	2.188	80.00- 120.00	100.00
1.926	1.926 (0.344)	64	4882			0.00- 58.77	35.33
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.968 (0.352)	54	15177	2.00000	2.085	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	14406			79.69- 139.69	94.92
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	11025	2.00000	2.410	80.00- 120.00	100.00(a)
2.332	2.332 (0.417)	96	8419			63.59- 123.59	76.36
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	8139	2.00000	2.459	80.00- 120.00	100.00
2.444	2.444 (0.437)	66	2799			0.12- 60.12	34.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.444	2.444 (0.437)	49	4538			13.60- 73.60	55.76
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	23437	2.00000	2.274	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	13924			28.52- 88.52	59.41
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	42025	2.00000	2.302	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	27005			33.61- 93.61	64.26
42 Ethanol					CAS #: 64-17-5		
3.088	3.088 (0.552)	45	9703	2.00000	2.471	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	3624			0.00- 51.11	37.35
3.060	3.060 (0.547)	46	3756			10.70- 70.70	38.71
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	24092	2.00000	2.394	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	14185			35.19- 95.19	58.88
3.382	3.382 (0.605)	101	28172			88.07- 148.07	116.94
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	10956	2.00000	2.192	80.00- 120.00	100.00
3.410	3.410 (0.610)	98	8070			35.15- 95.15	73.66
3.396	3.396 (0.607)	61	29521			221.75- 281.75	269.45
52 Acetone					CAS #: 67-64-1		
3.563	3.563 (0.637)	58	10684	2.00000	2.502	80.00- 120.00	100.00(a)
3.563	3.563 (0.637)	43	38360			351.83- 411.83	359.04
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	34593	2.00000	2.300	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.731	3.731 (0.667)	45	39531	2.00000	2.285	80.00- 120.00	100.00
3.731	3.731 (0.667)	43	7182			0.00- 48.10	18.17
3.717	3.717 (0.665)	59	1084			0.00- 33.34	2.74
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	5370	2.00000	2.227	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	26784			488.81- 548.81	498.77
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	28568	2.00000	2.362	80.00- 120.00	100.00(a)
4.053	4.053 (0.725)	84	10974			9.02- 69.02	38.41
4.053	4.053 (0.725)	51	8048			0.00- 59.58	28.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	41578	2.00000	2.278	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	10052			0.00- 53.22	24.18
4.193	4.193 (0.750)	57	5397			0.00- 41.48	12.98
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	39562	2.00000	2.304	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	12983			2.00- 62.00	32.82
4.277	4.277 (0.765)	41	14567			3.65- 63.65	36.82
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	7929	2.00000	2.181	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	26677			296.65- 356.65	336.45
4.291	4.291 (0.767)	96	11132			124.62- 184.62	140.40
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	31775	2.00000	2.368	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	23615			44.95- 104.95	74.32
4.501	4.501 (0.805)	86	4282			0.00- 40.12	13.48
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	29391	2.00000	2.443	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	8980			0.00- 58.92	30.55
83 Isopropyl ether					CAS #: 108-20-3		
4.781	4.781 (0.855)	45	74672	2.00000	2.196	80.00- 120.00	100.00
4.781	4.781 (0.855)	87	11457			0.00- 44.86	15.34
4.767	4.767 (0.852)	59	9138			0.00- 39.01	12.24
86 Vinyl Acetate					CAS #: 108-05-4		
4.837	4.837 (0.865)	86	2840	2.00000	2.037	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	64514			2043.04-2103.04	2271.62
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.131	5.131 (0.917)	59	63317	2.00000	2.218	80.00- 120.00	100.00
5.131	5.131 (0.917)	87	18501			0.00- 58.97	29.22
5.131	5.131 (0.917)	41	13272			0.00- 50.96	20.96
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	10382	2.00000	2.722	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	14310			121.93- 181.93	137.83
5.354	5.354 (0.957)	61	24889			268.28- 328.28	239.73
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	6137	2.00000	2.177	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	48738			717.19- 777.19	794.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	4873			21.09- 81.09	79.40
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	26391	2.00000	2.214	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	4526			0.00- 49.93	17.15
5.592	5.592 (1.000)	72	6762			0.00- 50.49	25.62
100 Chloroform					CAS #: 67-66-3		
5.662	5.662 (1.012)	83	31696	2.00000	2.436	80.00- 120.00	100.00
5.648	5.648 (1.010)	85	20430			34.28- 94.28	64.46
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	16270	2.00000	2.131	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	34049			165.55- 225.55	209.27
5.760	5.760 (1.030)	41	20565			88.39- 148.39	126.40
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.788	5.788 (1.035)	97	34899	2.00000	2.112	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	24943			33.59- 93.59	71.47
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	39490	2.00000	2.336	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	41315			75.03- 135.03	104.62
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.096 (1.090)	57	106003	2.00000	2.344	80.00- 120.00	100.00
6.096	6.096 (1.090)	56	36115			2.46- 62.46	34.07
6.096	6.096 (1.090)	41	27885			0.00- 55.56	26.31
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	39032	2.00000	2.331	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	9641			0.00- 54.02	24.70
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	10850	2.00000	2.098	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	41801			341.91- 401.91	385.26
6.180	6.180 (0.953)	55	17680			123.21- 183.21	162.95
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	30677	2.00000	2.394	80.00- 120.00	100.00
6.208	6.208 (0.957)	64	10685			0.97- 60.97	34.83
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	13934	2.00000	2.106	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	47392			309.54- 369.54	340.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	23792			143.16- 203.16	170.75
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	18691	2.00000	2.212	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	19099			68.86- 128.86	102.18
6.685	6.685 (1.030)	97	12869			32.82- 92.82	68.85
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	24319	2.00000	2.231	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	11553			17.65- 77.65	47.51
6.778	6.778 (1.045)	55	35084			110.81- 170.81	144.27
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	19730	2.00000	2.152	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	14753			41.59- 101.59	74.77
6.915	6.915 (1.066)	41	15628			40.69- 100.69	79.21
136 1,4-Dioxane					CAS #: 123-91-1		
7.015	7.015 (1.081)	88	9627	2.00000	2.133	80.00- 120.00	100.00
7.015	7.015 (1.081)	58	12646			79.36- 139.36	131.36
7.015	7.015 (1.081)	57	4405			6.63- 66.63	45.76
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	38350	2.00000	2.400	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	23979			34.24- 94.24	62.53
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	29172	2.00000	2.303	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	10168			2.36- 62.36	34.86
7.516	7.516 (1.159)	39	22892			46.86- 106.86	78.47
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.638	7.638 (1.177)	58	23265	2.00000	2.164	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	67068			274.73- 334.73	288.28
7.638	7.638 (1.177)	85	5844			0.00- 58.76	25.12
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	54482	2.00000	2.303	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	32413			27.05- 87.05	59.49
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	8.003 (0.895)	75	25689	2.00000	2.120	80.00- 120.00	100.00
8.003	8.003 (0.895)	77	9757			0.84- 60.84	37.98
7.996	7.996 (0.894)	39	19552			38.83- 98.83	76.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	18740	2.00000	2.312	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	12480			32.22- 92.22	66.60
8.154	8.154 (0.912)	83	16335			54.60- 114.60	87.17
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	26110	2.00000	2.122	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	20306			47.11- 107.11	77.77
8.197	8.197 (0.917)	131	19485			43.50- 103.50	74.63
158 2-Hexanone					CAS #: 591-78-6		
8.319	8.319 (0.930)	58	29926	2.00000	2.265	80.00- 120.00	100.00
8.319	8.319 (0.930)	43	70406			189.79- 249.79	235.27
8.319	8.319 (0.930)	100	3917			0.00- 43.05	13.09
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	35683	2.00000	2.170	80.00- 120.00	100.00
8.476	8.476 (0.948)	127	28226			46.79- 106.79	79.10
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.591 (0.961)	107	31140	2.00000	2.237	80.00- 120.00	100.00
8.584	8.584 (0.960)	109	27150			64.52- 124.52	87.19
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	44596	2.00000	2.194	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	15277			2.26- 62.26	34.26
8.956	8.956 (1.002)	77	34706			30.55- 90.55	77.82
167 Ethyl Benzene					CAS #: 100-41-4		
9.006	9.006 (1.007)	106	24827	2.00000	2.292	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	74193			294.90- 354.90	298.84
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	27257	2.00000	2.082	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	59275			185.23- 245.23	217.47
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	28733	2.00000	2.216	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	60324			194.61- 254.61	209.95
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	46188	2.00000	2.223	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	24646			26.13- 86.13	53.36
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	38023	2.00000	2.245	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	19774			22.32- 82.32	52.01
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	89826	2.00000	2.279	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	23648			0.00- 56.11	26.33
9.737	9.737 (1.089)	51	14848			0.00- 46.14	16.53
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	41093	2.00000	2.111	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	27923			34.99- 94.99	67.95
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	106216	2.00000	2.255	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	27614			0.00- 52.84	26.00
10.081	10.081 (1.127)	105	5507			0.00- 33.71	5.18
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.181 (1.139)	120	26445	2.00000	2.147	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	89219			305.47- 365.47	337.38
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	35548	2.00000	2.201	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	77866			180.29- 240.29	219.04
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	76157	2.00000	2.242	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	33680			13.81- 73.81	44.22
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	51953	2.00000	2.336	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	32488			33.25- 93.25	62.53
10.847	10.847 (1.213)	111	22313			12.53- 72.53	42.95
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	52200	2.00000	2.247	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	33131			32.78- 92.78	63.47
10.919	10.919 (1.221)	111	19543			10.80- 70.80	37.44
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.040	11.040 (1.235)	91	70517	2.00000	2.129	80.00- 120.00	100.00
11.048	11.048 (1.236)	126	15684			0.00- 49.93	22.24
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	48508	2.00000	2.260	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	31727			34.01- 94.01	65.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.255	11.255 (1.259)	111	22026			13.60- 73.60	45.41
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	38395	2.00000	2.001	80.00- 120.00	100.00
12.681	12.681 (1.418)	182	34428			64.08- 124.08	89.67
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.781	12.781 (1.429)	225	33564	2.00000	2.069	80.00- 120.00	100.00
12.781	12.781 (1.429)	223	20412			32.97- 92.97	60.82
228 Naphthalene					CAS #: 91-20-3		
12.974	12.974 (1.451)	128	8732	0.20000	0.1830	80.00- 120.00	100.00(a)
12.982	12.982 (1.452)	127	821			0.00- 42.95	9.40

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102303.d
Lab Smp Id: ICAL Level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 2.0ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	126635	-4.89
123 1,4-Difluorobenze	566731	340039	793423	561451	-0.93
163 Chlorobenzene-d5	553811	332287	775335	549872	-0.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102303.d

Date : 23-OCT-2015 11:41

Client ID:

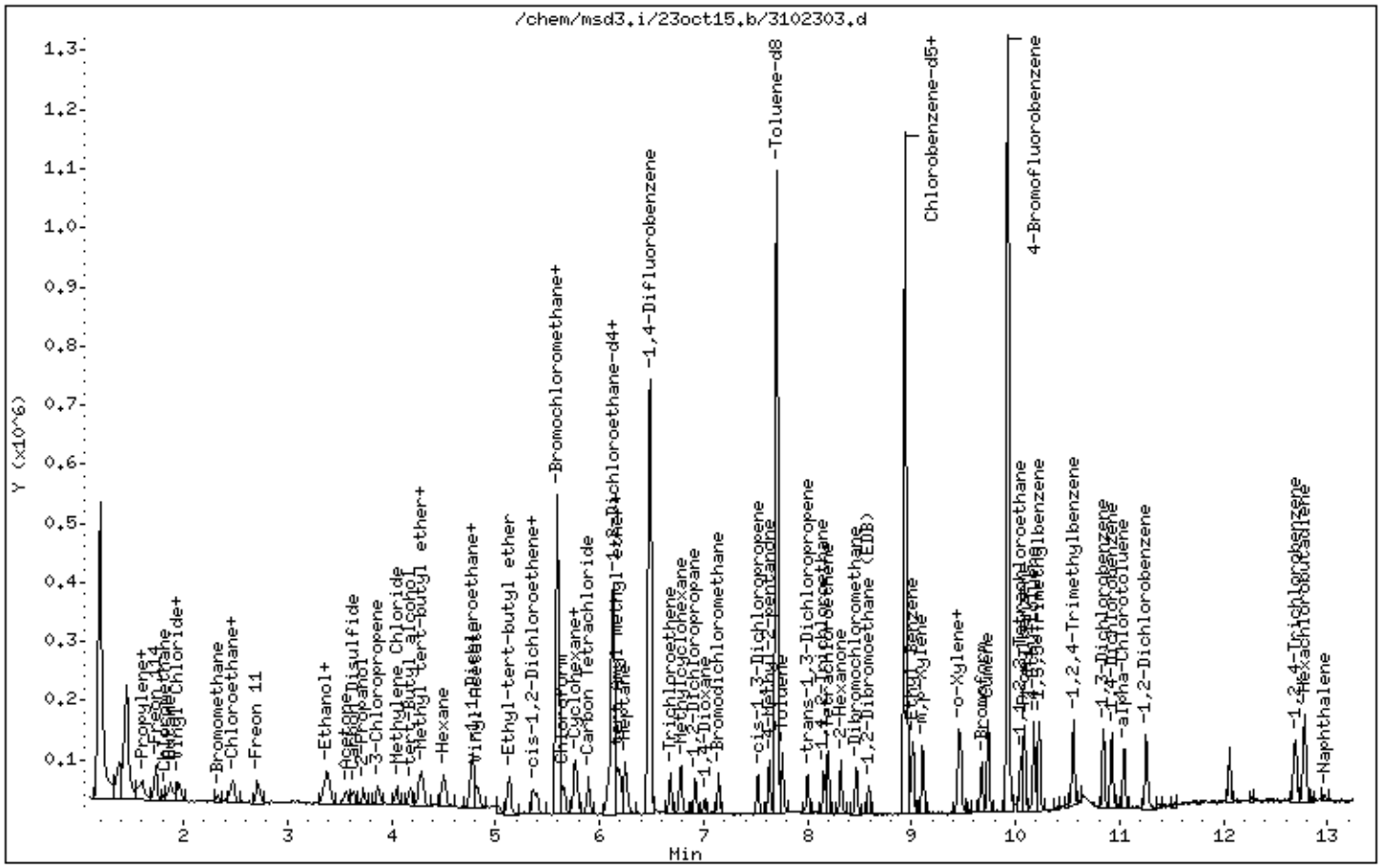
Instrument: msd3.i

Sample Info: 80ml 2736-25

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102304.d
Lab Smp Id: ICAL Level 4
Inj Date : 23-OCT-2015 12:13
Operator : cb Inst ID: msd3.i
Smp Info : 200ml 2736-25
Misc Info : 5.0ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:11 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 12:13 Cal File: 3102304.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12curve.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	123065	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	96797			42.88- 102.88	78.66
5.592	5.592 (1.000)	49	296214			207.65- 267.65	240.70
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	555431	25.0000		80.00- 120.00	100.00
6.488	6.488 (1.000)	88	90384			0.00- 45.78	16.27
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	551573	25.0000		80.00- 120.00	100.00
8.942	8.942 (1.000)	82	313099			26.67- 86.67	56.76
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	273713	25.0000	25.518	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	124609			22.68- 82.68	45.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	609264	25.0000	25.722	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	69989			0.00- 41.75	11.49
7.702	7.702 (1.187)	100	399428			34.13- 94.13	65.56
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.930 (1.111)	174	330951	25.0000	24.716	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	439928			96.73- 156.73	132.93
9.930	9.930 (1.111)	176	324185			65.47- 125.47	97.96
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	28385	5.00000	4.705	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	19962			37.10- 97.10	70.33
1.577	1.577 (0.282)	39	22160			40.83- 100.83	78.07
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	69108	5.00000	4.938	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	23344			2.62- 62.62	33.78
15 Freon 114					CAS #: 76-14-2		
1.730	1.730 (0.309)	135	44756	5.00000	4.791	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	13393			1.99- 61.99	29.92
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	28313	5.00000	4.560	80.00- 120.00	100.00(a)
1.814	1.814 (0.324)	52	9382			2.33- 62.33	33.14
23 Butane					CAS #: 106-97-8		
1.884	1.884 (0.337)	58	6062	5.00000	4.061	80.00- 120.00	100.00
1.884	1.884 (0.337)	43	53945			902.69- 962.69	889.89
25 Vinyl Chloride					CAS #: 75-01-4		
1.926	1.926 (0.344)	62	25708	5.00000	4.366	80.00- 120.00	100.00
1.926	1.926 (0.344)	64	7308			0.00- 58.77	28.43
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.968 (0.352)	54	28646	5.00000	4.252	80.00- 120.00	100.00
1.968	1.968 (0.352)	39	28614			79.69- 139.69	99.89
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	18301	5.00000	4.374	80.00- 120.00	100.00(a)
2.332	2.332 (0.417)	96	18851			63.59- 123.59	103.01
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	12966	5.00000	4.309	80.00- 120.00	100.00
2.458	2.458 (0.440)	66	4602			0.12- 60.12	35.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.458	2.458 (0.440)	49	7542			13.60- 73.60	58.17
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	46980	5.00000	4.790	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	28016			28.52- 88.52	59.63
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	81795	5.00000	4.701	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	51414			33.61- 93.61	62.86
42 Ethanol					CAS #: 64-17-5		
3.074	3.074 (0.550)	45	17242	5.00000	4.668	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	5749			0.00- 51.11	33.34
3.074	3.074 (0.550)	46	7317			10.70- 70.70	42.44
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	42840	5.00000	4.520	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	26431			35.19- 95.19	61.70
3.368	3.368 (0.602)	101	51336			88.07- 148.07	119.83
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	21232	5.00000	4.514	80.00- 120.00	100.00
3.396	3.396 (0.607)	98	14912			35.15- 95.15	70.23
3.396	3.396 (0.607)	61	56029			221.75- 281.75	263.89
52 Acetone					CAS #: 67-64-1		
3.563	3.563 (0.637)	58	20281	5.00000	4.924	80.00- 120.00	100.00(a)
3.563	3.563 (0.637)	43	75060			351.83- 411.83	370.10
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	66834	5.00000	4.707	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.731	3.731 (0.667)	45	73238	5.00000	4.552	80.00- 120.00	100.00
3.731	3.731 (0.667)	43	14681			0.00- 48.10	20.05
3.731	3.731 (0.667)	59	2982			0.00- 33.34	4.07
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	11239	5.00000	4.862	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	54821			488.81- 548.81	487.77
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	52774	5.00000	4.607	80.00- 120.00	100.00(a)
4.053	4.053 (0.725)	84	22117			9.02- 69.02	41.91
4.053	4.053 (0.725)	51	15741			0.00- 59.58	29.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	82136	5.00000	4.748	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	19595			0.00- 53.22	23.86
4.179	4.179 (0.747)	57	9236			0.00- 41.48	11.24
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	72318	5.00000	4.483	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	26741			2.00- 62.00	36.98
4.277	4.277 (0.765)	41	24532			3.65- 63.65	33.92
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.305	4.305 (0.770)	98	16411	5.00000	4.729	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	51231			296.65- 356.65	312.17
4.291	4.291 (0.767)	96	23010			124.62- 184.62	140.21
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	55403	5.00000	4.414	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	44929			44.95- 104.95	81.09
4.501	4.501 (0.805)	86	6247			0.00- 40.12	11.28
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	59701	5.00000	5.079	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	18978			0.00- 58.92	31.79
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	147338	5.00000	4.626	80.00- 120.00	100.00
4.767	4.767 (0.852)	87	20150			0.00- 44.86	13.68
4.767	4.767 (0.852)	59	14315			0.00- 39.01	9.72
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	6433	5.00000	4.829	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	131567			2043.04-2103.04	2045.19
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.131	5.131 (0.917)	59	125341	5.00000	4.667	80.00- 120.00	100.00
5.131	5.131 (0.917)	87	36020			0.00- 58.97	28.74
5.131	5.131 (0.917)	41	28724			0.00- 50.96	22.92
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	17512	5.00000	4.791	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	27077			121.93- 181.93	154.62
5.368	5.368 (0.960)	61	50891			268.28- 328.28	290.61
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	11237	5.00000	4.363	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	94680			717.19- 777.19	842.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	6761			21.09- 81.09	60.17
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	52596	5.00000	4.647	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	11908			0.00- 49.93	22.64
5.592	5.592 (1.000)	72	13327			0.00- 50.49	25.34
100 Chloroform					CAS #: 67-66-3		
5.662	5.662 (1.012)	83	61102	5.00000	4.873	80.00- 120.00	100.00
5.662	5.662 (1.012)	85	41992			34.28- 94.28	68.72
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	35330	5.00000	4.818	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	66491			165.55- 225.55	188.20
5.760	5.760 (1.030)	41	40976			88.39- 148.39	115.98
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	71711	5.00000	4.588	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	46350			33.59- 93.59	64.63
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	76455	5.00000	4.735	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	78252			75.03- 135.03	102.35
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.082	6.082 (1.088)	57	205598	5.00000	4.755	80.00- 120.00	100.00
6.096	6.096 (1.090)	56	69062			2.46- 62.46	33.59
6.082	6.082 (1.088)	41	54044			0.00- 55.56	26.29
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	79059	5.00000	4.827	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	18190			0.00- 54.02	23.01
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	22105	5.00000	4.526	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	79536			341.91- 401.91	359.81
6.180	6.180 (0.953)	55	35901			123.21- 183.21	162.41
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.208	6.208 (0.957)	62	58190	5.00000	4.687	80.00- 120.00	100.00
6.208	6.208 (0.957)	64	18440			0.97- 60.97	31.69
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	30086	5.00000	4.692	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	93332			309.54- 369.54	310.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	43230			143.16- 203.16	143.69
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	40148	5.00000	4.851	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	38590			68.86- 128.86	96.12
6.678	6.678 (1.029)	97	24800			32.82- 92.82	61.77
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	48354	5.00000	4.603	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	22748			17.65- 77.65	47.04
6.778	6.778 (1.045)	55	68652			110.81- 170.81	141.98
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	41728	5.00000	4.694	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	28389			41.59- 101.59	68.03
6.922	6.922 (1.067)	41	31798			40.69- 100.69	76.20
136 1,4-Dioxane					CAS #: 123-91-1		
7.015	7.015 (1.081)	88	19983	5.00000	4.638	80.00- 120.00	100.00
7.015	7.015 (1.081)	58	23991			79.36- 139.36	120.06
7.022	7.022 (1.082)	57	8374			6.63- 66.63	41.91
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	71210	5.00000	4.620	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	46392			34.24- 94.24	65.15
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	58389	5.00000	4.740	80.00- 120.00	100.00
7.516	7.516 (1.159)	77	17686			2.36- 62.36	30.29
7.523	7.523 (1.160)	39	44542			46.86- 106.86	76.28
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	44655	5.00000	4.373	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	129257			274.73- 334.73	289.46
7.631	7.631 (1.176)	85	13433			0.00- 58.76	30.08
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	103721	5.00000	4.562	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	59987			27.05- 87.05	57.83
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	8.003 (0.895)	75	53971	5.00000	4.568	80.00- 120.00	100.00
8.003	8.003 (0.895)	77	17800			0.84- 60.84	32.98
7.996	7.996 (0.894)	39	41921			38.83- 98.83	77.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	37178	5.00000	4.673	80.00- 120.00	100.00
8.161	8.161 (0.913)	99	22460			32.22- 92.22	60.41
8.154	8.154 (0.912)	83	31277			54.60- 114.60	84.13
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	52070	5.00000	4.390	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	39294			47.11- 107.11	75.46
8.197	8.197 (0.917)	131	38819			43.50- 103.50	74.55
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.318 (0.930)	58	60405	5.00000	4.661	80.00- 120.00	100.00
8.318	8.318 (0.930)	43	128435			189.79- 249.79	212.62
8.326	8.326 (0.931)	100	7561			0.00- 43.05	12.52
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	73112	5.00000	4.561	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	59259			46.79- 106.79	81.05
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.591 (0.961)	107	58456	5.00000	4.364	80.00- 120.00	100.00
8.591	8.591 (0.961)	109	54330			64.52- 124.52	92.94
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	90404	5.00000	4.563	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	27759			2.26- 62.26	30.71
8.963	8.963 (1.002)	77	63517			30.55- 90.55	70.26
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	47229	5.00000	4.494	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	147639			294.90- 354.90	312.60
169 m,p-Xylene					CAS #: 108-38-3		
9.114	9.114 (1.019)	106	58104	5.00000	4.556	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	120469			185.23- 245.23	207.33
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	53941	5.00000	4.332	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	117622			194.61- 254.61	218.06
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	92181	5.00000	4.555	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	52147			26.13- 86.13	56.57
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	72615	5.00000	4.435	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	37204			22.32- 82.32	51.23
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	172300	5.00000	4.502	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	45909			0.00- 56.11	26.64
9.737	9.737 (1.089)	51	30382			0.00- 46.14	17.63
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	86236	5.00000	4.550	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	55240			34.99- 94.99	64.06
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	202951	5.00000	4.452	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	48201			0.00- 52.84	23.75
10.088	10.088 (1.128)	105	8826			0.00- 33.71	4.35
188 4-Ethyltoluene					CAS #: 622-96-8		
10.174	10.174 (1.138)	120	51983	5.00000	4.381	80.00- 120.00	100.00
10.181	10.181 (1.139)	105	177353			305.47- 365.47	341.17
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	74811	5.00000	4.707	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	160215			180.29- 240.29	214.16
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	156610	5.00000	4.690	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	67472			13.81- 73.81	43.08
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	102415	5.00000	4.687	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	62346			33.25- 93.25	60.88
10.847	10.847 (1.213)	111	44878			12.53- 72.53	43.82
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	104735	5.00000	4.611	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	67937			32.78- 92.78	64.87
10.926	10.926 (1.222)	111	42236			10.80- 70.80	40.33
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.040	11.040 (1.235)	91	139963	5.00000	4.386	80.00- 120.00	100.00
11.048	11.048 (1.236)	126	29027			0.00- 49.93	20.74
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.262	11.262 (1.260)	146	97805	5.00000	4.648	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	62792			34.01- 94.01	64.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.255	11.255 (1.259)	111	43184			13.60- 73.60	44.15
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	82293	5.00000	4.493	80.00- 120.00	100.00
12.695	12.695 (1.420)	182	78294			64.08- 124.08	95.14
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.781	12.781 (1.429)	225	71707	5.00000	4.589	80.00- 120.00	100.00
12.781	12.781 (1.429)	223	47890			32.97- 92.97	66.79
228 Naphthalene					CAS #: 91-20-3		
12.974	12.974 (1.451)	128	20791	0.50000	0.4542	80.00- 120.00	100.00(a)
12.974	12.974 (1.451)	127	2714			0.00- 42.95	13.05

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102304.d
Lab Smp Id: ICAL Level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 5.0ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	123065	-7.57
123 1,4-Difluorobenze	566731	340039	793423	555431	-1.99
163 Chlorobenzene-d5	553811	332287	775335	551573	-0.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102304.d

Date : 23-OCT-2015 12:13

Client ID:

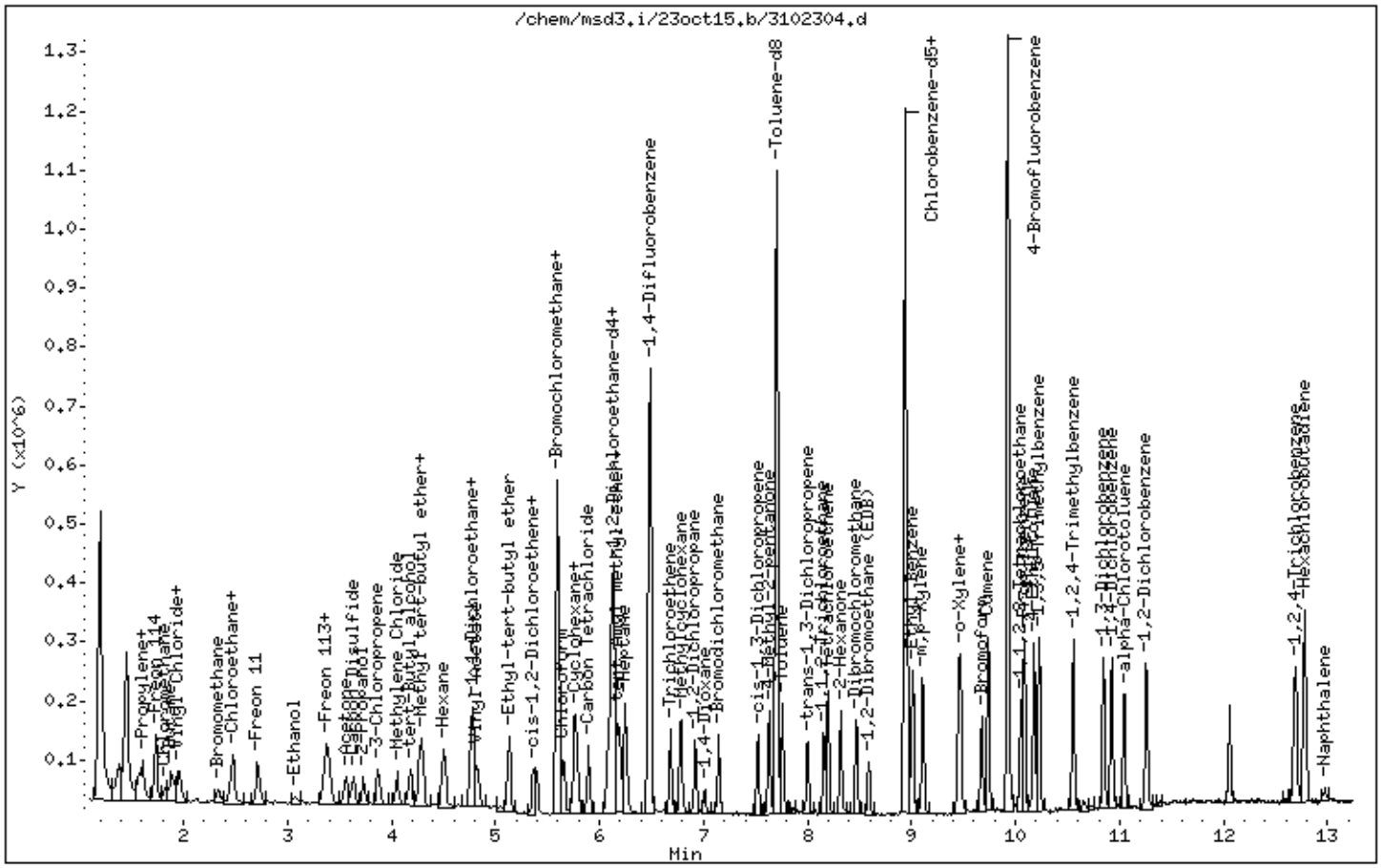
Instrument: msd3.i

Sample Info: 200ml 2736-25

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102305.d
Lab Smp Id: ICAL Level 5
Inj Date : 23-OCT-2015 12:37
Operator : cb Inst ID: msd3.i
Smp Info : 20ml 2736-2
Misc Info : 20ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:11 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 12:37 Cal File: 3102305.d
Als bottle: 13 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	132550	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	103393			42.88- 102.88	78.00
5.592	5.592 (1.000)	49	318778			207.65- 267.65	240.50
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	569984	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	94003			0.00- 45.78	16.49
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	534851	25.0000		80.00- 120.00	100.00
8.935	8.935 (1.000)	82	308901			26.67- 86.67	57.75
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	277772	25.0000	24.228	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	126708			22.68- 82.68	45.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	590555	25.0000	24.433	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	70584			0.00- 41.75	11.95
7.702	7.702 (1.187)	100	379560			34.13- 94.13	64.27
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	336822	25.0000	25.747	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	433136			96.73- 156.73	128.59
9.923	9.923 (1.110)	176	323517			65.47- 125.47	96.05
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	83290	20.0000	14.082	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	59457			37.10- 97.10	71.39
1.577	1.577 (0.282)	39	61558			40.83- 100.83	73.91
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	204764	20.0000	14.516	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	69040			2.62- 62.62	33.72
15 Freon 114					CAS #: 76-14-2		
1.731	1.731 (0.309)	135	142642	20.0000	15.052	80.00- 120.00	100.00
1.731	1.731 (0.309)	137	42330			1.99- 61.99	29.68
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	91965	20.0000	14.916	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	29228			2.33- 62.33	31.78
23 Butane					CAS #: 106-97-8		
1.884	1.884 (0.337)	58	18159	20.0000	12.674	80.00- 120.00	100.00
1.884	1.884 (0.337)	43	162460			902.69- 962.69	894.65
25 Vinyl Chloride					CAS #: 75-01-4		
1.926	1.926 (0.344)	62	75796	20.0000	12.997	80.00- 120.00	100.00
1.926	1.926 (0.344)	64	22892			0.00- 58.77	30.20
26 1,3-Butadiene					CAS #: 106-99-0		
1.954	1.954 (0.349)	54	83615	20.0000	12.590	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	89551			79.69- 139.69	107.10
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	54927	20.0000	13.507	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	52444			63.59- 123.59	95.48
30 Chloroethane					CAS #: 75-00-3		
2.444	2.444 (0.437)	64	41368	20.0000	14.035	80.00- 120.00	100.00
2.444	2.444 (0.437)	66	12272			0.12- 60.12	29.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.444	2.444 (0.437)	49	17238			13.60- 73.60	41.67
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	153994	20.0000	15.637	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	90465			28.52- 88.52	58.75
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	255819	20.0000	14.577	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	170866			33.61- 93.61	66.79
42 Ethanol					CAS #: 64-17-5		
3.060	3.060 (0.547)	45	49771	20.0000	13.804	80.00- 120.00	100.00
3.060	3.060 (0.547)	43	10037			0.00- 51.11	20.17
3.060	3.060 (0.547)	46	19679			10.70- 70.70	39.54
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	153707	20.0000	15.841	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	97579			35.19- 95.19	63.48
3.368	3.368 (0.602)	101	182011			88.07- 148.07	118.41
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	65406	20.0000	13.895	80.00- 120.00	100.00
3.396	3.396 (0.607)	98	43253			35.15- 95.15	66.13
3.396	3.396 (0.607)	61	171021			221.75- 281.75	261.48
52 Acetone					CAS #: 67-64-1		
3.549	3.549 (0.635)	58	47049	20.0000	12.018	80.00- 120.00	100.00
3.549	3.549 (0.635)	43	178796			351.83- 411.83	380.02
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	190261	20.0000	13.740	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.717	3.717 (0.665)	45	217073	20.0000	13.816	80.00- 120.00	100.00
3.717	3.717 (0.665)	43	41461			0.00- 48.10	19.10
3.731	3.731 (0.667)	59	8161			0.00- 33.34	3.76
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	31906	20.0000	14.079	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	158888			488.81- 548.81	497.99
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	151925	20.0000	13.338	80.00- 120.00	100.00
4.053	4.053 (0.725)	84	61079			9.02- 69.02	40.20
4.053	4.053 (0.725)	51	45374			0.00- 59.58	29.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	261341	20.0000	15.157	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	62522			0.00- 53.22	23.92
4.179	4.179 (0.747)	57	30613			0.00- 41.48	11.71
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	250789	20.0000	15.284	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	80591			2.00- 62.00	32.13
4.277	4.277 (0.765)	41	87972			3.65- 63.65	35.08
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	45641	20.0000	13.243	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	147413			296.65- 356.65	322.98
4.291	4.291 (0.767)	96	67663			124.62- 184.62	148.25
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	180081	20.0000	14.275	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	135568			44.95- 104.95	75.28
4.501	4.501 (0.805)	86	18465			0.00- 40.12	10.25
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	171755	20.0000	14.499	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	49080			0.00- 58.92	28.58
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	506092	20.0000	15.787	80.00- 120.00	100.00
4.767	4.767 (0.852)	87	74450			0.00- 44.86	14.71
4.767	4.767 (0.852)	59	46143			0.00- 39.01	9.12
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	18870	20.0000	14.384	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	399478			2043.04-2103.04	2117.00
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.131	5.131 (0.917)	59	403652	20.0000	15.096	80.00- 120.00	100.00
5.131	5.131 (0.917)	87	113680			0.00- 58.97	28.16
5.131	5.131 (0.917)	41	85633			0.00- 50.96	21.21
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	48741	20.0000	13.401	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	74098			121.93- 181.93	152.02
5.368	5.368 (0.960)	61	149205			268.28- 328.28	306.12
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	34422	20.0000	13.710	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	276578			717.19- 777.19	803.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	17898			21.09- 81.09	52.00
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	160465	20.0000	14.130	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	32697			0.00- 49.93	20.38
5.592	5.592 (1.000)	72	33583			0.00- 50.49	20.93
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	180833	20.0000	14.337	80.00- 120.00	100.00
5.648	5.648 (1.010)	85	118670			34.28- 94.28	65.62
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	112547	20.0000	15.121	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	226272			165.55- 225.55	201.05
5.760	5.760 (1.030)	41	135284			88.39- 148.39	120.20
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	238707	20.0000	15.056	80.00- 120.00	100.00
5.788	5.788 (1.035)	99	152638			33.59- 93.59	63.94
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	256238	20.0000	15.554	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	269242			75.03- 135.03	105.07
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.082	6.082 (1.088)	57	640665	20.0000	14.674	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	191980			2.46- 62.46	29.97
6.082	6.082 (1.088)	41	176075			0.00- 55.56	27.48
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	228293	20.0000	14.515	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	55343			0.00- 54.02	24.24
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	74875	20.0000	15.947	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	281685			341.91- 401.91	376.21
6.180	6.180 (0.953)	55	117040			123.21- 183.21	156.31
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	169881	20.0000	14.287	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	51819			0.97- 60.97	30.50
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	98679	20.0000	15.786	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	326614			309.54- 369.54	330.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	159483			143.16- 203.16	161.62
125 Trichloroethene					CAS #: 79-01-6		
6.678	6.678 (1.029)	95	118791	20.0000	14.881	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	113703			68.86- 128.86	95.72
6.678	6.678 (1.029)	97	74398			32.82- 92.82	62.63
127 Methylcyclohexane					CAS #: 108-87-2		
6.778	6.778 (1.045)	83	158427	20.0000	15.519	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	77839			17.65- 77.65	49.13
6.778	6.778 (1.045)	55	228024			110.81- 170.81	143.93
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	125828	20.0000	14.706	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	91306			41.59- 101.59	72.56
6.922	6.922 (1.067)	41	91251			40.69- 100.69	72.52
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	62826	20.0000	15.319	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	71334			79.36- 139.36	113.54
7.008	7.008 (1.080)	57	22938			6.63- 66.63	36.51
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	220186	20.0000	14.821	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	141343			34.24- 94.24	64.19
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	172284	20.0000	14.557	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	54051			2.36- 62.36	31.37
7.523	7.523 (1.160)	39	136895			46.86- 106.86	79.46
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	137533	20.0000	14.094	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	425879			274.73- 334.73	309.66
7.631	7.631 (1.176)	85	42533			0.00- 58.76	30.93
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	349662	20.0000	15.778	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	199275			27.05- 87.05	56.99
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	8.003 (0.895)	75	171271	20.0000	15.745	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	55803			0.84- 60.84	32.58
7.996	7.996 (0.894)	39	120611			38.83- 98.83	70.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	117708	20.0000	16.018	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	72394			32.22- 92.22	61.50
8.154	8.154 (0.912)	83	102111			54.60- 114.60	86.75
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	171326	20.0000	15.698	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	132179			47.11- 107.11	77.15
8.197	8.197 (0.917)	131	133035			43.50- 103.50	77.65
158 2-Hexanone					CAS #: 591-78-6		
8.319	8.319 (0.930)	58	194520	20.0000	16.212	80.00- 120.00	100.00
8.319	8.319 (0.930)	43	415245			189.79- 249.79	213.47
8.319	8.319 (0.930)	100	25885			0.00- 43.05	13.31
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	249801	20.0000	16.729	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	195518			46.79- 106.79	78.27
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.584	8.584 (0.960)	107	193850	20.0000	15.722	80.00- 120.00	100.00
8.591	8.591 (0.961)	109	174542			64.52- 124.52	90.04
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	297627	20.0000	16.222	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	96969			2.26- 62.26	32.58
8.963	8.963 (1.002)	77	180000			30.55- 90.55	60.48
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	159068	20.0000	16.325	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	516887			294.90- 354.90	324.95
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	198350	20.0000	16.702	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	425882			185.23- 245.23	214.71
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	192601	20.0000	16.623	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	421131			194.61- 254.61	218.65
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	317358	20.0000	16.816	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	174795			26.13- 86.13	55.08
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	257311	20.0000	16.845	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	130873			22.32- 82.32	50.86
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	611457	20.0000	17.079	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	157597			0.00- 56.11	25.77
9.737	9.737 (1.089)	51	101259			0.00- 46.14	16.56
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	287305	20.0000	16.346	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	186037			34.99- 94.99	64.75
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	731028	20.0000	17.131	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	166879			0.00- 52.84	22.83
10.081	10.081 (1.127)	105	28842			0.00- 33.71	3.95
188 4-Ethyltoluene					CAS #: 622-96-8		
10.174	10.174 (1.138)	120	188619	20.0000	17.007	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	627615			305.47- 365.47	332.74
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	256783	20.0000	17.238	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	551651			180.29- 240.29	214.83
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	528340	20.0000	16.942	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	238515			13.81- 73.81	45.14
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	352356	20.0000	17.211	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	222611			33.25- 93.25	63.18
10.847	10.847 (1.213)	111	146000			12.53- 72.53	41.44
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	353331	20.0000	16.703	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	223494			32.78- 92.78	63.25
10.926	10.926 (1.222)	111	146218			10.80- 70.80	41.38
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.040	11.040 (1.235)	91	510621	20.0000	17.099	80.00- 120.00	100.00
11.048	11.048 (1.236)	126	102409			0.00- 49.93	20.06
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	333231	20.0000	16.954	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	214445			34.01- 94.01	64.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.255	11.255 (1.259)	111	147716			13.60- 73.60	44.33
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	266487	20.0000	16.004	80.00- 120.00	100.00
12.688	12.688 (1.419)	182	253080			64.08- 124.08	94.97
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.781	12.781 (1.429)	225	216479	20.0000	15.385	80.00- 120.00	100.00
12.781	12.781 (1.429)	223	137374			32.97- 92.97	63.46
228 Naphthalene					CAS #: 91-20-3		
12.974	12.974 (1.451)	128	71012	2.00000	1.684	80.00- 120.00	100.00
12.967	12.967 (1.450)	127	10322			0.00- 42.95	14.54

