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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

TO-15

INVENTORY SHEET

Work Order #: 1503058H

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	3/17/15
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1503058H

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 #**	
DATE RECEIVED:	03/04/2015	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	03/09/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B6-AA-2	TO-15	0.8 "Hg	4.9 psi
02A	B6-1IA	TO-15	4.3 "Hg	5 psi
03A	B6-2IA	TO-15	4.9 "Hg	4.9 psi
04A	B6-2IADup	TO-15	5.5 "Hg	4.9 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Mayo

Technical Director

DATE: 03/09/15

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# 1503058H

Four 6 Liter Summa Canister (100% Certified) samples were received on March 04, 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

There were no receiving discrepancies.

Analytical Notes

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Dilution was performed on samples B6-1IA, B6-2IA and B6-2IADup due to the presence of high level target species.

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
B6-AA-2	1503058H-01A	3/ 2/2015	3/ 4/2015	NA	7	3/ 9/2015	NA	Good
B6-1IA	1503058H-02A	3/ 2/2015	3/ 4/2015	NA	7	3/ 9/2015	NA	Good
B6-2IA	1503058H-03A	3/ 2/2015	3/ 4/2015	NA	7	3/ 9/2015	NA	Good
B6-2IADup	1503058H-04A	3/ 2/2015	3/ 4/2015	NA	7	3/ 9/2015	NA	Good
Lab Blank	1503058H-05A	NA	NA	NA	NA	3/ 9/2015	NA	Good
CCV	1503058H-06A	NA	NA	NA	NA	3/ 9/2015	NA	Good
LCS	1503058H-07A	NA	NA	NA	NA	3/ 9/2015	NA	Good
LCSD	1503058H-07AA	NA	NA	NA	NA	3/ 9/2015	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B6-AA-2

Lab ID#: 1503058H-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	2.7	0.36 J	6.7	0.90 J

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Client Sample ID: B6-AA-2

Lab ID#: 1503058H-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030907**	**Date of Collection:**	**3/2/15 9:38:00 AM**
Dil. Factor:	**1.37**	**Date of Analysis:**	**3/9/15 12:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	2.7	0.36 J	6.7	0.90 J

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030907.d
Lab Smp Id: 1503058H-01A
Inj Date : 09-MAR-2015 12:20
Operator : js Inst ID: msdp.i
Smp Info : 200ml #34188
Misc Info : 0.8"Hg ->4.9psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 13
Dil Factor: 1.37000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.37000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
57 2-Propanol					CAS #: 67-63-0		
3.579	3.565 (0.656)	45	3130	0.26650	0.3651	80.00- 120.00	100.00(a)
3.579	3.565 (0.656)	43	697			0.00- 46.95	22.27
4.037	3.565 (0.740)	59	194			0.00- 33.74	6.20
* 98 Bromochloromethane					CAS #: 74-97-5		
5.455	5.448 (1.000)	130	102629	25.0000		80.00- 120.00	100.00
5.455	5.448 (1.000)	128	77679			48.50- 108.50	75.69
5.448	5.448 (1.000)	49	185833			157.33- 217.33	181.07
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.978	5.986 (1.096)	65	157797	24.6795	24.679	80.00- 120.00	100.00
5.978	5.986 (1.096)	67	79971			27.69- 87.69	50.68
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.329	6.337 (1.000)	114	463217	25.0000		80.00- 120.00	100.00
6.329	6.337 (1.000)	88	75128			0.00- 45.39	16.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.526	7.554 (1.189)	98	533957	25.8967	25.897	80.00- 120.00	100.00
7.526	7.554 (1.189)	70	55428			0.00- 41.30	10.38
7.526	7.554 (1.189)	100	350850			36.42- 96.42	65.71
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.750	8.779 (1.000)	117	508107	25.0000		80.00- 120.00	100.00
8.750	8.779 (1.000)	82	278514			24.18- 84.18	54.81
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.753	9.761 (1.115)	174	331080	26.2117	26.212	80.00- 120.00	100.00
9.753	9.761 (1.115)	95	410506			101.88- 161.88	123.99
9.753	9.761 (1.115)	176	318491			68.14- 128.14	96.20