Report Date: 23-Oct-2015 14:11

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102305.d
Lab Smp Id: ICAL Level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 20ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	132550	-0.44
123 1,4-Difluorobenze	566731	340039	793423	569984	0.57
163 Chlorobenzene-d5	553811	332287	775335	534851	-3.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102305.d

Date : 23-OCT-2015 12:37

Client ID:

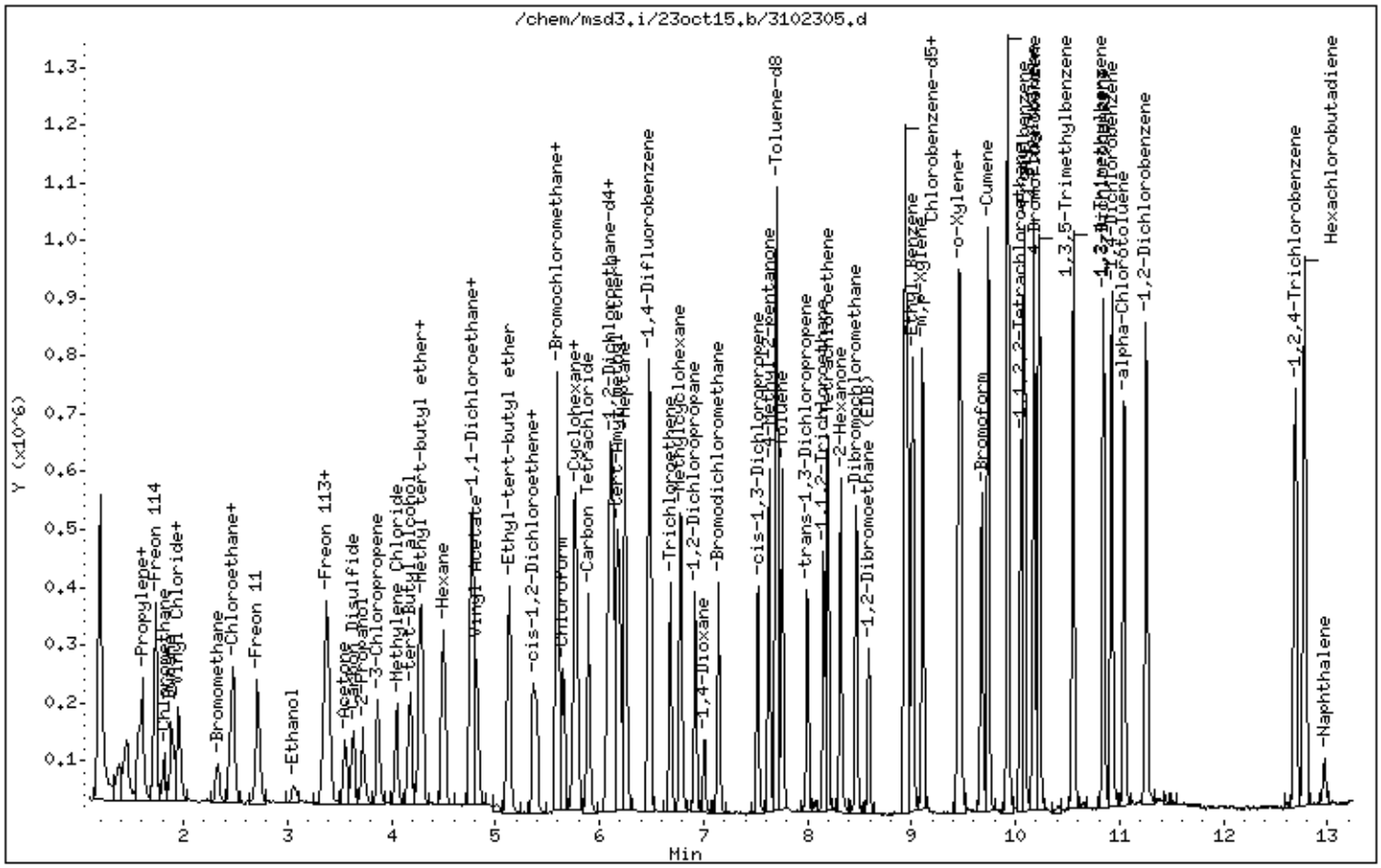
Instrument: msd3.i

Sample Info: 20ml 2736-2

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102306.d
Lab Smp Id: ICAL Level 6
Inj Date : 23-OCT-2015 13:02
Operator : cb Inst ID: msd3.i
Smp Info : 50ml 2736-2
Misc Info : 50ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:10 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 13:02 Cal File: 3102306.d
Als bottle: 13 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	133140	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	97034			42.88- 102.88	72.88
5.592	5.592 (1.000)	49	316403			207.65- 267.65	237.65
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	566731	25.0000		80.00- 120.00	100.00
6.488	6.488 (1.000)	88	89407			0.00- 45.78	15.78
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	553811	25.0000		80.00- 120.00	100.00
8.935	8.935 (1.000)	82	313818			26.67- 86.67	56.67
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	283357	25.0000	25.000	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	149265			22.68- 82.68	52.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.702	7.702 (1.187)	98	601513	25.0000	25.000	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	70693			0.00- 41.75	11.75
7.702	7.702 (1.187)	100	385764			34.13- 94.13	64.13
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.923	9.923 (1.110)	174	344196	25.0000	25.000	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	436194			96.73- 156.73	126.73
9.930	9.930 (1.111)	176	328611			65.47- 125.47	95.47
9 Propylene						CAS #: 115-07-1	
1.577	1.577 (0.282)	41	296628	50.0000	50.000	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	199037			37.10- 97.10	67.10
1.577	1.577 (0.282)	39	210109			40.83- 100.83	70.83
11 Freon 12						CAS #: 75-71-8	
1.605	1.605 (0.287)	85	704942	50.0000	50.000	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	229986			2.62- 62.62	32.62
15 Freon 114						CAS #: 76-14-2	
1.731	1.731 (0.309)	135	457017	50.0000	50.000	80.00- 120.00	100.00
1.731	1.731 (0.309)	137	146219			1.99- 61.99	31.99
17 Chloromethane						CAS #: 74-87-3	
1.814	1.814 (0.324)	50	291326	50.0000	50.000	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	94198			2.33- 62.33	32.33
23 Butane						CAS #: 106-97-8	
1.898	1.898 (0.339)	58	57487	50.0000	50.000	80.00- 120.00	100.00
1.884	1.884 (0.337)	43	536177			902.69- 962.69	932.69
25 Vinyl Chloride						CAS #: 75-01-4	
1.940	1.940 (0.347)	62	263835	50.0000	50.000	80.00- 120.00	100.00
1.940	1.940 (0.347)	64	75899			0.00- 58.77	28.77
26 1,3-Butadiene						CAS #: 106-99-0	
1.968	1.968 (0.352)	54	276788	50.0000	50.000	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	303605			79.69- 139.69	109.69
29 Bromomethane						CAS #: 74-83-9	
2.332	2.332 (0.417)	94	191206	50.0000	50.000	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	178957			63.59- 123.59	93.59
30 Chloroethane						CAS #: 75-00-3	
2.444	2.444 (0.437)	64	134052	50.0000	50.000	80.00- 120.00	100.00
2.444	2.444 (0.437)	66	40370			0.12- 60.12	30.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.444	2.444 (0.437)	49	58452			13.60- 73.60	43.60
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	467340	50.0000	50.000	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	273505			28.52- 88.52	58.52
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	855334	50.0000	50.000	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	544101			33.61- 93.61	63.61
42 Ethanol					CAS #: 64-17-5		
3.074	3.074 (0.550)	45	157768	50.0000	50.000	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	33310			0.00- 51.11	21.11
3.074	3.074 (0.550)	46	64216			10.70- 70.70	40.70
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	455459	50.0000	50.000	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	296898			35.19- 95.19	65.19
3.368	3.368 (0.602)	101	537779			88.07- 148.07	118.07
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	233708	50.0000	50.000	80.00- 120.00	100.00
3.396	3.396 (0.607)	98	152270			35.15- 95.15	65.15
3.396	3.396 (0.607)	61	588365			221.75- 281.75	251.75
52 Acetone					CAS #: 67-64-1		
3.549	3.549 (0.635)	58	168088	50.0000	50.000	80.00- 120.00	100.00
3.549	3.549 (0.635)	43	641817			351.83- 411.83	381.83
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	671759	50.0000	50.000	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.717	3.717 (0.665)	45	779802	50.0000	50.000	80.00- 120.00	100.00
3.717	3.717 (0.665)	43	141108			0.00- 48.10	18.10
3.731	3.731 (0.667)	59	26019			0.00- 33.34	3.34
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	112414	50.0000	50.000	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	583220			488.81- 548.81	518.81
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	537012	50.0000	50.000	80.00- 120.00	100.00
4.053	4.053 (0.725)	84	209568			9.02- 69.02	39.02
4.053	4.053 (0.725)	51	158865			0.00- 59.58	29.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	826135	50.0000	50.000	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	191833			0.00- 53.22	23.22
4.179	4.179 (0.747)	57	94809			0.00- 41.48	11.48
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	813989	50.0000	50.000	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	260487			2.00- 62.00	32.00
4.277	4.277 (0.765)	41	273939			3.65- 63.65	33.65
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	163957	50.0000	50.000	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	535566			296.65- 356.65	326.65
4.291	4.291 (0.767)	96	253510			124.62- 184.62	154.62
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	619830	50.0000	50.000	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	464587			44.95- 104.95	74.95
4.501	4.501 (0.805)	86	62753			0.00- 40.12	10.12
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	630762	50.0000	50.000	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	182398			0.00- 58.92	28.92
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	1612355	50.0000	50.000	80.00- 120.00	100.00
4.781	4.781 (0.855)	87	239542			0.00- 44.86	14.86
4.767	4.767 (0.852)	59	145335			0.00- 39.01	9.01
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	71922	50.0000	50.000	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	1490971			2043.04-2103.04	2073.04
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.131	5.131 (0.917)	59	1337759	50.0000	50.000	80.00- 120.00	100.00
5.131	5.131 (0.917)	87	387551			0.00- 58.97	28.97
5.131	5.131 (0.917)	41	280382			0.00- 50.96	20.96
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	181006	50.0000	50.000	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	274999			121.93- 181.93	151.93
5.368	5.368 (0.960)	61	539897			268.28- 328.28	298.28
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	135057	50.0000	50.000	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	1009129			717.19- 777.19	747.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	69003			21.09- 81.09	51.09
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	577656	50.0000	50.000	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	115106			0.00- 49.93	19.93
5.592	5.592 (1.000)	72	118369			0.00- 50.49	20.49
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	661099	50.0000	50.000	80.00- 120.00	100.00
5.662	5.662 (1.012)	85	424980			34.28- 94.28	64.28
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	362533	50.0000	50.000	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	708929			165.55- 225.55	195.55
5.760	5.760 (1.030)	41	429185			88.39- 148.39	118.39
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.788	5.788 (1.035)	97	772279	50.0000	50.000	80.00- 120.00	100.00
5.788	5.788 (1.035)	99	491078			33.59- 93.59	63.59
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	825258	50.0000	50.000	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	866747			75.03- 135.03	105.03
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.096 (1.090)	57	2224120	50.0000	50.000	80.00- 120.00	100.00
6.096	6.096 (1.090)	56	721971			2.46- 62.46	32.46
6.096	6.096 (1.090)	41	568384			0.00- 55.56	25.56
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	789134	50.0000	50.000	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	189574			0.00- 54.02	24.02
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	248198	50.0000	50.000	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	923083			341.91- 401.91	371.91
6.180	6.180 (0.953)	55	380256			123.21- 183.21	153.21
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	617914	50.0000	50.000	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	191339			0.97- 60.97	30.97
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	298002	50.0000	50.000	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	1011823			309.54- 369.54	339.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	516025			143.16- 203.16	173.16
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	408655	50.0000	50.000	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	403985			68.86- 128.86	98.86
6.685	6.685 (1.030)	97	256709			32.82- 92.82	62.82
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	507584	50.0000	50.000	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	241845			17.65- 77.65	47.65
6.786	6.786 (1.046)	55	714750			110.81- 170.81	140.81
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	423757	50.0000	50.000	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	303360			41.59- 101.59	71.59
6.922	6.922 (1.067)	41	299573			40.69- 100.69	70.69
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	212562	50.0000	50.000	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	232468			79.36- 139.36	109.36
7.008	7.008 (1.080)	57	77857			6.63- 66.63	36.63
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	770341	50.0000	50.000	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	494895			34.24- 94.24	64.24
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	614776	50.0000	50.000	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	198952			2.36- 62.36	32.36
7.523	7.523 (1.160)	39	472514			46.86- 106.86	76.86
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	449613	50.0000	50.000	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	1370117			274.73- 334.73	304.73
7.631	7.631 (1.176)	85	129305			0.00- 58.76	28.76
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	1134372	50.0000	50.000	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	647108			27.05- 87.05	57.05
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	8.003 (0.895)	75	606016	50.0000	50.000	80.00- 120.00	100.00
8.003	8.003 (0.895)	77	186872			0.84- 60.84	30.84
7.996	7.996 (0.894)	39	417116			38.83- 98.83	68.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	391448	50.0000	50.000	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	243547			32.22- 92.22	62.22
8.154	8.154 (0.912)	83	331146			54.60- 114.60	84.60
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	574485	50.0000	50.000	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	442995			47.11- 107.11	77.11
8.197	8.197 (0.917)	131	422247			43.50- 103.50	73.50
158 2-Hexanone					CAS #: 591-78-6		
8.319	8.319 (0.930)	58	618126	50.0000	50.000	80.00- 120.00	100.00
8.319	8.319 (0.930)	43	1358583			189.79- 249.79	219.79
8.326	8.326 (0.931)	100	80666			0.00- 43.05	13.05
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	831620	50.0000	50.000	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	638613			46.79- 106.79	76.79
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.591 (0.961)	107	638775	50.0000	50.000	80.00- 120.00	100.00
8.591	8.591 (0.961)	109	603763			64.52- 124.52	94.52
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	963757	50.0000	50.000	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	310929			2.26- 62.26	32.26
8.963	8.963 (1.002)	77	583565			30.55- 90.55	60.55
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	499325	50.0000	50.000	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	1622328			294.90- 354.90	324.90
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	623901	50.0000	50.000	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	1342815			185.23- 245.23	215.23
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	580989	50.0000	50.000	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	1304978			194.61- 254.61	224.61
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	1001629	50.0000	50.000	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	562187			26.13- 86.13	56.13
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	811799	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	424701			22.32- 82.32	52.32
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	1926199	50.0000	50.000	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	502843			0.00- 56.11	26.11
9.737	9.737 (1.089)	51	310937			0.00- 46.14	16.14
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	902985	50.0000	50.000	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	586844			34.99- 94.99	64.99
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	2249810	50.0000	50.000	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	513895			0.00- 52.84	22.84
10.088	10.088 (1.128)	105	83502			0.00- 33.71	3.71
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.181 (1.139)	120	584040	50.0000	50.000	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	1959256			305.47- 365.47	335.47
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	809592	50.0000	50.000	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	1702494			180.29- 240.29	210.29
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	1651371	50.0000	50.000	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	723440			13.81- 73.81	43.81
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	1085957	50.0000	50.000	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	686910			33.25- 93.25	63.25
10.847	10.847 (1.213)	111	461814			12.53- 72.53	42.53
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	1086945	50.0000	50.000	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	682347			32.78- 92.78	62.78
10.926	10.926 (1.222)	111	443483			10.80- 70.80	40.80
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.048	11.048 (1.236)	91	1639220	50.0000	50.000	80.00- 120.00	100.00
11.048	11.048 (1.236)	126	326632			0.00- 49.93	19.93
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	1042140	50.0000	50.000	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	667091			34.01- 94.01	64.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.255	11.255 (1.259)	111	454371			13.60- 73.60	43.60
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	965376	50.0000	50.000	80.00- 120.00	100.00
12.688	12.688 (1.419)	182	908234			64.08- 124.08	94.08
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.781	12.781 (1.429)	225	788442	50.0000	50.000	80.00- 120.00	100.00
12.781	12.781 (1.429)	223	496446			32.97- 92.97	62.97
228 Naphthalene					CAS #: 91-20-3		
12.967	12.967 (1.450)	128	260762	5.00000	5.000	80.00- 120.00	100.00
12.974	12.974 (1.451)	127	33769			0.00- 42.95	12.95

Report Date: 23-Oct-2015 14:10

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102306.d
Lab Smp Id: ICAL Level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 50ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	133140	0.00
123 1,4-Difluorobenze	566731	340039	793423	566731	0.00
163 Chlorobenzene-d5	553811	332287	775335	553811	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102306.d

Date : 23-OCT-2015 13:02

Client ID:

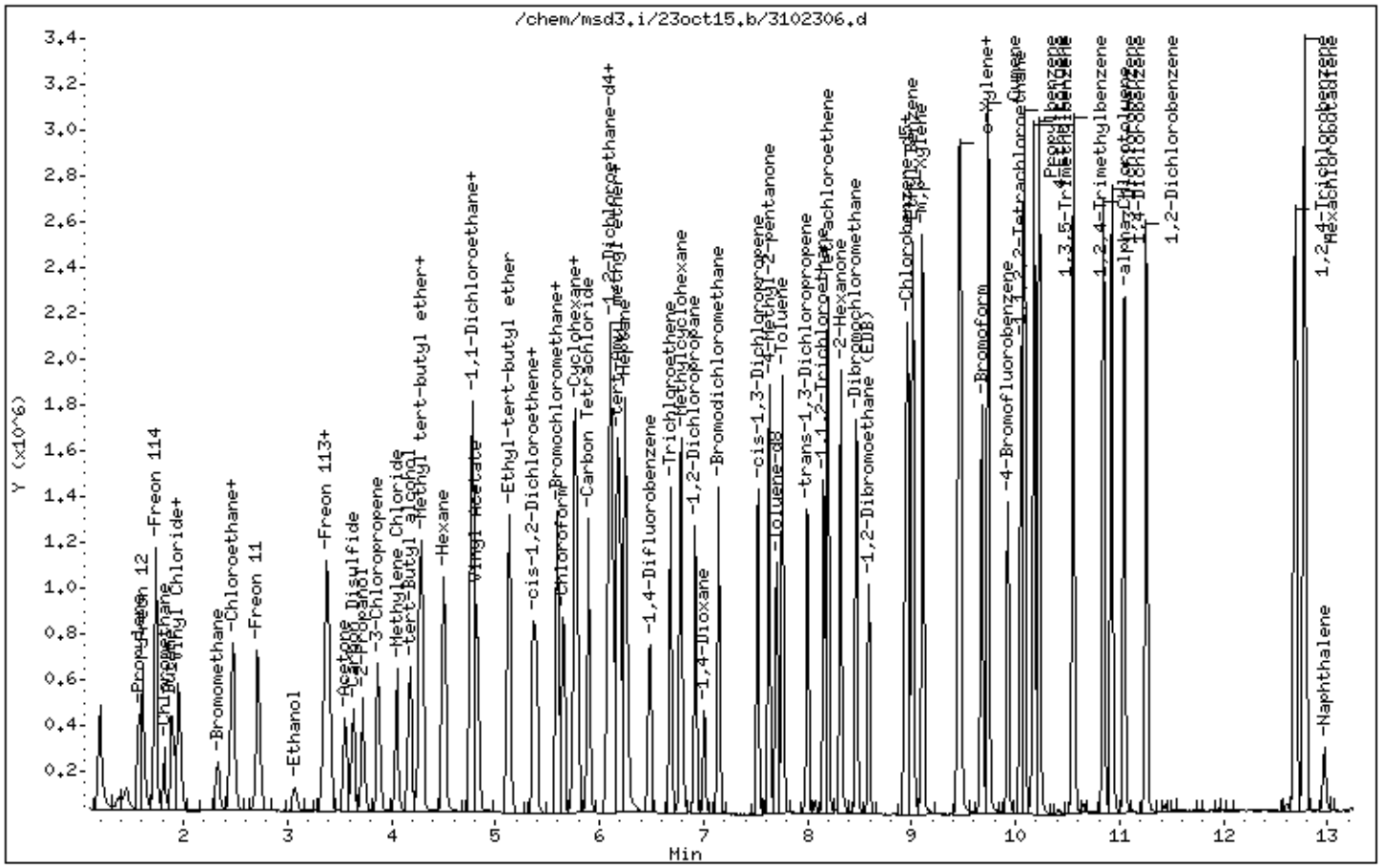
Instrument: msd3.i

Sample Info: 50ml 2736-2

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102307.d
Lab Smp Id: ICAL Level 7
Inj Date : 23-OCT-2015 13:27
Operator : cb Inst ID: msd3.i
Smp Info : 100ml 2736-2
Misc Info : 100ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:11 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 13:27 Cal File: 3102307.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	126747	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	99458			42.88- 102.88	78.47
5.592	5.592 (1.000)	49	298086			207.65- 267.65	235.18
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	567026	25.0000		80.00- 120.00	100.00
6.488	6.488 (1.000)	88	91325			0.00- 45.78	16.11
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.941	8.941 (1.000)	117	557132	25.0000		80.00- 120.00	100.00
8.941	8.941 (1.000)	82	320197			26.67- 86.67	57.47
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	290566	25.0000	26.242	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	145966			22.68- 82.68	50.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	621982	25.0000	25.719	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	67186			0.00- 41.75	10.80
7.702	7.702 (1.187)	100	398565			34.13- 94.13	64.08
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.930 (1.111)	174	338299	25.0000	24.854	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	446549			96.73- 156.73	132.00
9.930	9.930 (1.111)	176	337145			65.47- 125.47	99.66
9 Propylene					CAS #: 115-07-1		
1.576	1.576 (0.282)	41	593855	100.000	103.96	80.00- 120.00	100.00
1.576	1.576 (0.282)	42	403435			37.10- 97.10	67.93
1.576	1.576 (0.282)	39	419580			40.83- 100.83	70.65
11 Freon 12					CAS #: 75-71-8		
1.618	1.618 (0.289)	85	1440434	100.000	105.59	80.00- 120.00	100.00
1.618	1.618 (0.289)	87	461844			2.62- 62.62	32.06
15 Freon 114					CAS #: 76-14-2		
1.730	1.730 (0.309)	135	934239	100.000	102.57	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	297948			1.99- 61.99	31.89
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	550402	100.000	94.618	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	184308			2.33- 62.33	33.49
23 Butane					CAS #: 106-97-8		
1.898	1.898 (0.339)	58	117307	100.000	88.154	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	1117598			902.69- 962.69	952.71
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	534785	100.000	96.563	80.00- 120.00	100.00
1.940	1.940 (0.347)	64	159313			0.00- 58.77	29.79
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.968 (0.352)	54	574747	100.000	91.960	80.00- 120.00	100.00
1.968	1.968 (0.352)	39	624872			79.69- 139.69	108.72
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	372331	100.000	96.574	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	352182			63.59- 123.59	94.59
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	263143	100.000	94.618	80.00- 120.00	100.00
2.458	2.458 (0.440)	66	71658			0.12- 60.12	27.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.458	2.458 (0.440)	49	110002			13.60- 73.60	41.80
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	941957	100.000	100.02	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	548731			28.52- 88.52	58.25
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	1716531	100.000	101.90	80.00- 120.00	100.00
2.724	2.724 (0.487)	103	1106914			33.61- 93.61	64.49
42 Ethanol					CAS #: 64-17-5		
3.074	3.074 (0.550)	45	324975	100.000	95.353	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	65698			0.00- 51.11	20.22
3.074	3.074 (0.550)	46	124714			10.70- 70.70	38.38
49 Freon 113					CAS #: 76-13-1		
3.367	3.367 (0.602)	151	893823	100.000	96.927	80.00- 120.00	100.00
3.367	3.367 (0.602)	153	585552			35.19- 95.19	65.51
3.367	3.367 (0.602)	101	1090772			88.07- 148.07	122.03
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.395	3.395 (0.607)	96	469265	100.000	103.52	80.00- 120.00	100.00
3.409	3.409 (0.610)	98	302221			35.15- 95.15	64.40
3.395	3.395 (0.607)	61	1189260			221.75- 281.75	253.43
52 Acetone					CAS #: 67-64-1		
3.549	3.549 (0.635)	58	331277	100.000	90.578	80.00- 120.00	100.00
3.549	3.549 (0.635)	43	1291417			351.83- 411.83	389.83
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	1315829	100.000	99.498	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.717	3.717 (0.665)	45	1579989	100.000	104.09	80.00- 120.00	100.00
3.717	3.717 (0.665)	43	281453			0.00- 48.10	17.81
3.731	3.731 (0.667)	59	51600			0.00- 33.34	3.27
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	225388	100.000	103.18	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	1173169			488.81- 548.81	520.51
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	1056535	100.000	97.494	80.00- 120.00	100.00
4.053	4.053 (0.725)	84	420646			9.02- 69.02	39.81
4.053	4.053 (0.725)	51	309325			0.00- 59.58	29.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	1671788	100.000	101.11	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	390452			0.00- 53.22	23.36
4.179	4.179 (0.747)	57	186399			0.00- 41.48	11.15
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	1610050	100.000	102.17	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	517318			2.00- 62.00	32.13
4.277	4.277 (0.765)	41	541949			3.65- 63.65	33.66
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	324643	100.000	98.754	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	1069873			296.65- 356.65	329.55
4.291	4.291 (0.767)	96	511121			124.62- 184.62	157.44
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	1240752	100.000	102.37	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	912803			44.95- 104.95	73.57
4.501	4.501 (0.805)	86	120205			0.00- 40.12	9.69
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	1275127	100.000	110.26	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	366140			0.00- 58.92	28.71
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	3225046	100.000	104.12	80.00- 120.00	100.00
4.781	4.781 (0.855)	87	464870			0.00- 44.86	14.41
4.767	4.767 (0.852)	59	290881			0.00- 39.01	9.02
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	144079	100.000	111.54	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	3016626			2043.04-2103.04	2093.73
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.130	5.130 (0.917)	59	2664853	100.000	103.35	80.00- 120.00	100.00
5.130	5.130 (0.917)	87	763126			0.00- 58.97	28.64
5.130	5.130 (0.917)	41	554809			0.00- 50.96	20.82
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	360102	100.000	102.93	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	564687			121.93- 181.93	156.81
5.368	5.368 (0.960)	61	1091352			268.28- 328.28	303.07
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	270301	100.000	109.82	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	2023965			717.19- 777.19	748.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	144205			21.09- 81.09	53.35
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	1161089	100.000	105.70	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	236797			0.00- 49.93	20.39
5.592	5.592 (1.000)	72	244704			0.00- 50.49	21.08
100 Chloroform					CAS #: 67-66-3		
5.662	5.662 (1.012)	83	1325362	100.000	108.11	80.00- 120.00	100.00
5.662	5.662 (1.012)	85	858259			34.28- 94.28	64.76
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	732649	100.000	102.44	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	1427042			165.55- 225.55	194.78
5.760	5.760 (1.030)	41	822675			88.39- 148.39	112.29
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.788	5.788 (1.035)	97	1530982	100.000	100.82	80.00- 120.00	100.00
5.788	5.788 (1.035)	99	972148			33.59- 93.59	63.50
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	1658057	100.000	104.34	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	1710455			75.03- 135.03	103.16
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.096 (1.090)	57	4397034	100.000	104.40	80.00- 120.00	100.00
6.096	6.096 (1.090)	56	1420769			2.46- 62.46	32.31
6.082	6.082 (1.088)	41	1119818			0.00- 55.56	25.47
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	1603013	100.000	102.03	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	377585			0.00- 54.02	23.55
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	483559	100.000	102.80	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	1842431			341.91- 401.91	381.01
6.180	6.180 (0.953)	55	746090			123.21- 183.21	154.29
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.208	6.208 (0.957)	62	1236162	100.000	103.72	80.00- 120.00	100.00
6.208	6.208 (0.957)	64	383456			0.97- 60.97	31.02
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	581103	100.000	94.477	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	1955215			309.54- 369.54	336.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	996741			143.16- 203.16	171.53
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	833373	100.000	104.08	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	814505			68.86- 128.86	97.74
6.685	6.685 (1.030)	97	525704			32.82- 92.82	63.08
127 Methylcyclohexane					CAS #: 108-87-2		
6.785	6.785 (1.046)	83	1020651	100.000	100.42	80.00- 120.00	100.00
6.785	6.785 (1.046)	98	482169			17.65- 77.65	47.24
6.785	6.785 (1.046)	55	1425621			110.81- 170.81	139.68
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	845205	100.000	99.411	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	597521			41.59- 101.59	70.70
6.922	6.922 (1.067)	41	604443			40.69- 100.69	71.51
136 1,4-Dioxane					CAS #: 123-91-1		
7.007	7.007 (1.080)	88	414497	100.000	101.27	80.00- 120.00	100.00
7.007	7.007 (1.080)	58	451547			79.36- 139.36	108.94
7.007	7.007 (1.080)	57	153768			6.63- 66.63	37.10
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	1528383	100.000	102.83	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	992972			34.24- 94.24	64.97
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	1231164	100.000	103.78	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	385122			2.36- 62.36	31.28
7.523	7.523 (1.160)	39	963943			46.86- 106.86	78.30
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	875361	100.000	91.674	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	2695859			274.73- 334.73	307.97
7.631	7.631 (1.176)	85	265876			0.00- 58.76	30.37
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	2306476	100.000	103.82	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	1327425			27.05- 87.05	57.55
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.003	8.003 (0.895)	75	1225395	100.000	106.70	80.00- 120.00	100.00
8.003	8.003 (0.895)	77	390379			0.84- 60.84	31.86
7.996	7.996 (0.894)	39	844599			38.83- 98.83	68.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	784754	100.000	102.09	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	492328			32.22- 92.22	62.74
8.154	8.154 (0.912)	83	673704			54.60- 114.60	85.85
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	1125808	100.000	99.190	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	881658			47.11- 107.11	78.31
8.197	8.197 (0.917)	131	852621			43.50- 103.50	75.73
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.318 (0.930)	58	1243726	100.000	99.593	80.00- 120.00	100.00
8.318	8.318 (0.930)	43	2726422			189.79- 249.79	219.21
8.325	8.325 (0.931)	100	166097			0.00- 43.05	13.35
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	1659256	100.000	105.50	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	1283273			46.79- 106.79	77.34
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.591 (0.961)	107	1291592	100.000	100.47	80.00- 120.00	100.00
8.591	8.591 (0.961)	109	1206471			64.52- 124.52	93.41
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	1941230	100.000	101.31	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	613120			2.26- 62.26	31.58
8.963	8.963 (1.002)	77	1152958			30.55- 90.55	59.39
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	986197	100.000	97.625	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	3232282			294.90- 354.90	327.75
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	1260856	100.000	101.60	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	2674960			185.23- 245.23	212.15
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	1170128	100.000	97.447	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	2637951			194.61- 254.61	225.44
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	1996377	100.000	101.29	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	1125411			26.13- 86.13	56.37
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	1653144	100.000	103.22	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	849962			22.32- 82.32	51.41
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	3832981	100.000	102.31	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	992641			0.00- 56.11	25.90
9.737	9.737 (1.089)	51	614780			0.00- 46.14	16.04
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	1785639	100.000	97.934	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	1164744			34.99- 94.99	65.23
182 Propylbenzene					CAS #: 103-65-1		
10.080	10.080 (1.127)	91	4504805	100.000	101.12	80.00- 120.00	100.00(A)
10.088	10.088 (1.128)	120	1041777			0.00- 52.84	23.13
10.088	10.088 (1.128)	105	160854			0.00- 33.71	3.57
188 4-Ethyltoluene					CAS #: 622-96-8		
10.174	10.174 (1.138)	120	1134366	100.000	98.488	80.00- 120.00	100.00
10.181	10.181 (1.139)	105	3830482			305.47- 365.47	337.68
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	1578951	100.000	101.46	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	3393419			180.29- 240.29	214.92
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	3314102	100.000	101.68	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	1436424			13.81- 73.81	43.34
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	2159774	100.000	101.06	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	1372485			33.25- 93.25	63.55
10.847	10.847 (1.213)	111	916000			12.53- 72.53	42.41
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	2203150	100.000	99.986	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	1374507			32.78- 92.78	62.39
10.926	10.926 (1.222)	111	879310			10.80- 70.80	39.91
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.047	11.047 (1.236)	91	3327323	100.000	105.74	80.00- 120.00	100.00
11.047	11.047 (1.236)	126	666787			0.00- 49.93	20.04
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	2082752	100.000	101.44	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	1307827			34.01- 94.01	62.79

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)								
11.255	11.255	(1.259)	111	895965			13.60- 73.60	43.02
226 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
12.688	12.688	(1.419)	180	1929019	100.000	108.78	80.00- 120.00	100.00
12.688	12.688	(1.419)	182	1853686			64.08- 124.08	96.09
227 Hexachlorobutadiene						CAS #: 87-68-3		
12.781	12.781	(1.429)	225	1600246	100.000	107.21	80.00- 120.00	100.00
12.781	12.781	(1.429)	223	1009227			32.97- 92.97	63.07
228 Naphthalene						CAS #: 91-20-3		
12.967	12.967	(1.450)	128	524957	10.0000	11.503	80.00- 120.00	100.00
12.967	12.967	(1.450)	127	65783			0.00- 42.95	12.53

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102307.d
Lab Smp Id: ICAL Level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 100ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	126747	-4.80
123 1,4-Difluorobenze	566731	340039	793423	567026	0.05
163 Chlorobenzene-d5	553811	332287	775335	557132	0.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102307.d

Date : 23-OCT-2015 13:27

Client ID:

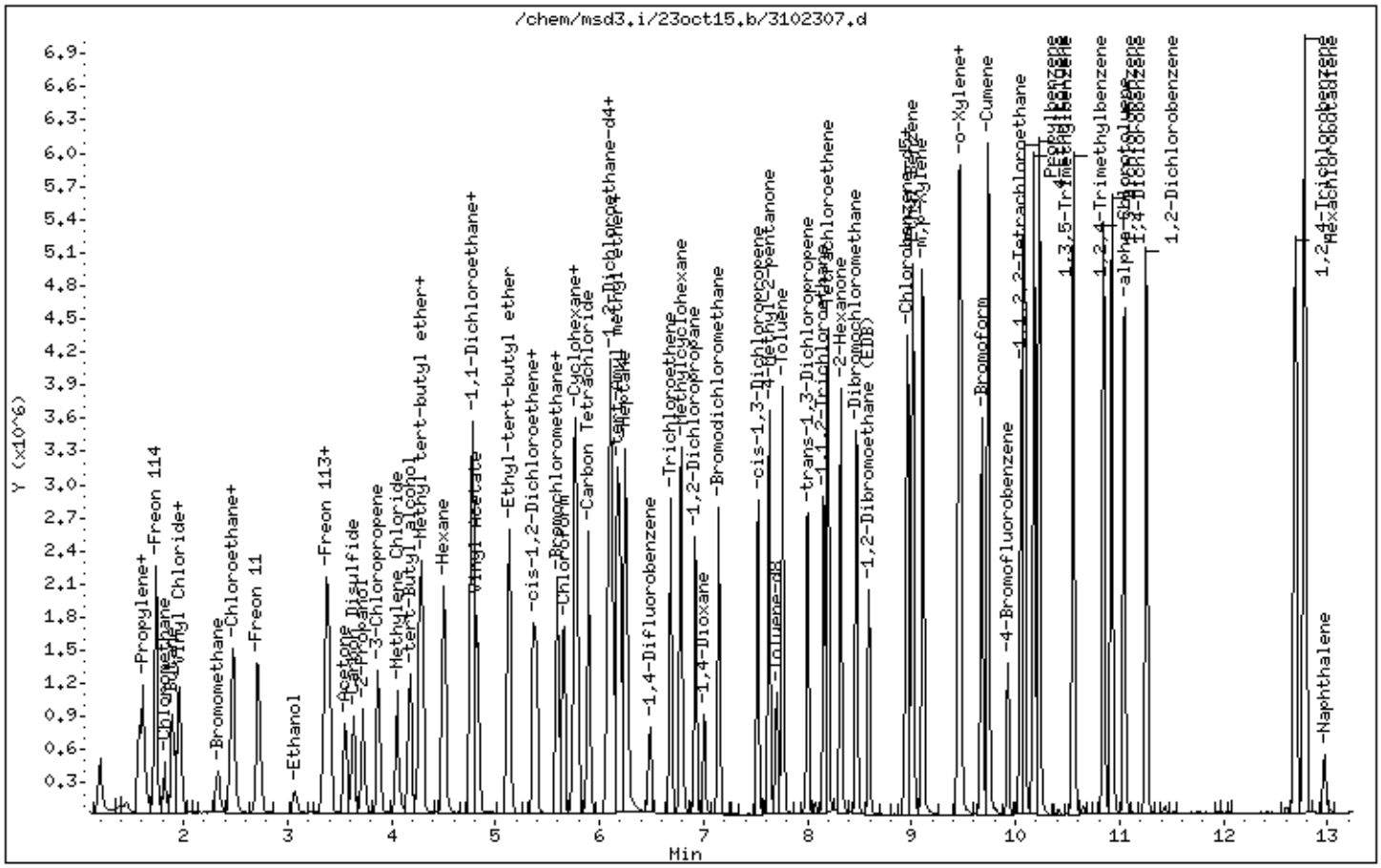
Instrument: msd3.i

Sample Info: 100ml 2736-2

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/23oct15.b/3102308.d
Lab Smp Id: ICAL Level 8
Inj Date : 23-OCT-2015 13:59
Operator : cb Inst ID: msd3.i
Smp Info : 200ml 2736-2
Misc Info : 200ppbv
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msd3.i/23oct15.b/315q1023a.m
Meth Date : 23-Oct-2015 14:26 cbond Quant Type: ISTD
Cal Date : 23-OCT-2015 13:59 Cal File: 3102308.d
Als bottle: 13 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	127975	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	104917			42.88- 102.88	81.98
5.592	5.592 (1.000)	49	301698			207.65- 267.65	235.75
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	567298	25.0000		80.00- 120.00	100.00
6.488	6.488 (1.000)	88	93012			0.00- 45.78	16.40
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	574821	25.0000		80.00- 120.00	100.00
8.942	8.942 (1.000)	82	321473			26.67- 86.67	55.93
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.138 (1.098)	65	296361	25.0000	26.282	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	141195			22.68- 82.68	47.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	629066	25.0000	25.852	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	77310			0.00- 41.75	12.29
7.702	7.702 (1.187)	100	409905			34.13- 94.13	65.16
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.930 (1.111)	174	355650	25.0000	25.278	80.00- 120.00	100.00
9.930	9.930 (1.111)	95	465269			96.73- 156.73	130.82
9.930	9.930 (1.111)	176	351764			65.47- 125.47	98.91
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	979008	200.000	174.14	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	662632			37.10- 97.10	67.68
1.577	1.577 (0.282)	39	701214			40.83- 100.83	71.62
11 Freon 12					CAS #: 75-71-8		
1.619	1.619 (0.289)	85	2385402	200.000	176.57	80.00- 120.00	100.00
1.619	1.619 (0.289)	87	765250			2.62- 62.62	32.08
15 Freon 114					CAS #: 76-14-2		
1.731	1.731 (0.309)	135	1520807	200.000	169.56	80.00- 120.00	100.00
1.745	1.745 (0.312)	137	486368			1.99- 61.99	31.98
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	942585	200.000	165.95	80.00- 120.00	100.00(A)
1.814	1.814 (0.324)	52	301624			2.33- 62.33	32.00
23 Butane					CAS #: 106-97-8		
1.898	1.898 (0.339)	58	197982	200.000	154.11	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	1849264			902.69- 962.69	934.06
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	885189	200.000	163.16	80.00- 120.00	100.00
1.940	1.940 (0.347)	64	257844			0.00- 58.77	29.13
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.968 (0.352)	54	949160	200.000	155.93	80.00- 120.00	100.00
1.968	1.968 (0.352)	39	1021761			79.69- 139.69	107.65
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	624748	200.000	165.95	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	589738			63.59- 123.59	94.40
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	417987	200.000	155.48	80.00- 120.00	100.00
2.458	2.458 (0.440)	66	121535			0.12- 60.12	29.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.458	2.458 (0.440)	49	174455			13.60- 73.60	41.74
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	1523645	200.000	165.73	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	893932			28.52- 88.52	58.67
35 Freon 11					CAS #: 75-69-4		
2.724	2.724 (0.487)	101	2779272	200.000	167.79	80.00- 120.00	100.00
2.724	2.724 (0.487)	103	1797367			33.61- 93.61	64.67
42 Ethanol					CAS #: 64-17-5		
3.074	3.074 (0.550)	45	533094	200.000	160.96	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	105627			0.00- 51.11	19.81
3.074	3.074 (0.550)	46	209240			10.70- 70.70	39.25
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	1466350	200.000	162.42	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	952170			35.19- 95.19	64.93
3.368	3.368 (0.602)	101	1775401			88.07- 148.07	121.08
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	764512	200.000	171.07	80.00- 120.00	100.00
3.410	3.410 (0.610)	98	496097			35.15- 95.15	64.89
3.396	3.396 (0.607)	61	1922313			221.75- 281.75	251.44
52 Acetone					CAS #: 67-64-1		
3.549	3.549 (0.635)	58	533616	200.000	151.51	80.00- 120.00	100.00
3.549	3.549 (0.635)	43	2061149			351.83- 411.83	386.26
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	2150740	200.000	166.47	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.717	3.717 (0.665)	45	2552770	200.000	171.34	80.00- 120.00	100.00
3.717	3.717 (0.665)	43	460867			0.00- 48.10	18.05
3.731	3.731 (0.667)	59	80892			0.00- 33.34	3.17
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	367713	200.000	171.47	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	1909913			488.81- 548.81	519.40
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	1685862	200.000	159.30	80.00- 120.00	100.00
4.053	4.053 (0.725)	84	661780			9.02- 69.02	39.25
4.053	4.053 (0.725)	51	488072			0.00- 59.58	28.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	2723100	200.000	168.29	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	618362			0.00- 53.22	22.71
4.179	4.179 (0.747)	57	300638			0.00- 41.48	11.04
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	2627249	200.000	169.34	80.00- 120.00	100.00
4.263	4.263 (0.762)	57	846854			2.00- 62.00	32.23
4.263	4.263 (0.762)	41	862883			3.65- 63.65	32.84
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	532365	200.000	165.06	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	1761092			296.65- 356.65	330.81
4.291	4.291 (0.767)	96	832650			124.62- 184.62	156.41
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	2019596	200.000	169.26	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	1490237			44.95- 104.95	73.79
4.501	4.501 (0.805)	86	198125			0.00- 40.12	9.81
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	2048516	200.000	178.57	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	595066			0.00- 58.92	29.05
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	5204031	200.000	171.20	80.00- 120.00	100.00
4.767	4.767 (0.852)	87	771126			0.00- 44.86	14.82
4.767	4.767 (0.852)	59	466830			0.00- 39.01	8.97
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	234621	200.000	182.95	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	4744592			2043.04-2103.04	2022.24
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.131	5.131 (0.917)	59	4374408	200.000	172.62	80.00- 120.00	100.00
5.131	5.131 (0.917)	87	1254422			0.00- 58.97	28.68
5.131	5.131 (0.917)	41	888049			0.00- 50.96	20.30
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	593782	200.000	172.02	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	907531			121.93- 181.93	152.84
5.368	5.368 (0.960)	61	1771530			268.28- 328.28	298.35
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	432282	200.000	177.81	80.00- 120.00	100.00
5.396	5.396 (0.965)	43	3231431			717.19- 777.19	747.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	224323			21.09- 81.09	51.89
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	1847760	200.000	170.67	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	378664			0.00- 49.93	20.49
5.592	5.592 (1.000)	72	401070			0.00- 50.49	21.71
100 Chloroform					CAS #: 67-66-3		
5.662	5.662 (1.012)	83	2145549	200.000	176.70	80.00- 120.00	100.00
5.662	5.662 (1.012)	85	1408031			34.28- 94.28	65.63
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	1158836	200.000	165.13	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	2294970			165.55- 225.55	198.04
5.760	5.760 (1.030)	41	1343394			88.39- 148.39	115.93
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	2460279	200.000	165.13	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	1574653			33.59- 93.59	64.00
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	2670779	200.000	170.54	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	2759148			75.03- 135.03	103.31
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.082	6.082 (1.088)	57	7155007	200.000	172.15	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	2330206			2.46- 62.46	32.57
6.082	6.082 (1.088)	41	1844901			0.00- 55.56	25.78
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	2586899	200.000	168.85	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	608261			0.00- 54.02	23.51
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	784104	200.000	171.39	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	3022238			341.91- 401.91	385.44
6.180	6.180 (0.953)	55	1194918			123.21- 183.21	152.39
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	1961834	200.000	168.81	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	605425			0.97- 60.97	30.86
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	949215	200.000	159.46	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	3188079			309.54- 369.54	335.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	1659399			143.16- 203.16	174.82
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.685 (1.030)	95	1333855	200.000	170.59	80.00- 120.00	100.00
6.685	6.685 (1.030)	130	1321210			68.86- 128.86	99.05
6.685	6.685 (1.030)	97	861122			32.82- 92.82	64.56
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	1653069	200.000	167.03	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	788045			17.65- 77.65	47.67
6.786	6.786 (1.046)	55	2313740			110.81- 170.81	139.97
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	1365515	200.000	165.19	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	972818			41.59- 101.59	71.24
6.922	6.922 (1.067)	41	951109			40.69- 100.69	69.65
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	667664	200.000	168.23	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	735734			79.36- 139.36	110.20
7.008	7.008 (1.080)	57	246542			6.63- 66.63	36.93
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	2510902	200.000	172.70	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	1602251			34.24- 94.24	63.81
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	1986117	200.000	171.33	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	637110			2.36- 62.36	32.08
7.523	7.523 (1.160)	39	1509646			46.86- 106.86	76.01
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	1436706	200.000	155.92	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	4352848			274.73- 334.73	302.97
7.631	7.631 (1.176)	85	420741			0.00- 58.76	29.29
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	3673531	200.000	169.48	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	2123755			27.05- 87.05	57.81
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.996	7.996 (0.894)	75	1986060	200.000	171.57	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	628674			0.84- 60.84	31.65
7.996	7.996 (0.894)	39	1328025			38.83- 98.83	66.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	1281307	200.000	166.12	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	781008			32.22- 92.22	60.95
8.154	8.154 (0.912)	83	1092941			54.60- 114.60	85.30
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	1840104	200.000	162.10	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	1427940			47.11- 107.11	77.60
8.197	8.197 (0.917)	131	1375346			43.50- 103.50	74.74
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.318 (0.930)	58	2023109	200.000	161.99	80.00- 120.00	100.00
8.318	8.318 (0.930)	43	4347996			189.79- 249.79	214.92
8.326	8.326 (0.931)	100	263246			0.00- 43.05	13.01
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	2734632	200.000	172.40	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	2107556			46.79- 106.79	77.07
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.591	8.591 (0.961)	107	2098415	200.000	163.07	80.00- 120.00	100.00
8.591	8.591 (0.961)	109	1980044			64.52- 124.52	94.36
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	3147293	200.000	163.98	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	1009914			2.26- 62.26	32.09
8.963	8.963 (1.002)	77	1886273			30.55- 90.55	59.93
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.013 (1.008)	106	1601558	200.000	158.92	80.00- 120.00	100.00
9.013	9.013 (1.008)	91	5284766			294.90- 354.90	329.98
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	2033213	200.000	163.61	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	4318784			185.23- 245.23	212.41
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	1914666	200.000	159.73	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	4275325			194.61- 254.61	223.29
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	3277532	200.000	165.77	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	1826608			26.13- 86.13	55.73
174 Bromoform					CAS #: 75-25-2		
9.679	9.679 (1.083)	173	2710686	200.000	168.37	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.679	9.679 (1.083)	171	1400398			22.32- 82.32	51.66
175 Cumene					CAS #: 98-82-8		
9.744	9.744 (1.090)	105	6318261	200.000	167.83	80.00- 120.00	100.00
9.744	9.744 (1.090)	120	1620294			0.00- 56.11	25.64
9.737	9.737 (1.089)	51	986485			0.00- 46.14	15.61
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.059	10.059 (1.125)	83	2920284	200.000	160.36	80.00- 120.00	100.00
10.059	10.059 (1.125)	85	1910476			34.99- 94.99	65.42
182 Propylbenzene					CAS #: 103-65-1		
10.088	10.088 (1.128)	91	7401709	200.000	165.64	80.00- 120.00	100.00(A)
10.088	10.088 (1.128)	120	1698503			0.00- 52.84	22.95
10.088	10.088 (1.128)	105	275777			0.00- 33.71	3.73
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.181 (1.139)	120	1895506	200.000	164.26	80.00- 120.00	100.00
10.181	10.181 (1.139)	105	6376334			305.47- 365.47	336.39
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.238	10.238 (1.145)	120	2574566	200.000	165.02	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	5545136			180.29- 240.29	215.38
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.561	10.561 (1.181)	105	5443584	200.000	166.40	80.00- 120.00	100.00
10.561	10.561 (1.181)	120	2377333			13.81- 73.81	43.67
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.854	10.854 (1.214)	146	3529935	200.000	164.79	80.00- 120.00	100.00
10.854	10.854 (1.214)	148	2244705			33.25- 93.25	63.59
10.854	10.854 (1.214)	111	1492354			12.53- 72.53	42.28
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.933	10.933 (1.223)	146	3564948	200.000	161.80	80.00- 120.00	100.00
10.933	10.933 (1.223)	148	2244778			32.78- 92.78	62.97
10.933	10.933 (1.223)	111	1441903			10.80- 70.80	40.45
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.055	11.055 (1.236)	91	5470673	200.000	172.38	80.00- 120.00	100.00
11.055	11.055 (1.236)	126	1116635			0.00- 49.93	20.41
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.270	11.270 (1.260)	146	3392645	200.000	164.84	80.00- 120.00	100.00
11.270	11.270 (1.260)	148	2165746			34.01- 94.01	63.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.270	11.270 (1.260)	111	1452619			13.60- 73.60	42.82
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.702	12.702 (1.421)	180	3275295	200.000	182.20	80.00- 120.00	100.00
12.702	12.702 (1.421)	182	3127739			64.08- 124.08	95.49
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.795	12.795 (1.431)	225	2723234	200.000	180.31	80.00- 120.00	100.00
12.795	12.795 (1.431)	223	1709698			32.97- 92.97	62.78
228 Naphthalene					CAS #: 91-20-3		
12.989	12.989 (1.453)	128	876102	20.0000	18.825	80.00- 120.00	100.00
12.989	12.989 (1.453)	127	118652			0.00- 42.95	13.54

QC Flag Legend

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

Report Date: 23-Oct-2015 14:26

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3102308.d
Lab Smp Id: ICAL Level 8
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd3.i/23oct15.b/315q1023a.m
Misc Info: 200ppbv

Calibration Date: 23-OCT-2015
Calibration Time: 13:02

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	133140	79884	186396	127975	-3.88
123 1,4-Difluorobenze	566731	340039	793423	567298	0.10
163 Chlorobenzene-d5	553811	332287	775335	574821	3.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/23oct15.b/3102308.d

Date : 23-OCT-2015 13:59

Client ID:

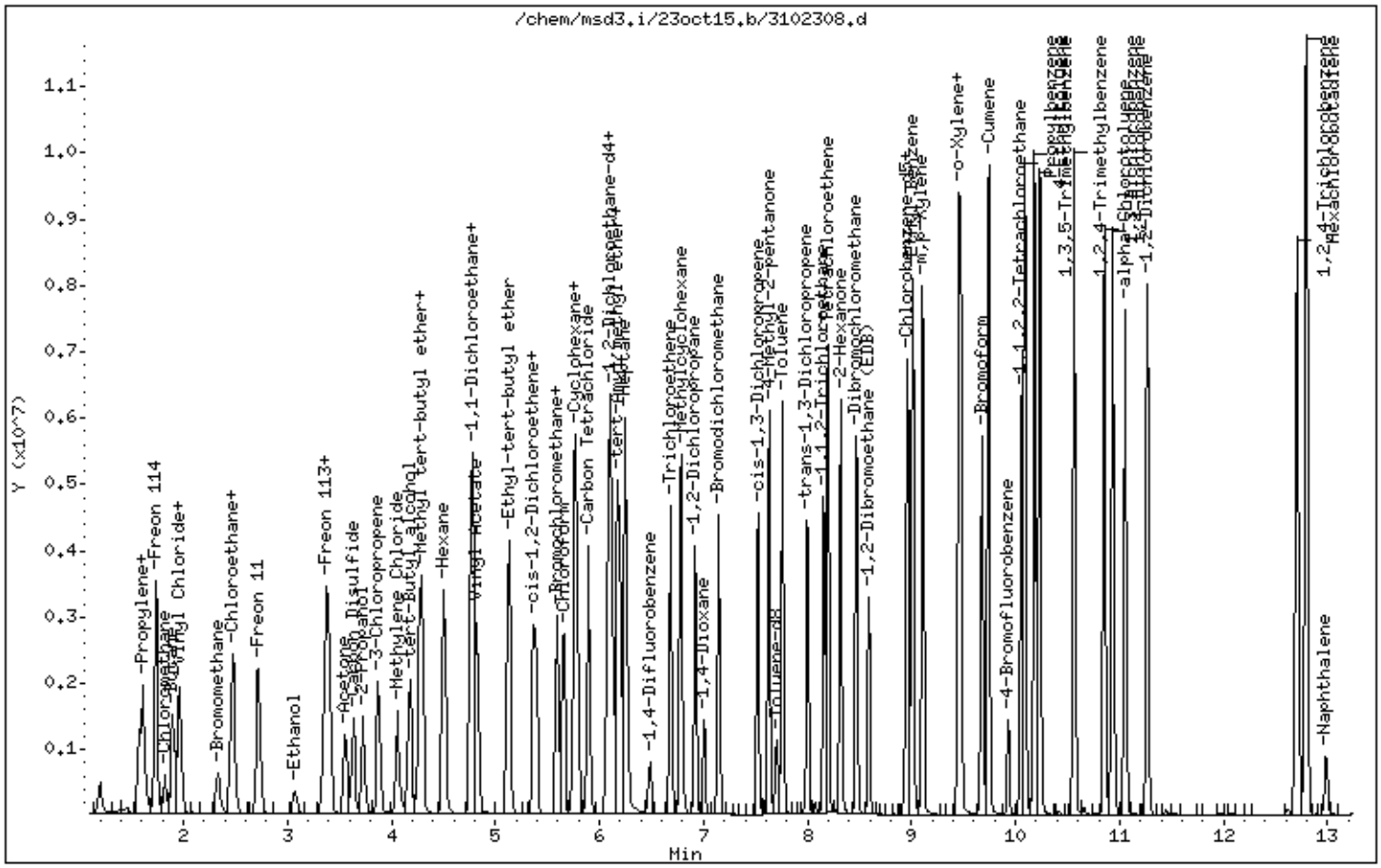
Instrument: msd3.i

Sample Info: 200ml 2736-2

Operator: cb

Column phase: RTX-624

Column diameter: 0.25



TO15 MDL (0.5ppbv)

MSD3
#2716-235 0.5ppbv (5.0ppbv)
exp. 6/4/15
Load volume: 20 ml

0613 of 0802

Report Date : 17-Apr-2015 21:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

MDL verification
#2716-235 0.25ppbv (5.0pp
loaded at 10ml
file #3041724

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	3041705	3041706	3041707	3041708	3041709	3041710	3041711	3041712
INJ.DATE:	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015
INJ.TIME:	14:07	14:32	14:57	15:22	15:47	16:12	16:37	17:02

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (pptv)	ppbv (RL)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	✓ 538.62	✓ 548.04	✓ 547.11	✓ 534.09	✓ 567.64	✓ 558.35	✓ 663.15	✓ 563.52	✓ 565.07	✓ 41.31	✓ 123.85	0.5
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	✓ 553.28	✓ 517.11	✓ 521.70	✓ 527.51	✓ 517.26	✓ 508.95	✓ 625.02	✓ 509.75	✓ 535.07	✓ 38.96	✓ 116.79	0.5
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 [signature] Date: 4/20/15
Reviewer 2 [signature] Date: 4/21/15

$\bar{X} = 0.12$
$2\bar{X} = 0.24$

all 0.5ppbv compounds → Ratio of the mean recovered concentration and the

Report Date : 17-Apr-2015 21:48

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	~~ppbv~~ MDL	ppbv (Rx)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	535.70	538.44	510.22	549.29	549.65	489.91	599.57	529.27	537.76	32.11	96.28	0.5
26 1,3-Butadiene	552.17	841.81	673.85	623.00	540.93	614.36	598.98	664.70	638.73	94.59	283.57	0.5
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	571.74	545.53	557.53	545.62	546.42	536.51	646.59	541.51	561.43	36.09	108.21	0.5
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	ppbv(RL)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	580.58	570.93	568.84	563.88	600.27	568.43	628.86	576.37	582.27	21.94	65.79	0.5
50 1,1-Dichloroethene	656.95	584.36	625.24	551.37	572.64	557.80	643.53	591.73	597.95	39.55	118.56	0.5
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	ppbv (RL)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
72 Methyl tert-butyl ethe	564.72	539.94	542.44	532.01	543.15	533.95	604.26	555.69	552.02	23.75	71.19	0.5
73 trans-1,2-Dichloroethe	551.02	552.00	556.38	521.35	541.41	510.03	610.09	544.38	548.33	29.66	88.92	0.5
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	521.31	551.77	528.15	514.58	550.40	539.31	636.83	540.95	547.91	38.28	114.77	0.5
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	539.52	545.98	505.68	538.77	532.90	517.55	637.87	506.88	540.64	42.16	126.39	0.5
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	ppbv(RL)
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	563.59	543.79	558.17	549.87	589.83	560.83	607.34	533.11	563.31	24.35	72.99	0.5
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 98 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
99 Tetrahydrofuran	520.94	482.13	494.65	522.92	532.28	493.16	594.38	485.47	515.74	36.91	110.66	0.5
100 Chloroform	558.42	549.26	538.19	532.45	533.23	539.93	665.90	518.08	554.43	46.59	139.69	0.5
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Cyclohexane	565.39	558.32	594.02	549.50	559.79	564.71	656.87	547.75	574.54	36.18	108.47	0.5
103 1,1,1-Trichloroethane	592.82	563.61	562.69	557.66	572.42	551.50	655.10	573.45	578.66	33.32	99.88	0.5
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 Carbon Tetrachloride	569.12	536.06	531.38	558.34	541.35	520.09	649.02	523.69	553.63	41.98	125.86	0.5
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	ppb MDL	ppbv(RL)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	499.10	485.74	521.34	502.15	508.25	480.22	565.31	487.12	506.15	27.39	82.12	0.5
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	563.64	545.53	559.29	534.15	562.49	548.18	663.53	553.97	566.35	40.48	121.35	0.5
$ 117 1,2-Dichloroethane-d4	23955.97	24175.61	23932.55	24266.52	24206.92	24212.69	23900.74	24185.57	24104.57	147.95	443.55	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
120 1,2-Dichloroethane	601.67	602.02	605.02	566.61	607.59	585.44	722.78	591.98	610.39	47.35	141.95	0.5
121 Heptane	590.91	587.92	581.93	549.42	601.56	542.92	695.39	561.57	588.95	47.77	143.21	0.5
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	593.83	603.82	583.23	559.33	581.07	589.25	726.64	583.92	602.64	51.69	154.97	0.5
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	578.92	590.84	548.11	551.48	575.45	565.01	684.63	548.39	580.36	44.94	134.74	0.5
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	ppbv(RL)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	569.96	565.17	569.09	546.09	559.79	538.66	667.03	537.85	569.21	41.62	124.77	0.5
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	536.03	494.85	503.17	513.38	520.50	501.31	628.65	500.09	524.75	44.06	132.09	0.5
145 4-Methyl-2-pentanone	560.28	549.68	529.66	509.45	553.51	532.13	578.27	522.87	541.98	22.41	67.19	0.5
$ 146 Toluene-d8	25309.47	25406.02	25149.95	25083.28	25089.74	25312.82	24892.04	25222.90	25183.28	164.13	492.06	
147 Toluene	540.87	558.56	566.12	519.77	539.19	562.96	694.29	542.44	565.52	54.20	162.49	0.5
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	503.59	490.39	498.82	509.66	512.22	495.22	618.87	508.08	517.11	41.79	125.29	0.5
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	542.53	578.02	574.66	527.13	541.51	521.86	703.51	554.94	568.02	58.34	174.91	0.5
156 Tetrachloroethene	582.47	562.63	568.86	556.12	589.58	590.40	740.35	575.08	595.69	59.73	179.06	0.5
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	~~ppbv~~ ppbv(RL) MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	559.10	546.23	549.58	536.16	543.07	531.27	666.21	516.70	556.04	46.31	138.83 0.5
161 1,2-Dibromoethane (EDB	507.82	517.33	505.11	503.98	513.11	515.94	633.62	505.03	525.24	44.10	132.20 0.5
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 163 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	541.03	516.42	537.71	502.87	532.33	516.93	657.89	526.35	541.44	48.70	146.00 0.5
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	525.50	537.74	526.51	516.40	534.83	520.58	645.68	533.73	542.62	42.28	126.74 0.5
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	519.66	520.06	516.65	527.07	515.81	526.10	640.10	521.40	535.86	42.31	126.84 0.5
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	530.29	526.98	533.99	507.45	522.45	505.70	638.33	528.44	536.71	42.36	126.99 0.5
172 Styrene	502.04	502.16	502.89	492.77	505.92	507.99	605.73	498.86	514.80	37.03	111.01 0.5
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	543.62	535.38	567.10	534.38	554.76	539.53	653.96	538.29	558.38	40.19	120.49 0.5
175 Cumene	540.21	547.27	539.73	510.54	532.66	511.06	631.16	527.52	542.52	38.22	114.60 0.5
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 177 4-Bromofluorobenzene	24643.91	24883.56	25105.24	24711.13	25011.35	24984.74	24557.07	24859.13	24844.52	191.94	575.42
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	532.02	538.53	527.77	523.45	550.27	542.36	626.32	545.94	548.33	32.80	98.34 0.5
182 Propylbenzene	541.27	534.57	520.59	513.42	542.61	523.85	620.53	520.30	539.64	34.34	102.95 0.5

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	ppbv MDL	ppbv(RL)
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
188 4-Ethyltoluene	558.64	518.85	520.96	511.23	548.42	529.63	634.06	517.79	542.45	40.45	121.28	0.5ppbv
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
190 1,3,5-Trimethylbenzene	601.06	582.42	554.75	531.08	554.58	537.96	611.23	531.53	563.08	31.46	94.31	0.5
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
196 1,2,4-Trimethylbenzene	587.83	577.09	562.75	531.47	553.81	536.92	609.93	530.32	561.27	28.84	86.45	0.5
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	ppbv (RL)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	546.10	557.13	553.06	547.66	567.86	537.96	649.09	548.57	563.43	35.70	107.04	0.5
209 1,4-Dichlorobenzene	546.89	550.50	558.90	539.37	548.36	545.30	636.20	543.44	558.62	31.86	95.52	0.5
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	482.22	501.31	477.64	503.29	479.86	481.56	569.11	487.33	497.79	30.41	91.17	0.5
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	555.22	554.19	569.37	534.94	551.07	530.83	636.03	560.14	561.47	32.66	97.91	0.5
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

TO15MDL-MSD3
(2.0ppbv) #2716-235 2.0ppbv(5.0
exp. 6/14/15
Load volume 80m
Page 1

MDL verification
#2716-235 0.4ppbv (5.0pp
exp. 6/14/15 Load volume 160
file #3041725

Report Date : 17-Apr-2015 22:18

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	3041713	3041714	3041715	3041716	3041717	3041718	3041719	3041720
INJ.DATE:	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015	17-APR-2015
INJ.TIME:	17:27	17:53	18:18	18:43	19:09	19:34	19:59	20:25

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (pptv)	ppbv (RL)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	1990.95	2039.18	2015.56	1989.93	2065.83	1994.59	1991.39	2015.27	2012.84	27.55	82.59	2.0
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	2396.77	2417.28	2212.32	2392.58	2383.09	2472.71	2423.49	2401.88	2387.52	76.04	227.95	5.0

Reviewer 1 [signature] Date: 4/20/15
Reviewer 2 [signature] Date: 4/21/15

$\bar{x}$ 0.19 ppbv
$2\bar{x}$ = 0.37

See narrative → Ratio of the mean recovered concentration and

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Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	ppbv ppbv(RL)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	2419.34	2474.99	2283.50	2539.99	2407.42	2478.04	2450.04	2252.52	2413.23	98.68	295.85	2.0
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	2158.71	2160.70	2041.11	2002.74	2090.70	2075.68	2190.69	2067.93	2098.53	65.44	196.18	5.0
30 Chloroethane	2020.61	2295.56	2138.98	2159.85	2145.77	2132.96	2195.47	2121.79	2151.37	76.81	230.29	2.0
31 Isopentane	2056.24	2096.89	1971.65	2028.87	2057.17	1964.28	2009.65	2030.05	2026.85	44.66	133.89	2.0
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	ppbv MDL	ppbv(RL)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	1961.62	1977.61	2178.60	2459.37	2526.09	2217.50	1958.51	2423.92	2212.90	235.37	705.62	2.0
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	2111.95	2195.70	2093.91	2112.42	2179.38	2086.04	2122.72	2182.85	2135.62	43.46	130.28	5.0
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	2065.89	2094.79	2061.58	2045.64	2088.17	2039.55	2118.13	2053.02	2070.85	27.13	81.33	2.0
57 2-Propanol	1936.41	2047.91	1912.51	1948.18	2043.87	2030.53	1979.89	2003.99	1987.91	51.80	155.31	2.0
58 3-Chloropropene	1962.81	1981.49	2008.77	1966.90	2073.55	1899.94	1970.99	2022.97	1985.93	50.86	152.47	2.0
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	~~ppbv~~ MDL	ppbv
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	2003.17	2128.08	1996.23	2139.74	2145.73	1971.65	2103.72	2131.64	2077.49	73.72	221.01	2.0
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	1959.05	1999.63	1911.54	1967.31	1960.46	1934.13	2005.89	1957.17	1961.90	31.00	92.95	2.0
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
83 Isopropyl ether	1986.59	1928.23	1924.80	1969.89	1907.94	1856.53	1956.44	1906.54	1929.62	41.33	123.90	2.0
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	2111.49	2064.14	1935.77	2003.24	1980.58	1962.72	2059.59	1981.64	2012.40	59.89	179.54	2.0

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	ppbv MDL	ppbv (R)
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	1912.12	1953.44	1903.75	1899.99	1926.73	1888.49	1941.61	1925.25	1918.92	21.94	65.76	2.0
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
92 2-Butanone	1927.95	2045.82	1853.92	1950.14	1926.48	1908.82	1959.59	1927.36	1937.51	54.12	162.26	2.0
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 98 Bromochloromethane	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	ppbv MDL	ppbv (RL)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 117 1,2-Dichloroethane-d4	24224.07	24411.01	23926.98	24369.05	24462.58	23950.24	24818.67	24541.44	24338.00	299.17	896.91	4/4/15 ~~2.0~~
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	1991.17	2017.55	1966.74	1963.70	2058.91	1937.13	2049.09	2050.88	2004.39	46.41	139.14	2.0
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	1724.91	1762.32	1868.21	1813.61	1821.18	1744.27	2305.06	2302.96	1917.81	242.74	727.74	2.0
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	~~ppbv~~ MDL	ppbv
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	1954.33	2048.31	1995.45	2003.84	2041.22	1893.50	1987.43	2045.71	1996.22	52.96	158.76	2.0
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 146 Toluene-d8	24785.20	25100.64	24805.36	24833.94	24944.93	24257.87	24791.15	25198.86	24839.74	281.13	842.82	
147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	1847.95	1906.74	1860.16	1849.71	1823.65	1872.58	1841.06	1849.54	1855.42	24.73	74.14	2.0

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 163 Chlorobenzene-d5	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	25000.00	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 177 4-Bromofluorobenzene	25233.10	24772.13	24880.75	24751.84	24993.60	25083.73	25063.54	25033.68	24976.55	164.70	493.78
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	ppbv (RL)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	2451.15	2452.30	2399.17	2384.47	2419.24	2454.26	2418.67	2401.42	2422.58	27.20	81.54	2.0
227 Hexachlorobutadiene	2485.53	2488.78	2479.17	2459.51	2448.17	2499.50	2433.86	2439.60	2466.76	24.73	74.14	2.0
228 Naphthalene	232.01	235.84	229.49	232.82	232.72	242.75	233.19	235.41	234.28	3.95	11.84	1.0
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
	230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M	238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	245 TPH reference MinералS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd3.i/17apr15.b/315q0416a.m
Batch File: /chem/msd3.i/17apr15.b
Inst ID: msd3.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

5.0ppbv

To-15 5+20
5/26/15

Report Date : 27-May-2015 14:26

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 50mL #2736-26
5.0ppbv → 5.0ppbv

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

MDL verification #14052715
25mL #2736-26
5.0ppbv → 2.5ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052621	14052622	14052623	14052624	14052625	14052626	14052627	14052628
INJ.DATE:	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015
INJ.TIME:	18:15	18:47	19:13	19:49	20:38	21:18	21:50	22:13

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPBV)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	5618.14	5289.85	5204.37	5749.77	5214.18	5174.95	5527.45	5759.47	5442.27	249.76	748.79	5000
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	5603.94	4883.69	5114.02	5134.28	5894.06	5312.18	5680.65	6112.92	5466.97	424.85	1273.71	5000
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 [signature] Date: 5/27/15
Reviewer 2 _____ Date: _____

$\bar{X}$ = 1057 ppTV
$\bar{X}$ = 1.057 ppBV

Report Date : 27-May-2015 14:26

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	6017.99	4396.21	6028.52	4999.48	5544.72	5582.61	5670.55	5372.99	5451.64	541.41	1623.14	5000
26 1,3-Butadiene	6932.67	6467.41	5836.82	6716.92	6207.35	6239.14	5991.12	6000.60	6298.99	380.58	1140.99	5000
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	6100.46	5630.10	6709.21	5417.98	5032.43	4597.85	4495.75	5355.74	5417.44	741.98	2224.44	5000
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	5618.36	5493.31	5512.85	5492.84	5454.55	5533.27	5360.81	5872.37	5542.29	151.73	454.90	5000
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	5017.33	4679.01	5555.86	5623.78	6187.47	6122.10	5590.92	5966.10	5592.82	526.67	1578.95	5000
50 1,1-Dichloroethene	3037.17	2671.36	5921.71	5806.60	6170.85	6237.64	5465.65	5987.67	5162.33	1447.14	4338.53	5000
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Carbon Disulfide	5892.45	5289.69	5513.87	5775.38	5739.00	4804.60	5775.35	5611.89	5546.53	358.47	1074.70	5000
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	6819.30	5734.30	6004.21	6211.11	6590.07	6897.35	5799.99	6464.52	6315.11	447.42	1341.37	5000
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
72 Methyl tert-butyl ethe	4371.05	4264.24	4517.44	4162.59	4300.60	4616.16	4368.22	4553.87	4394.27	156.05	467.83	5000
73 trans-1,2-Dichloroethe	5502.69	5816.77	5791.85	5356.14	5419.11	4766.84	5208.87	5651.13	5439.18	343.99	1031.27	5000
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	5144.82	5270.03	5575.02	4963.64	5028.67	4562.34	4746.31	5156.03	5068.36	290.82	871.87	5000
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	6058.59	5592.62	5616.67	5548.73	5548.69	5950.19	5659.64	5883.01	5732.27	200.79	601.98	5000
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	5769.89	5115.45	4840.81	5606.30	5021.02	5290.14	5495.23	5916.39	5381.90	378.31	1134.18	5000
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
99 Tetrahydrofuran	5600.56	5324.45	5312.25	4991.46	5440.23	5640.76	4780.42	5738.85	5353.62	329.85	988.89	5000
100 Chloroform	5607.94	5573.15	5047.94	5621.63	5134.94	5511.37	5632.11	5910.24	5504.91	281.61	844.26	5000
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Cyclohexane	5606.22	5115.27	5383.03	5072.45	4731.99	5048.74	4864.69	5332.12	5144.31	285.09	854.71	5000
103 1,1,1-Trichloroethane	5207.46	5148.21	5265.45	4782.31	4949.26	5225.14	5933.91	5452.56	5245.54	344.51	1032.84	5000
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 Carbon Tetrachloride	4593.57	4664.57	4346.22	4794.37	4680.48	4884.46	4439.43	5244.24	4704.67	279.59	838.21	5000
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	5502.32	4936.16	5007.91	5126.65	4903.27	4836.14	5221.57	5474.32	5126.04	255.15	764.93	5000
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	5432.92	4970.68	5211.55	5342.72	4930.05	5053.13	5386.33	5902.75	5278.77	316.39	948.55	5000
$ 117 1,2-Dichloroethane-d4	406396	401602	407426	402070	405528	404761	402038	406614	404554	2332.72	6993.50	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
120 1,2-Dichloroethane	5573.90	5782.33	5321.65	5658.53	5896.11	6157.12	5518.58	6129.95	5754.77	294.89	884.09	5000
121 Heptane	4841.52	4539.90	4576.67	4911.41	6052.30	5552.42	5007.84	5380.09	5107.77	519.34	1556.97	5000
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	6432.90	5856.90	5848.40	5581.11	5620.51	6120.86	6304.15	6134.93	5949.97	345.71	1036.43	5000
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	5496.55	5568.87	5264.39	5449.16	5517.74	5640.84	5665.74	5255.62	5482.36	154.78	464.04	5000
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	5047.09	5811.03	4849.47	4939.54	5519.75	4735.87	5269.40	5620.20	5224.04	393.13	1178.61	5000
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	4882.37	4587.60	5390.13	4521.05	4403.13	4629.73	4435.26	5113.45	4745.34	392.91	1058.04	5000
145 4-Methyl-2-pentanone	5295.41	3035.92	4286.86	5533.41	4753.19	6212.56	3660.09	5048.80	4728.28	1033.46	3098.31	5000
$ 146 Toluene-d8	402747	398403	400769	403836	394757	402162	402123	395852	400081	3364.51	10086.79	
147 Toluene	5838.56	5462.74	5353.77	5322.72	5675.21	5373.62	5613.06	5792.73	5554.05	203.75	610.84	
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	3559.38	3451.42	4273.77	3693.42	4095.40	3719.56	3805.38	3751.05	3793.67	270.20	810.06	5000
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	5499.19	5143.73	5933.40	5712.23	5242.79	4857.03	5525.69	5425.41	5417.31	336.13	1007.73	5000
156 Tetrachloroethene	5485.09	5698.02	4790.99	5340.38	5580.55	5492.01	5782.84	6284.21	5556.76	421.45	1263.52	5000
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (ppbv)	RL (ppbv)
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	5338.66	5074.18	5128.83	5434.13	5638.76	5498.07	5226.09	4793.36	5266.51	269.11	806.79	5000
161 1,2-Dibromoethane (EDB	5319.96	5075.03	5282.25	5587.42	5134.79	5111.27	4958.62	5319.34	5223.47	195.26	585.38	5000
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Chlorobenzene	6082.54	5966.68	5772.07	5836.72	5224.21	5716.59	5745.78	6500.17	5855.59	361.88	1084.90	5000
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Ethyl Benzene	5175.05	4899.48	4576.33	5444.93	4807.23	4851.21	5095.97	5634.91	5060.64	350.59	1051.08	5000
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 m,p-Xylene	5153.11	5147.13	5097.91	5056.68	5422.06	5147.08	5301.44	5404.68	5216.26	140.48	421.15	5000
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
171 o-Xylene	4833.05	4828.15	4728.68	4987.34	5326.50	4705.57	5007.72	5017.17	4929.27	201.71	604.73	5000
172 Styrene	5355.19	4916.99	4810.46	4780.82	4883.64	4984.73	5230.30	5034.10	4999.53	201.77	604.92	5000
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 Bromoform	5498.27	5330.27	5160.75	5458.57	5337.27	4766.93	5374.61	5524.96	5306.70	246.11	737.84	5000
175 Cumene	5239.95	4563.17	4967.48	4928.82	4882.81	4604.51	4782.91	5111.99	4885.20	232.66	697.52	5000
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
§ 177 4-Bromofluorobenzene	399121	403303	397754	399576	401407	393596	406492	398747	400000	3847.15	11533.77	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	5487.64	5185.15	5545.70	5477.45	5596.40	5333.73	5099.02	5719.49	5430.57	210.19	630.11	5000
182 Propylbenzene	5205.56	5465.08	5329.47	5503.57	5807.68	5299.16	5396.02	5523.51	5441.26	183.53	550.21	5000

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
188 4-Ethyltoluene	5551.45	5213.57	5305.48	5252.60	4847.12	4837.16	5094.09	5443.09	5193.07	257.38	771.62	5000
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
190 1,3,5-Trimethylbenzene	5506.67	5212.41	5102.49	5092.44	5335.17	5032.74	4911.04	5342.23	5191.90	194.47	583.02	5000
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
196 1,2,4-Trimethylbenzene	5454.33	4804.41	4867.79	5216.98	4870.54	4899.11	5222.34	5250.72	5073.28	240.69	721.58	5000
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	6277.32	5653.83	5529.71	5427.10	5339.38	5741.25	5118.14	5751.62	5604.79	346.28	1038.15	5000
209 1,4-Dichlorobenzene	6269.44	5335.95	5333.71	5063.12	6036.67	5402.23	5434.74	6054.08	5616.24	437.23	1310.82	5000
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	5480.78	4778.23	4523.89	4610.26	4708.99	4598.37	4403.58	4798.90	4737.87	327.63	982.23	5000
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	6625.17	5496.21	5400.17	6076.97	5097.51	5851.81	5558.63	6416.78	5815.41	526.81	1579.39	5000
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 237 1,2-Dichloroethene (To	11272.58	10932.23	10632.66	10962.44	10440.12	10056.98	10704.11	11567.52	10821.08	473.82	1420.50	5000
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 239 Total Xylene	9986.16	9975.28	9826.59	10044.02	10748.56	9852.65	10309.16	10421.85	10145.53	320.48	960.81	5000
M 240 3 and 4-Ethyltoluene	5551.45	5213.67	5305.48	5262.60	4847.12	4837.16	5094.09	5443.03	5193.07	257.39	771.62	5000
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

20ppbv

TO-15 5d-20
5/27/15

Report Date : 27-May-2015 13:33

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 5.0mL #2716-281
200ppbv → 20ppbv

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

MDL verification: #14052716
2.5mL #2716-281
200ppbv → 10ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052706	14052707	14052708	14052709	14052710	14052711	14052712	14052713
INJ.DATE:	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015
INJ.TIME:	09:24	09:59	10:46	11:12	11:39	12:06	12:38	13:05

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
1 Dimethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
2 Freon 14	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
3 Acetaldehyde	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
4 Hexafluoropropene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
5 Freon 13	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
6 Freon 143a	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
7 Freon 134a	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
8 Propane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
9 Propylene	20913.41	20860.52	20241.36	20213.37	19853.50	23018.94	21884.77	20911.54	20987.17	1028.26	3082.71	20,000
10 1,1-Difluoroethane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
11 Freon 12	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
12 Vinyl Fluoride	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
13 Chlorodifluoromethane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
14 Ethylene Oxide	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
15 Freon 114	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
16 Freon 142b	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	
17 Chloromethane	21472.10	21565.29	21668.14	22267.57	20244.08	22866.72	21638.55	22052.36	21721.48	755.80	2265.89	20,000

Reviewer 1 [signature] Date: 5/27/15
Reviewer 2 Date:

MB 5/27/15
$\bar{X}$ = ~~3.0~~ 3.032 ppTV
$\bar{X}$ = 3.032 ppbv

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	19898.33	17681.88	19633.05	18134.61	19623.05	19884.17	17208.26	20308.53	19046.48	1181.36	3541.72	20,000
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 Chloroethane	19595.95	18926.45	16904.86	21213.83	20070.43	20628.95	21139.48	20383.02	19857.87	1416.88	4247.82	20,000
31 Isopentane	18044.73	20009.91	19359.86	19082.61	19584.71	19963.38	19041.91	19906.78	19374.24	659.26	1976.46	20,000
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Report Date : 27-May-2015 13:33

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	22284.54	23551.53	22486.09	19048.74	19764.10	22623.64	19860.19	22745.77	21545.83	1703.33	6106.59	20,000
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	22033.28	19450.93	21530.89	18814.68	19471.53	21232.20	18053.60	16319.28	19613.30	1931.76	5791.41	20,000
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 2-Propanol	17594.24	18589.10	17338.85	17386.57	17928.39	18822.86	16415.02	16857.11	17616.52	814.97	2443.29	20,000
58 3-Chloropropene	17060.58	19374.95	16418.77	17773.49	17947.32	18253.59	17205.79	16561.49	17574.50	974.19	2920.63	20,000
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	17888.81	17858.23	15936.38	16588.05	17257.68	16973.13	16543.75	17548.69	17074.34	692.78	2076.97	20,000
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
83 Isopropyl ether	18849.37	19338.54	18825.15	18607.01	18002.67	18681.33	19172.92	18810.43	18810.93	393.01	1178.24	20,000
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	17024.07	18499.04	16730.41	16871.13	17033.44	17501.55	17699.45	16979.55	17292.33	585.03	1753.86	20,000
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
92 2-Butanone	18239.18	16917.57	16841.42	16819.52	16204.73	18160.87	18057.39	13856.09	16687.10	1438.27	4311.95	20,000
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 117 1,2-Dichloroethane-d4	399048	403428	400525	407751	397947	404568	404724	399009	402125	3490.08	10463.27	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	17249.01	17802.24	17381.78	16793.77	17413.53	18079.15	17152.29	16940.20	17351.50	425.58	1275.89	20,000
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	18381.94	18473.97	17104.78	17459.86	18438.15	17855.33	17765.99	17843.69	17815.46	492.61	1476.83	20,000
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	16053.89	18103.07	18256.90	17903.67	18435.60	19667.92	17696.25	18396.67	18064.26	1004.39	3011.16	20,000
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 146 Toluene-d8	397676	394820	395652	394638	401172	394741	397632	396072	396550	2228.28	6680.39	
147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	14950.76	15970.38	13747.10	12928.83	13719.67	15033.77	13275.79	13840.21	14183.32	1029.99	3087.91	20,000

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 177 4-Bromofluorobenzene	404082	413942	404123	406935	401603	402166	403997	401641	404811	4086.42	12251.10	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	16650.28	17361.66	16890.07	16712.86	16112.75	18425.90	14586.51	17292.12	16754.02	1108.04	3321.91	20,000
227 Hexachlorobutadiene	16580.93	16104.57	13496.99	14866.69	13897.94	18463.77	15220.88	15922.54	15569.29	1581.84	4742.37	20,000
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Naphthalene MDL (20ppbv)

6/4/15

Report Date : 04-Jun-2015 20:35

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Load 50mL of std # 2116-281
20ppbv → 20ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14060410	14060411	14060412	14060413	14060414	14060415	14060416	14060417
INJ.DATE:	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015
INJ.TIME:	16:59	17:24	17:45	18:09	18:27	18:54	19:12	19:31

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

MDL Verification

Spike amt: 10ppbv
from std 2116-281

25mL → 20ppbv = 10ppbv

File # 14060419

Reviewer 1 Megan Dickerson Date: 6/4/15
Reviewer 2 Date:

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
18 Isobutene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 117 1,2-Dichloroethane-d4	384912	381756	386844	388821	378286	389975	388532	383484	385326	4005.00	12006.99
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Toluene-d8	405804	400482	407828	403398	404410	403508	404226	407377	404629	2370.98	7108.18
147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
* 177 4-Bromofluorobenzene	408607	413695	408099	405786	394062	410755	407709	407606	407040	5762.27	17275.28
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
184 trans-1,4-Dichloro-2-b	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
185 1,2,3-Trichloropropane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
186 3-Ethyltoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
187 Decane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
188 4-Ethyltoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
189 2-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
190 1,3,5-Trimethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
191 4-Chlorotoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
192 beta-Pinene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
193 Diisobutyl Ketone	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
194 alpha Methyl Styrene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
195 tert-Butylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
196 1,2,4-Trimethylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
197 Pentachloroethane	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
198 Limonene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
199 D-Limonene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
200 Benzaldehyde	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
201 Indan	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
202 Indene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
203 sec-Butylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
204 Isobutylbenzene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
205 2-Ethyltoluene	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL PPTV	RL PPBV
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
228 Naphthalene	22240.12	20834.79	25137.89	20402.69	22624.69	30467.05	22705.33	24455.91	23608.56	3200.97	9596.52	20,000	20.00
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference Minerals	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Client Sample ID: CCV

Lab ID#: 1510593-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 08:58 AM**

Compound	%Recovery
Freon 12	112
Freon 114	100
Chloromethane	111
Vinyl Chloride	104
1,3-Butadiene	106
Bromomethane	96
Chloroethane	96
Freon 11	105
Ethanol	114
Freon 113	94
1,1-Dichloroethene	105
Acetone	101
2-Propanol	118
Carbon Disulfide	103
3-Chloropropene	104
Methylene Chloride	116
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	101
Hexane	108
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	99
Tetrahydrofuran	122
Chloroform	111
1,1,1-Trichloroethane	111
Cyclohexane	106
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	113
Benzene	108
1,2-Dichloroethane	119
Heptane	104
Trichloroethene	112
1,2-Dichloropropane	111
1,4-Dioxane	111
Bromodichloromethane	113
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	108
Toluene	109
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	108
Tetrachloroethene	105
2-Hexanone	113

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Client Sample ID: CCV

Lab ID#: 1510593-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 08:58 AM**	

Compound	%Recovery
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	110
Chlorobenzene	106
Ethyl Benzene	110
m,p-Xylene	109
o-Xylene	105
Styrene	108
Bromoform	106
Cumene	108
1,1,2,2-Tetrachloroethane	109
Propylbenzene	110
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	101
Naphthalene	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	100	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 02-NOV-2015 08:58
Lab File ID: 3110202.d Init. Cal. Date(s): 23-OCT-2015 23-OCT-2015
Analysis Type: AIR Init. Cal. Times: 11:17 15:51
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/02nov15.b/315q1023a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 117 1,2-Dichloroethane-d4	2.18410	2.21530	0.010	-1.42871	30.00000	Averaged
$ 146 Toluene-d8	1.07321	1.11553	0.010	-3.94388	30.00000	Averaged
$ 177 4-Bromofluorobenzene	0.61747	0.62014	0.010	-0.43135	30.00000	Averaged
9 Propylene	1.09827	1.35857	0.010	-23.70020	40.00000	Averaged
11 Freon 12	2.61211	2.91900	0.010	-11.74867	30.00000	Averaged
15 Freon 114	1.74222	1.74877	0.010	-0.37590	30.00000	Averaged
17 Chloromethane	1.10960	1.22992	0.010	-10.84295	30.00000	Averaged
23 Butane	0.25096	0.24206	0.010	3.54454	40.00000	Averaged
25 Vinyl Chloride	1.01998	1.05961	0.010	-3.88509	30.00000	Averaged
26 1,3-Butadiene	1.12929	1.19682	0.010	-5.97908	30.00000	Averaged
29 Bromomethane	0.73541	0.70453	0.010	4.20001	30.00000	Averaged
30 Chloroethane	0.52517	0.50582	0.010	3.68545	30.00000	Averaged
31 Isopentane	1.79594	2.11334	0.010	-17.67297	40.00000	Averaged
35 Freon 11	3.25816	3.43408	0.010	-5.39937	30.00000	Averaged
42 Ethanol	0.64697	0.73798	0.010	-14.06643	30.00000	Averaged
49 Freon 113	1.77848	1.67715	0.010	5.69763	30.00000	Averaged
50 1,1-Dichloroethene	0.87559	0.92297	0.010	-5.41112	30.00000	Averaged
52 Acetone	0.68803	0.69599	0.010	-1.15725	30.00000	Averaged
56 Carbon Disulfide	2.52386	2.59083	0.010	-2.65364	30.00000	Averaged
57 2-Propanol	2.91051	3.44687	0.010	-18.42838	30.00000	Averaged
58 3-Chloropropene	0.41891	0.43785	0.010	-4.51976	30.00000	Averaged
66 Methylene Chloride	2.07041	2.40801	0.010	-16.30596	30.00000	Averaged
71 tert-Butyl alcohol	3.16093	3.41745	0.010	-8.11555	40.00000	Averaged
72 Methyl tert-butyl ether	3.05199	3.17774	0.010	-4.12019	30.00000	Averaged
73 trans-1,2-Dichloroethene	0.60159	0.60727	0.010	-0.94517	30.00000	Averaged
78 Hexane	2.35469	2.53318	0.010	-7.58019	30.00000	Averaged
82 1,1-Dichloroethane	2.30522	2.55337	0.010	-10.76456	30.00000	Averaged
83 Isopropyl ether	5.93816	7.15491	0.010	-20.49033	40.00000	Averaged
86 Vinyl Acetate	0.25052	0.25956	0.010	-3.60827	40.00000	Averaged
88 Ethyl-tert-butyl ether	4.95031	5.40110	0.010	-9.10619	40.00000	Averaged
91 cis-1,2-Dichloroethene	0.69583	0.69052	0.010	0.76272	30.00000	Averaged
92 2-Butanone	0.47492	0.52327	0.010	-10.18009	30.00000	Averaged
99 Tetrahydrofuran	2.10141	2.57326	0.010	-22.45428	30.00000	Averaged
100 Chloroform	2.36816	2.63303	0.010	-11.18483	30.00000	Averaged
102 Cyclohexane	1.35810	1.43971	0.010	-6.00915	30.00000	Averaged
103 1,1,1-Trichloroethane	2.78036	3.07614	0.010	-10.63810	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 02-NOV-2015 08:58
Lab File ID: 3110202.d Init. Cal. Date(s): 23-OCT-2015 23-OCT-2015
Analysis Type: AIR Init. Cal. Times: 11:17 15:51
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/02nov15.b/315q1023a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	3.06972	3.19931	0.010	-4.22132	30.00000	Averaged
113 2,2,4-Trimethylpentane	8.14332	9.23539	0.010	-13.41067	30.00000	Averaged
116 Benzene	0.69140	0.74539	0.010	-7.80837	30.00000	Averaged
119 tert-Amyl methyl ether	0.20162	0.23242	0.010	-15.27589	40.00000	Averaged
120 1,2-Dichloroethane	0.51934	0.61978	0.010	-19.33948	30.00000	Averaged
121 Heptane	0.26630	0.27795	0.010	-4.37517	30.00000	Averaged
125 Trichloroethene	0.34804	0.38836	0.010	-11.58485	30.00000	Averaged
127 Methylcyclohexane	0.43960	0.47002	0.010	-6.92000	40.00000	Averaged
132 1,2-Dichloropropane	0.36080	0.40088	0.010	-11.10925	30.00000	Averaged
136 1,4-Dioxane	0.17490	0.19447	0.010	-11.19104	30.00000	Averaged
138 Bromodichloromethane	0.64506	0.72770	0.010	-12.81219	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.51571	0.57445	0.010	-11.39110	30.00000	Averaged
145 4-Methyl-2-pentanone	0.40313	0.43407	0.010	-7.67551	30.00000	Averaged
147 Toluene	0.95766	1.04629	0.010	-9.25423	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.49848	0.58026	0.010	-16.40666	30.00000	Averaged
155 1,1,2-Trichloroethane	0.34055	0.36774	0.010	-7.98365	30.00000	Averaged
156 Tetrachloroethene	0.48773	0.51265	0.010	-5.11052	30.00000	Averaged
158 2-Hexanone	0.53997	0.60844	0.010	-12.67979	30.00000	Averaged
160 Dibromochloromethane	0.69433	0.76389	0.010	-10.01863	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.54609	0.60092	0.010	-10.03936	30.00000	Averaged
165 Chlorobenzene	0.84408	0.89588	0.010	-6.13648	30.00000	Averaged
167 Ethyl Benzene	0.42931	0.47353	0.010	-10.29878	30.00000	Averaged
169 m,p-Xylene	0.53932	0.58812	0.010	-9.04822	30.00000	Averaged
171 o-Xylene	0.52402	0.55156	0.010	-5.25574	30.00000	Averaged
172 Styrene	0.86291	0.93499	0.010	-8.35234	30.00000	Averaged
174 Bromoform	0.71150	0.75599	0.010	-6.25406	30.00000	Averaged
175 Cumene	1.66144	1.80419	0.010	-8.59234	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	0.78570	0.85875	0.010	-9.29821	30.00000	Averaged
182 Propylbenzene	1.96258	2.15368	0.010	-9.73675	30.00000	Averaged
188 4-Ethyltoluene	0.50663	0.53726	0.010	-6.04694	30.00000	Averaged
190 1,3,5-Trimethylbenzene	0.70937	0.74129	0.010	-4.50029	30.00000	Averaged
196 1,2,4-Trimethylbenzene	1.45658	1.53364	0.010	-5.29057	30.00000	Averaged
208 1,3-Dichlorobenzene	0.94560	1.00479	0.010	-6.25895	30.00000	Averaged
209 1,4-Dichlorobenzene	0.98650	0.98757	0.010	-0.10897	30.00000	Averaged
212 alpha-Chlorotoluene	1.37785	1.52744	0.010	-10.85686	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd3.i Injection Date: 02-NOV-2015 08:58
Lab File ID: 3110202.d Init. Cal. Date(s): 23-OCT-2015 23-OCT-2015
Analysis Type: AIR Init. Cal. Times: 11:17 15:51
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd3.i/02nov15.b/315q1023a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
214 1,2-Dichlorobenzene	0.89710	0.95572	0.010	-6.53471	30.00000	Averaged
226 1,2,4-Trichlorobenzene	0.78184	0.79137	0.010	-1.21963	30.00000	Averaged
227 Hexachlorobutadiene	0.65684	0.66569	0.010	-1.34651	30.00000	Averaged
228 Naphthalene	2.02406	2.25031	0.010	-11.17800	40.00000	Averaged

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110202.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 02-NOV-2015 08:58
Operator : sab Inst ID: msd3.i
Smp Info : 100ml 2759-2A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 02-Nov-2015 11:50 mskidmor Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 13 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	109768	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	79855			42.88- 102.88	72.75
5.592	5.592 (1.000)	49	288903			207.65- 267.65	263.19
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	462095	25.0000		80.00- 120.00	100.00
6.474	6.474 (1.000)	88	76644			0.00- 45.78	16.59
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	458379	25.0000		80.00- 120.00	100.00
8.934	8.934 (1.000)	82	270329			26.67- 86.67	58.97
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.124	6.124 (1.095)	65	243169	25.0000	25.357	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	125863			22.68- 82.68	51.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.702	7.702 (1.187)	98	515483	25.0000	25.986	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	62629			0.00- 41.75	12.15
7.702	7.702 (1.187)	100	343923			34.13- 94.13	66.72
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.923	9.923 (1.110)	174	284258	25.0000	25.108	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	379766			96.73- 156.73	133.60
9.923	9.923 (1.110)	176	274860			65.47- 125.47	96.69
9 Propylene						CAS #: 115-07-1	
1.577	1.577 (0.282)	41	298254	50.0000	61.850	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	201467			37.10- 97.10	67.55
1.577	1.577 (0.282)	39	212788			40.83- 100.83	71.34
11 Freon 12						CAS #: 75-71-8	
1.605	1.605 (0.287)	85	640826	50.0000	55.874	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	203884			2.62- 62.62	31.82
15 Freon 114						CAS #: 76-14-2	
1.730	1.730 (0.309)	135	383918	50.0000	50.188	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	126092			1.99- 61.99	32.84
17 Chloromethane						CAS #: 74-87-3	
1.814	1.814 (0.324)	50	270011	50.0000	55.421	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	90707			2.33- 62.33	33.59
23 Butane						CAS #: 106-97-8	
1.898	1.898 (0.339)	58	53141	50.0000	48.228	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	546785			902.69- 962.69	1028.93
25 Vinyl Chloride						CAS #: 75-01-4	
1.940	1.940 (0.347)	62	232623	50.0000	51.942	80.00- 120.00	100.00
1.926	1.926 (0.344)	64	65928			0.00- 58.77	28.34
26 1,3-Butadiene						CAS #: 106-99-0	
1.968	1.968 (0.352)	54	262744	50.0000	52.990	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	310465			79.69- 139.69	118.16
29 Bromomethane						CAS #: 74-83-9	
2.332	2.332 (0.417)	94	154669	50.0000	47.900	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	152317			63.59- 123.59	98.48
30 Chloroethane						CAS #: 75-00-3	
2.458	2.458 (0.440)	64	111045	50.0000	48.157	80.00- 120.00	100.00
2.458	2.458 (0.440)	66	33687			0.12- 60.12	30.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.458	2.458 (0.440)	49	54106			13.60- 73.60	48.72
31 Isopentane					CAS #: 78-78-4		
2.472	2.472 (0.442)	43	463954	50.0000	58.836	80.00- 120.00	100.00
2.472	2.472 (0.442)	57	251382			28.52- 88.52	54.18
35 Freon 11					CAS #: 75-69-4		
2.710	2.710 (0.485)	101	753904	50.0000	52.700	80.00- 120.00	100.00
2.710	2.710 (0.485)	103	483105			33.61- 93.61	64.08
42 Ethanol					CAS #: 64-17-5		
3.074	3.074 (0.550)	45	162013	50.0000	57.033	80.00- 120.00	100.00
3.074	3.074 (0.550)	43	35841			0.00- 51.11	22.12
3.060	3.060 (0.547)	46	62006			10.70- 70.70	38.27
49 Freon 113					CAS #: 76-13-1		
3.368	3.368 (0.602)	151	368194	50.0000	47.151	80.00- 120.00	100.00
3.368	3.368 (0.602)	153	241336			35.19- 95.19	65.55
3.368	3.368 (0.602)	101	462322			88.07- 148.07	125.56
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.396	3.396 (0.607)	96	202625	50.0000	52.706	80.00- 120.00	100.00
3.396	3.396 (0.607)	98	127590			35.15- 95.15	62.97
3.396	3.396 (0.607)	61	539903			221.75- 281.75	266.45
52 Acetone					CAS #: 67-64-1		
3.549	3.549 (0.635)	58	152795	50.0000	50.579	80.00- 120.00	100.00
3.549	3.549 (0.635)	43	643021			351.83- 411.83	420.84
56 Carbon Disulfide					CAS #: 75-15-0		
3.633	3.633 (0.650)	76	568781	50.0000	51.327	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.717	3.717 (0.665)	45	756713	50.0000	59.214	80.00- 120.00	100.00
3.717	3.717 (0.665)	43	142201			0.00- 48.10	18.79
3.717	3.717 (0.665)	59	23954			0.00- 33.34	3.17
58 3-Chloropropene					CAS #: 107-05-1		
3.871	3.871 (0.692)	76	96123	50.0000	52.260	80.00- 120.00	100.00
3.871	3.871 (0.692)	41	581718			488.81- 548.81	605.18
66 Methylene Chloride					CAS #: 75-09-2		
4.053	4.053 (0.725)	49	528645	50.0000	58.153	80.00- 120.00	100.00
4.053	4.053 (0.725)	84	180715			9.02- 69.02	34.18
4.053	4.053 (0.725)	51	147673			0.00- 59.58	27.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	750254	50.0000	54.058	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	202007			0.00- 53.22	26.93
4.179	4.179 (0.747)	57	87142			0.00- 41.48	11.61
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	697629	50.0000	52.060	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	235549			2.00- 62.00	33.76
4.263	4.263 (0.762)	41	272039			3.65- 63.65	38.99
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	133318	50.0000	50.472	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	481114			296.65- 356.65	360.88
4.291	4.291 (0.767)	96	213218			124.62- 184.62	159.93
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	556125	50.0000	53.790	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	454262			44.95- 104.95	81.68
4.501	4.501 (0.805)	86	53149			0.00- 40.12	9.56
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	560556	50.0000	55.382	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	164134			0.00- 58.92	29.28
83 Isopropyl ether					CAS #: 108-20-3		
4.767	4.767 (0.852)	45	1570761	50.0000	60.245	80.00- 120.00	100.00
4.767	4.767 (0.852)	87	207433			0.00- 44.86	13.21
4.767	4.767 (0.852)	59	131697			0.00- 39.01	8.38
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	56982	50.0000	51.804	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	1439693			2043.04-2103.04	2526.58
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
5.130	5.130 (0.917)	59	1185735	50.0000	54.553	80.00- 120.00	100.00
5.130	5.130 (0.917)	87	332782			0.00- 58.97	28.07
5.130	5.130 (0.917)	41	279052			0.00- 50.96	23.53
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	151595	50.0000	49.619	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	242342			121.93- 181.93	159.86
5.354	5.354 (0.957)	61	491850			268.28- 328.28	324.45
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	114876	50.0000	55.090	80.00- 120.00	100.00
5.382	5.382 (0.962)	43	995552			717.19- 777.19	866.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone (continued)							
5.396	5.396 (0.965)	57	65460			21.09- 81.09	56.98
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	564924	50.0000	61.227	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	101365			0.00- 49.93	17.94
5.592	5.592 (1.000)	72	102839			0.00- 50.49	18.20
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	578045	50.0000	55.592	80.00- 120.00	100.00
5.648	5.648 (1.010)	85	380673			34.28- 94.28	65.86
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	316069	50.0000	53.004	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	653512			165.55- 225.55	206.76
5.760	5.760 (1.030)	41	417646			88.39- 148.39	132.14
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	675324	50.0000	55.319	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	431128			33.59- 93.59	63.84
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	702363	50.0000	52.111	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	745429			75.03- 135.03	106.13
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.082	6.082 (1.088)	57	2027501	50.0000	56.705	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	674024			2.46- 62.46	33.24
6.082	6.082 (1.088)	41	583402			0.00- 55.56	28.77
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	688878	50.0000	53.904	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	165594			0.00- 54.02	24.04
119 tert-Amyl methyl ether					CAS #: 994-05-8		
6.180	6.180 (0.953)	87	214796	50.0000	57.638	80.00- 120.00	100.00
6.180	6.180 (0.953)	73	806395			341.91- 401.91	375.42
6.180	6.180 (0.953)	55	348489			123.21- 183.21	162.24
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	572790	50.0000	59.670	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	178490			0.97- 60.97	31.16
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	256881	50.0000	52.188	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	1002312			309.54- 369.54	390.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.250	6.250 (0.963)	57	468420			143.16- 203.16	182.35
125 Trichloroethene					CAS #: 79-01-6		
6.678	6.678 (1.029)	95	358917	50.0000	55.792	80.00- 120.00	100.00
6.678	6.678 (1.029)	130	345033			68.86- 128.86	96.13
6.678	6.678 (1.029)	97	228496			32.82- 92.82	63.66
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	434385	50.0000	53.460	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	208897			17.65- 77.65	48.09
6.786	6.786 (1.046)	55	657040			110.81- 170.81	151.26
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	370489	50.0000	55.555	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	268515			41.59- 101.59	72.48
6.922	6.922 (1.067)	41	298805			40.69- 100.69	80.65
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	179730	50.0000	55.596	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	204692			79.36- 139.36	113.89
7.008	7.008 (1.080)	57	69482			6.63- 66.63	38.66
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	672537	50.0000	56.406	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	438313			34.24- 94.24	65.17
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	530902	50.0000	55.696	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	168975			2.36- 62.36	31.83
7.516	7.516 (1.159)	39	469994			46.86- 106.86	88.53
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	401166	50.0000	53.838	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	1304096			274.73- 334.73	325.08
7.631	7.631 (1.176)	85	111020			0.00- 58.76	27.67
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	966968	50.0000	54.627	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	566488			27.05- 87.05	58.58
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.996	7.996 (0.894)	75	531962	50.0000	58.203	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	170074			0.84- 60.84	31.97
7.996	7.996 (0.894)	39	421744			38.83- 98.83	79.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	337128	50.0000	53.992	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	207979			32.22- 92.22	61.69
8.154	8.154 (0.912)	83	300152			54.60- 114.60	89.03
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	469979	50.0000	52.555	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	374751			47.11- 107.11	79.74
8.197	8.197 (0.917)	131	354869			43.50- 103.50	75.51
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.318 (0.930)	58	557788	50.0000	56.340	80.00- 120.00	100.00
8.318	8.318 (0.930)	43	1312966			189.79- 249.79	235.39
8.318	8.318 (0.930)	100	65432			0.00- 43.05	11.73
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	700304	50.0000	55.009	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	539471			46.79- 106.79	77.03
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.583	8.583 (0.960)	107	550894	50.0000	55.020	80.00- 120.00	100.00
8.583	8.583 (0.960)	109	516537			64.52- 124.52	93.76
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	821307	50.0000	53.068	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	257904			2.26- 62.26	31.40
8.963	8.963 (1.002)	77	514261			30.55- 90.55	62.61
167 Ethyl Benzene					CAS #: 100-41-4		
9.006	9.006 (1.007)	106	434111	50.0000	55.149	80.00- 120.00	100.00
9.006	9.006 (1.007)	91	1406061			294.90- 354.90	323.89
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	539160	50.0000	54.524	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	1146318			185.23- 245.23	212.61
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	505647	50.0000	52.628	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	1117505			194.61- 254.61	221.00
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	857156	50.0000	54.176	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	483928			26.13- 86.13	56.46
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	693064	50.0000	53.127	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
9.672	9.672 (1.082)	171	356995			22.32- 82.32	51.51
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	1654008	50.0000	54.296	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	420049			0.00- 56.11	25.40
9.737	9.737 (1.089)	51	296516			0.00- 46.14	17.93
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	787270	50.0000	54.649	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	511639			34.99- 94.99	64.99
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	1974399	50.0000	54.868	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	452594			0.00- 52.84	22.92
10.081	10.081 (1.127)	105	72712			0.00- 33.71	3.68
188 4-Ethyltoluene					CAS #: 622-96-8		
10.174	10.174 (1.138)	120	492541	50.0000	53.023	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	1640733			305.47- 365.47	333.12
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	679585	50.0000	52.250	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	1465252			180.29- 240.29	215.61
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	1405975	50.0000	52.645	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	613834			13.81- 73.81	43.66
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	921146	50.0000	53.129	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	574487			33.25- 93.25	62.37
10.847	10.847 (1.213)	111	389035			12.53- 72.53	42.23
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	905364	50.0000	50.054	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	581108			32.78- 92.78	64.19
10.926	10.926 (1.222)	111	380174			10.80- 70.80	41.99
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.040	11.040 (1.235)	91	1400289	50.0000	55.428	80.00- 120.00	100.00
11.040	11.040 (1.235)	126	278978			0.00- 49.93	19.92
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	876162	50.0000	53.267	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	562392			34.01- 94.01	64.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.255	11.255 (1.259)	111	386957			13.60- 73.60	44.17
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	725498	50.0000	50.610	80.00- 120.00	100.00
12.688	12.688 (1.419)	182	690854			64.08- 124.08	95.22
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.781	12.781 (1.429)	225	610273	50.0000	50.673	80.00- 120.00	100.00
12.774	12.774 (1.429)	223	389599			32.97- 92.97	63.84
228 Naphthalene					CAS #: 91-20-3		
12.967	12.967 (1.450)	128	206299	5.00000	5.559	80.00- 120.00	100.00
12.960	12.960 (1.449)	127	26978			0.00- 42.95	13.08

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110202.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 02-NOV-2015
Calibration Time: 11:22
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	119535	71721	167349	109768	-8.17
123 1,4-Difluorobenze	524397	314638	734156	462095	-11.88
163 Chlorobenzene-d5	500003	300002	700004	458379	-8.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.47	6.14	6.80	6.49	0.22
163 Chlorobenzene-d5	8.93	8.60	9.26	8.94	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/02nov15.b/3110202.d

Date : 02-NOV-2015 08:58

Client ID: CCV

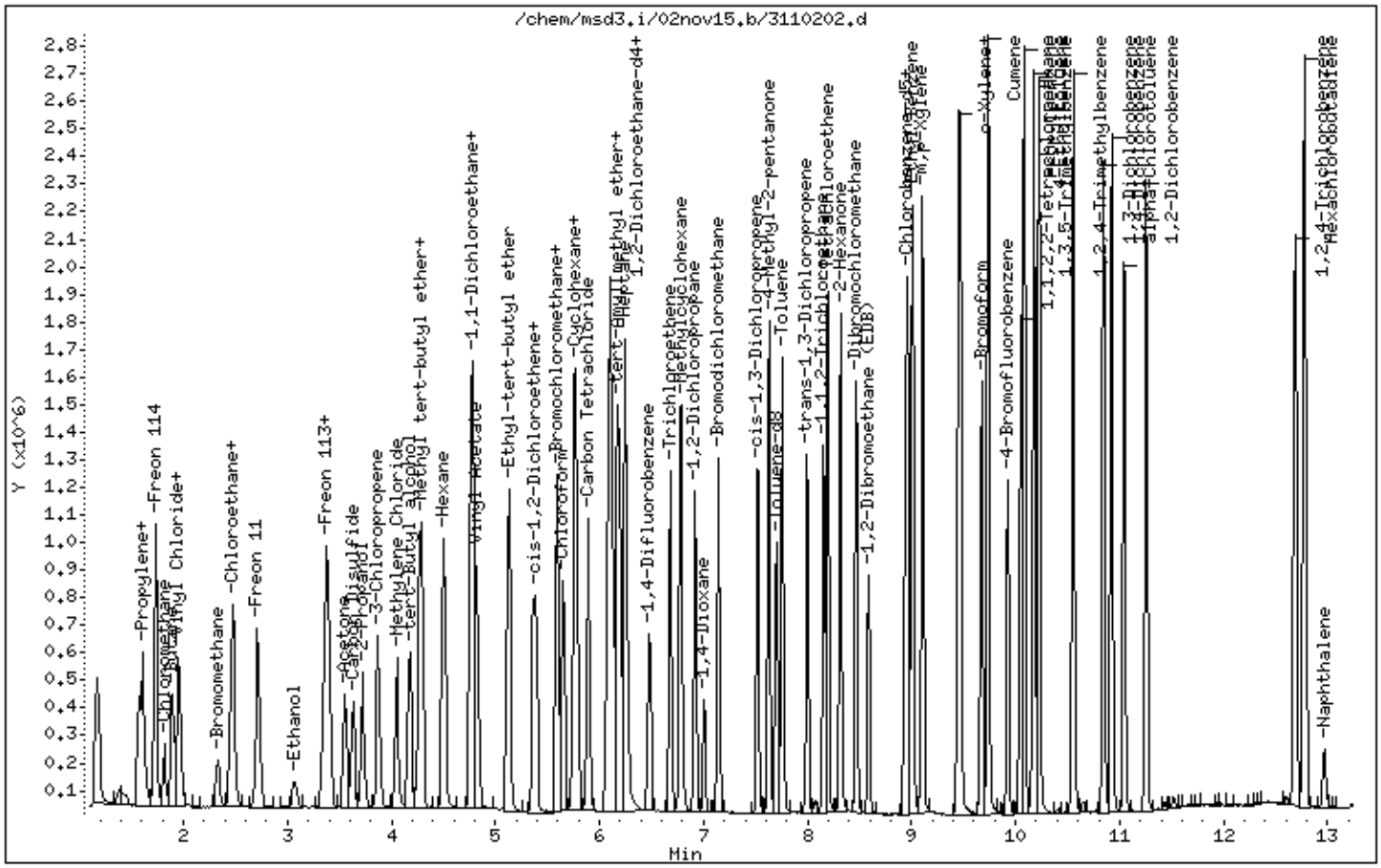
Instrument: msd3.i

Sample Info: 100ml 2759-2A

Operator: sab

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: CCV

Lab ID#: 1510593-10B

EPA METHOD TO-15 GC/MS

File Name:	**14110302**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 08:55 AM**

Compound	%Recovery
Freon 12	90
Freon 114	87
Chloromethane	101
Vinyl Chloride	98
1,3-Butadiene	96
Bromomethane	80
Chloroethane	90
Freon 11	87
Ethanol	102
Freon 113	90
1,1-Dichloroethene	93
Acetone	104
2-Propanol	87
Carbon Disulfide	94
3-Chloropropene	88
Methylene Chloride	92
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	95
Hexane	92
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	91
Tetrahydrofuran	90
Chloroform	89
1,1,1-Trichloroethane	85
Cyclohexane	90
Carbon Tetrachloride	85
2,2,4-Trimethylpentane	94
Benzene	93
1,2-Dichloroethane	88
Heptane	93
Trichloroethene	87
1,2-Dichloropropane	96
1,4-Dioxane	97
Bromodichloromethane	88
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	88
Toluene	92
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	96
Tetrachloroethene	94
2-Hexanone	99

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Client Sample ID: CCV

Lab ID#: 1510593-10B

EPA METHOD TO-15 GC/MS

File Name:	**14110302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 08:55 AM**	

Compound	**%Recovery**
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	96
Chlorobenzene	95
Ethyl Benzene	90
m,p-Xylene	92
o-Xylene	90
Styrene	92
Bromoform	91
Cumene	93
1,1,2,2-Tetrachloroethane	104
Propylbenzene	94
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	86
Naphthalene	70

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 03-NOV-2015 08:55
Lab File ID: 14110302.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/03nov15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 117 1,2-Dichloroethane-d4	1.76205	1.62342	0.010	7.86762	30.00000	Averaged	
$ 146 Toluene-d8	1.05900	1.08345	0.010	-2.30863	30.00000	Averaged	
$ 177 4-Bromofluorobenzene	0.57293	0.56931	0.010	0.63282	30.00000	Averaged	
9 Propylene	1.21262	1.15122	0.010	5.06371	30.00000	Averaged	
11 Freon 12	4.63752	4.17967	0.010	9.87267	30.00000	Averaged	
15 Freon 114	2.93582	2.55168	0.010	13.08449	30.00000	Averaged	
17 Chloromethane	1.55587	1.57089	0.010	-0.96496	30.00000	Averaged	
23 Butane	0.41521	0.38892	0.010	6.33315	40.00000	Averaged	
25 Vinyl Chloride	1.78443	1.74397	0.010	2.26713	30.00000	Averaged	
26 1,3-Butadiene	1.41477	1.35662	0.010	4.11024	30.00000	Averaged	
29 Bromomethane	1.26304	1.01719	0.010	19.46517	30.00000	Averaged	
30 Chloroethane	0.91425	0.82465	0.010	9.80064	30.00000	Averaged	
31 Isopentane	2.02910	1.81980	0.010	10.31503	40.00000	Averaged	
35 Freon 11	4.63678	4.02855	0.010	13.11756	30.00000	Averaged	
42 Ethanol	0.77577	0.79256	0.010	-2.16470	30.00000	Averaged	
49 Freon 113	2.67085	2.40349	0.010	10.01005	30.00000	Averaged	
50 1,1-Dichloroethene	3.28703	3.04406	0.010	7.39165	30.00000	Averaged	
52 Acetone	0.93838	0.97653	0.010	-4.06594	30.00000	Averaged	
56 Carbon Disulfide	5.14777	4.81323	0.010	6.49871	30.00000	Averaged	
57 2-Propanol	3.10352	2.70832	0.010	12.73396	30.00000	Averaged	
58 3-Chloropropene	0.80073	0.70897	0.010	11.45906	30.00000	Averaged	
66 Methylene Chloride	2.32563	2.13125	0.010	8.35835	30.00000	Averaged	
71 tert-Butyl alcohol	2.01771	1.97724	0.010	2.00587	40.00000	Averaged	
72 Methyl tert-butyl ether	4.22911	3.51516	0.010	16.88173	30.00000	Averaged	
73 trans-1,2-Dichloroethene	1.82411	1.72673	0.010	5.33844	30.00000	Averaged	
78 Hexane	3.24588	2.98445	0.010	8.05413	30.00000	Averaged	
83 Isopropyl ether	5.93602	5.76681	0.010	2.85056	40.00000	Averaged	
82 1,1-Dichloroethane	3.54314	3.37017	0.010	4.88190	30.00000	Averaged	
86 Vinyl Acetate	++++	0.50779	0.010	++++	30.00000	Averaged	<-
88 Ethyl-tert-butyl ether	4.30019	4.22619	0.010	1.72105	40.00000	Averaged	
91 cis-1,2-Dichloroethene	2.84556	2.59203	0.010	8.90970	30.00000	Averaged	
92 2-Butanone	0.88727	0.84985	0.010	4.21789	30.00000	Averaged	
99 Tetrahydrofuran	2.34086	2.10304	0.010	10.15920	30.00000	Averaged	
100 Chloroform	4.09834	3.65505	0.010	10.81634	30.00000	Averaged	
102 Cyclohexane	2.78794	2.50068	0.010	10.30383	30.00000	Averaged	
103 1,1,1-Trichloroethane	4.11674	3.51234	0.010	14.68143	30.00000	Averaged	

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 03-NOV-2015 08:55
Lab File ID: 14110302.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/03nov15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	3.68436	3.13823	0.010	14.82271	30.00000	Averaged
113 2,2,4-Trimethylpentane	10.19142	9.59205	0.010	5.88107	30.00000	Averaged
116 Benzene	1.30654	1.21000	0.010	7.38941	30.00000	Averaged
119 tert-Amyl methyl ether	3.86340	3.59011	0.010	7.07371	40.00000	Averaged
120 1,2-Dichloroethane	0.64822	0.57219	0.010	11.72918	30.00000	Averaged
121 Heptane	0.47293	0.43923	0.010	7.12498	30.00000	Averaged
125 Trichloroethene	0.61878	0.53718	0.010	13.18818	30.00000	Averaged
127 Methylcyclohexane	0.81012	0.72831	0.010	10.09932	40.00000	Averaged
132 1,2-Dichloropropane	0.50350	0.48552	0.010	3.57160	30.00000	Averaged
136 1,4-Dioxane	0.28412	0.27458	0.010	3.35999	30.00000	Averaged
138 Bromodichloromethane	1.01021	0.88655	0.010	12.24086	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.72890	0.68726	0.010	5.71324	30.00000	Averaged
145 4-Methyl-2-pentanone	0.16965	0.14962	0.010	11.81136	30.00000	Averaged
147 Toluene	1.56566	1.44861	0.010	7.47573	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.69341	0.62134	0.010	10.39324	30.00000	Averaged
155 1,1,2-Trichloroethane	0.62568	0.60280	0.010	3.65601	30.00000	Averaged
156 Tetrachloroethene	0.78196	0.73510	0.010	5.99182	30.00000	Averaged
158 2-Hexanone	0.61948	0.61093	0.010	1.38130	30.00000	Averaged
160 Dibromochloromethane	1.05953	0.95213	0.010	10.13677	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.91279	0.87578	0.010	4.05423	30.00000	Averaged
165 Chlorobenzene	1.39274	1.32332	0.010	4.98495	30.00000	Averaged
167 Ethyl Benzene	0.72902	0.65431	0.010	10.24776	30.00000	Averaged
169 m,p-Xylene	0.88348	0.81592	0.010	7.64737	30.00000	Averaged
171 o-Xylene	0.83010	0.74934	0.010	9.72792	30.00000	Averaged
172 Styrene	1.32334	1.22239	0.010	7.62863	30.00000	Averaged
174 Bromoform	0.96227	0.88029	0.010	8.51970	30.00000	Averaged
175 Cumene	2.58635	2.41027	0.010	6.80805	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	1.22868	1.28473	0.010	-4.56184	30.00000	Averaged
182 Propylbenzene	3.22773	3.02369	0.010	6.32137	30.00000	Averaged
188 4-Ethyltoluene	2.51651	2.31752	0.010	7.90744	30.00000	Averaged
190 1,3,5-Trimethylbenzene	2.13532	1.98310	0.010	7.12887	30.00000	Averaged
196 1,2,4-Trimethylbenzene	2.00159	1.80209	0.010	9.96707	30.00000	Averaged
208 1,3-Dichlorobenzene	1.27578	1.15507	0.010	9.46145	30.00000	Averaged
209 1,4-Dichlorobenzene	1.27108	1.14575	0.010	9.86029	30.00000	Averaged
212 alpha-Chlorotoluene	1.33252	1.25661	0.010	5.69700	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 03-NOV-2015 08:55
Lab File ID: 14110302.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/03nov15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
214 1,2-Dichlorobenzene	1.16861	1.07832	0.010	7.72622	30.00000	Averaged
226 1,2,4-Trichlorobenzene	0.60947	0.49931	0.010	18.07527	30.00000	Averaged
227 Hexachlorobutadiene	0.53451	0.45984	0.010	13.97022	30.00000	Averaged
228 Naphthalene	1.43772	1.00596	0.010	30.03043	40.00000	Averaged

Average %D / Drift Results.