QC Flag Legend

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

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030907.d
Lab Smp Id: 1503058H-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 0.8"Hg ->4.9psi

Calibration Date: 09-MAR-2015
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	102629	-20.30
123 1,4-Difluorobenze	577007	346204	807810	463217	-19.72
163 Chlorobenzene-d5	578664	347198	810130	508107	-12.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.33	-0.12
163 Chlorobenzene-d5	8.78	8.45	9.11	8.75	-0.33

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

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1503058H-01A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 0.8"Hg ->4.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.679	98.72	70-130
$ 146 Toluene-d8	25.000	25.897	103.59	70-130
$ 177 4-Bromofluorobenze	25.000	26.212	104.85	70-130

Data File: /chem/msdp.i/09mar15.b/p030907.d

Date : 09-MAR-2015 12:20

Client ID:

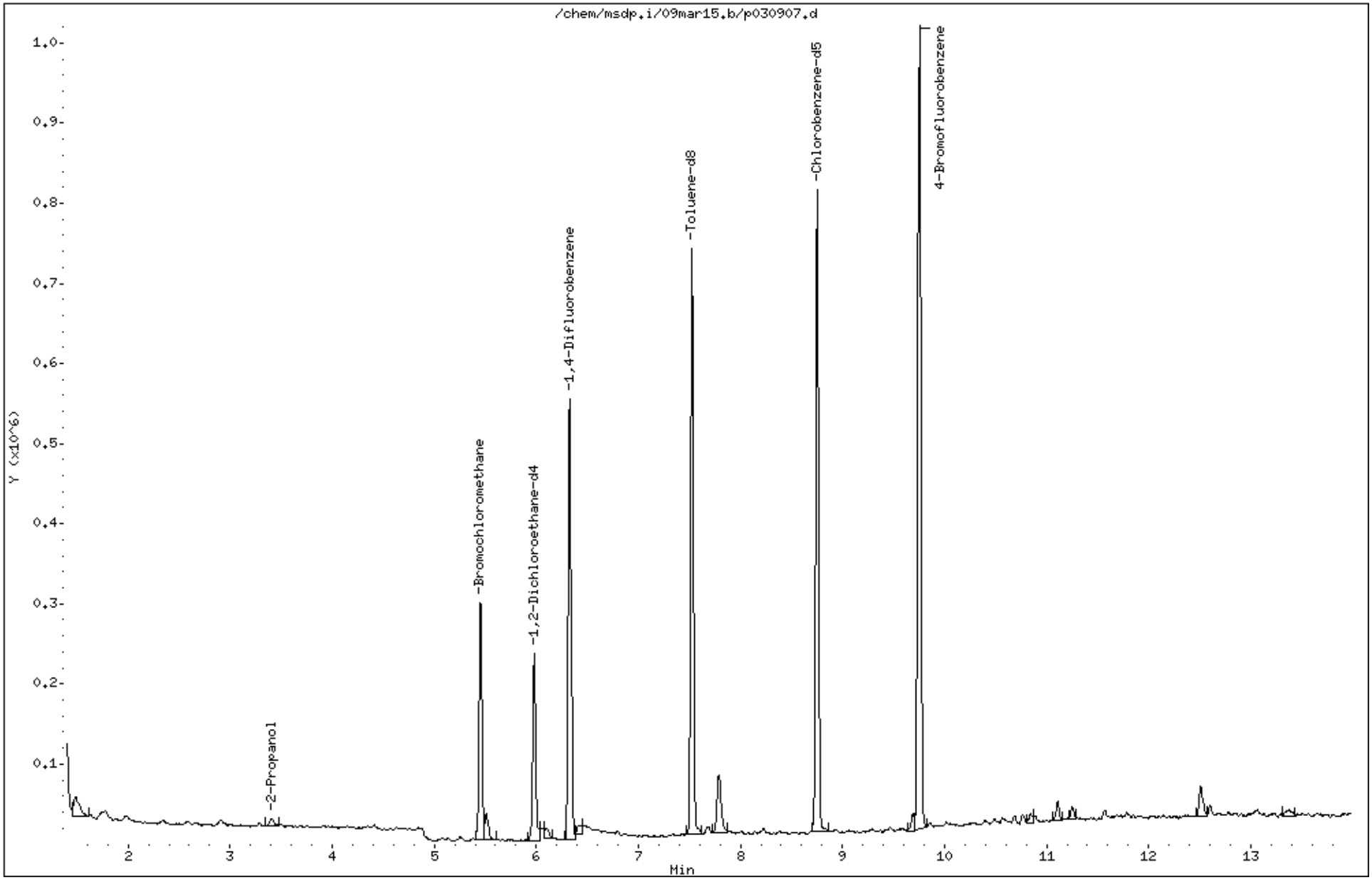
Sample Info: 200ml #34188

Column phase: RTX-624

Instrument: msdp.i

Operator: js

Column diameter: 0.25



Data File: /chem/msdp.i/09mar15.b/p030907.d

Date : 09-MAR-2015 12:20

Client ID:

Instrument: msdp.i

Sample Info: 200ml #34188

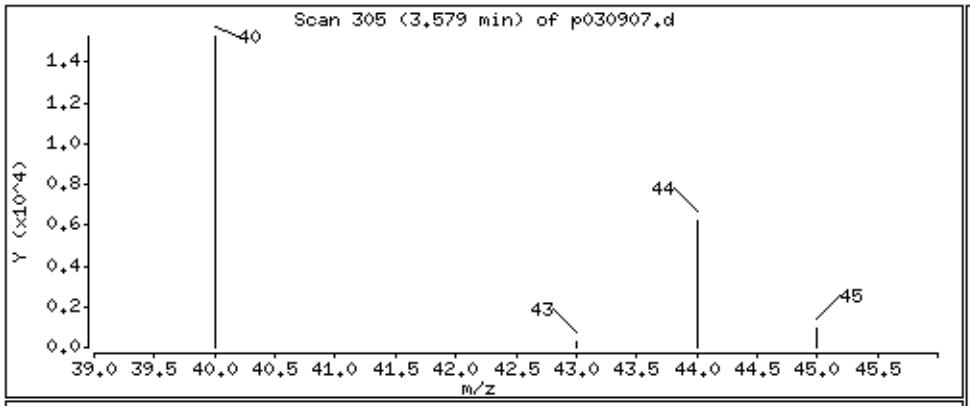
Operator: js

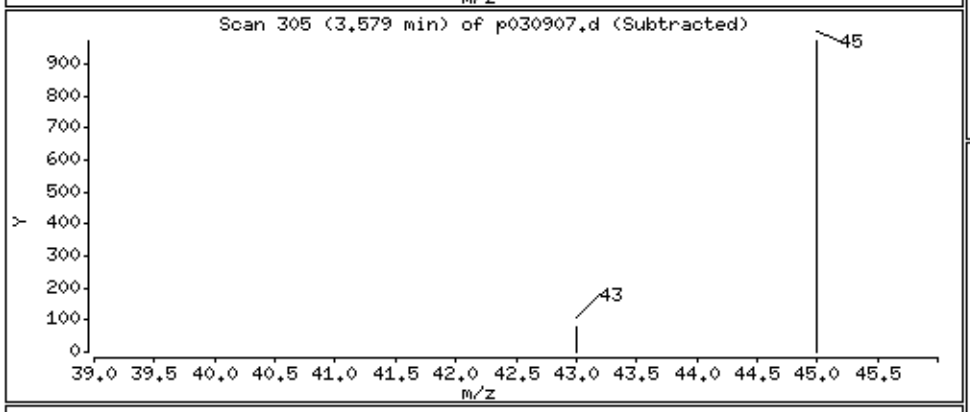
Column phase: RTX-624

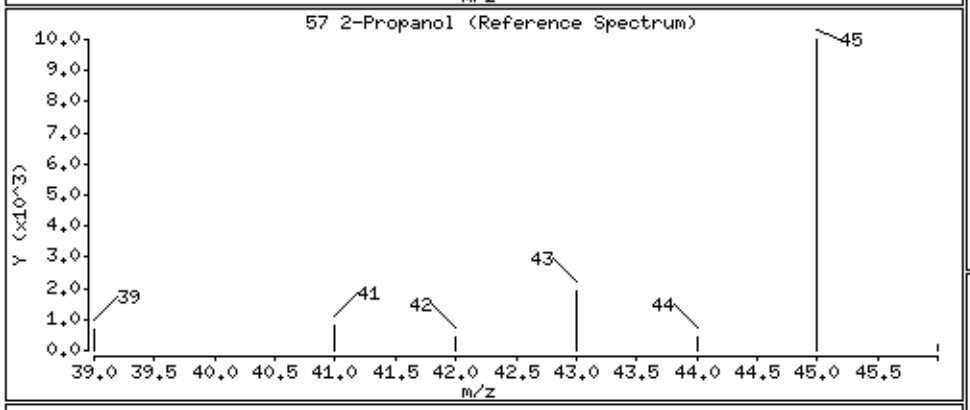
Column diameter: 0.25

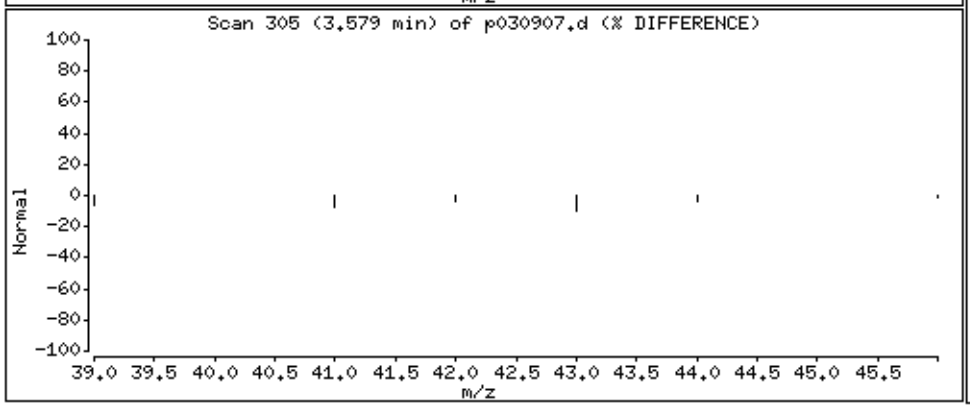
57 2-Propanol

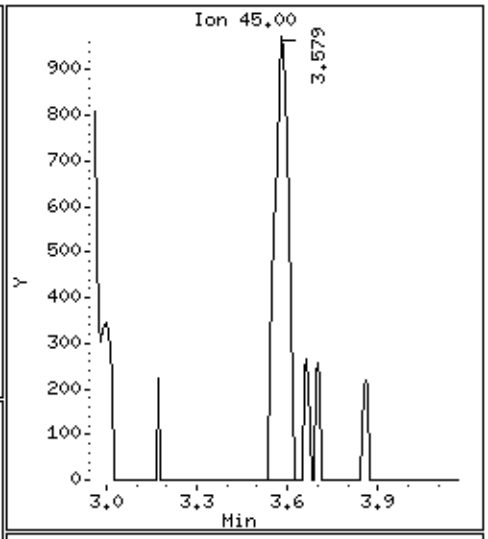
Concentration: 0.3651 PPBV

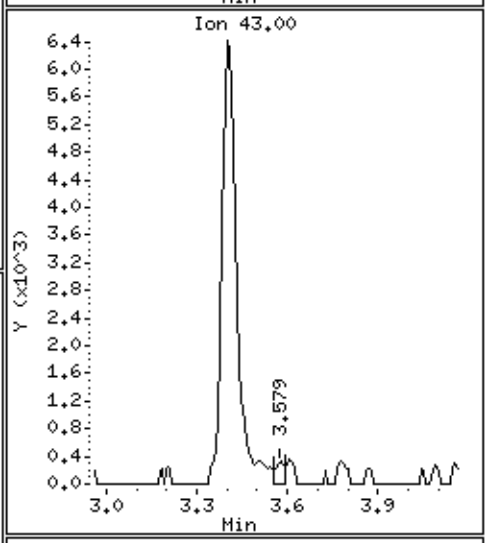


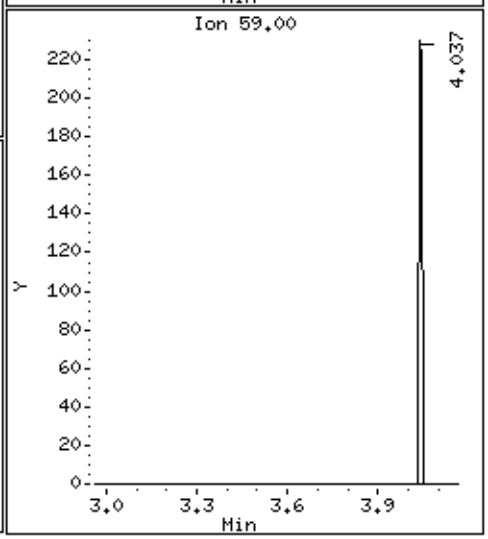












Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-1IA

Lab ID#: 1503058H-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	21	1600	51	3900

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Client Sample ID: B6-1IA

Lab ID#: 1503058H-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030910**	**Date of Collection:**	**3/2/15 12:05:00 PM**
Dil. Factor:	**10.4**	**Date of Analysis:**	**3/9/15 01:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	21	1600	51	3900