Calculated Average %D/Drift = 8.27128
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/03nov15.b/14110302.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 03-NOV-2015 08:55
Operator : mjs Inst ID: msd14.i
Smp Info : 50ml #2759-5
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/03nov15.b/14550910a.m
Meth Date : 03-Nov-2015 09:23 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	52541	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	39438			48.38- 108.38	75.06
4.739	4.739 (1.000)	49	82364			122.49- 182.49	156.76
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	234761	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39608			0.00- 47.28	16.87
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	193804	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	126469			33.96- 93.96	65.26
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	85296	400.000	368.53	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	45474			22.50- 82.50	53.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	254352	400.000	409.23	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	29158			0.00- 42.36	11.46
7.621	7.621 (1.304)	100	166054			36.13- 96.13	65.29
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	110334	400.000	397.47	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	161916			113.45- 173.45	146.75
10.951	10.951 (1.115)	176	106430			68.10- 128.10	96.46
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	30243	200.000	189.87	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	20753			35.71- 95.71	68.62
1.241	1.241 (0.262)	39	21164			44.83- 104.83	69.98
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	109802	200.000	180.25	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	35580			1.94- 61.94	32.40
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	67034	200.000	173.83	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	21168			2.09- 62.09	31.58
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	41268	200.000	201.93	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	12957			1.48- 61.48	31.40
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	10217	200.000	187.33	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	61249			577.93- 637.93	599.48
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	45815	200.000	195.46	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	13883			1.45- 61.45	30.30
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	35639	200.000	191.78	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	30249			71.31- 131.31	84.88
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	26722	200.000	161.07	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	24852			64.67- 124.67	93.00
1.814	1.814 (0.383)	79	4552			0.00- 47.98	17.03
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	21664	200.000	180.40	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	6802			1.09- 61.09	31.40
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	47807	200.000	179.37	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	38315			42.08- 102.08	80.15
1.912	1.912 (0.404)	72	4287			0.00- 38.91	8.97
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	105832	200.000	173.76	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	69867			34.26- 94.26	66.02
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	20821	200.000	204.33	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	4518			0.00- 52.18	21.70
2.360	2.360 (0.498)	46	8986			11.33- 71.33	43.16
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	63141	200.000	179.98	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	40243			33.38- 93.38	63.74
2.584	2.584 (0.545)	101	90597			106.88- 166.88	143.48
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	79969	200.000	185.22	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	44591			24.64- 84.64	55.76
2.612	2.612 (0.551)	98	28165			4.54- 64.54	35.22
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	25654	200.000	208.13	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	69809			297.27- 357.27	272.12
56 Carbon Disulfide					CAS #: 75-15-0		
2.794	2.794 (0.590)	76	126446	200.000	187.00	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	71149	200.000	174.53	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	13836			0.00- 50.08	19.45
2.878	2.878 (0.607)	59	3190			0.00- 33.79	4.48
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	18625	200.000	177.08	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	47221			228.46- 288.46	253.54
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	55989	200.000	183.28	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	40962			42.33- 102.33	73.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	17106			1.58- 61.58	30.55
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.284	3.284 (0.693)	59	51943	200.000	195.99	80.00- 120.00	100.00
3.284	3.284 (0.693)	41	11848			0.00- 49.77	22.81
3.284	3.284 (0.693)	57	5316			0.00- 40.69	10.23
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	92345	200.000	166.24	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	23250			0.00- 54.23	25.18
3.353	3.353 (0.708)	41	22262			0.00- 52.85	24.11
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	45362	200.000	189.32	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	70945			124.68- 184.68	156.40
3.381	3.381 (0.714)	98	29154			31.63- 91.63	64.27
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	78403	200.000	183.89	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	44068			29.53- 89.53	56.21
3.577	3.577 (0.755)	86	13340			0.00- 47.08	17.01
83 Isopropyl ether					CAS #: 108-20-3		
3.857	3.857 (0.814)	45	151497	200.000	194.30	80.00- 120.00	100.00
3.857	3.857 (0.814)	87	39598			0.00- 55.21	26.14
3.857	3.857 (0.814)	59	19600			0.00- 41.77	12.94
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	88536	200.000	190.24	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	27762			1.34- 61.34	31.36
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	13340	200.000		80.00- 120.00	100.00(a)
3.577	3.577 (0.755)	43	44068			321.46- 381.46	330.34
3.577	3.577 (0.755)	42	23061			153.71- 213.71	172.87
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	111024	200.000	196.56	80.00- 120.00	100.00
4.221	4.221 (0.891)	87	40545			7.67- 67.67	36.52
4.221	4.221 (0.891)	41	20090			0.00- 47.51	18.10
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	68094	200.000	182.18	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	47276			40.63- 100.63	69.43
4.487	4.487 (0.947)	98	31072			13.70- 73.70	45.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	22326	200.000	191.56	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	86292			377.26- 437.26	386.51
4.515	4.515 (0.953)	57	7440			5.15- 65.15	33.32
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	55248	200.000	179.68	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	21586			10.11- 70.11	39.07
4.725	4.725 (0.997)	72	24192			11.95- 71.95	43.79
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	96020	200.000	178.37	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	60741			32.70- 92.70	63.26
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	65694	200.000	179.39	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	82791			89.66- 149.66	126.03
4.921	4.921 (1.038)	41	38332			35.66- 95.66	58.35
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	92271	200.000	170.64	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	59611			33.85- 93.85	64.60
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	82443	200.000	170.35	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	86008			75.43- 135.43	104.32
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	251988	200.000	188.24	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	85655			3.74- 63.74	33.99
5.326	5.326 (1.124)	41	58112			0.00- 57.60	23.06
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	142030	200.000	185.22	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	33452			0.00- 54.57	23.55
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	94314	200.000	185.85	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	22129			0.00- 53.11	23.46
5.452	5.452 (1.151)	55	31062			0.00- 55.69	32.93
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	67164	200.000	176.54	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	21826			2.82- 62.82	32.50
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	51557	200.000	185.75	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	81609			135.26- 195.26	158.29
5.564	5.564 (0.952)	100	16212			2.82- 62.82	31.44
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	63054	200.000	173.62	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	59400			62.46- 122.46	94.20
6.082	6.082 (1.041)	97	42815			34.46- 94.46	67.90
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	85489	200.000	179.80	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	41619			18.08- 78.08	48.68
6.194	6.194 (1.060)	55	74050			54.72- 114.72	86.62
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	56990	200.000	192.86	80.00- 120.00	100.00
6.404	6.404 (1.096)	62	40529			42.01- 102.01	71.12
6.390	6.390 (1.093)	41	27909			29.49- 89.49	48.97
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	32230	200.000	193.28	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	25713			47.39- 107.39	79.78
6.530	6.530 (1.117)	57	8725			0.00- 56.09	27.07
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	104064	200.000	175.52	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	65457			32.69- 92.69	62.90
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	80671	200.000	188.57	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	25278			0.72- 60.72	31.33
7.327	7.327 (1.254)	39	35800			28.06- 88.06	44.38
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	17562	200.000	176.38	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	102262			626.49- 686.49	582.29
7.565	7.565 (1.294)	58	48350			241.15- 301.15	275.31
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	170039	200.000	185.05	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	99124			28.28- 88.28	58.29
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	60209	200.000	179.21	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	19360			3.40- 63.40	32.15
8.293	8.293 (0.845)	39	25906			26.11- 86.11	43.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	58413	200.000	192.69	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	35620			31.77- 91.77	60.98
8.614	8.614 (0.877)	83	51316			59.52- 119.52	87.85
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	71233	200.000	188.02	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	53816			46.35- 106.35	75.55
8.628	8.628 (0.879)	131	51397			44.43- 104.43	72.15
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	59200	200.000	197.24	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	95490			150.37- 210.37	161.30
9.006	9.006 (0.917)	100	10661			0.00- 49.21	18.01
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	92263	200.000	179.73	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	73207			47.05- 107.05	79.35
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	84865	200.000	191.89	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	78304			66.34- 126.34	92.27
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	128232	200.000	190.03	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	40400			1.70- 61.70	31.51
9.846	9.846 (1.003)	77	82466			32.92- 92.92	64.31
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	63404	200.000	179.50	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	212313			302.14- 362.14	334.86
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	79064	200.000	184.70	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	165626			180.25- 240.25	209.48
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	72613	200.000	180.54	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	164292			199.46- 259.46	226.26
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	118452	200.000	184.74	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	66202			27.66- 87.66	55.89
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	85302	200.000	182.96	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	44974			22.21- 82.21	52.72
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	233560	200.000	186.38	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	58230			0.00- 55.22	24.93
10.769	10.769 (1.097)	51	26091			0.00- 41.79	11.17
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	124493	200.000	209.12	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	77644			32.79- 92.79	62.37
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	293002	200.000	187.36	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	59375			0.00- 50.77	20.26
11.105	11.105 (1.131)	105	10586			0.00- 33.59	3.61
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	224572	200.000	184.18	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	62517			0.00- 57.71	27.84
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	192166	200.000	185.74	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	88725			15.95- 75.95	46.17
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	174626	200.000	180.06	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	76428			13.66- 73.66	43.77
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	111929	200.000	181.08	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	70256			32.83- 92.83	62.77
11.707	11.707 (1.192)	111	50255			14.66- 74.66	44.90
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	111025	200.000	180.28	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	72391			32.12- 92.12	65.20
11.763	11.763 (1.198)	111	49596			13.33- 73.33	44.67
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	121768	200.000	188.60	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	22873			0.00- 49.13	18.78
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	104491	200.000	184.55	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	67042			33.72- 93.72	64.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.986	11.986 (1.221)	111	48472			16.61- 76.61	46.39
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	48384	200.000	163.85	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	47141			64.47- 124.47	97.43
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	44559	200.000	172.06	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	28014			34.58- 94.58	62.87
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	9748	20.0000	13.994	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	1244			0.00- 42.78	12.76

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14110302.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /var/chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 03-NOV-2015
Calibration Time: 08:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

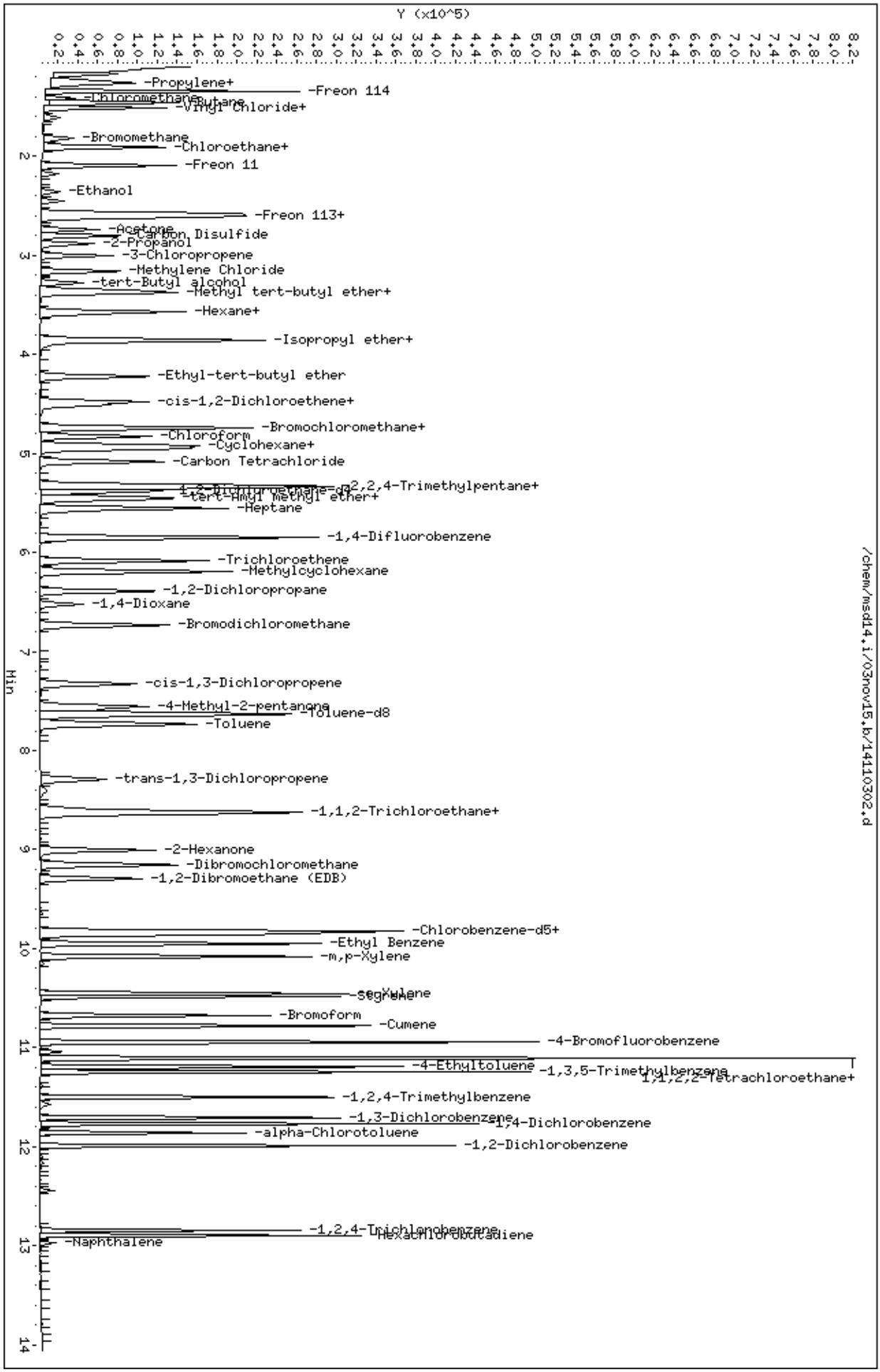
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52541	31525	73557	52541	0.00
123 1,4-Difluorobenze	234761	140857	328665	234761	0.00
163 Chlorobenzene-d5	193804	116282	271326	193804	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/03nov15.b/14110302.d
Date : 03-NOV-2015 08:55
Client ID: CCV
Sample Info: 50ml #2759-5
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1510593-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 09:22 AM**	

Compound	%Recovery	Method Limits
Freon 12	119	70-130
Freon 114	111	70-130
Chloromethane	122	70-130
Vinyl Chloride	111	70-130
1,3-Butadiene	108	70-130
Bromomethane	107	70-130
Chloroethane	110	70-130
Freon 11	114	70-130
Ethanol	124	70-130
Freon 113	101	70-130
1,1-Dichloroethene	109	70-130
Acetone	109	70-130
2-Propanol	125	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	102	70-130
Methylene Chloride	118	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	94	70-130
Hexane	113	70-130
1,1-Dichloroethane	116	70-130
2-Butanone (Methyl Ethyl Ketone)	111	70-130
cis-1,2-Dichloroethene	118	70-130
Tetrahydrofuran	128	70-130
Chloroform	116	70-130
1,1,1-Trichloroethane	114	70-130
Cyclohexane	110	70-130
Carbon Tetrachloride	113	70-130
2,2,4-Trimethylpentane	119	70-130
Benzene	111	70-130
1,2-Dichloroethane	120	70-130
Heptane	108	70-130
Trichloroethene	113	70-130
1,2-Dichloropropane	114	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	120	70-130
cis-1,3-Dichloropropene	108	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	112	70-130
trans-1,3-Dichloropropene	116	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	108	70-130
2-Hexanone	109	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1510593-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 09:22 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	112	70-130
1,2-Dibromoethane (EDB)	112	70-130
Chlorobenzene	107	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	110	70-130
o-Xylene	107	70-130
Styrene	106	70-130
Bromoform	109	70-130
Cumene	110	70-130
1,1,2,2-Tetrachloroethane	112	70-130
Propylbenzene	111	70-130
4-Ethyltoluene	108	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	108	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	112	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	109	70-130
Hexachlorobutadiene	107	70-130
Naphthalene	96	60-140

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 02-Nov-2015 09:49

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	63.089	126.18	70-130
11 Freon 12	50.000	59.727	119.45	70-130
15 Freon 114	50.000	55.637	111.27	70-130
17 Chloromethane	50.000	61.124	122.25	70-130
23 Butane	50.000	51.834	103.67	70-130
25 Vinyl Chloride	50.000	55.393	110.79	70-130
26 1,3-Butadiene	50.000	53.960	107.92	70-130
29 Bromomethane	50.000	53.337	106.67	70-130
30 Chloroethane	50.000	54.782	109.56	70-130
31 Isopentane	50.000	61.144	122.29	70-130
35 Freon 11	50.000	56.880	113.76	70-130
42 Ethanol	50.000	61.908	123.82	70-130
49 Freon 113	50.000	50.710	101.42	70-130
50 1,1-Dichloroethene	50.000	54.649	109.30	70-130
52 Acetone	50.000	54.619	109.24	70-130
56 Carbon Disulfide	50.000	47.175	94.35	70-130
57 2-Propanol	50.000	62.308	124.62	70-130
58 3-Chloropropene	50.000	51.019	102.04	70-130
66 Methylene Chloride	50.000	58.751	117.50	70-130
72 Methyl tert-butyl	50.000	53.974	107.95	70-130
73 trans-1,2-Dichloro	50.000	47.080	94.16	70-130
78 Hexane	50.000	56.347	112.69	70-130
82 1,1-Dichloroethane	50.000	58.227	116.45	70-130
86 Vinyl Acetate	50.000	55.856	111.71	70-130
91 cis-1,2-Dichloroet	50.000	59.223	118.45	70-130
92 2-Butanone	50.000	55.735	111.47	70-130
99 Tetrahydrofuran	50.000	63.935	127.87	70-130
100 Chloroform	50.000	58.184	116.37	70-130
103 1,1,1-Trichloroeth	50.000	56.859	113.72	70-130
106 Carbon Tetrachlori	50.000	56.396	112.79	70-130
102 Cyclohexane	50.000	55.170	110.34	70-130
113 2,2,4-Trimethylpen	50.000	59.302	118.60	70-130
116 Benzene	50.000	55.639	111.28	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	60.234	120.47	70-130
121 Heptane	50.000	53.839	107.68	70-130
125 Trichloroethene	50.000	56.558	113.12	70-130
127 Methylcyclohexane	50.000	54.658	109.32	70-130
132 1,2-Dichloropropan	50.000	57.191	114.38	70-130
136 1,4-Dioxane	50.000	55.064	110.13	70-130
138 Bromodichlorometha	50.000	60.093	120.19	70-130
144 cis-1,3-Dichloropr	50.000	54.149	108.30	70-130
145 4-Methyl-2-pentano	50.000	53.761	107.52	70-130
147 Toluene	50.000	55.751	111.50	70-130
150 trans-1,3-Dichloro	50.000	57.941	115.88	70-130
155 1,1,2-Trichloroeth	50.000	53.631	107.26	70-130
156 Tetrachloroethene	50.000	53.835	107.67	70-130
158 2-Hexanone	50.000	54.461	108.92	70-130
160 Dibromochlorometha	50.000	55.900	111.80	70-130
161 1,2-Dibromoethane	50.000	56.186	112.37	70-130
165 Chlorobenzene	50.000	53.313	106.63	70-130
167 Ethyl Benzene	50.000	54.436	108.87	70-130
169 m,p-Xylene	50.000	55.060	110.12	70-130
171 o-Xylene	50.000	53.458	106.92	70-130
172 Styrene	50.000	52.981	105.96	70-130
174 Bromoform	50.000	54.659	109.32	70-130
175 Cumene	50.000	54.805	109.61	70-130
181 1,1,2,2-Tetrachlor	50.000	55.843	111.69	70-130
182 Propylbenzene	50.000	55.688	111.38	70-130
188 4-Ethyltoluene	50.000	53.943	107.89	70-130
190 1,3,5-Trimethylben	50.000	51.068	102.14	70-130
196 1,2,4-Trimethylben	50.000	52.792	105.58	70-130
208 1,3-Dichlorobenzen	50.000	54.036	108.07	70-130
209 1,4-Dichlorobenzen	50.000	51.907	103.81	70-130
212 alpha-Chlorotoluen	50.000	55.897	111.79	70-130
214 1,2-Dichlorobenzen	50.000	55.220	110.44	70-130
226 1,2,4-Trichloroben	50.000	54.372	108.74	70-130
227 Hexachlorobutadien	50.000	53.317	106.63	70-130
228 Naphthalene	5.000	4.827	96.54	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	26.880	107.52	70-130
$ 146 Toluene-d8	25.000	25.896	103.58	70-130
$ 177 4-Bromofluorobenze	25.000	24.920	99.68	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110203.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 02-NOV-2015 09:22
Operator : sab Inst ID: msd3.i
Smp Info : 100ml 2736-272A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 02-Nov-2015 09:21 mskidmor Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	107384	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	81809			42.88- 102.88	76.18
5.592	5.592 (1.000)	49	284258			207.65- 267.65	264.71
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	464102	25.0000		80.00- 120.00	100.00
6.488	6.474 (1.000)	88	75386			0.00- 45.78	16.24
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.942	8.942 (1.000)	117	467878	25.0000		80.00- 120.00	100.00
8.935	8.934 (1.000)	82	270883			26.67- 86.67	57.90
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	252172	26.8798	26.880	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	126464			22.68- 82.68	50.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	515922	25.8956	25.896	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	60603			0.00- 41.75	11.75
7.702	7.702 (1.187)	100	330922			34.13- 94.13	64.14
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.923	9.923 (1.110)	174	287979	24.9201	24.920	80.00- 120.00	100.00
9.923	9.923 (1.110)	95	381567			96.73- 156.73	132.50
9.923	9.923 (1.110)	176	276474			65.47- 125.47	96.00
9 Propylene					CAS #: 115-07-1		
1.577	1.577 (0.282)	41	297622	63.0892	63.089	80.00- 120.00	100.00
1.577	1.577 (0.282)	42	201005			37.10- 97.10	67.54
1.577	1.577 (0.282)	39	212179			40.83- 100.83	71.29
11 Freon 12					CAS #: 75-71-8		
1.605	1.605 (0.287)	85	670135	59.7270	59.727	80.00- 120.00	100.00
1.605	1.605 (0.287)	87	213532			2.62- 62.62	31.86
15 Freon 114					CAS #: 76-14-2		
1.731	1.730 (0.309)	135	416356	55.6368	55.637	80.00- 120.00	100.00
1.731	1.730 (0.309)	137	138569			1.99- 61.99	33.28
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	291326	61.1240	61.124	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	92005			2.33- 62.33	31.58
23 Butane					CAS #: 106-97-8		
1.898	1.898 (0.339)	58	55874	51.8338	51.834	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	573656			902.69- 962.69	1026.70
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	242687	55.3928	55.393	80.00- 120.00	100.00
1.940	1.926 (0.347)	64	74459			0.00- 58.77	30.68
26 1,3-Butadiene					CAS #: 106-99-0		
1.968	1.968 (0.352)	54	261747	53.9604	53.960	80.00- 120.00	100.00
1.954	1.954 (0.349)	39	309611			79.69- 139.69	118.29
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	168485	53.3371	53.337	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	159614			63.59- 123.59	94.73
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	123578	54.7823	54.782	80.00- 120.00	100.00
2.458	2.458 (0.440)	66	34824			0.12- 60.12	28.18

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)								
2.458	2.458	(0.440)	49	58551			13.60- 73.60	47.38
31 Isopentane						CAS #: 78-78-4		
2.472	2.472	(0.442)	43	471675	61.1436	61.144	80.00- 120.00	100.00
2.472	2.472	(0.442)	57	258720			28.52- 88.52	54.85
35 Freon 11						CAS #: 75-69-4		
2.710	2.710	(0.485)	101	796035	56.8801	56.880	80.00- 120.00	100.00
2.710	2.710	(0.485)	103	510773			33.61- 93.61	64.16
42 Ethanol						CAS #: 64-17-5		
3.074	3.074	(0.550)	45	172041	61.9079	61.908	80.00- 120.00	100.00
3.074	3.074	(0.550)	43	35910			0.00- 51.11	20.87
3.074	3.060	(0.550)	46	64616			10.70- 70.70	37.56
49 Freon 113						CAS #: 76-13-1		
3.368	3.368	(0.602)	151	387382	50.7098	50.710	80.00- 120.00	100.00
3.368	3.368	(0.602)	153	246660			35.19- 95.19	63.67
3.368	3.368	(0.602)	101	474496			88.07- 148.07	122.49
50 1,1-Dichloroethene						CAS #: 75-35-4		
3.396	3.396	(0.607)	96	205535	54.6494	54.649	80.00- 120.00	100.00
3.396	3.396	(0.607)	98	132211			35.15- 95.15	64.33
3.396	3.396	(0.607)	61	542625			221.75- 281.75	264.01
52 Acetone						CAS #: 67-64-1		
3.549	3.549	(0.635)	58	161417	54.6189	54.619	80.00- 120.00	100.00
3.549	3.549	(0.635)	43	678614			351.83- 411.83	420.41
56 Carbon Disulfide						CAS #: 75-15-0		
3.633	3.633	(0.650)	76	511416	47.1748	47.175	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0		
3.717	3.717	(0.665)	45	778950	62.3075	62.308	80.00- 120.00	100.00
3.717	3.717	(0.665)	43	152964			0.00- 48.10	19.64
3.731	3.717	(0.667)	59	21548			0.00- 33.34	2.77
58 3-Chloropropene						CAS #: 107-05-1		
3.871	3.871	(0.692)	76	91802	51.0187	51.019	80.00- 120.00	100.00
3.871	3.871	(0.692)	41	563914			488.81- 548.81	614.27
66 Methylene Chloride						CAS #: 75-09-2		
4.053	4.053	(0.725)	49	522486	58.7515	58.751	80.00- 120.00	100.00
4.053	4.053	(0.725)	84	185076			9.02- 69.02	35.42
4.053	4.053	(0.725)	51	154745			0.00- 59.58	29.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	62616	4.61181	4.612	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	16954			0.00- 53.22	27.08
4.179	4.179 (0.747)	57	9489			0.00- 41.48	15.15
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	707562	53.9736	53.974	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	240017			2.00- 62.00	33.92
4.277	4.263 (0.765)	41	272136			3.65- 63.65	38.46
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	121656	47.0800	47.080	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	424054			296.65- 356.65	348.57
4.291	4.291 (0.767)	96	194571			124.62- 184.62	159.94
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	569908	56.3470	56.347	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	473844			44.95- 104.95	83.14
4.501	4.501 (0.805)	86	54022			0.00- 40.12	9.48
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	576552	58.2273	58.227	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	168352			0.00- 58.92	29.20
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	60105	55.8565	55.856	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	1318020			2043.04-2103.04	2192.86
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	177008	59.2228	59.223	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	275587			121.93- 181.93	155.69
5.354	5.354 (0.957)	61	556011			268.28- 328.28	314.12
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	113696	55.7346	55.735	80.00- 120.00	100.00
5.396	5.382 (0.965)	43	1002221			717.19- 777.19	881.49
5.396	5.396 (0.965)	57	62175			21.09- 81.09	54.69
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	577098	63.9352	63.935	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	105648			0.00- 49.93	18.31
5.592	5.592 (1.000)	72	106873			0.00- 50.49	18.52
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	591855	58.1842	58.184	80.00- 120.00	100.00
5.648	5.648 (1.010)	85	381225			34.28- 94.28	64.41

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	321837	55.1701	55.170	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	681074			165.55- 225.55	211.62
5.760	5.760 (1.030)	41	423368			88.39- 148.39	131.55
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	679050	56.8592	56.859	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	439991			33.59- 93.59	64.80
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	743613	56.3960	56.396	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	770939			75.03- 135.03	103.67
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.082 (1.090)	57	2074300	59.3022	59.302	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	675702			2.46- 62.46	32.57
6.082	6.082 (1.088)	41	645401			0.00- 55.56	31.11
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	714137	55.6390	55.639	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	172974			0.00- 54.02	24.22
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	580718	60.2340	60.234	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	180005			0.97- 60.97	31.00
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	266163	53.8395	53.839	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	996834			309.54- 369.54	374.52
6.250	6.250 (0.963)	57	495678			143.16- 203.16	186.23
125 Trichloroethene					CAS #: 79-01-6		
6.685	6.678 (1.030)	95	365422	56.5580	56.558	80.00- 120.00	100.00
6.678	6.678 (1.029)	130	354739			68.86- 128.86	97.08
6.685	6.678 (1.030)	97	234331			32.82- 92.82	64.13
127 Methylcyclohexane					CAS #: 108-87-2		
6.786	6.786 (1.046)	83	446049	54.6581	54.658	80.00- 120.00	100.00
6.786	6.786 (1.046)	98	210314			17.65- 77.65	47.15
6.786	6.786 (1.046)	55	688702			110.81- 170.81	154.40
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.922	6.922 (1.067)	63	383058	57.1909	57.191	80.00- 120.00	100.00
6.922	6.922 (1.067)	62	282014			41.59- 101.59	73.62
6.922	6.922 (1.067)	41	308990			40.69- 100.69	80.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
7.008	7.008 (1.080)	88	178786	55.0644	55.064	80.00- 120.00	100.00
7.008	7.008 (1.080)	58	212229			79.36- 139.36	118.71
7.008	7.008 (1.080)	57	71669			6.63- 66.63	40.09
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	719607	60.0929	60.093	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	465250			34.24- 94.24	64.65
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	518404	54.1492	54.149	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	160246			2.36- 62.36	30.91
7.523	7.516 (1.160)	39	455856			46.86- 106.86	87.93
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	402331	53.7606	53.761	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	1331543			274.73- 334.73	330.96
7.631	7.631 (1.176)	85	109179			0.00- 58.76	27.14
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	991153	55.7513	55.751	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	574355			27.05- 87.05	57.95
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.996	7.996 (0.894)	75	540536	57.9407	57.941	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	172528			0.84- 60.84	31.92
7.996	7.996 (0.894)	39	421207			38.83- 98.83	77.92
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	341813	53.6307	53.631	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	215484			32.22- 92.22	63.04
8.154	8.154 (0.912)	83	300334			54.60- 114.60	87.87
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	491401	53.8351	53.835	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	394835			47.11- 107.11	80.35
8.197	8.197 (0.917)	131	376479			43.50- 103.50	76.61
158 2-Hexanone					CAS #: 591-78-6		
8.319	8.318 (0.930)	58	550357	54.4607	54.461	80.00- 120.00	100.00
8.319	8.318 (0.930)	43	1277666			189.79- 249.79	232.15
8.319	8.318 (0.930)	100	65550			0.00- 43.05	11.91
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	726395	55.9004	55.900	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	569670			46.79- 106.79	78.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.584	8.583 (0.960)	107	574234	56.1864	56.186	80.00- 120.00	100.00
8.584	8.583 (0.960)	109	537331			64.52- 124.52	93.57
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	842195	53.3131	53.313	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	268983			2.26- 62.26	31.94
8.963	8.963 (1.002)	77	523268			30.55- 90.55	62.13
167 Ethyl Benzene					CAS #: 100-41-4		
9.013	9.006 (1.008)	106	437373	54.4357	54.436	80.00- 120.00	100.00
9.013	9.006 (1.008)	91	1426878			294.90- 354.90	326.24
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	555743	55.0601	55.060	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	1179324			185.23- 245.23	212.21
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	524266	53.4579	53.458	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	1193389			194.61- 254.61	227.63
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	855613	52.9807	52.981	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	474010			26.13- 86.13	55.40
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	727823	54.6588	54.659	80.00- 120.00	100.00
9.672	9.672 (1.082)	171	372482			22.32- 82.32	51.18
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	1704113	54.8052	54.805	80.00- 120.00	100.00
9.737	9.737 (1.089)	120	445314			0.00- 56.11	26.13
9.737	9.737 (1.089)	51	306021			0.00- 46.14	17.96
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	821144	55.8433	55.843	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	540457			34.99- 94.99	65.82
182 Propylbenzene					CAS #: 103-65-1		
10.081	10.081 (1.127)	91	2045413	55.6878	55.688	80.00- 120.00	100.00
10.081	10.081 (1.127)	120	467127			0.00- 52.84	22.84
10.081	10.081 (1.127)	105	78222			0.00- 33.71	3.82
188 4-Ethyltoluene					CAS #: 622-96-8		
10.174	10.174 (1.138)	120	511463	53.9426	53.943	80.00- 120.00	100.00
10.174	10.174 (1.138)	105	1717641			305.47- 365.47	335.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.224	10.231 (1.143)	120	677970	51.0677	51.068	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	1493283			180.29- 240.29	220.26
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.553	10.553 (1.180)	105	1439121	52.7924	52.792	80.00- 120.00	100.00
10.553	10.553 (1.180)	120	622945			13.81- 73.81	43.29
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.847	10.847 (1.213)	146	956276	54.0359	54.036	80.00- 120.00	100.00
10.847	10.847 (1.213)	148	595611			33.25- 93.25	62.28
10.840	10.847 (1.212)	111	406892			12.53- 72.53	42.55
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.926	10.926 (1.222)	146	958324	51.9068	51.907	80.00- 120.00	100.00
10.926	10.926 (1.222)	148	617819			32.78- 92.78	64.47
10.926	10.926 (1.222)	111	394199			10.80- 70.80	41.13
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.040	11.040 (1.235)	91	1441389	55.8970	55.897	80.00- 120.00	100.00
11.048	11.040 (1.236)	126	287824			0.00- 49.93	19.97
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.255	11.255 (1.259)	146	927111	55.2205	55.220	80.00- 120.00	100.00
11.255	11.255 (1.259)	148	581013			34.01- 94.01	62.67
11.255	11.255 (1.259)	111	417300			13.60- 73.60	45.01
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.688	12.688 (1.419)	180	795577	54.3717	54.372	80.00- 120.00	100.00
12.688	12.688 (1.419)	182	771124			64.08- 124.08	96.93
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.774	12.781 (1.429)	225	655422	53.3173	53.317	80.00- 120.00	100.00
12.781	12.774 (1.429)	223	404058			32.97- 92.97	61.65
228 Naphthalene					CAS #: 91-20-3		
12.967	12.967 (1.450)	128	182850	4.82702	4.827	80.00- 120.00	100.00
12.967	12.960 (1.450)	127	23332			0.00- 42.95	12.76

Report Date: 02-Nov-2015 09:49

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110203.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 02-NOV-2015
Calibration Time: 08:58
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	107384	-2.17
123 1,4-Difluorobenze	462095	277257	646933	464102	0.43
163 Chlorobenzene-d5	458379	275027	641731	467878	2.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/02nov15.b/3110203.d

Date : 02-NOV-2015 09:22

Client ID: LCS

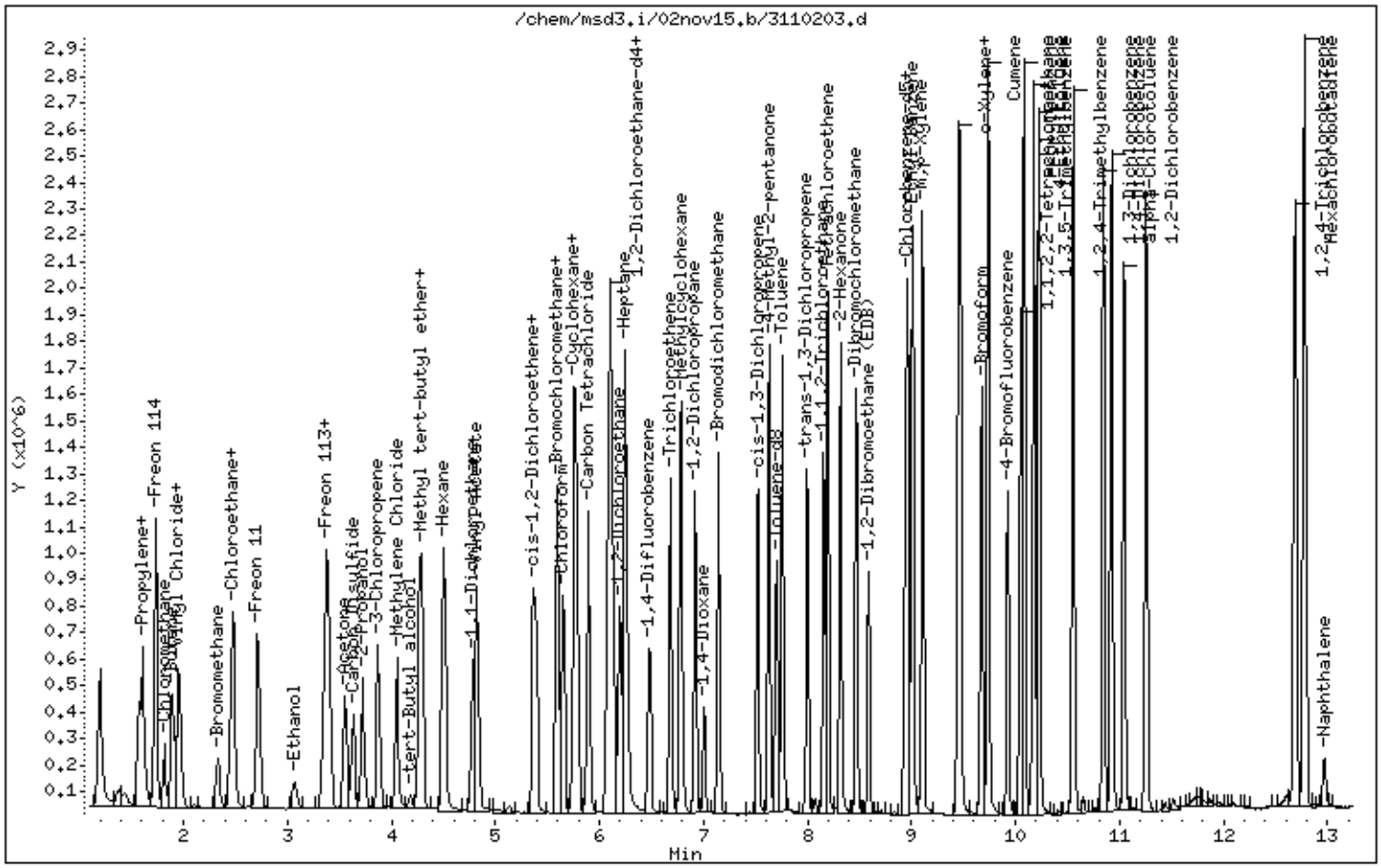
Instrument: msd3.i

Sample Info: 100ml 2736-272A

Operator: sab

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 1510593-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 09:47 AM**	

Compound	%Recovery	Method Limits
Freon 12	121	70-130
Freon 114	112	70-130
Chloromethane	124	70-130
Vinyl Chloride	114	70-130
1,3-Butadiene	113	70-130
Bromomethane	105	70-130
Chloroethane	113	70-130
Freon 11	116	70-130
Ethanol	124	70-130
Freon 113	100	70-130
1,1-Dichloroethene	111	70-130
Acetone	112	70-130
2-Propanol	124	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	106	70-130
Methylene Chloride	117	70-130
Methyl tert-butyl ether	111	70-130
trans-1,2-Dichloroethene	96	70-130
Hexane	115	70-130
1,1-Dichloroethane	116	70-130
2-Butanone (Methyl Ethyl Ketone)	117	70-130
cis-1,2-Dichloroethene	116	70-130
Tetrahydrofuran	124	70-130
Chloroform	117	70-130
1,1,1-Trichloroethane	114	70-130
Cyclohexane	112	70-130
Carbon Tetrachloride	113	70-130
2,2,4-Trimethylpentane	120	70-130
Benzene	111	70-130
1,2-Dichloroethane	117	70-130
Heptane	107	70-130
Trichloroethene	112	70-130
1,2-Dichloropropane	114	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	115	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	104	70-130
Toluene	110	70-130
trans-1,3-Dichloropropene	113	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	104	70-130
2-Hexanone	105	70-130

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Client Sample ID: LCSD

Lab ID#: 1510593-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3110204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/2/15 09:47 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	110	70-130
1,2-Dibromoethane (EDB)	108	70-130
Chlorobenzene	104	70-130
Ethyl Benzene	107	70-130
m,p-Xylene	106	70-130
o-Xylene	106	70-130
Styrene	103	70-130
Bromoform	107	70-130
Cumene	107	70-130
1,1,2,2-Tetrachloroethane	112	70-130
Propylbenzene	110	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	116	70-130
Hexachlorobutadiene	115	70-130
Naphthalene	100	60-140

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	96	70-130

Report Date: 02-Nov-2015 10:37

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 02nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: sab
Data Type: MS DATA
SampleType: LCSD
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	63.650	127.30	70-130
11 Freon 12	50.000	60.492	120.98	70-130
15 Freon 114	50.000	55.992	111.98	70-130
17 Chloromethane	50.000	62.204	124.41	70-130
23 Butane	50.000	54.640	109.28	70-130
25 Vinyl Chloride	50.000	57.176	114.35	70-130
26 1,3-Butadiene	50.000	56.302	112.60	70-130
29 Bromomethane	50.000	52.645	105.29	70-130
30 Chloroethane	50.000	56.401	112.80	70-130
31 Isopentane	50.000	60.818	121.64	70-130
35 Freon 11	50.000	58.033	116.07	70-130
42 Ethanol	50.000	61.760	123.52	70-130
49 Freon 113	50.000	50.197	100.39	70-130
50 1,1-Dichloroethene	50.000	55.449	110.90	70-130
52 Acetone	50.000	55.939	111.88	70-130
56 Carbon Disulfide	50.000	48.396	96.79	70-130
57 2-Propanol	50.000	62.297	124.59	70-130
58 3-Chloropropene	50.000	53.002	106.01	70-130
66 Methylene Chloride	50.000	58.489	116.98	70-130
72 Methyl tert-butyl	50.000	55.310	110.62	70-130
73 trans-1,2-Dichloro	50.000	47.951	95.90	70-130
78 Hexane	50.000	57.536	115.07	70-130
82 1,1-Dichloroethane	50.000	58.228	116.46	70-130
86 Vinyl Acetate	50.000	58.267	116.53	70-130
91 cis-1,2-Dichloroet	50.000	58.171	116.34	70-130
92 2-Butanone	50.000	58.353	116.71	70-130
99 Tetrahydrofuran	50.000	61.938	123.88	70-130
100 Chloroform	50.000	58.488	116.98	70-130
103 1,1,1-Trichloroeth	50.000	57.056	114.11	70-130
106 Carbon Tetrachlori	50.000	56.525	113.05	70-130
102 Cyclohexane	50.000	56.002	112.00	70-130
113 2,2,4-Trimethylpen	50.000	59.923	119.85	70-130
116 Benzene	50.000	55.548	111.10	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	58.651	117.30	70-130
121 Heptane	50.000	53.634	107.27	70-130
125 Trichloroethene	50.000	55.755	111.51	70-130
127 Methylcyclohexane	50.000	54.792	109.58	70-130
132 1,2-Dichloropropan	50.000	56.765	113.53	70-130
136 1,4-Dioxane	50.000	54.774	109.55	70-130
138 Bromodichlorometha	50.000	57.314	114.63	70-130
144 cis-1,3-Dichloropr	50.000	51.356	102.71	70-130
145 4-Methyl-2-pentano	50.000	51.926	103.85	70-130
147 Toluene	50.000	55.045	110.09	70-130
150 trans-1,3-Dichloro	50.000	56.386	112.77	70-130
155 1,1,2-Trichloroeth	50.000	53.212	106.42	70-130
156 Tetrachloroethene	50.000	51.797	103.59	70-130
158 2-Hexanone	50.000	52.610	105.22	70-130
160 Dibromochlorometha	50.000	55.289	110.58	70-130
161 1,2-Dibromoethane	50.000	54.240	108.48	70-130
165 Chlorobenzene	50.000	52.212	104.42	70-130
167 Ethyl Benzene	50.000	53.366	106.73	70-130
169 m,p-Xylene	50.000	53.137	106.27	70-130
171 o-Xylene	50.000	52.858	105.72	70-130
172 Styrene	50.000	51.542	103.08	70-130
174 Bromoform	50.000	53.396	106.79	70-130
175 Cumene	50.000	53.703	107.41	70-130
181 1,1,2,2-Tetrachlor	50.000	55.946	111.89	70-130
182 Propylbenzene	50.000	55.069	110.14	70-130
188 4-Ethyltoluene	50.000	53.180	106.36	70-130
190 1,3,5-Trimethylben	50.000	50.647	101.29	70-130
196 1,2,4-Trimethylben	50.000	52.619	105.24	70-130
208 1,3-Dichlorobenzen	50.000	53.109	106.22	70-130
209 1,4-Dichlorobenzen	50.000	51.392	102.78	70-130
212 alpha-Chlorotoluen	50.000	55.511	111.02	70-130
214 1,2-Dichlorobenzen	50.000	55.008	110.02	70-130
226 1,2,4-Trichloroben	50.000	57.779	115.56	70-130
227 Hexachlorobutadien	50.000	57.473	114.95	70-130
228 Naphthalene	5.000	4.990	99.80	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.967	103.87	70-130
$ 146 Toluene-d8	25.000	25.672	102.69	70-130
$ 177 4-Bromofluorobenze	25.000	24.114	96.46	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd3.i/02nov15.b/3110204.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 02-NOV-2015 09:47
Operator : sab Inst ID: msd3.i
Smp Info : 100ml 2736-272A
Misc Info : 50ppbv (100ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msd3.i/02nov15.b/315q1023a.m
Meth Date : 02-Nov-2015 09:50 sblack Quant Type: ISTD
Cal Date : 23-OCT-2015 15:51 Cal File: 3102310.d
Als bottle: 14 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
5.592	5.592 (1.000)	130	108677	25.0000		80.00- 120.00	100.00
5.592	5.592 (1.000)	128	83379			42.88- 102.88	76.72
5.592	5.592 (1.000)	49	293310			207.65- 267.65	269.89
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.488	6.488 (1.000)	114	483802	25.0000		80.00- 120.00	100.00
6.488	6.474 (1.000)	88	81223			0.00- 45.78	16.79
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.941	8.942 (1.000)	117	486534	25.0000		80.00- 120.00	100.00
8.941	8.934 (1.000)	82	282259			26.67- 86.67	58.01
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
6.138	6.124 (1.098)	65	246542	25.9670	25.967	80.00- 120.00	100.00
6.138	6.138 (1.098)	67	130177			22.68- 82.68	52.80

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.702	7.702 (1.187)	98	533178	25.6720	25.672	80.00- 120.00	100.00
7.702	7.702 (1.187)	70	62333			0.00- 41.75	11.69
7.702	7.702 (1.187)	100	341189			34.13- 94.13	63.99
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.930	9.923 (1.111)	174	289777	24.1142	24.114	80.00- 120.00	100.00
9.930	9.923 (1.111)	95	384331			96.73- 156.73	132.63
9.930	9.923 (1.111)	176	283045			65.47- 125.47	97.68
9 Propylene					CAS #: 115-07-1		
1.576	1.577 (0.282)	41	303883	63.6500	63.650	80.00- 120.00	100.00
1.576	1.577 (0.282)	42	201121			37.10- 97.10	66.18
1.576	1.577 (0.282)	39	215778			40.83- 100.83	71.01
11 Freon 12					CAS #: 75-71-8		
1.604	1.605 (0.287)	85	686889	60.4919	60.492	80.00- 120.00	100.00
1.604	1.605 (0.287)	87	222821			2.62- 62.62	32.44
15 Freon 114					CAS #: 76-14-2		
1.730	1.730 (0.309)	135	424059	55.9919	55.992	80.00- 120.00	100.00
1.730	1.730 (0.309)	137	135687			1.99- 61.99	32.00
17 Chloromethane					CAS #: 74-87-3		
1.814	1.814 (0.324)	50	300044	62.2042	62.204	80.00- 120.00	100.00
1.814	1.814 (0.324)	52	94019			2.33- 62.33	31.34
23 Butane					CAS #: 106-97-8		
1.884	1.898 (0.337)	58	59608	54.6399	54.640	80.00- 120.00	100.00
1.898	1.898 (0.339)	43	584747			902.69- 962.69	980.99
25 Vinyl Chloride					CAS #: 75-01-4		
1.940	1.940 (0.347)	62	253514	57.1756	57.176	80.00- 120.00	100.00
1.940	1.926 (0.347)	64	78946			0.00- 58.77	31.14
26 1,3-Butadiene					CAS #: 106-99-0		
1.954	1.968 (0.349)	54	276394	56.3020	56.302	80.00- 120.00	100.00
1.968	1.954 (0.352)	39	319462			79.69- 139.69	115.58
29 Bromomethane					CAS #: 74-83-9		
2.332	2.332 (0.417)	94	168302	52.6453	52.645	80.00- 120.00	100.00
2.332	2.332 (0.417)	96	161406			63.59- 123.59	95.90
30 Chloroethane					CAS #: 75-00-3		
2.458	2.458 (0.440)	64	128762	56.4012	56.401	80.00- 120.00	100.00
2.444	2.458 (0.437)	66	36655			0.12- 60.12	28.47

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)								
2.458	2.458	(0.440)	49	56659			13.60- 73.60	44.00
31 Isopentane						CAS #: 78-78-4		
2.472	2.472	(0.442)	43	474811	60.8178	60.818	80.00- 120.00	100.00
2.472	2.472	(0.442)	57	264770			28.52- 88.52	55.76
35 Freon 11						CAS #: 75-69-4		
2.710	2.710	(0.485)	101	821947	58.0329	58.033	80.00- 120.00	100.00
2.710	2.710	(0.485)	103	516198			33.61- 93.61	62.80
42 Ethanol						CAS #: 64-17-5		
3.074	3.074	(0.550)	45	173698	61.7605	61.760	80.00- 120.00	100.00
3.074	3.074	(0.550)	43	36662			0.00- 51.11	21.11
3.060	3.060	(0.547)	46	68777			10.70- 70.70	39.60
49 Freon 113						CAS #: 76-13-1		
3.367	3.368	(0.602)	151	388083	50.1971	50.197	80.00- 120.00	100.00
3.367	3.368	(0.602)	153	247567			35.19- 95.19	63.79
3.367	3.368	(0.602)	101	485847			88.07- 148.07	125.19
50 1,1-Dichloroethene						CAS #: 75-35-4		
3.395	3.396	(0.607)	96	211052	55.4487	55.449	80.00- 120.00	100.00
3.395	3.396	(0.607)	98	135462			35.15- 95.15	64.18
3.395	3.396	(0.607)	61	548194			221.75- 281.75	259.74
52 Acetone						CAS #: 67-64-1		
3.549	3.549	(0.635)	58	167310	55.9394	55.939	80.00- 120.00	100.00
3.549	3.549	(0.635)	43	670865			351.83- 411.83	400.97
56 Carbon Disulfide						CAS #: 75-15-0		
3.633	3.633	(0.650)	76	530970	48.3958	48.396	80.00- 120.00	100.00
57 2-Propanol						CAS #: 67-63-0		
3.717	3.717	(0.665)	45	788194	62.2968	62.297	80.00- 120.00	100.00
3.717	3.717	(0.665)	43	153185			0.00- 48.10	19.43
3.717	3.717	(0.665)	59	23164			0.00- 33.34	2.94
58 3-Chloropropene						CAS #: 107-05-1		
3.871	3.871	(0.692)	76	96520	53.0025	53.002	80.00- 120.00	100.00
3.871	3.871	(0.692)	41	554675			488.81- 548.81	574.67
66 Methylene Chloride						CAS #: 75-09-2		
4.053	4.053	(0.725)	49	526413	58.4888	58.489	80.00- 120.00	100.00
4.053	4.053	(0.725)	84	188804			9.02- 69.02	35.87
4.053	4.053	(0.725)	51	160031			0.00- 59.58	30.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
71 tert-Butyl alcohol					CAS #: 75-65-0		
4.179	4.179 (0.747)	59	58862	4.28374	4.284	80.00- 120.00	100.00
4.179	4.179 (0.747)	41	15632			0.00- 53.22	26.56
4.179	4.179 (0.747)	57	9711			0.00- 41.48	16.50
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.277	4.277 (0.765)	73	733817	55.3103	55.310	80.00- 120.00	100.00
4.277	4.277 (0.765)	57	248497			2.00- 62.00	33.86
4.263	4.263 (0.762)	41	276720			3.65- 63.65	37.71
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.291	4.291 (0.767)	98	125399	47.9511	47.951	80.00- 120.00	100.00
4.291	4.291 (0.767)	61	433120			296.65- 356.65	345.39
4.291	4.291 (0.767)	96	192656			124.62- 184.62	153.63
78 Hexane					CAS #: 110-54-3		
4.501	4.501 (0.805)	57	588941	57.5360	57.536	80.00- 120.00	100.00
4.501	4.501 (0.805)	43	479257			44.95- 104.95	81.38
4.501	4.501 (0.805)	86	53581			0.00- 40.12	9.10
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.781	4.781 (0.855)	63	583501	58.2280	58.228	80.00- 120.00	100.00
4.781	4.781 (0.855)	65	172101			0.00- 58.92	29.49
86 Vinyl Acetate					CAS #: 108-05-4		
4.823	4.823 (0.862)	86	63454	58.2672	58.267	80.00- 120.00	100.00
4.823	4.823 (0.862)	43	1328508			2043.04-2103.04	2093.66
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.368	5.368 (0.960)	98	175957	58.1707	58.171	80.00- 120.00	100.00
5.368	5.368 (0.960)	96	276866			121.93- 181.93	157.35
5.354	5.354 (0.957)	61	556401			268.28- 328.28	316.21
92 2-Butanone					CAS #: 78-93-3		
5.396	5.396 (0.965)	72	120470	58.3527	58.353	80.00- 120.00	100.00
5.396	5.382 (0.965)	43	1000459			717.19- 777.19	830.46
5.396	5.396 (0.965)	57	64236			21.09- 81.09	53.32
99 Tetrahydrofuran					CAS #: 109-99-9		
5.592	5.592 (1.000)	42	565801	61.9378	61.938	80.00- 120.00	100.00
5.592	5.592 (1.000)	71	100474			0.00- 49.93	17.76
5.592	5.592 (1.000)	72	113115			0.00- 50.49	19.99
100 Chloroform					CAS #: 67-66-3		
5.648	5.648 (1.010)	83	602109	58.4880	58.488	80.00- 120.00	100.00
5.648	5.648 (1.010)	85	386425			34.28- 94.28	64.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
5.760	5.760 (1.030)	84	330626	56.0024	56.002	80.00- 120.00	100.00
5.760	5.760 (1.030)	56	692531			165.55- 225.55	209.46
5.760	5.760 (1.030)	41	432593			88.39- 148.39	130.84
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.774	5.774 (1.033)	97	689612	57.0565	57.056	80.00- 120.00	100.00
5.774	5.774 (1.033)	99	446137			33.59- 93.59	64.69
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.900	5.900 (1.055)	119	754295	56.5255	56.525	80.00- 120.00	100.00
5.900	5.900 (1.055)	117	783702			75.03- 135.03	103.90
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
6.096	6.082 (1.090)	57	2121270	59.9235	59.923	80.00- 120.00	100.00
6.082	6.082 (1.088)	56	695444			2.46- 62.46	32.78
6.082	6.082 (1.088)	41	653599			0.00- 55.56	30.81
116 Benzene					CAS #: 71-43-2		
6.110	6.110 (0.942)	78	743234	55.5481	55.548	80.00- 120.00	100.00
6.110	6.110 (0.942)	77	176729			0.00- 54.02	23.78
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.194	6.194 (0.955)	62	589461	58.6513	58.651	80.00- 120.00	100.00
6.194	6.194 (0.955)	64	183024			0.97- 60.97	31.05
121 Heptane					CAS #: 142-82-5		
6.250	6.250 (0.963)	71	276400	53.6336	53.634	80.00- 120.00	100.00
6.250	6.250 (0.963)	43	1012222			309.54- 369.54	366.22
6.250	6.250 (0.963)	57	505540			143.16- 203.16	182.90
125 Trichloroethene					CAS #: 79-01-6		
6.678	6.678 (1.029)	95	375523	55.7547	55.755	80.00- 120.00	100.00
6.685	6.678 (1.030)	130	356356			68.86- 128.86	94.90
6.685	6.678 (1.030)	97	242694			32.82- 92.82	64.63
127 Methylcyclohexane					CAS #: 108-87-2		
6.785	6.786 (1.046)	83	466124	54.7923	54.792	80.00- 120.00	100.00
6.785	6.786 (1.046)	98	214810			17.65- 77.65	46.08
6.785	6.786 (1.046)	55	696058			110.81- 170.81	149.33
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.921	6.922 (1.067)	63	396343	56.7649	56.765	80.00- 120.00	100.00
6.921	6.922 (1.067)	62	281192			41.59- 101.59	70.95
6.921	6.922 (1.067)	41	311503			40.69- 100.69	78.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
7.007	7.008 (1.080)	88	185393	54.7742	54.774	80.00- 120.00	100.00
7.007	7.008 (1.080)	58	215851			79.36- 139.36	116.43
7.007	7.008 (1.080)	57	73928			6.63- 66.63	39.88
138 Bromodichloromethane					CAS #: 75-27-4		
7.144	7.144 (1.101)	83	715462	57.3139	57.314	80.00- 120.00	100.00
7.144	7.144 (1.101)	85	459551			34.24- 94.24	64.23
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.523	7.523 (1.160)	75	512532	51.3559	51.356	80.00- 120.00	100.00
7.523	7.523 (1.160)	77	160437			2.36- 62.36	31.30
7.523	7.516 (1.160)	39	457304			46.86- 106.86	89.22
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.631	7.631 (1.176)	58	405101	51.9266	51.926	80.00- 120.00	100.00
7.631	7.631 (1.176)	43	1333860			274.73- 334.73	329.27
7.631	7.631 (1.176)	85	118141			0.00- 58.76	29.16
147 Toluene					CAS #: 108-88-3		
7.760	7.760 (1.196)	91	1020139	55.0452	55.045	80.00- 120.00	100.00
7.760	7.760 (1.196)	92	584826			27.05- 87.05	57.33
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.996	7.996 (0.894)	75	547007	56.3860	56.386	80.00- 120.00	100.00
7.996	7.996 (0.894)	77	171487			0.84- 60.84	31.35
7.996	7.996 (0.894)	39	430124			38.83- 98.83	78.63
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.154	8.154 (0.912)	97	352670	53.2124	53.212	80.00- 120.00	100.00
8.154	8.154 (0.912)	99	222984			32.22- 92.22	63.23
8.154	8.154 (0.912)	83	310578			54.60- 114.60	88.06
156 Tetrachloroethene					CAS #: 127-18-4		
8.197	8.197 (0.917)	166	491647	51.7968	51.797	80.00- 120.00	100.00
8.197	8.197 (0.917)	129	393851			47.11- 107.11	80.11
8.197	8.197 (0.917)	131	371590			43.50- 103.50	75.58
158 2-Hexanone					CAS #: 591-78-6		
8.318	8.318 (0.930)	58	552850	52.6097	52.610	80.00- 120.00	100.00
8.318	8.318 (0.930)	43	1291810			189.79- 249.79	233.66
8.318	8.318 (0.930)	100	71330			0.00- 43.05	12.90
160 Dibromochloromethane					CAS #: 124-48-1		
8.469	8.469 (0.947)	129	747102	55.2893	55.289	80.00- 120.00	100.00
8.469	8.469 (0.947)	127	578626			46.79- 106.79	77.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
8.583	8.583 (0.960)	107	576444	54.2399	54.240	80.00- 120.00	100.00
8.583	8.583 (0.960)	109	548047			64.52- 124.52	95.07
165 Chlorobenzene					CAS #: 108-90-7		
8.963	8.963 (1.002)	112	857687	52.2119	52.212	80.00- 120.00	100.00
8.963	8.963 (1.002)	114	268020			2.26- 62.26	31.25
8.963	8.963 (1.002)	77	528406			30.55- 90.55	61.61
167 Ethyl Benzene					CAS #: 100-41-4		
9.006	9.006 (1.007)	106	445877	53.3662	53.366	80.00- 120.00	100.00
9.013	9.006 (1.008)	91	1471248			294.90- 354.90	329.97
169 m,p-Xylene					CAS #: 108-38-3		
9.106	9.106 (1.018)	106	557723	53.1375	53.137	80.00- 120.00	100.00
9.106	9.106 (1.018)	91	1187915			185.23- 245.23	212.99
171 o-Xylene					CAS #: 95-47-6		
9.450	9.450 (1.057)	106	539053	52.8581	52.858	80.00- 120.00	100.00
9.450	9.450 (1.057)	91	1215132			194.61- 254.61	225.42
172 Styrene					CAS #: 100-42-5		
9.472	9.472 (1.059)	104	865569	51.5420	51.542	80.00- 120.00	100.00
9.472	9.472 (1.059)	78	488635			26.13- 86.13	56.45
174 Bromoform					CAS #: 75-25-2		
9.672	9.672 (1.082)	173	739355	53.3958	53.396	80.00- 120.00	100.00
9.679	9.672 (1.083)	171	382706			22.32- 82.32	51.76
175 Cumene					CAS #: 98-82-8		
9.737	9.737 (1.089)	105	1736437	53.7034	53.703	80.00- 120.00	100.00
9.744	9.737 (1.090)	120	449164			0.00- 56.11	25.87
9.737	9.737 (1.089)	51	305442			0.00- 46.14	17.59
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
10.052	10.052 (1.124)	83	855462	55.9463	55.946	80.00- 120.00	100.00
10.052	10.052 (1.124)	85	548101			34.99- 94.99	64.07
182 Propylbenzene					CAS #: 103-65-1		
10.088	10.081 (1.128)	91	2103334	55.0690	55.069	80.00- 120.00	100.00
10.088	10.081 (1.128)	120	481552			0.00- 52.84	22.89
10.088	10.081 (1.128)	105	75604			0.00- 33.71	3.59
188 4-Ethyltoluene					CAS #: 622-96-8		
10.181	10.174 (1.139)	120	524340	53.1802	53.180	80.00- 120.00	100.00
10.181	10.174 (1.139)	105	1748768			305.47- 365.47	333.52

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.231	10.231 (1.144)	120	699192	50.6468	50.647	80.00- 120.00	100.00
10.231	10.231 (1.144)	105	1502014			180.29- 240.29	214.82
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.560	10.553 (1.181)	105	1491598	52.6193	52.619	80.00- 120.00	100.00
10.560	10.553 (1.181)	120	661740			13.81- 73.81	44.36
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.854	10.847 (1.214)	146	977353	53.1092	53.109	80.00- 120.00	100.00
10.854	10.847 (1.214)	148	626383			33.25- 93.25	64.09
10.854	10.847 (1.214)	111	420709			12.53- 72.53	43.05
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.933	10.926 (1.223)	146	986656	51.3922	51.392	80.00- 120.00	100.00
10.933	10.926 (1.223)	148	612922			32.78- 92.78	62.12
10.933	10.926 (1.223)	111	406043			10.80- 70.80	41.15
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.055	11.040 (1.236)	91	1488504	55.5107	55.511	80.00- 120.00	100.00
11.055	11.040 (1.236)	126	293320			0.00- 49.93	19.71
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.262	11.255 (1.260)	146	960377	55.0085	55.008	80.00- 120.00	100.00
11.262	11.255 (1.260)	148	599744			34.01- 94.01	62.45
11.262	11.255 (1.260)	111	411712			13.60- 73.60	42.87
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.702	12.688 (1.421)	180	879142	57.7789	57.779	80.00- 120.00	100.00
12.702	12.688 (1.421)	182	865498			64.08- 124.08	98.45
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.795	12.781 (1.431)	225	734676	57.4728	57.473	80.00- 120.00	100.00
12.795	12.774 (1.431)	223	462059			32.97- 92.97	62.89
228 Naphthalene					CAS #: 91-20-3		
12.989	12.967 (1.453)	128	196563	4.99005	4.990	80.00- 120.00	100.00
12.989	12.960 (1.453)	127	25215			0.00- 42.95	12.83

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd3.i
Lab File ID: 3110204.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: sab
Method File: /var/chem/msd3.i/02nov15.b/315q1023a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 02-NOV-2015
Calibration Time: 08:58
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	109768	65861	153675	108677	-0.99
123 1,4-Difluorobenze	462095	277257	646933	483802	4.70
163 Chlorobenzene-d5	458379	275027	641731	486534	6.14

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.59	5.26	5.92	5.59	0.00
123 1,4-Difluorobenze	6.49	6.16	6.82	6.49	0.00
163 Chlorobenzene-d5	8.94	8.61	9.27	8.94	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/02nov15.b/3110204.d

Date : 02-NOV-2015 09:47

Client ID: LCSD

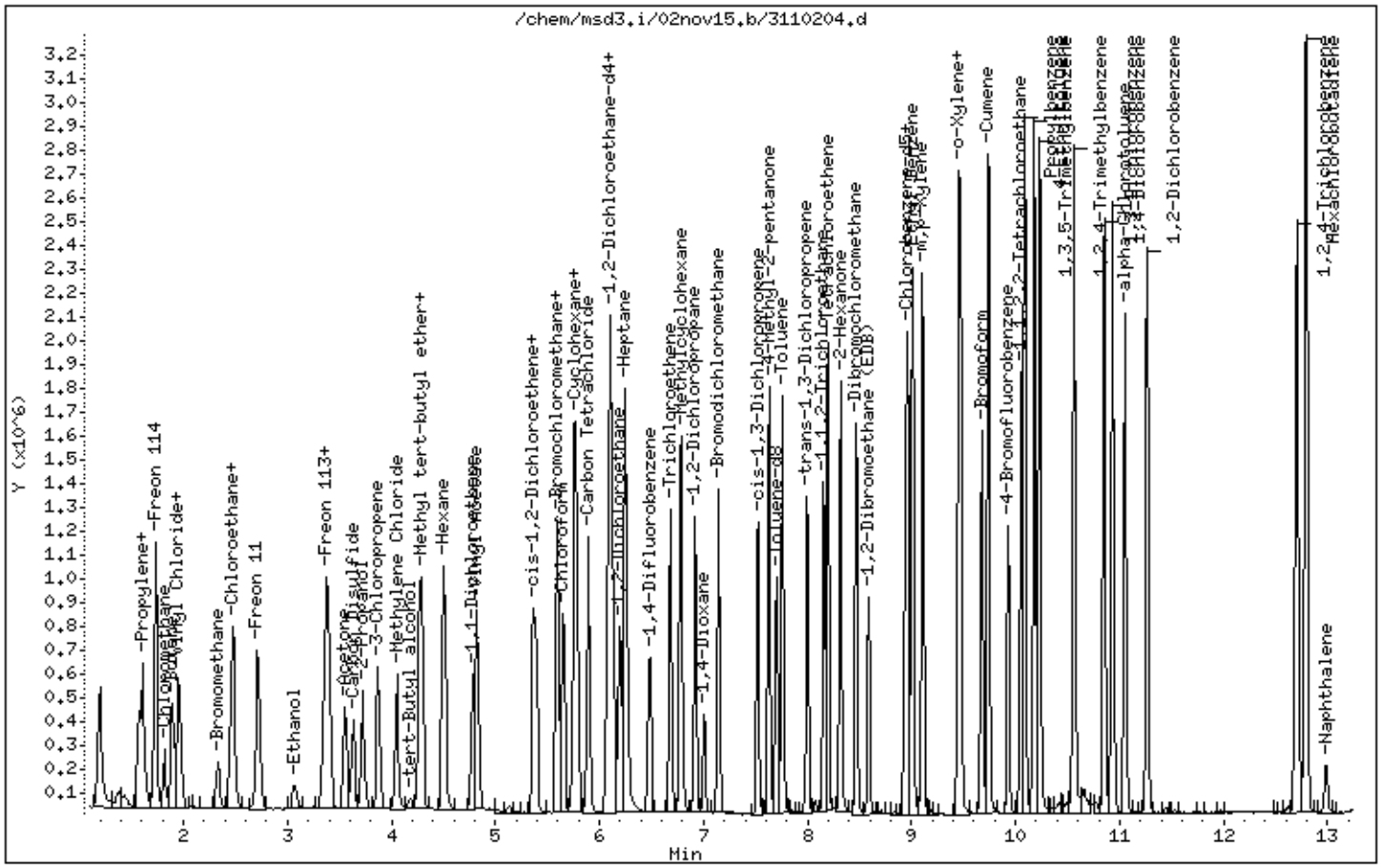
Instrument: msd3.i

Sample Info: 100ml 2736-272A

Operator: sab

Column phase: RTX-624

Column diameter: 0.25



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Client Sample ID: LCS
Lab ID#: 1510593-11B
EPA METHOD TO-15 GC/MS

File Name:	**14110303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 09:26 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	95	70-130
Chloromethane	96	70-130
Vinyl Chloride	101	70-130
1,3-Butadiene	92	70-130
Bromomethane	83	70-130
Chloroethane	96	70-130
Freon 11	91	70-130
Ethanol	81	70-130
Freon 113	88	70-130
1,1-Dichloroethene	91	70-130
Acetone	96	70-130
2-Propanol	85	70-130
Carbon Disulfide	80	70-130
3-Chloropropene	80	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	65 Q	70-130
trans-1,2-Dichloroethene	77	70-130
Hexane	88	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	86	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	77	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	84	70-130
Cyclohexane	88	70-130
Carbon Tetrachloride	82	70-130
2,2,4-Trimethylpentane	92	70-130
Benzene	88	70-130
1,2-Dichloroethane	85	70-130
Heptane	84	70-130
Trichloroethene	87	70-130
1,2-Dichloropropane	93	70-130
1,4-Dioxane	85	70-130
Bromodichloromethane	85	70-130
cis-1,3-Dichloropropene	80	70-130
4-Methyl-2-pentanone	76	70-130
Toluene	85	70-130
trans-1,3-Dichloropropene	80	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	91	70-130
2-Hexanone	88	70-130

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Client Sample ID: LCS

Lab ID#: 1510593-11B

EPA METHOD TO-15 GC/MS

File Name:	**14110303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 09:26 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	87	70-130
1,2-Dibromoethane (EDB)	89	70-130
Chlorobenzene	92	70-130
Ethyl Benzene	86	70-130
m,p-Xylene	87	70-130
o-Xylene	87	70-130
Styrene	79	70-130
Bromoform	90	70-130
Cumene	88	70-130
1,1,2,2-Tetrachloroethane	99	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	87	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	85	70-130
1,3-Dichlorobenzene	92	70-130
1,4-Dichlorobenzene	90	70-130
alpha-Chlorotoluene	82	70-130
1,2-Dichlorobenzene	91	70-130
1,2,4-Trichlorobenzene	82	70-130
Hexachlorobutadiene	90	70-130
Naphthalene	50 Q	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 03-Nov-2015 09:52

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 03nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: mjs
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	94.395	94.40	60-140
11 Freon 12	100.00	93.263	93.26	70-130
15 Freon 114	100.00	94.624	94.62	70-130
17 Chloromethane	100.00	96.476	96.48	70-130
23 Butane	100.00	100.18	100.18	60-140
25 Vinyl Chloride	100.00	101.24	101.24	70-130
26 1,3-Butadiene	100.00	91.881	91.88	70-130
29 Bromomethane	100.00	82.667	82.67	70-130
30 Chloroethane	100.00	95.687	95.69	70-130
31 Isopentane	100.00	90.340	90.34	60-140
35 Freon 11	100.00	91.169	91.17	70-130
42 Ethanol	100.00	80.703	80.70	70-130
49 Freon 113	100.00	87.518	87.52	70-130
50 1,1-Dichloroethene	100.00	90.700	90.70	70-130
52 Acetone	100.00	96.230	96.23	70-130
56 Carbon Disulfide	100.00	80.524	80.52	70-130
57 2-Propanol	100.00	84.632	84.63	70-130
58 3-Chloropropene	100.00	80.244	80.24	70-130
66 Methylene Chloride	100.00	89.410	89.41	70-130
72 Methyl tert-butyl	100.00	65.396	65.40*	70-130
73 trans-1,2-Dichloro	100.00	76.705	76.71	70-130
78 Hexane	100.00	88.134	88.13	70-130
82 1,1-Dichloroethane	100.00	93.925	93.92	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	100.00	96.054	96.05	70-130
92 2-Butanone	100.00	86.043	86.04	70-130
99 Tetrahydrofuran	100.00	76.868	76.87	70-130
100 Chloroform	100.00	89.609	89.61	70-130
103 1,1,1-Trichloroeth	100.00	83.794	83.79	70-130
106 Carbon Tetrachlori	100.00	82.404	82.40	70-130
102 Cyclohexane	100.00	88.025	88.02	70-130
113 2,2,4-Trimethylpen	100.00	92.316	92.32	70-130
116 Benzene	100.00	87.584	87.58	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	84.880	84.88	70-130
121 Heptane	100.00	83.672	83.67	70-130
125 Trichloroethene	100.00	86.726	86.73	70-130
127 Methylcyclohexane	100.00	86.504	86.50	60-140
132 1,2-Dichloropropan	100.00	93.127	93.13	70-130
136 1,4-Dioxane	100.00	84.875	84.87	70-130
138 Bromodichlorometha	100.00	85.350	85.35	70-130
144 cis-1,3-Dichloropr	100.00	80.227	80.23	70-130
145 4-Methyl-2-pentano	100.00	75.933	75.93	70-130
147 Toluene	100.00	85.038	85.04	70-130
150 trans-1,3-Dichloro	100.00	80.052	80.05	70-130
155 1,1,2-Trichloroeth	100.00	92.238	92.24	70-130
156 Tetrachloroethene	100.00	91.164	91.16	70-130
158 2-Hexanone	100.00	88.376	88.38	70-130
160 Dibromochlorometha	100.00	86.822	86.82	70-130
161 1,2-Dibromoethane	100.00	89.442	89.44	70-130
165 Chlorobenzene	100.00	92.255	92.26	70-130
167 Ethyl Benzene	100.00	85.896	85.90	70-130
169 m,p-Xylene	100.00	87.383	87.38	70-130
171 o-Xylene	100.00	87.400	87.40	70-130
172 Styrene	100.00	78.638	78.64	70-130
174 Bromoform	100.00	90.233	90.23	70-130
175 Cumene	100.00	88.011	88.01	70-130
181 1,1,2,2-Tetrachlor	100.00	98.808	98.81	70-130
182 Propylbenzene	100.00	91.597	91.60	70-130
188 4-Ethyltoluene	100.00	87.484	87.48	70-130
190 1,3,5-Trimethylben	100.00	91.660	91.66	70-130
196 1,2,4-Trimethylben	100.00	85.467	85.47	70-130
208 1,3-Dichlorobenzen	100.00	91.699	91.70	70-130
209 1,4-Dichlorobenzen	100.00	90.056	90.06	70-130
212 alpha-Chlorotoluen	100.00	82.519	82.52	70-130
214 1,2-Dichlorobenzen	100.00	90.773	90.77	70-130
226 1,2,4-Trichloroben	100.00	81.973	81.97	70-130
227 Hexachlorobutadien	100.00	90.480	90.48	70-130
228 Naphthalene	10.000	4.962	49.62*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	390.93	97.73	70-130
$ 146 Toluene-d8	400.00	404.05	101.01	70-130
$ 177 4-Bromofluorobenze	400.00	408.27	102.07	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/03nov15.b/14110303.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 03-NOV-2015 09:26
Operator : mjs Inst ID: msd14.i
Smp Info : 50mL #2736-184A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/03nov15.b/14550910a.m
Meth Date : 03-Nov-2015 09:25 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	51247	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	39391			48.38- 108.38	76.86
4.739	4.739 (1.000)	49	81512			122.49- 182.49	159.06
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	235671	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40467			0.00- 47.28	17.17
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	193945	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	127719			33.96- 93.96	65.85
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	88252	390.929	390.93	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	45801			22.50- 82.50	51.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	252101	404.047	404.05	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	28971			0.00- 42.36	11.49
7.621	7.621 (1.304)	100	163536			36.13- 96.13	64.87
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	113414	408.267	408.27	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	162443			113.45- 173.45	143.23
10.951	10.951 (1.115)	176	107381			68.10- 128.10	94.68
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	14665	94.3951	94.395	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	9961			35.71- 95.71	67.92
1.227	1.241 (0.259)	39	10320			44.83- 104.83	70.37
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	55412	93.2631	93.263	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	18584			1.94- 61.94	33.54
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	35591	94.6242	94.624	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	10663			2.09- 62.09	29.96
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	19231	96.4759	96.476	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	6282			1.48- 61.48	32.67
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	5329	100.177	100.18	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	30020			577.93- 637.93	563.33
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	23145	101.240	101.24	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	6985			1.45- 61.45	30.18
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	16654	91.8809	91.881	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	13513			71.31- 131.31	81.14
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	13377	82.6672	82.667	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	12673			64.67- 124.67	94.74
1.814	1.814 (0.383)	79	2225			0.00- 47.98	16.63
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	11208	95.6870	95.687	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	3537			1.09- 61.09	31.56
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	23485	90.3397	90.340	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	18360			42.08- 102.08	78.18
1.912	1.912 (0.404)	72	2265			0.00- 38.91	9.64
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	54159	91.1686	91.169	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	35580			34.26- 94.26	65.70
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	8021	80.7026	80.703	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	1705			0.00- 52.18	21.26
2.360	2.360 (0.498)	46	3530			11.33- 71.33	44.01
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	29947	87.5177	87.518	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	19437			33.38- 93.38	64.90
2.584	2.584 (0.545)	101	43312			106.88- 166.88	144.63
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	38196	90.6998	90.700	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	21646			24.64- 84.64	56.67
2.612	2.612 (0.551)	98	13684			4.54- 64.54	35.83
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	11569	96.2297	96.230	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	32937			297.27- 357.27	284.70
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.794 (0.593)	76	53107	80.5238	80.524	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	33651	84.6319	84.632	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	7508			0.00- 50.08	22.31
2.878	2.878 (0.607)	59	1381			0.00- 33.79	4.10
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	8232	80.2441	80.244	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	21856			228.46- 288.46	265.50
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	26640	89.4096	89.410	80.00- 120.00	100.00
3.158	3.172 (0.666)	84	20063			42.33- 102.33	75.31

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	8136			1.58- 61.58	30.54
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.353 (0.708)	73	35433	65.3960	65.396	80.00- 120.00	100.00(R)
3.354	3.353 (0.708)	57	9034			0.00- 54.23	25.50
3.354	3.353 (0.708)	41	8293			0.00- 52.85	23.40
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	17926	76.7052	76.705	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	29964			124.68- 184.68	167.15
3.381	3.381 (0.714)	98	11784			31.63- 91.63	65.74
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	36651	88.1344	88.134	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	20805			29.53- 89.53	56.77
3.577	3.577 (0.755)	86	6352			0.00- 47.08	17.33
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.857 (0.817)	63	42636	93.9247	93.925	80.00- 120.00	100.00
3.871	3.871 (0.817)	65	12579			1.34- 61.34	29.50
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	6352			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	20805			321.46- 381.46	327.53
3.577	3.577 (0.755)	42	10654			153.71- 213.71	167.73
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	35018	96.0538	96.054	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	24391			40.63- 100.63	69.65
4.487	4.487 (0.947)	98	16266			13.70- 73.70	46.45
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	9781	86.0432	86.043	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	39009			377.26- 437.26	398.82
4.515	4.515 (0.953)	57	3229			5.15- 65.15	33.01
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	23053	76.8678	76.868	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	9765			10.11- 70.11	42.36
4.725	4.725 (0.997)	72	10435			11.95- 71.95	45.27
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	47051	89.6091	89.609	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	29408			32.70- 92.70	62.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	31441	88.0247	88.025	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	38427			89.66- 149.66	122.22
4.921	4.921 (1.038)	41	18317			35.66- 95.66	58.26
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	44195	83.7937	83.794	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	28105			33.85- 93.85	63.59
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	38897	82.4036	82.404	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	40490			75.43- 135.43	104.10
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	120537	92.3161	92.316	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	41209			3.74- 63.74	34.19
5.326	5.326 (1.124)	41	27434			0.00- 57.60	22.76
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	67421	87.5842	87.584	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	16411			0.00- 54.57	24.34
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	32417	84.8796	84.880	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	10375			2.82- 62.82	32.00
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	23314	83.6716	83.672	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	37106			135.26- 195.26	159.16
5.564	5.564 (0.952)	100	7566			2.82- 62.82	32.45
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	31618	86.7262	86.726	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	29071			62.46- 122.46	91.94
6.082	6.082 (1.041)	97	20266			34.46- 94.46	64.10
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	41289	86.5041	86.504	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	20270			18.08- 78.08	49.09
6.194	6.194 (1.060)	55	35375			54.72- 114.72	85.68
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.390 (1.096)	63	27626	93.1267	93.127	80.00- 120.00	100.00
6.390	6.404 (1.093)	62	20533			42.01- 102.01	74.32
6.390	6.390 (1.093)	41	14163			29.49- 89.49	51.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	14208	84.8749	84.875	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	11779			47.39- 107.39	82.90
6.530	6.530 (1.117)	57	3764			0.00- 56.09	26.49
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.725 (1.151)	83	50800	85.3504	85.350	80.00- 120.00	100.00
6.726	6.725 (1.151)	85	31482			32.69- 92.69	61.97
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	34454	80.2274	80.227	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	11091			0.72- 60.72	32.19
7.327	7.327 (1.254)	39	15546			28.06- 88.06	45.12
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	7590	75.9329	75.933	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	47234			626.49- 686.49	622.32
7.565	7.565 (1.294)	58	23436			241.15- 301.15	308.77
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	78443	85.0376	85.038	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	47256			28.28- 88.28	60.24
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	26914	80.0519	80.052	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	8432			3.40- 63.40	31.33
8.293	8.293 (0.845)	39	11320			26.11- 86.11	42.06
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	27982	92.2376	92.238	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	17643			31.77- 91.77	63.05
8.614	8.614 (0.877)	83	25494			59.52- 119.52	91.11
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	34564	91.1638	91.164	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	25510			46.35- 106.35	73.81
8.628	8.628 (0.879)	131	24587			44.43- 104.43	71.13
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	26545	88.3760	88.376	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	41598			150.37- 210.37	156.71
9.006	9.006 (0.917)	100	4616			0.00- 49.21	17.39
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	44603	86.8226	86.822	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	33733			47.05- 107.05	75.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	39585	89.4421	89.442	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	36861			66.34- 126.34	93.12
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	62299	92.2553	92.255	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	19708			1.70- 61.70	31.63
9.846	9.846 (1.003)	77	39934			32.92- 92.92	64.10
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	30362	85.8960	85.896	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	101716			302.14- 362.14	335.01
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	37432	87.3831	87.383	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	79561			180.25- 240.25	212.55
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	35177	87.4001	87.400	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	80525			199.46- 259.46	228.91
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	50457	78.6377	78.638	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	30171			27.66- 87.66	59.80
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	42100	90.2328	90.233	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	21489			22.21- 82.21	51.04
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	110368	88.0111	88.011	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	27441			0.00- 55.22	24.86
10.769	10.769 (1.097)	51	12727			0.00- 41.79	11.53
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	58864	98.8080	98.808	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	36802			32.79- 92.79	62.52
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	143350	91.5971	91.597	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	29516			0.00- 50.77	20.59
11.105	11.105 (1.131)	105	5277			0.00- 33.59	3.68
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	106744	87.4836	87.484	80.00- 120.00	100.00
11.189	11.189 (1.140)	120	29735			0.00- 57.71	27.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	94899	91.6600	91.660	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	42084			15.95- 75.95	44.35
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	82945	85.4667	85.467	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	36413			13.66- 73.66	43.90
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	56723	91.6989	91.699	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	35132			32.83- 92.83	61.94
11.707	11.707 (1.192)	111	24807			14.66- 74.66	43.73
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	55501	90.0555	90.056	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	35674			32.12- 92.12	64.28
11.763	11.763 (1.198)	111	23886			13.33- 73.33	43.04
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.860 (1.208)	91	53315	82.5194	82.519	80.00- 120.00	100.00
11.861	11.860 (1.208)	126	9760			0.00- 49.13	18.31
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	51433	90.7727	90.773	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	32440			33.72- 93.72	63.07
11.986	11.986 (1.221)	111	24424			16.61- 76.61	47.49
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	24224	81.9735	81.973	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	22439			64.47- 124.47	92.63
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	23449	90.4798	90.480	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	14530			34.58- 94.58	61.96
228 Naphthalene					CAS #: 91-20-3		
12.980	12.966 (1.322)	128	3459	4.96202	4.962	80.00- 120.00	100.00(aR)
12.980	12.966 (1.322)	127	447			0.00- 42.78	12.92

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Report Date: 03-Nov-2015 09:52

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14110303.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /var/chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 03-NOV-2015
Calibration Time: 08:55
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52541	31525	73557	51247	-2.46
123 1,4-Difluorobenze	234761	140857	328665	235671	0.39
163 Chlorobenzene-d5	193804	116282	271326	193945	0.07

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/03nov15.b/14110303.d

Date : 03-NOV-2015 09:26

Client ID: LCS

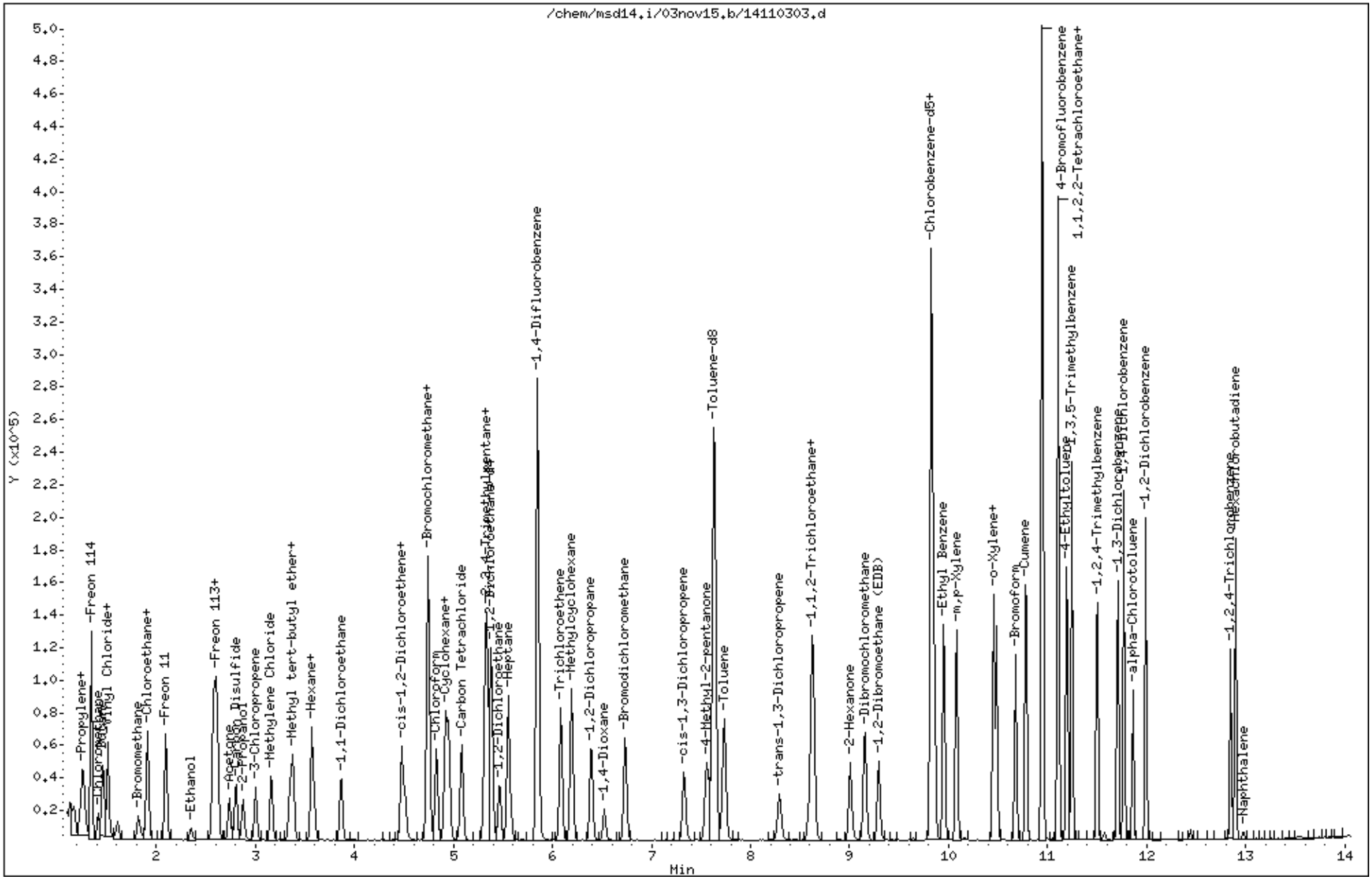
Sample Info: 50mL #2736-184A

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



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Client Sample ID: LCSD

Lab ID#: 1510593-11BB

EPA METHOD TO-15 GC/MS

File Name:	**14110304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 09:54 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	90	70-130
Chloromethane	99	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	91	70-130
Bromomethane	82	70-130
Chloroethane	102	70-130
Freon 11	89	70-130
Ethanol	81	70-130
Freon 113	89	70-130
1,1-Dichloroethene	92	70-130
Acetone	92	70-130
2-Propanol	84	70-130
Carbon Disulfide	83	70-130
3-Chloropropene	78	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	69 Q	70-130
trans-1,2-Dichloroethene	80	70-130
Hexane	88	70-130
1,1-Dichloroethane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	76	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	84	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	84	70-130
2,2,4-Trimethylpentane	93	70-130
Benzene	90	70-130
1,2-Dichloroethane	85	70-130
Heptane	86	70-130
Trichloroethene	90	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	87	70-130
Bromodichloromethane	85	70-130
cis-1,3-Dichloropropene	80	70-130
4-Methyl-2-pentanone	77	70-130
Toluene	87	70-130
trans-1,3-Dichloropropene	80	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	91	70-130
2-Hexanone	87	70-130