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030910.d
Lab Smp Id: 1503058H-02A
Inj Date : 09-MAR-2015 13:31
Operator : js Inst ID: msdp.i
Smp Info : 30ml #35132
Misc Info : 4.3"Hg ->5psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 13
Dil Factor: 10.40000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	10.40000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
57 2-Propanol					CAS #: 67-63-0		
3.564	3.565 (0.653)	45	1672033	153.983	1601.4	80.00- 120.00	100.00
3.564	3.565 (0.653)	43	291759			0.00- 46.95	17.45
3.572	3.565 (0.655)	59	63383			0.00- 33.74	3.79
* 98 Bromochloromethane					CAS #: 74-97-5		
5.455	5.448 (1.000)	130	94885	25.0000		80.00- 120.00	100.00
5.455	5.448 (1.000)	128	75555			48.50- 108.50	79.63
5.448	5.448 (1.000)	49	178918			157.33- 217.33	188.56
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	153027	25.8868	25.887	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	74642			27.69- 87.69	48.78
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.337 (1.000)	114	448928	25.0000		80.00- 120.00	100.00
6.344	6.337 (1.000)	88	71975			0.00- 45.39	16.03

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8							CAS #: 2037-26-5	
7.554	7.554	(1.191)	98	493872	24.7150	24.715	80.00- 120.00	100.00
7.554	7.554	(1.191)	70	53651			0.00- 41.30	10.86
7.554	7.554	(1.191)	100	319404			36.42- 96.42	64.67
* 163 Chlorobenzene-d5							CAS #: 3114-55-4	
8.779	8.779	(1.000)	117	477549	25.0000		80.00- 120.00	100.00
8.779	8.779	(1.000)	82	266530			24.18- 84.18	55.81
$ 177 4-Bromofluorobenzene							CAS #: 460-00-4	
9.760	9.761	(1.112)	174	300370	25.3021	25.302	80.00- 120.00	100.00
9.760	9.761	(1.112)	95	373666			101.88- 161.88	124.40
9.760	9.761	(1.112)	176	289205			68.14- 128.14	96.28