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Client Sample ID: LCSD

Lab ID#: 1510593-11BB

EPA METHOD TO-15 GC/MS

File Name:	**14110304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/3/15 09:54 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	87	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	89	70-130
Ethyl Benzene	84	70-130
m,p-Xylene	86	70-130
o-Xylene	90	70-130
Styrene	84	70-130
Bromoform	86	70-130
Cumene	87	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	90	70-130
4-Ethyltoluene	89	70-130
1,3,5-Trimethylbenzene	90	70-130
1,2,4-Trimethylbenzene	86	70-130
1,3-Dichlorobenzene	90	70-130
1,4-Dichlorobenzene	93	70-130
alpha-Chlorotoluene	85	70-130
1,2-Dichlorobenzene	91	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	93	70-130
Naphthalene	58 Q	60-140

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Report Date: 03-Nov-2015 11:01

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 03nov15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: mjs
Data Type: MS DATA
SampleType: LCSD
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	97.032	97.03	60-140
11 Freon 12	100.00	93.330	93.33	70-130
15 Freon 114	100.00	90.428	90.43	70-130
17 Chloromethane	100.00	99.054	99.05	70-130
23 Butane	100.00	98.498	98.50	60-140
25 Vinyl Chloride	100.00	101.53	101.53	70-130
26 1,3-Butadiene	100.00	91.353	91.35	70-130
29 Bromomethane	100.00	82.001	82.00	70-130
30 Chloroethane	100.00	101.97	101.97	70-130
31 Isopentane	100.00	89.085	89.09	60-140
35 Freon 11	100.00	89.268	89.27	70-130
42 Ethanol	100.00	81.197	81.20	70-130
49 Freon 113	100.00	88.646	88.65	70-130
50 1,1-Dichloroethene	100.00	91.900	91.90	70-130
52 Acetone	100.00	92.586	92.59	70-130
56 Carbon Disulfide	100.00	83.023	83.02	70-130
57 2-Propanol	100.00	83.508	83.51	70-130
58 3-Chloropropene	100.00	77.874	77.87	70-130
66 Methylene Chloride	100.00	90.216	90.22	70-130
72 Methyl tert-butyl	100.00	69.366	69.37*	70-130
73 trans-1,2-Dichloro	100.00	79.859	79.86	70-130
78 Hexane	100.00	88.064	88.06	70-130
82 1,1-Dichloroethane	100.00	93.417	93.42	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	100.00	95.181	95.18	70-130
92 2-Butanone	100.00	93.026	93.03	70-130
99 Tetrahydrofuran	100.00	75.607	75.61	70-130
100 Chloroform	100.00	89.697	89.70	70-130
103 1,1,1-Trichloroeth	100.00	83.916	83.92	70-130
106 Carbon Tetrachlori	100.00	84.085	84.09	70-130
102 Cyclohexane	100.00	86.386	86.39	70-130
113 2,2,4-Trimethylpen	100.00	93.262	93.26	70-130
116 Benzene	100.00	89.671	89.67	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	85.273	85.27	70-130
121 Heptane	100.00	86.366	86.37	70-130
125 Trichloroethene	100.00	90.285	90.28	70-130
127 Methylcyclohexane	100.00	86.195	86.19	60-140
132 1,2-Dichloropropan	100.00	92.418	92.42	70-130
136 1,4-Dioxane	100.00	87.241	87.24	70-130
138 Bromodichlorometha	100.00	85.309	85.31	70-130
144 cis-1,3-Dichloropr	100.00	80.321	80.32	70-130
145 4-Methyl-2-pentano	100.00	77.183	77.18	70-130
147 Toluene	100.00	86.813	86.81	70-130
150 trans-1,3-Dichloro	100.00	80.483	80.48	70-130
155 1,1,2-Trichloroeth	100.00	90.751	90.75	70-130
156 Tetrachloroethene	100.00	90.777	90.78	70-130
158 2-Hexanone	100.00	87.163	87.16	70-130
160 Dibromochlorometha	100.00	86.607	86.61	70-130
161 1,2-Dibromoethane	100.00	90.340	90.34	70-130
165 Chlorobenzene	100.00	89.384	89.38	70-130
167 Ethyl Benzene	100.00	84.158	84.16	70-130
169 m,p-Xylene	100.00	85.936	85.94	70-130
171 o-Xylene	100.00	89.577	89.58	70-130
172 Styrene	100.00	83.602	83.60	70-130
174 Bromoform	100.00	86.480	86.48	70-130
175 Cumene	100.00	87.202	87.20	70-130
181 1,1,2,2-Tetrachlor	100.00	101.33	101.33	70-130
182 Propylbenzene	100.00	90.249	90.25	70-130
188 4-Ethyltoluene	100.00	89.365	89.37	70-130
190 1,3,5-Trimethylben	100.00	90.194	90.19	70-130
196 1,2,4-Trimethylben	100.00	85.759	85.76	70-130
208 1,3-Dichlorobenzen	100.00	89.694	89.69	70-130
209 1,4-Dichlorobenzen	100.00	93.114	93.11	70-130
212 alpha-Chlorotoluen	100.00	85.094	85.09	70-130
214 1,2-Dichlorobenzen	100.00	91.286	91.29	70-130
226 1,2,4-Trichloroben	100.00	89.887	89.89	70-130
227 Hexachlorobutadien	100.00	92.765	92.77	70-130
228 Naphthalene	10.000	5.794	57.94*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	390.52	97.63	70-130
$ 146 Toluene-d8	400.00	407.51	101.88	70-130
$ 177 4-Bromofluorobenze	400.00	405.13	101.28	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/03nov15.b/14110304.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 03-NOV-2015 09:54
Operator : mjs Inst ID: msd14.i
Smp Info : 50mL #2736-184A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/03nov15.b/14550910a.m
Meth Date : 03-Nov-2015 09:25 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	50497	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40109			48.38- 108.38	79.43
4.739	4.739 (1.000)	49	80984			122.49- 182.49	160.37
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	232862	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39341			0.00- 47.28	16.89
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	193459	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	127059			33.96- 93.96	65.68
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	86870	390.523	390.52	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	44262			22.50- 82.50	50.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	251234	407.514	407.51	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	28514			0.00- 42.36	11.35
7.635	7.621 (1.306)	100	158793			36.13- 96.13	63.21
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	112260	405.128	405.13	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	163192			113.45- 173.45	145.37
10.951	10.951 (1.115)	176	107014			68.10- 128.10	95.33
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	14854	97.0317	97.032	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	9736			35.71- 95.71	65.54
1.241	1.241 (0.262)	39	10079			44.83- 104.83	67.85
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	54640	93.3297	93.330	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	17780			1.94- 61.94	32.54
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	33515	90.4282	90.428	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	10976			2.09- 62.09	32.75
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	19456	99.0544	99.054	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	6229			1.48- 61.48	32.02
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	5163	98.4980	98.498	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	29935			577.93- 637.93	579.80
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.507 (0.318)	62	22872	101.531	101.53	80.00- 120.00	100.00
1.507	1.507 (0.318)	64	7295			1.45- 61.45	31.89
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	16316	91.3531	91.353	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	14050			71.31- 131.31	86.11
29 Bromomethane					CAS #: 74-83-9		
1.815	1.814 (0.383)	94	13075	82.0010	82.001	80.00- 120.00	100.00
1.815	1.814 (0.383)	96	12668			64.67- 124.67	96.89
1.815	1.814 (0.383)	79	2238			0.00- 47.98	17.12
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	11769	101.969	101.97	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	3448			1.09- 61.09	29.30
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	22820	89.0854	89.085	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	17957			42.08- 102.08	78.69
1.912	1.912 (0.404)	72	2181			0.00- 38.91	9.56
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	52254	89.2683	89.268	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	34637			34.26- 94.26	66.29
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	7952	81.1967	81.197	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	1874			0.00- 52.18	23.57
2.360	2.360 (0.498)	46	3356			11.33- 71.33	42.20
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	29889	88.6455	88.646	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	18781			33.38- 93.38	62.84
2.584	2.584 (0.545)	101	43974			106.88- 166.88	147.12
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	38135	91.8999	91.900	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	21310			24.64- 84.64	55.88
2.612	2.612 (0.551)	98	13331			4.54- 64.54	34.96
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	10968	92.5857	92.586	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	32003			297.27- 357.27	291.79
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.794 (0.593)	76	53954	83.0231	83.023	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	32718	83.5076	83.508	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	7410			0.00- 50.08	22.65
2.878	2.878 (0.607)	59	1201			0.00- 33.79	3.67
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	7872	77.8746	77.874	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	21115			228.46- 288.46	268.23
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	26487	90.2164	90.216	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	19415			42.33- 102.33	73.30

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	8053			1.58- 61.58	30.40
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.353 (0.708)	73	37034	69.3660	69.366	80.00- 120.00	100.00(R)
3.354	3.353 (0.708)	57	8798			0.00- 54.23	23.76
3.354	3.353 (0.708)	41	8895			0.00- 52.85	24.02
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.382	3.381 (0.714)	96	18390	79.8594	79.859	80.00- 120.00	100.00
3.382	3.381 (0.714)	61	28907			124.68- 184.68	157.19
3.382	3.381 (0.714)	98	11790			31.63- 91.63	64.11
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	36086	88.0645	88.064	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	20053			29.53- 89.53	55.57
3.577	3.577 (0.755)	86	6258			0.00- 47.08	17.34
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.857 (0.814)	63	41785	93.4171	93.417	80.00- 120.00	100.00
3.857	3.871 (0.814)	65	12831			1.34- 61.34	30.71
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	6258			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	20053			321.46- 381.46	320.44
3.577	3.577 (0.755)	42	10502			153.71- 213.71	167.82
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	34192	95.1811	95.181	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	24944			40.63- 100.63	72.95
4.487	4.487 (0.947)	98	15963			13.70- 73.70	46.69
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	10420	93.0259	93.026	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	37443			377.26- 437.26	359.34
4.515	4.515 (0.953)	57	3297			5.15- 65.15	31.64
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	22343	75.6069	75.607	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	8968			10.11- 70.11	40.14
4.725	4.725 (0.997)	72	9749			11.95- 71.95	43.63
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	46408	89.6973	89.697	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	28940			32.70- 92.70	62.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	30404	86.3857	86.386	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	39127			89.66- 149.66	128.69
4.921	4.921 (1.038)	41	18547			35.66- 95.66	61.00
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	43612	83.9165	83.916	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	28650			33.85- 93.85	65.69
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.089	5.088 (1.074)	119	39110	84.0854	84.085	80.00- 120.00	100.00
5.089	5.088 (1.074)	117	40724			75.43- 135.43	104.13
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	119990	93.2620	93.262	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	39750			3.74- 63.74	33.13
5.326	5.326 (1.124)	41	26898			0.00- 57.60	22.42
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	68205	89.6714	89.671	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	16504			0.00- 54.57	24.20
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	32179	85.2728	85.273	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	10476			2.82- 62.82	32.56
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	23778	86.3662	86.366	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	38327			135.26- 195.26	161.19
5.564	5.564 (0.952)	100	7206			2.82- 62.82	30.31
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	32523	90.2847	90.285	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	27951			62.46- 122.46	85.94
6.082	6.082 (1.041)	97	21058			34.46- 94.46	64.75
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	40651	86.1949	86.195	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	19946			18.08- 78.08	49.07
6.194	6.194 (1.060)	55	35402			54.72- 114.72	87.09
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.404	6.390 (1.096)	63	27089	92.4180	92.418	80.00- 120.00	100.00
6.390	6.404 (1.093)	62	20027			42.01- 102.01	73.93
6.390	6.390 (1.093)	41	13892			29.49- 89.49	51.28

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	14430	87.2409	87.241	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	12234			47.39- 107.39	84.78
6.530	6.530 (1.117)	57	3792			0.00- 56.09	26.28
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.725 (1.151)	83	50170	85.3087	85.309	80.00- 120.00	100.00
6.726	6.725 (1.151)	85	32062			32.69- 92.69	63.91
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	34083	80.3209	80.321	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	10668			0.72- 60.72	31.30
7.327	7.327 (1.254)	39	14979			28.06- 88.06	43.95
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	7623	77.1830	77.183	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	46677			626.49- 686.49	612.32
7.565	7.565 (1.294)	58	21032			241.15- 301.15	275.90
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	79126	86.8128	86.813	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	46739			28.28- 88.28	59.07
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	26991	80.4826	80.483	80.00- 120.00	100.00
8.307	8.293 (0.846)	77	8817			3.40- 63.40	32.67
8.293	8.293 (0.845)	39	12057			26.11- 86.11	44.67
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.615	8.614 (0.877)	97	27462	90.7509	90.751	80.00- 120.00	100.00
8.615	8.614 (0.877)	99	17220			31.77- 91.77	62.70
8.615	8.614 (0.877)	83	25470			59.52- 119.52	92.75
156 Tetrachloroethene					CAS #: 127-18-4		
8.629	8.628 (0.879)	166	34331	90.7768	90.777	80.00- 120.00	100.00
8.629	8.628 (0.879)	129	25696			46.35- 106.35	74.85
8.629	8.628 (0.879)	131	25085			44.43- 104.43	73.07
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	26115	87.1628	87.163	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	41701			150.37- 210.37	159.68
9.006	9.006 (0.917)	100	4611			0.00- 49.21	17.66
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	44381	86.6075	86.607	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	34573			47.05- 107.05	77.90

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	39882	90.3396	90.340	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	37630			66.34- 126.34	94.35
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	60209	89.3843	89.384	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	19291			1.70- 61.70	32.04
9.846	9.846 (1.003)	77	40600			32.92- 92.92	67.43
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	29673	84.1577	84.158	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	99729			302.14- 362.14	336.09
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.084 (1.027)	106	36720	85.9364	85.936	80.00- 120.00	100.00
10.084	10.084 (1.027)	91	78214			180.25- 240.25	213.00
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	35963	89.5775	89.577	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	79076			199.46- 259.46	219.88
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	53508	83.6022	83.602	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	30309			27.66- 87.66	56.64
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	40248	86.4802	86.480	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	20454			22.21- 82.21	50.82
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	109080	87.2025	87.202	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	27073			0.00- 55.22	24.82
10.769	10.769 (1.097)	51	12461			0.00- 41.79	11.42
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	60215	101.330	101.33	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	36698			32.79- 92.79	60.94
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	140886	90.2488	90.249	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	27649			0.00- 50.77	19.63
11.105	11.105 (1.131)	105	5218			0.00- 33.59	3.70
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	108767	89.3655	89.365	80.00- 120.00	100.00
11.203	11.189 (1.141)	120	29846			0.00- 57.71	27.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	93147	90.1938	90.194	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	41733			15.95- 75.95	44.80
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	83020	85.7589	85.759	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	36775			13.66- 73.66	44.30
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	55344	89.6944	89.694	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	35949			32.83- 92.83	64.96
11.707	11.707 (1.192)	111	24523			14.66- 74.66	44.31
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	57242	93.1138	93.114	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	35705			32.12- 92.12	62.38
11.763	11.763 (1.198)	111	24151			13.33- 73.33	42.19
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.860 (1.208)	91	54841	85.0945	85.094	80.00- 120.00	100.00
11.861	11.860 (1.208)	126	10431			0.00- 49.13	19.02
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.987	11.986 (1.221)	146	51594	91.2856	91.286	80.00- 120.00	100.00
11.987	11.986 (1.221)	148	32889			33.72- 93.72	63.75
11.987	11.986 (1.221)	111	24371			16.61- 76.61	47.24
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	26496	89.8871	89.887	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	25486			64.47- 124.47	96.19
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	23981	92.7651	92.765	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	15448			34.58- 94.58	64.42
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	4029	5.79422	5.794	80.00- 120.00	100.00(aR)
12.966	12.966 (1.321)	127	475			0.00- 42.78	11.79

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Report Date: 03-Nov-2015 11:01

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14110304.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: mjs
Method File: /var/chem/msd14.i/03nov15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 03-NOV-2015
Calibration Time: 08:55
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

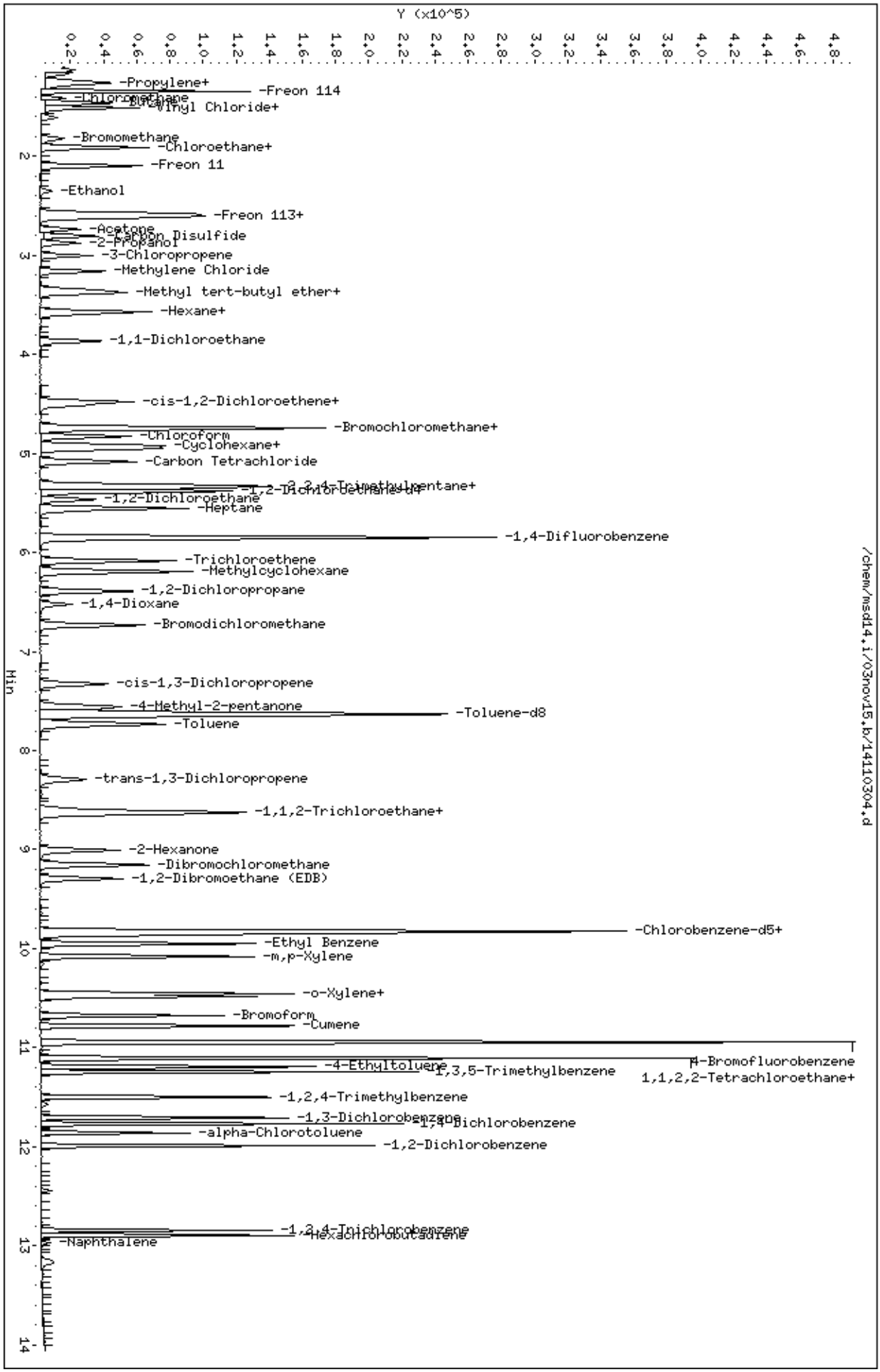
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52541	31525	73557	50497	-3.89
123 1,4-Difluorobenze	234761	140857	328665	232862	-0.81
163 Chlorobenzene-d5	193804	116282	271326	193459	-0.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.74	0.00
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	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/msd14.i/03nov15.b/14110304.d
Date : 03-NOV-2015 09:54
Client ID: LCSD
Sample Info: 50mL #2736-184A
Column phase: RTX-624

Instrument: msd14.i
Operator: mjs
Column diameter: 0.18



MSD3

BFB Tune Verification: (215957/223594)* 100 = 96.58

IS/S Std.#:	2759-35	Exp. Date:	1/19/2016
BCM	109,768		
1,4-DFB	462,095		
CB-d5	458,379		

*Naphthalene expired 9/2/15. See CAR #F9A2A2185; TO-15 expired CAR #FAVE613255

verified: sab

Method: 315q1023a.m

Method TO-15/TO-14			
SOP# 6			
Vacuum:	NA		
Surrogate# 2759-35		Exp. Date:	1/19/2016
Surrogate# NA		Exp. Date:	NA

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	Amount	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	3110201	BFB Tune Check	2736-220	12	36ng	1.0ml	1.00	sab	mjd	11/2/15	0808	sab	
√	3110202	CCV	2759-2A	13	50ppbv (100ppbv)	100ml	1.00	sab	sab	11/2/15	0858	sab	exp. 11/20/15;
√	3110203	LCS	2736-272A	14	50ppbv (100ppbv)	100ml	1.00	sab	sab	11/2/15	0922	sab	exp. 10/30/15*.
√	3110204	LCSD	2736-272A	14	50ppbv (100ppbv)	100ml	1.00	sab	sab	11/2/15	0947	sab	exp. 10/30/15*.
X	3110205	Std Batch Cert	2759-46	3	50ppbv (200ppbv)	50ml	1.00	sab	sab	11/2/15	1122	sab	exp: 11/20/15
√	3110206	Lab Blank	403	12	humid	200ml	1.00	sab	sab	11/2/15	1202	sab	
√	3110207	1510573-05A	7998	1	3.9 Hg->14.8 psi	200ml	2.31	js	sab	11/2/15	1314	js	
√	3110208	1510521-05A	37390	2	6.1 Hg->14.6 psi	200ml	2.50	js	sab	11/2/15	1340	js	re-pressurized: 3.5"Hg-->15psi : DF=5.72
√	3110209	1510543-01A	34597	3	5.0 Hg->15 psi	200ml	2.42	js	sab	11/2/15	1407	js	
√	3110210	1510543-02A	35562	4	5.0 Hg->15 psi	90ml	5.39	js	sab	11/2/15	1431	js	dil TC
√	3110211	1510404-01A	35692	5	8.8 Hg->14.9 psi	200ml	2.85	js	sab	11/2/15	1457	js	
√	3110212	1510404-02A	12027	6	7.8 Hg->15.1 psi	200ml	2.74	js	sab	11/2/15	1523	js	
√	3110213	1510404-02AA	12027	6	7.8 Hg->15.1 psi	200ml	2.74	js	js	11/2/15	1556	js	
√	3110214	1510607-02A	1 L Bag	1	SVE-1 Eff	200ml	1.00	js	js	11/2/15	1806	js	
√	3110215	1510607-01A	1 L Bag	2	SVE- Inf	20ml	10.0	js	js	11/2/15	1829	js	dil TC
√	3110216	1510593-04A	37686	1	3.7 Hg->14.7 psi	200ml	2.28	js	js	11/2/15	1951	js	
√	3110217	1510593-05A	33718	2	5.1 Hg->14.8 psi	200ml	2.42	js	js	11/2/15	2018	js	
√	3110218	1510593-06A	37317	3	3.5 Hg->14.9 psi	200ml	2.28	js	js	11/2/15	2044	js	
√	3110219	1510593-03A	1L1808	4	4.7 Hg->14.8 psi	200ml	2.38	js	js	11/2/15	2142	js	
√	3110220	1510593-07A	35613	5	5.3 Hg->14.9 psi	100ml	4.89	js	js	11/2/15	2206	js	dil NTC
√	3110221	1510593-08A	35646	6	3.3 Hg->15.1 psi	200ml	2.28	js	js	11/2/15	2232	mjs	
√	3110222	1510608-04A	36529	7	2.6 Hg->15 psi	200ml	2.21	mjs	js	11/2/15	2258	mjs	
√	3110223	1510608-04AA	36529	7	2.6 Hg->15 psi	200ml	2.21	mjs	js	11/2/15	2325	mjs	
√	3110224	1510608-01A	31765	8	3.3 Hg->14.9 psi	200ml	2.26	mjs	js	11/2/15	2351	mjs	
√	3110225	1510608-02A	1L2717	9	1.8 Hg->14.8 psi	200ml	2.13	mjs	js	11/3/15	0017	mjs	
√	3110226	1510608-03A	1L1557	10	2 Hg->15 psi	200ml	2.16	mjs	js	11/3/15	0044	mjs	
√	3110227	1510593-02A	1L2742	11	3.9 Hg->14.6 psi	50ml	9.16	mjs	js	11/3/15	0108	mjs	dil. Matrix

MB 11/3/15

Eurofins Air Toxics, Inc. **MSD-14** **Logbook #: 2756**

BFB Verification of 176/174 m/z Ratio:	(47344/48181) * 100 = 98.268
Method Name:	14550910A.M

IS/S Std. #: 2736-293	Exp. Date: 1/7/16
BCM	52,541
1,4-DFB	234,761
CB-d5	193,804
Verified CCV IS vs ICAL mid-point (-40%D):	MB

SOP # (Circle one): 6 / 83 / 38 / 91 / 109 Method (Circle one): TO-14A/TO-15/TO-17

Calculation Check: File ID: 14110303
Compound: Toluene-d8
Initials: MB

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(252101)}{(235671)} \times \frac{(400.00)}{(1.05900)}$ = Reported Result: 404.05

	Use	File	Lab ID#	Can#	Pressure	Amount Loaded	Verified Vol Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	✓	14110301	BFB Tune Check	2294-265	5 psig	2.0 mL	NA	1.00	MB	11/3/15	0837	MB	
2	✓	02	CCV (200ppbv)	~~255~~ 2759-5	200ppbv	50mL	NA	1.00	MB	↓	0855	MB	Exp. 11/24/15. Out NOVA
3	✓	03	LCS (100ppbv)	2736-184A	100ppbv	50mL	NA	1.00	MB	↓	0926	MB	Exp. 10/30/15 * 20A
4	✓	04	LCSD ↓	↓	↓	↓	↓	↓	↓	↓	0954	MB	↓
5	✓	05	Lab Blank	34496	Humid	50mL	NA	1.00	MB	↓	1103	MB	
6	✓	06	1510593-01A	34158	4.1"Hg-14.9psi	0.5mL	NA	233	MB	↓	1155	MB	Dil. TC 1.0mL
7													
8													
9													
10													
11													
12													
13													
14											MB	11/3/15	
15													

MB
Reviewed

11/3/15
Date

* TO-15 expired (see CAR FAVEG13255)
* Naph. expired (see CAR F9A2A2185)

0762 of 0802

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/10sep15.b/14091001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-SEP-2015 08:34
Operator : mjs Inst ID: msd14.i
Smp Info : 2.0ml #2299-1265;BFB;BFB
Misc Info : 50ng
Comment :
Method : /chem/msd14.i/10sep15.b/bfb20.m
Meth Date : 08-Sep-2015 17:42 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.468	2.483	-0.015	95	132472			100.00- 100.00	100.00
2.468	2.483	-0.015	50	32736			8.00- 40.00	24.71
2.468	2.483	-0.015	75	72904			30.00- 66.00	55.03
2.468	2.483	-0.015	96	8799			5.00- 9.00	6.64
2.468	2.483	-0.015	173	946			0.00- 1.99	1.23
2.468	2.483	-0.015	174	77146			50.01- 120.00	58.24
2.468	2.483	-0.015	175	5963			4.00- 9.00	7.73
2.468	2.483	-0.015	176	75200			93.00- 101.00	97.48
2.468	2.483	-0.015	177	5163			5.00- 9.00	6.87

Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

Client ID: BFB

Instrument: msd14.i

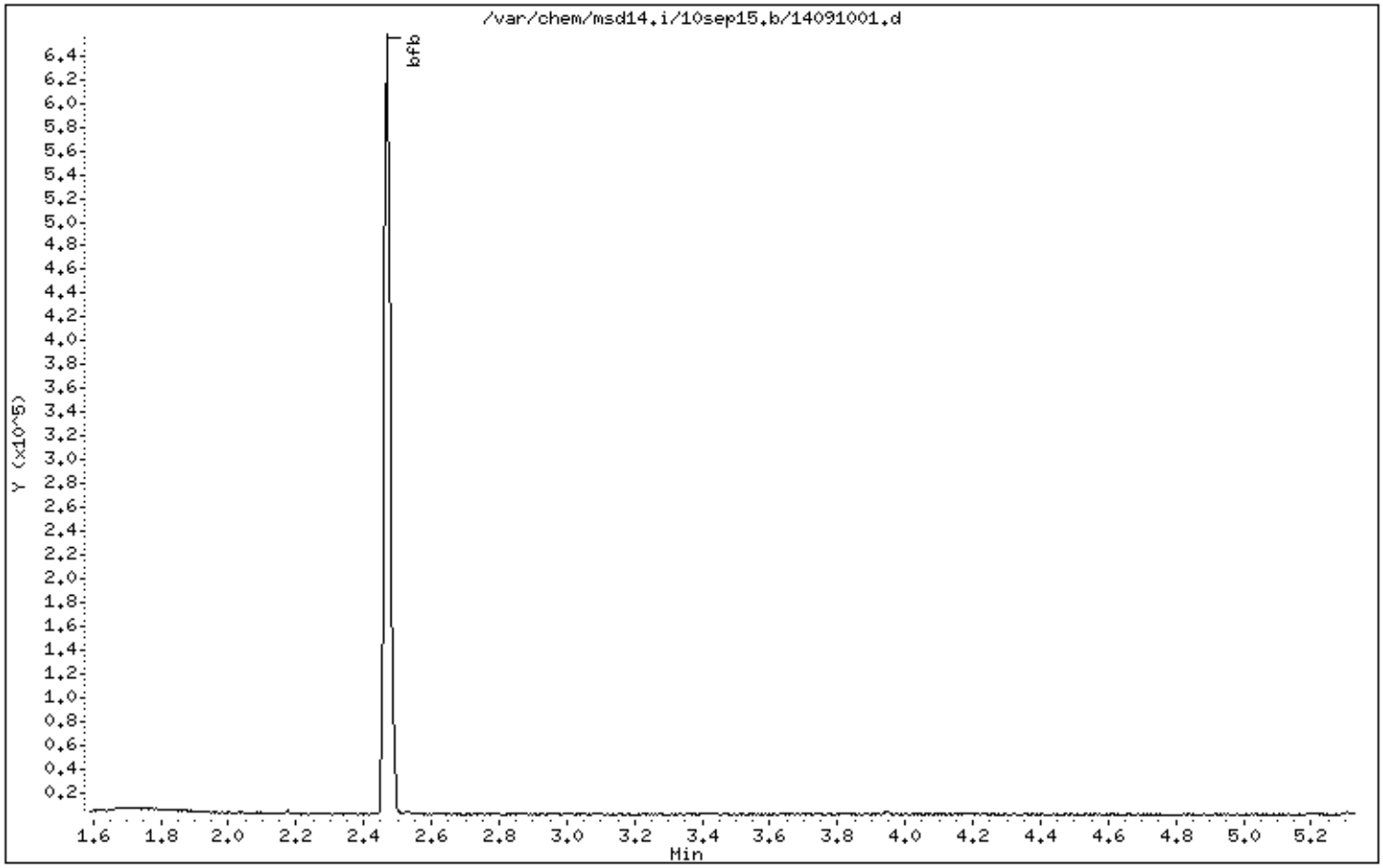
Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

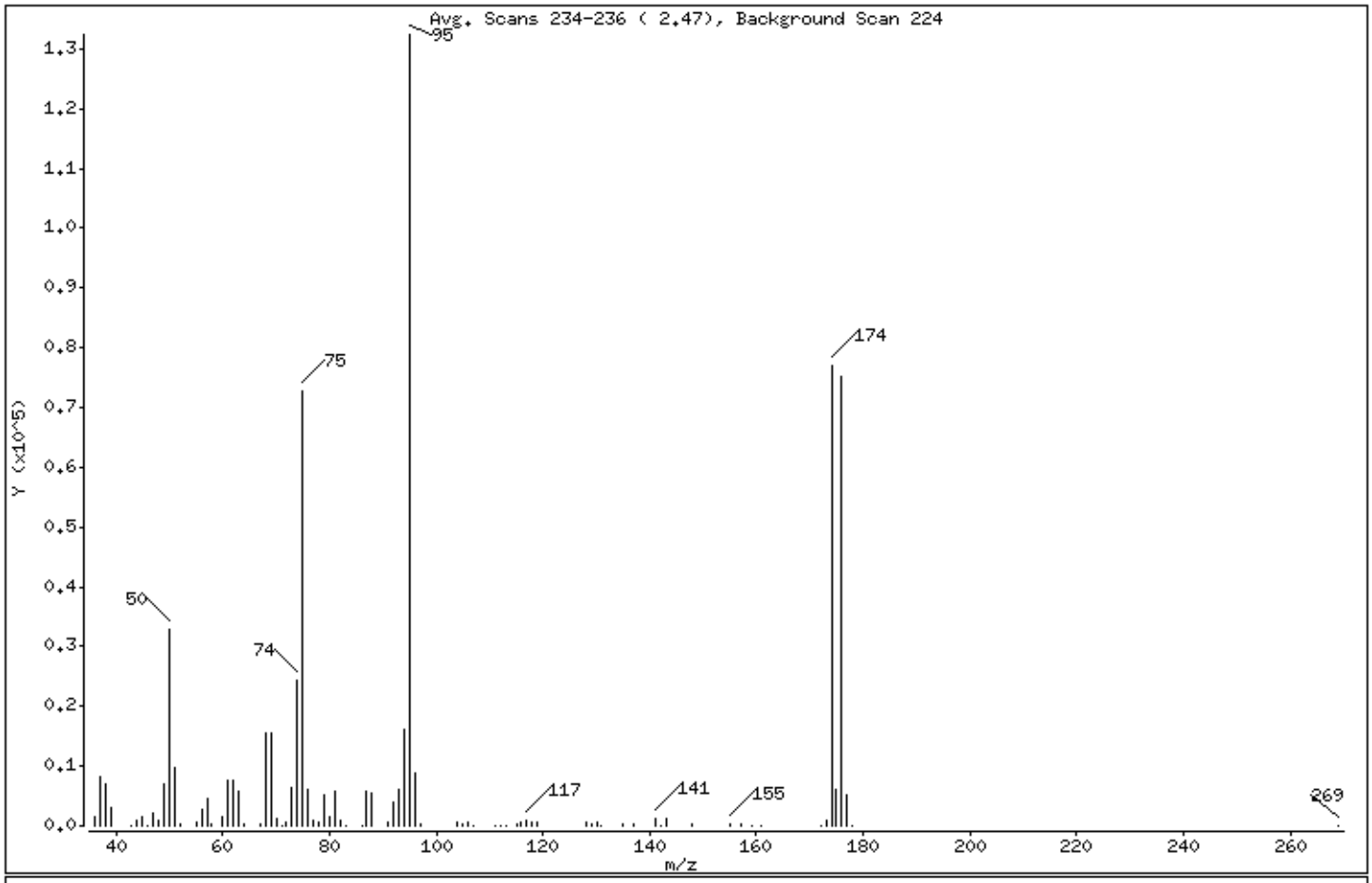
Client ID: BFB Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0 Operator: mjs

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	24.71
75	30.00 - 66.00% of mass 95	55.03
96	5.00 - 9.00% of mass 95	6.64
173	Less than 1.99% of mass 174	0.71 (1.23)
174	50.01 - 120.00% of mass 95	58.24
175	4.00 - 9.00% of mass 174	4.50 (7.73)
176	93.00 - 101.00% of mass 174	56.77 (97.48)
177	5.00 - 9.00% of mass 176	3.90 (6.87)

Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00

Data File: 14091001.d
Spectrum: Avg. Scans 234-236 (2.47), Background Scan 224
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1554	64.00	412	92.00	3925	135.00	289
37.00	8325	67.00	446	93.00	6032	137.00	224
38.00	7119	68.00	15528	94.00	16156	141.00	1340
39.00	2953	69.00	15516	95.00	132416	142.00	146
43.00	139	70.00	1249	96.00	8799	143.00	1270
44.00	918	71.00	62	97.00	315	148.00	271
45.00	1477	72.00	755	104.00	704	155.00	322
46.00	88	73.00	6259	105.00	186	157.00	174
47.00	2233	74.00	24408	106.00	649	159.00	54
48.00	953	75.00	72904	107.00	115	161.00	149
49.00	7138	76.00	6071	111.00	135	172.00	122
50.00	32736	77.00	856	112.00	121	173.00	946
51.00	9685	78.00	472	113.00	144	174.00	77144
52.00	436	79.00	5271	115.00	219	175.00	5963
55.00	571	80.00	1457	116.00	652	176.00	75200
56.00	2635	81.00	5680	117.00	765	177.00	5163
57.00	4445	82.00	1007	118.00	492	178.00	79
58.00	172	83.00	139	119.00	670	269.00	56
60.00	1593	86.00	113	128.00	462		
61.00	7574	87.00	5656	129.00	265		
62.00	7603	88.00	5555	130.00	457		
63.00	5712	91.00	576	131.00	56		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd3.i/23oct15.b/3102301.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 23-OCT-2015 10:40
Operator : cb Inst ID: msd3.i
Smp Info : 1.0ml #2759-35; BFB; BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/23oct15.b/bfb30.m
Meth Date : 23-Oct-2015 11:00 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.414	9.236	0.178	95	343893			100.00- 100.00	100.00
9.414	9.236	0.178	50	103884			8.00- 40.00	30.21
9.414	9.236	0.178	75	197930			30.00- 66.00	57.56
9.414	9.236	0.178	96	23669			5.00- 9.00	6.88
9.414	9.236	0.178	173	4970			0.00- 1.99	1.85
9.414	9.236	0.178	174	268288			50.01- 120.00	78.01
9.414	9.236	0.178	175	20581			4.00- 9.00	7.67
9.414	9.236	0.178	176	259904			93.00- 101.00	96.88
9.414	9.236	0.178	177	16058			5.00- 9.00	6.18

Data File: /var/chem/msd3.i/23oct15.b/3102301.d

Date : 23-OCT-2015 10:40

Client ID: BFB

Instrument: msd3.i

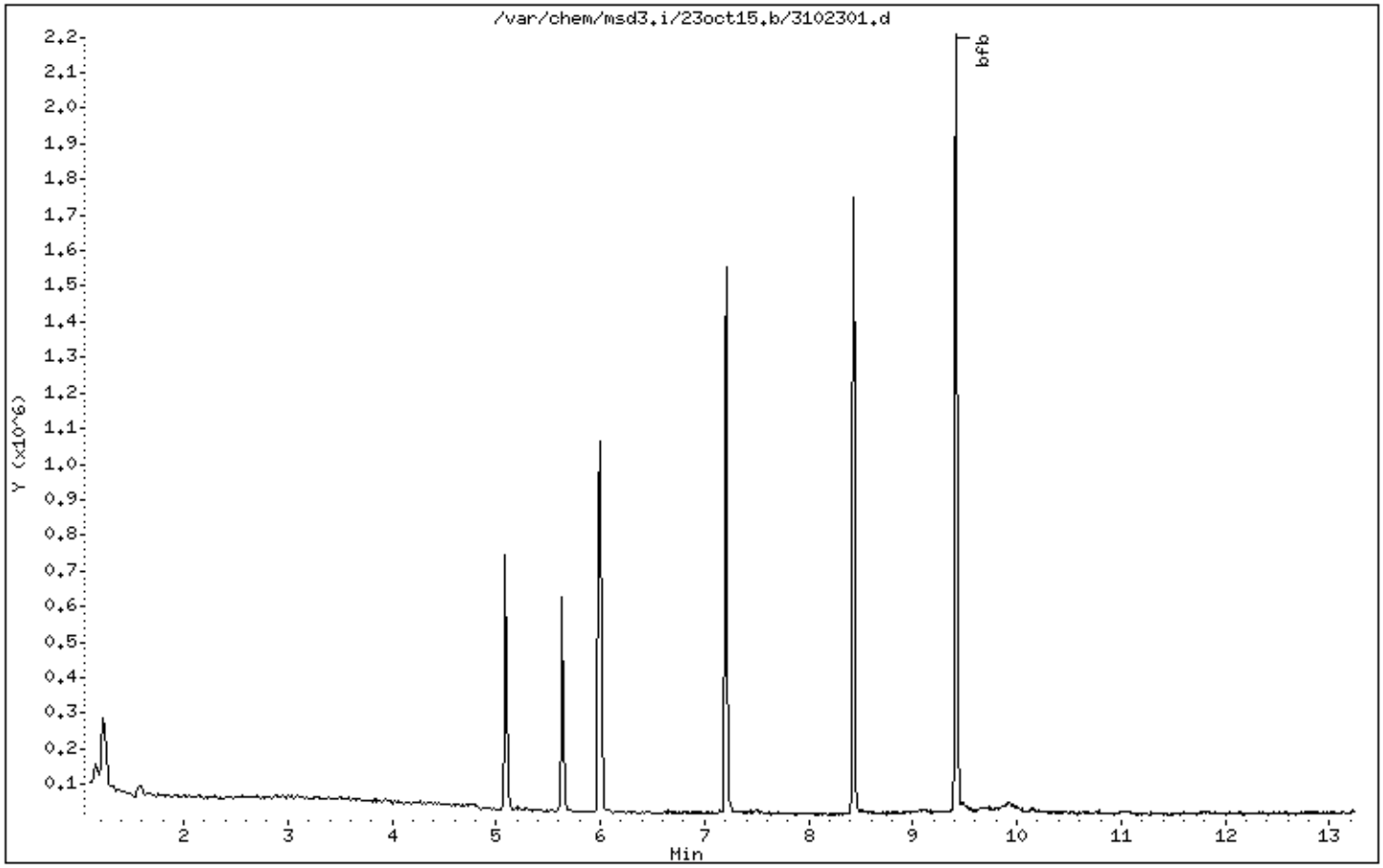
Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd3.i/23oct15.b/3102301.d

Date : 23-OCT-2015 10:40

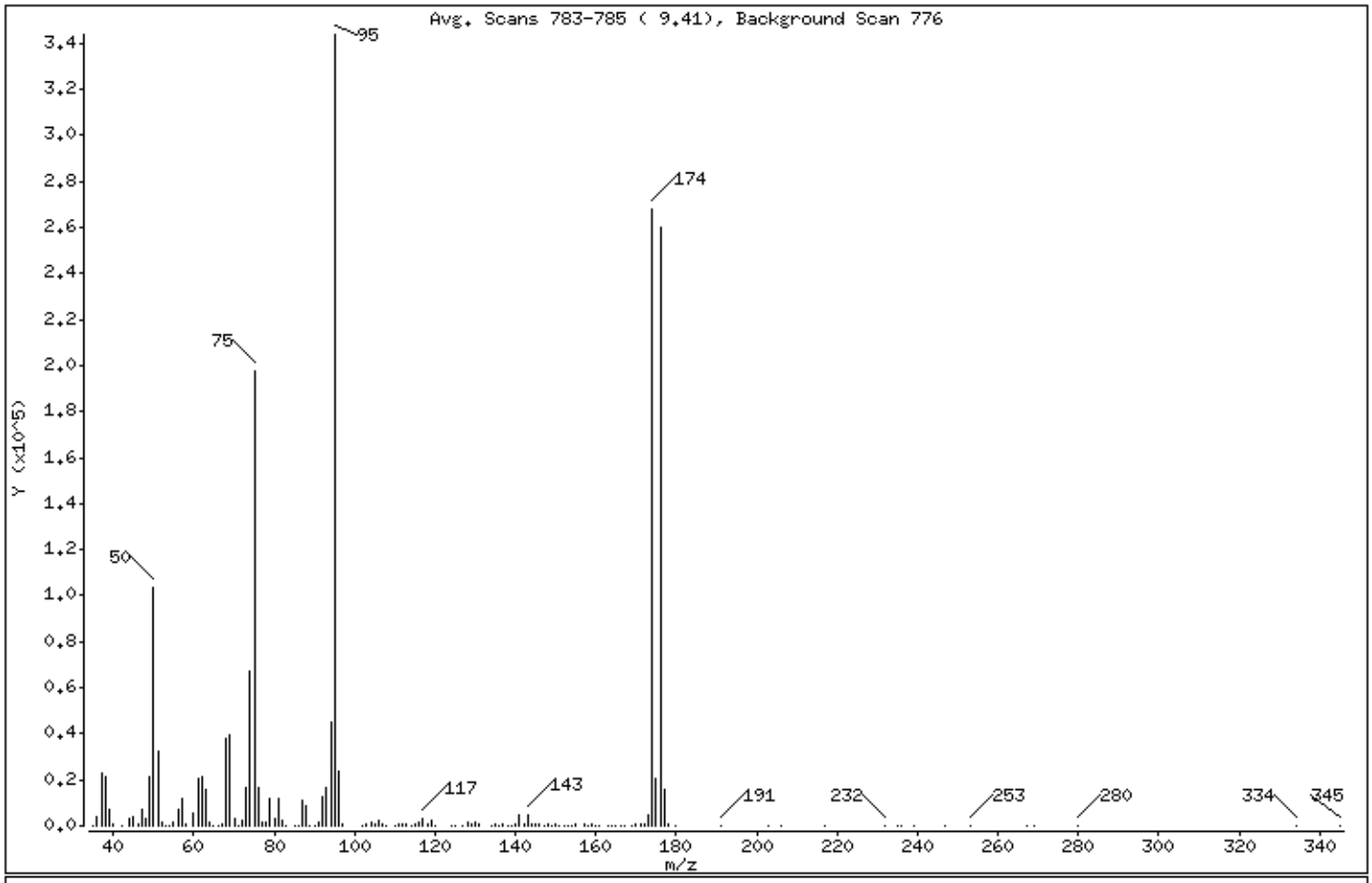
Client ID: BFB Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0 Operator: cb

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	30.21
75	30.00 - 66.00% of mass 95	57.56
96	5.00 - 9.00% of mass 95	6.88
173	Less than 1.99% of mass 174	1.45 (1.85)
174	50.01 - 120.00% of mass 95	78.01
175	4.00 - 9.00% of mass 174	5.98 (7.67)
176	93.00 - 101.00% of mass 174	75.58 (96.88)
177	5.00 - 9.00% of mass 176	4.67 (6.18)

Data File: /var/chem/msd3.i/23oct15.b/3102301.d

Date : 23-OCT-2015 10:40

Client ID: BFB

Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 3102301.d
Spectrum: Avg. Scans 783-785 (9.41), Background Scan 776
Location of Maximum: 95.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	117	74.00	67280	116.00	1588	159.00	663
36.00	4110	75.00	197888	117.00	3506	160.00	85
37.00	23272	76.00	16608	118.00	1132	161.00	331
38.00	21312	77.00	1888	119.00	2520	163.00	54
39.00	7137	78.00	1381	120.00	180	164.00	78
40.00	919	79.00	11500	124.00	74	165.00	71
42.00	140	80.00	3336	125.00	54	166.00	70
44.00	2917	81.00	11954	127.00	305	167.00	132
45.00	3931	82.00	2328	128.00	1469	169.00	392
46.00	411	83.00	159	129.00	613	170.00	410
47.00	7476	85.00	16	130.00	1592	171.00	897
48.00	2911	86.00	334	131.00	832	172.00	1036
49.00	21664	87.00	11344	134.00	296	173.00	4970
50.00	103880	88.00	9052	135.00	1000	174.00	268288
51.00	32016	89.00	78	136.00	94	175.00	20576
52.00	1485	90.00	113	137.00	689	176.00	259904
53.00	151	91.00	1799	138.00	137	177.00	16058
54.00	199	92.00	12370	139.00	117	178.00	491
55.00	1287	93.00	16416	140.00	683	180.00	93
56.00	7490	94.00	44664	141.00	4836	191.00	314
57.00	12192	95.00	343872	142.00	661	203.00	69
58.00	747	96.00	23664	143.00	5093	206.00	64
60.00	5202	97.00	493	144.00	436	217.00	61
61.00	20856	102.00	84	145.00	649	232.00	190
62.00	21032	103.00	767	146.00	407	235.00	125
63.00	15859	104.00	1669	147.00	202	236.00	51
64.00	1277	105.00	774	148.00	991	239.00	112
65.00	394	106.00	2130	149.00	159	247.00	56
66.00	174	107.00	521	150.00	427	253.00	164
67.00	857	108.00	168	151.00	67	267.00	65
68.00	37632	110.00	344	152.00	318	269.00	40
69.00	39776	111.00	730	153.00	124	280.00	64
70.00	3106	112.00	413	154.00	285	334.00	79
71.00	311	113.00	486	155.00	1034	345.00	111
72.00	2039	114.00	52	157.00	809		

Data File: /var/chem/msd3.i/23oct15.b/3102301.d

Date : 23-OCT-2015 10:40

Client ID: BFB

Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 3102301.d
Spectrum: Avg. Scans 783-785 (9.41), Background Scan 776
Location of Maximum: 95.00
Number of points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	16816	115.00	477	158.00	53		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd3.i/02nov15.b/3110201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-NOV-2015 08:08
Operator : mjs Inst ID: msd3.i
Smp Info : 1.0ml #2759-35; BFB; BFB
Misc Info : 36ng
Comment :
Method : /var/chem/msd3.i/02nov15.b/bfb30.m
Meth Date : 02-Nov-2015 08:28 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
9.414	9.236	0.178	95	291157			100.00- 100.00	100.00
9.414	9.236	0.178	50	100125			8.00- 40.00	34.39
9.414	9.236	0.178	75	172999			30.00- 66.00	59.42
9.414	9.236	0.178	96	18255			5.00- 9.00	6.27
9.414	9.236	0.178	173	0			0.00- 1.99	0.00
9.414	9.236	0.178	174	223594			50.01- 120.00	76.79
9.414	9.236	0.178	175	17242			4.00- 9.00	7.71
9.414	9.236	0.178	176	215957			93.00- 101.00	96.58
9.414	9.236	0.178	177	14492			5.00- 9.00	6.71

Data File: /var/chem/msd3.i/02nov15.b/3110201.d

Date : 02-NOV-2015 08:08

Client ID: BFB

Instrument: msd3.i

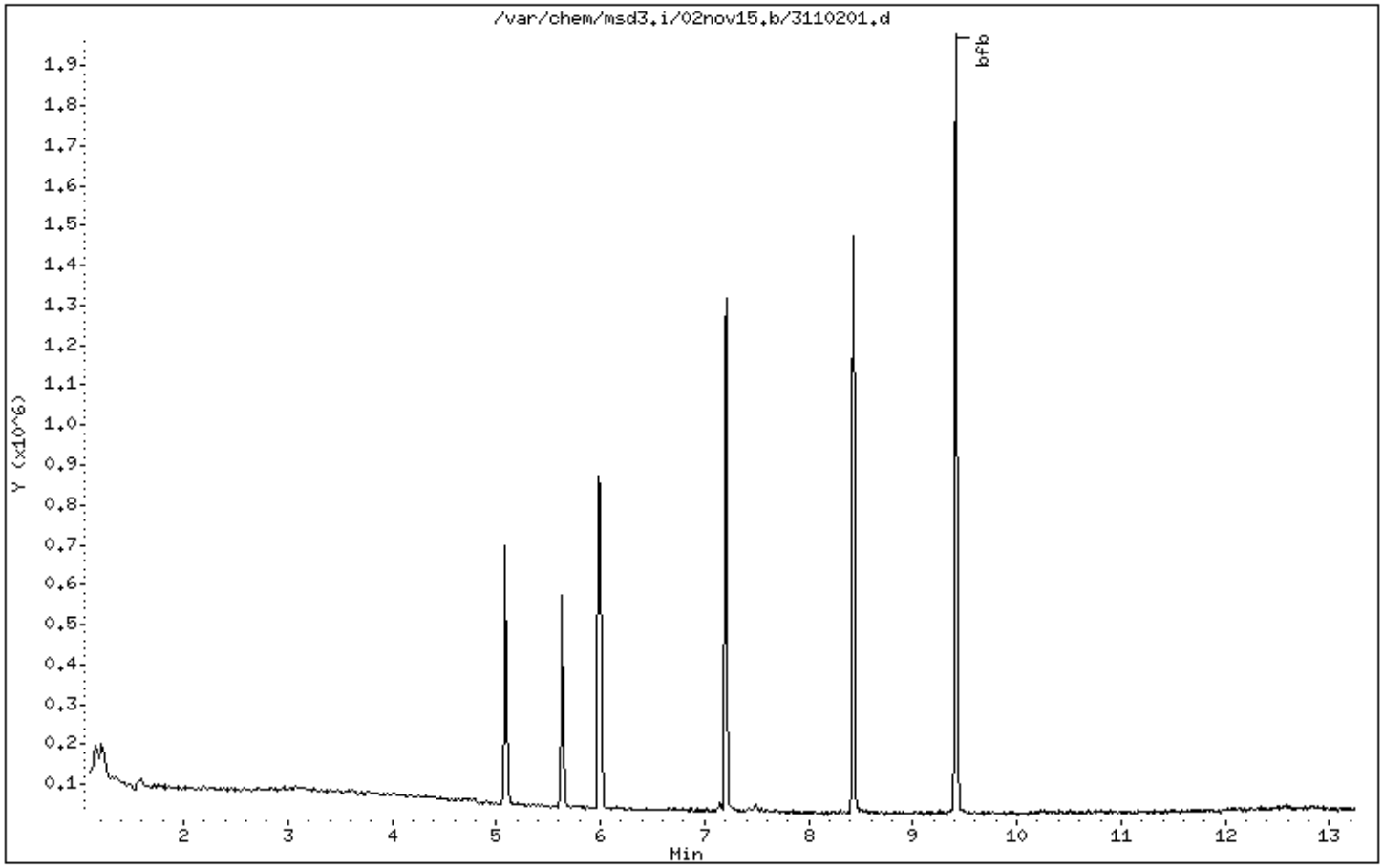
Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd3.i/02nov15.b/3110201.d

Date : 02-NOV-2015 08:08

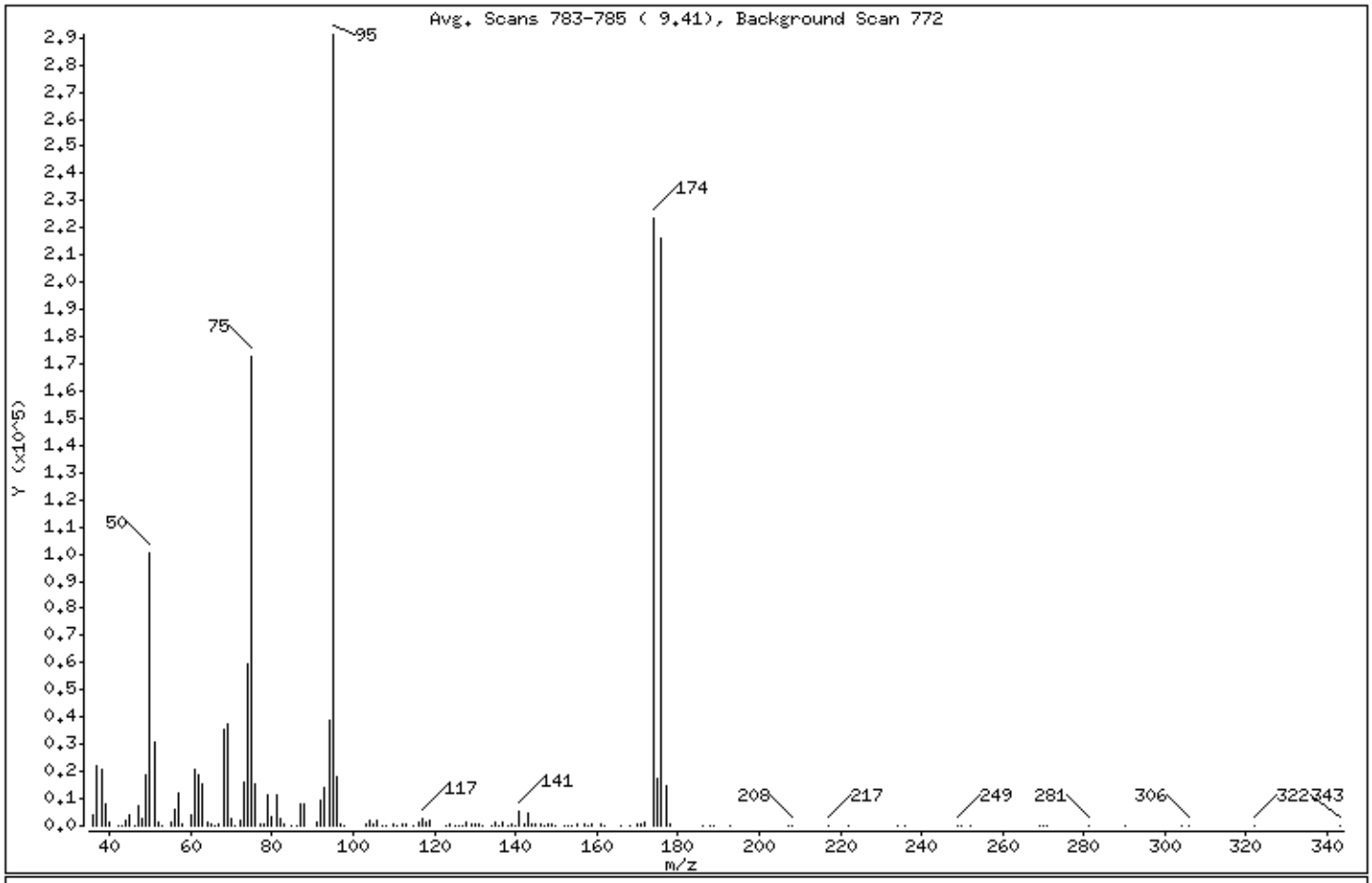
Client ID: BFB Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0 Operator: mjs

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	34.39
75	30.00 - 66.00% of mass 95	59.42
96	5.00 - 9.00% of mass 95	6.27
173	Less than 1.99% of mass 174	0.00 (0.00)
174	50.01 - 120.00% of mass 95	76.79
175	4.00 - 9.00% of mass 174	5.92 (7.71)
176	93.00 - 101.00% of mass 174	74.17 (96.58)
177	5.00 - 9.00% of mass 176	4.98 (6.71)

Data File: /var/chem/msd3.i/02nov15.b/3110201.d

Date : 02-NOV-2015 08:08

Client ID: BFB

Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00

Data File: 3110201.d
Spectrum: Avg. Scans 783-785 (9.41), Background Scan 772
Location of Maximum: 95.00
Number of points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4045	75.00	172992	123.00	152	166.00	83
37.00	21792	76.00	15720	124.00	455	168.00	145
38.00	20920	77.00	903	125.00	209	170.00	771
39.00	8331	78.00	865	126.00	246	171.00	453
40.00	1185	79.00	11695	127.00	194	172.00	1154
42.00	307	80.00	3131	128.00	1158	174.00	223552
43.00	110	81.00	11157	129.00	695	175.00	17240
44.00	2290	82.00	2470	130.00	664	176.00	215936
45.00	4231	83.00	578	131.00	606	177.00	14492
46.00	145	85.00	85	132.00	270	178.00	454
47.00	7644	86.00	327	134.00	130	186.00	53
48.00	2718	87.00	7860	135.00	1077	188.00	56
49.00	19008	88.00	8303	136.00	172	189.00	84
50.00	100120	91.00	1183	137.00	1059	193.00	51
51.00	30976	92.00	9581	138.00	62	207.00	97
52.00	1232	93.00	14293	139.00	483	208.00	196
53.00	146	94.00	39152	140.00	316	217.00	69
55.00	1388	95.00	291136	141.00	5642	222.00	62
56.00	5727	96.00	18248	142.00	617	234.00	63
57.00	12138	97.00	615	143.00	4656	236.00	50
58.00	431	98.00	314	144.00	337	249.00	88
60.00	3693	103.00	427	145.00	515	250.00	56
61.00	20952	104.00	2244	146.00	457	252.00	63
62.00	18784	105.00	428	147.00	183	269.00	54
63.00	15088	106.00	1766	148.00	931	270.00	73
64.00	1197	107.00	245	149.00	395	271.00	50
65.00	651	108.00	77	150.00	334	281.00	252
66.00	17	110.00	629	152.00	292	290.00	53
67.00	931	111.00	283	153.00	203	304.00	51
68.00	35480	112.00	399	154.00	243	306.00	70
69.00	37344	113.00	446	155.00	913	322.00	57
70.00	2714	115.00	299	157.00	617	343.00	92
71.00	18	116.00	1410	158.00	226		
72.00	1678	117.00	2692	159.00	554		
73.00	16166	118.00	1639	161.00	578		

Data File: /var/chem/msd3.i/02nov15.b/3110201.d

Date : 02-NOV-2015 08:08

Client ID: BFB

Instrument: msd3.i

Sample Info: 1.0ml #2759-35; BFB; BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00

Data File: 3110201.d
Spectrum: Avg. Scans 783-785 (9.41), Background Scan 772
Location of Maximum: 95.00
Number of points: 140

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	59488	119.00	2086	162.00	93		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/03nov15.b/14110301.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 03-NOV-2015 08:37
Operator : mjs Inst ID: msd14.i
Smp Info : 2.0ml #2299-1265;BFB;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msd14.i/03nov15.b/bfb20.m
Meth Date : 03-Nov-2015 08:50 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.468	2.483	-0.015	95	77736			100.00- 100.00	100.00
2.468	2.483	-0.015	50	16010			8.00- 40.00	20.60
2.468	2.483	-0.015	75	39930			30.00- 66.00	51.37
2.468	2.483	-0.015	96	5095			5.00- 9.00	6.55
2.468	2.483	-0.015	173	379			0.00- 1.99	0.79
2.468	2.483	-0.015	174	48181			50.01- 120.00	61.98
2.468	2.483	-0.015	175	3454			4.00- 9.00	7.17
2.468	2.483	-0.015	176	47344			93.00- 101.00	98.26
2.468	2.483	-0.015	177	3235			5.00- 9.00	6.83

Data File: /var/chem/msd14.i/03nov15.b/14110301.d

Date : 03-NOV-2015 08:37

Client ID: BFB

Instrument: msd14.i

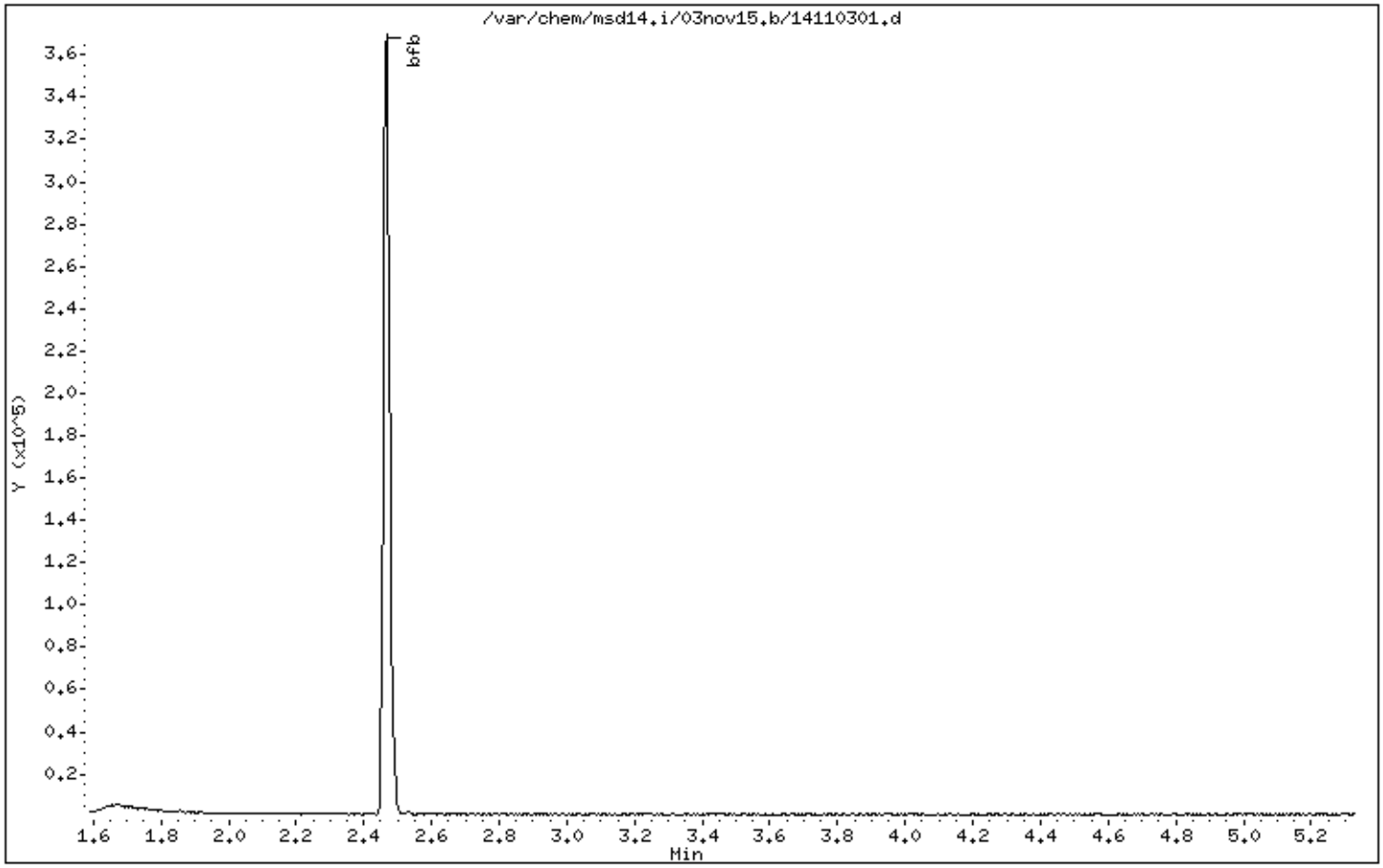
Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd14.i/03nov15.b/14110301.d

Date : 03-NOV-2015 08:37

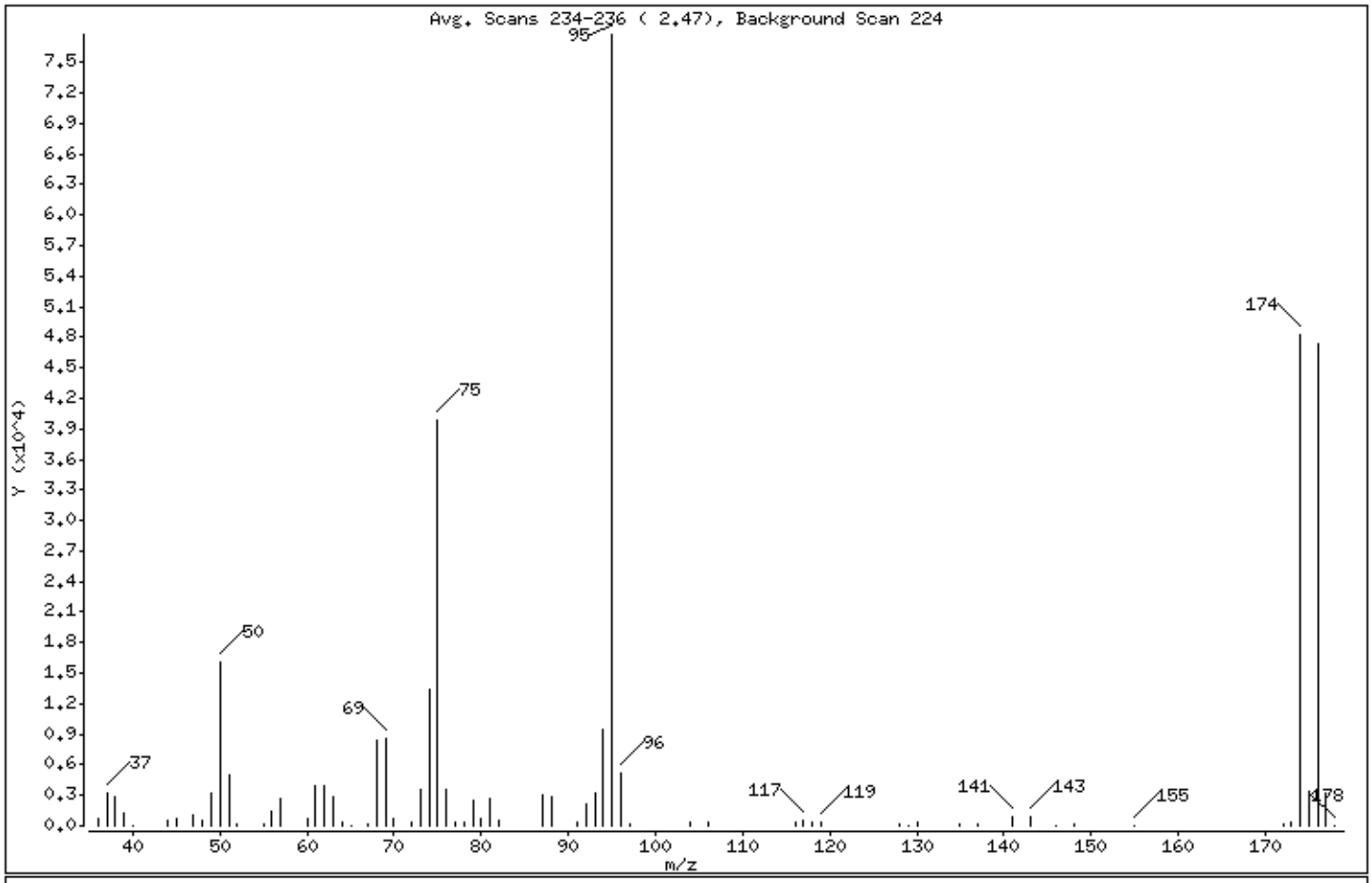
Client ID: BFB Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0 Operator: mjs

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	20.60
75	30.00 - 66.00% of mass 95	51.37
96	5.00 - 9.00% of mass 95	6.55
173	Less than 1.99% of mass 174	0.49 (0.79)
174	50.01 - 120.00% of mass 95	61.98
175	4.00 - 9.00% of mass 174	4.44 (7.17)
176	93.00 - 101.00% of mass 174	60.90 (98.26)
177	5.00 - 9.00% of mass 176	4.16 (6.83)

Data File: /var/chem/msd14.i/03nov15.b/14110301.d

Date : 03-NOV-2015 08:37

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00

Data File: 14110301.d
Spectrum: Avg. Scans 234-236 (2.47), Background Scan 224
Location of Maximum: 95.00
Number of points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	639	62.00	3985	82.00	510	130.00	300
37.00	3241	63.00	2914	87.00	3062	135.00	139
38.00	2913	64.00	303	88.00	2844	137.00	148
39.00	1207	65.00	52	91.00	386	141.00	820
40.00	62	67.00	194	92.00	2199	143.00	903
44.00	556	68.00	8346	93.00	3184	146.00	55
45.00	680	69.00	8577	94.00	9528	148.00	110
47.00	1159	70.00	668	95.00	77736	155.00	63
48.00	499	72.00	358	96.00	5095	172.00	181
49.00	3260	73.00	3503	97.00	191	173.00	379
50.00	16010	74.00	13404	104.00	400	174.00	48176
51.00	4917	75.00	39928	106.00	349	175.00	3454
52.00	238	76.00	3522	116.00	289	176.00	47344
55.00	210	77.00	386	117.00	457	177.00	3235
56.00	1349	78.00	347	118.00	330	178.00	54
57.00	2643	79.00	2512	119.00	373		
60.00	804	80.00	672	128.00	263		
61.00	3941	81.00	2687	129.00	51		

Shipping/ Receiving Documents

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: **Brian Whittaker 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

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 1

Project Manager Terry Taylor
Collected by: (Print and Sign) David Lindstrand
Company AMAI Email
Address 2700 Westchester City Purchase State NY Zip 10577
Phone 914-251-1400 Fax

Project Info:
P.O. #
Project #
Project Name BMS V1

Turn Around Time:
☐ Normal
☒ Rush 3-Day (specify)

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial (in Hg)	Final (in Hg)	Receipt	Final (psi)
01A	B30SSV-1 102715	34158	10/27/15	18:01	TO-15	-30	-5		
02A	B30 SSV-2 102715	IL2742	10/27/15	15:53	TO-15	-30	-5		
03A	B30 SSV-3 102815	IL1808	10/28/15	12:31	TO-15	-30	-5		
04A	B30SSV-4 102715	37686	10/27/15	16:36	TO-15	-30	-5		
05A	B30 SSV-4D 102715	33718	10/27/15	16:35	TO-15	-30	-5		
	~~B30 SSV-5~~ DAL								
06A	B42SSV-1 102815	37317	10/28/15	13:39	TO-15	-30	-5		
07A	B42SSV-2 102815	35613	10/28/15	15:42	TO-15	-30	-7		
08A	B42 SSV-3 102815	35646	10/28/15	13:16	TO-15	-29	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	10/29/15 13:00	EATL	10/30/15
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Shipped via DHL by D. Lindstrand

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		N/A	Good	Yes No None	1510593

Form 1293 rev.11

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 1510593

Client

Mr. Terry Taylor
Anderson Mulholland &
Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase, NY 10577
Sales Rep: N/A

Phone

(914) 251-0400

Fax

Date Promised: 11/04/15 2:00 pm
Date Completed: 11/4/15
Date Received: 10/30/15
PO#:
Project#: BMS VI

Total $: $ 0.00
Logged By: MH

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	B30SSV-1102715	TO-15	10/27/2015	4.1 "Hg	$0.00
02A	B30SSV-2102715	TO-15	10/27/2015	3.9 "Hg	$0.00
03A	B30SSV-3102815	TO-15	10/28/2015	4.7 "Hg	$0.00
04A	B30SSV-4102715	TO-15	10/27/2015	3.7 "Hg	$0.00
05A	B30SSV-4D102715	TO-15	10/27/2015	5.1 "Hg	$0.00
06A	B42SSV-1102815	TO-15	10/28/2015	3.5 "Hg	$0.00
07A	B42SSV-2102815	TO-15	10/28/2015	5.3 "Hg	$0.00
08A	B42SSV-3102815	TO-15	10/28/2015	3.3 "Hg	$0.00
09A	Lab Blank	TO-15	NA	NA	$0.00
09B	Lab Blank	TO-15	NA	NA	$0.00
10A	CCV	TO-15	NA	NA	$0.00
10B	CCV	TO-15	NA	NA	$0.00
11A	LCS	TO-15	NA	NA	$0.00
11AA	LCSD	TO-15	NA	NA	$0.00
11B	LCS	TO-15	NA	NA	$0.00
11BB	LCSD	TO-15	NA	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: BMS/19256

BILL TO: Accounts Payable
Anderson Mulholland & Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase, NY 10577

Analysis Code: TO-14A

TERMS: NET 30

Reporting Method: TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MH **Project ID:**19256 **PM**: BSW **Date:** 10/30/2015 **Discrepancy Type:** ☒ **1.** ☐ **2.** ☐ **3.**

Workorder(s) affected:1510593 **Sample(s) affected:** 06A

1. Sample Receipt Discrepancies

Narration Not Required:

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.

1.2. ☐ No brass cap on canister.

1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

Notify Lab for further determination:

1.4. ☐ Tedlar bag received with minimal volume.

Initials: MH Date: 10/30/2015

Narration Required in Lab Narrative and Sample Confirmation:

1.5. ☐ COC was not filled out in ink.

1.6. ☐ COC improperly relinquished / received.

1.7. ☒ Sample tags / can numbers do not match the COC.

1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).

1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).

1.10. ☐ ID-none on the sample Tag/Blank

1.11. ☐ Other (describe below).

Describe the Discrepancy: 1.7 06A sample tag do not match the COC

2. Sample Receipt/Screening Discrepancies requiring PM notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out PM must be notified within 24 hrs of initiation

2.1. ☐ COC was not received with samples.

2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.

2.3. ☐ Incorrect sampling media / container for analysis requested.

2.4. ☐ Number of samples on the COC does not match the number of samples that were received.

2.5. ☐ Samples were received expired.

2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).

2.7. ☐ Sample received with amount of H_2O in the Tedlar Bag.

2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.

2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.

2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.

2.11. ☐ Environmental Supply Company valves

2.12. ☐ Sorbent samples-sampling volume was not provided

2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.

2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):

- ☐ Canister failed leak check on two manifolds,
- ☐ Canister valve was open,
- ☐ Brass nut was loose/not present.
- ☐ Sample can be analyzed
- ☐ Cannot be analyzed

2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.

2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).

2.17. ☐ Canister Trip Blank received at low vacuum (<25"Hg).

2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).

2.19. ☐ Flow Controller RPD of = 20% was not met.

2.20. ☐ Other (describe below)

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐

Describe the Discrepancy:

3. Lab Discrepancies requiring Team Leader/PM notification

Document in Analytical Notes of Lab Narrative

If Section III. is filled out PM must be notified within 24 hrs of initiation

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

Initials: _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

Team Lead Initials: _____ **Date:** _____

Describe the Discrepancy: _____

_____

_____

How Does this Affect Client: _____

_____

_____

Project Manager Use Only

Project Manager Notification ☐ **Section 2 Complete** ☐ **Section 3 Complete**

Action:

☐ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:_____ Date: _____

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐ _____

☐ **Additional notifications attached.**

Additional Comments:

_____

Other Records

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi - [(Initial Pressure ("Hg)) (14.7 psi / 30 "Hg)]}}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7\text{ psi} + \text{Final Pressure (psi)}}{14.7\text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
75-35-4	1,1-Dichloroethene	0.50	
67-64-1	Acetone	5.0	
67-63-0	2-Propanol	2.0	
75-15-0	Carbon Disulfide	2.0	
107-05-1	3-Chloropropene	2.0	
75-09-2	Methylene Chloride	5.0	
1634-04-4	Methyl tert-butyl ether	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0	
156-59-2	cis-1,2-Dichloroethene	0.50	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
123-91-1	1,4-Dioxane	2.0	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	2.0	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	

Compound Listing

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
91-20-3	Naphthalene	1.0	
74-87-3	Chloromethane	5.0	
75-01-4	Vinyl Chloride	0.50	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	5.0	
75-00-3	Chloroethane	2.0	
75-69-4	Freon 11	0.50	
64-17-5	Ethanol	2.0	
76-13-1	Freon 113	0.50	

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Media Certification Report

Canister Number: 1L#34158
Can#: 104104-34158
Date : 10/22/15 13:46
Data File: d102136.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
4-Bromofluorobenzene	460-00-4	0.250	100.00	% Recovery

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Media Certification Report

Canister Number: 1L# 1L2742
Can#: 104104-1L2742
Date : 10/15/15 19:00
Data File: i101510.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0		103.00	% Recovery
1,2-Dichloroethane-d4	17060-07-0	0.250	103.00	% Recovery
4-Bromofluorobenzene	460-00-4	0.250	104.00	% Recovery
Toluene-d8	2037-26-5	0.250	102.00	% Recovery

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Media Certification Report

Canister Number: 1L# 1L1808w/Batch
Can#: 104104-1L1808
Date : 10/21/15 12:37
Data File: i102105.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0		97.00	% Recovery
1,2-Dichloroethane-d4	17060-07-0	0.250	97.00	% Recovery
4-Bromofluorobenzene	460-00-4	0.250	108.00	% Recovery
Toluene-d8	2037-26-5	0.250	100.00	% Recovery

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Media Certification Report

Canister Number: 1L#37686 w/Batch
Can#: 104104-37686
Date : 10/21/15 15:12
Data File: i102107.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0		101.00	% Recovery
1,2-Dichloroethane-d4	17060-07-0	0.250	101.00	% Recovery
4-Bromofluorobenzene	460-00-4	0.250	118.00	% Recovery
Toluene-d8	2037-26-5	0.250	99.00	% Recovery

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Media Certification Report

Canister Number: 1L# 33718w/Batch
Can#: 104104-33718
Date : 10/22/15 12:48
Data File: i102207.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0		106.00	% Recovery
1,2-Dichloroethane-d4	17060-07-0	0.250	106.00	% Recovery
4-Bromofluorobenzene	460-00-4	0.250	125.00	% Recovery
Toluene-d8	2037-26-5	0.250	102.00	% Recovery

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Media Certification Report

Canister Number: 1L# 37317
Can#: 104104-37317
Date : 10/22/15 14:23
Data File: d102137.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
4-Bromofluorobenzene	460-00-4	0.250	99.00	% Recovery

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Media Certification Report

Canister Number: 1L# 35613
Can#: 104104-35613
Date : 10/22/15 14:04
Data File: i102209.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
1,2-Dichloroethane-d4	17060-07-0		117.00	% Recovery
1,2-Dichloroethane-d4	17060-07-0	0.250	117.00	% Recovery
4-Bromofluorobenzene	460-00-4	0.250	118.00	% Recovery
Toluene-d8	2037-26-5	0.250	94.00	% Recovery

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Media Certification Report

Canister Number: 1L# 35646
Can#: 104104-35646
Date : 10/22/15 15:36
Data File: d102139.d

www.airtoxics.com
1-800-985-5955

Name	CAS	Cert RL	Conc.	Units
2-Propanol	67-63-0	1.000	ND	ppbv
4-Methyl-2-pentanone	108-10-1	0.250	ND	ppbv
Acetone	67-64-1	2.500	ND	ppbv
Benzene	71-43-2	0.250	ND	ppbv
Ethyl Benzene	100-41-4	0.250	ND	ppbv
m,p-Xylene	108-38-3	0.250	ND	ppbv
o-Xylene	95-47-6	0.250	ND	ppbv
Toluene	108-88-3	0.250	ND	ppbv
4-Bromofluorobenzene	460-00-4	0.250	112.00	% Recovery

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 03/26/15
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S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: 8/3/11-2-15	S2: MSD-14 MB 11/03/15	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	NA			■	Manual Integrations included and approved				
✓	✓			✓	Chain of Custody verified for special comments (add comments below)				
✓	✓			■	Non-standard Target sublist printed				

Profile, analyses, reporting, special notes and unusual circumstances:
S1: 8 out QC; 5 flag MDL
S2: 2 out LCS expired, See CAR's.

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: 11/2/15	A2: MB 11/3/15	A3: MB 11/3/15	A4:
✓	✓	✓	✓		Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
NA	NA	NA		na	a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg of instrument				
NA	NA	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				
✓	NA	NA		na	Re-analysis of sample(s) have been evaluated for comparability and/or samples have been checked for trends (Inf/Eff).				
✓	✓	✓		✓	All runs have been evaluated for potential carry-over (TPHg/non-Target/over-range compounds etc)				

Analytical and special notes: D4A & O5A sampled @ different times, D3A – O6A full load of D7A dil NTC
A2: O8A = full load, O2A = Dil, matrix MB 11/3/15
A3: Dil, TC, O1A = Dil, TC

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/Instrument/Date	D1: MC 11/4/15	D2:	D3:	D4:
na					■	CAR # F9A2A2185/FAVE613255 (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:
1. J flag to MDL
2. QC exceedance
3. Dil TC – O1A
4. Dil NTC – O7A
5. Dil matrix – O2A

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: MC 11/4/15	3rd Tier: (needed only for DOD or per client request)	
✓		Sample Discrepancy Report (SDR) complete and approved (if applicable)		
na		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*

Eurofins Air Toxics, Inc.	Reissued - Data Review Checklist			Release Date 01/29/14
	Form F 1.27	Revision #8	Revision date 01/29/14	Page 2 of 2

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