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030910.d
Lab Smp Id: 1503058H-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 4.3"Hg ->5psi

Calibration Date: 09-MAR-2015
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	94885	-26.32
123 1,4-Difluorobenze	577007	346204	807810	448928	-22.20
163 Chlorobenzene-d5	578664	347198	810130	477549	-17.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	0.00

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

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1503058H-02A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 4.3"Hg ->5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.887	103.55	70-130
$ 146 Toluene-d8	25.000	24.715	98.86	70-130
$ 177 4-Bromofluorobenze	25.000	25.302	101.21	70-130

Data File: /chem/msdp.i/09mar15.b/p030910.d

Date : 09-MAR-2015 13:31

Client ID:

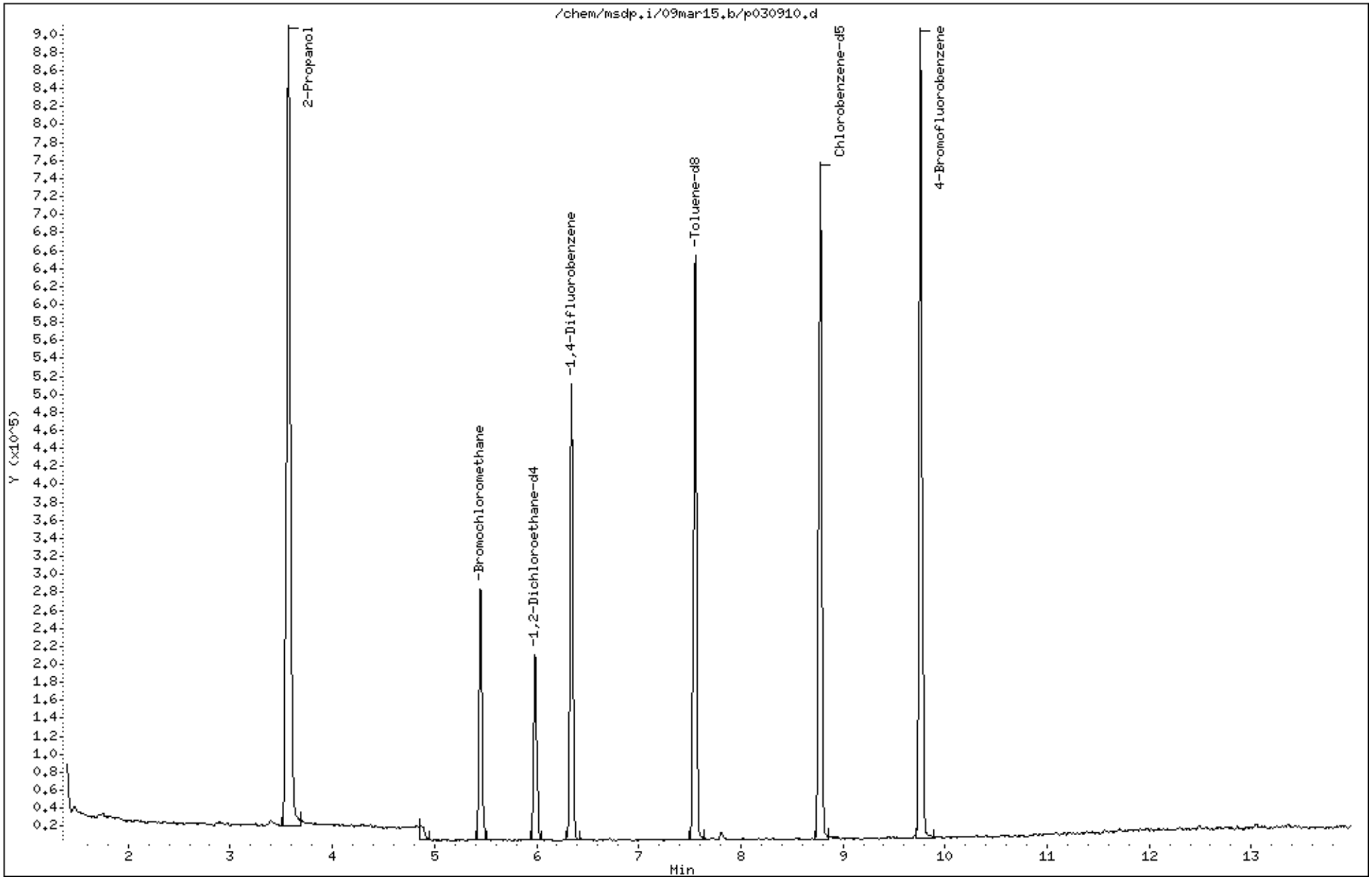
Sample Info: 30ml #35132

Column phase: RTX-624

Instrument: msdp.i

Operator: js

Column diameter: 0.25



Data File: /chem/msdp.i/09mar15.b/p030910.d

Date : 09-MAR-2015 13:31

Client ID:

Instrument: msdp.i

Sample Info: 30ml #35132

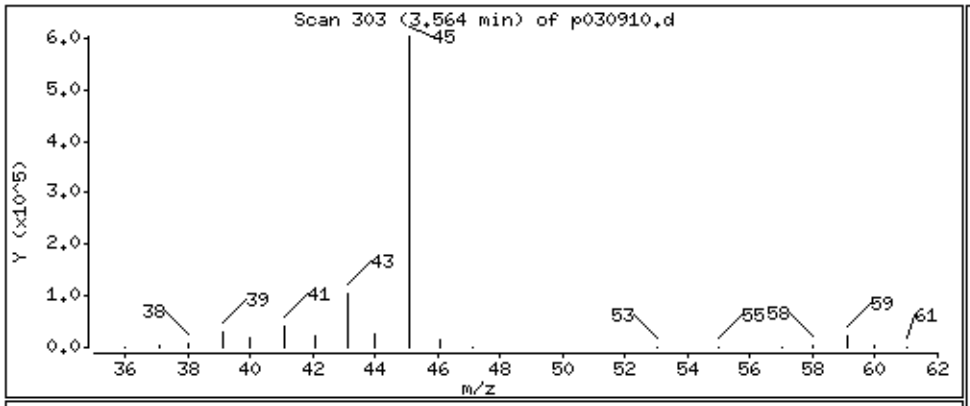
Operator: js

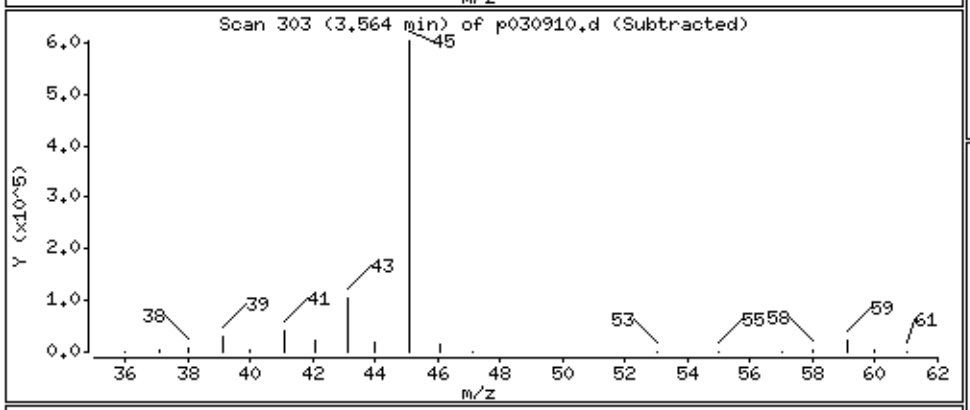
Column phase: RTX-624

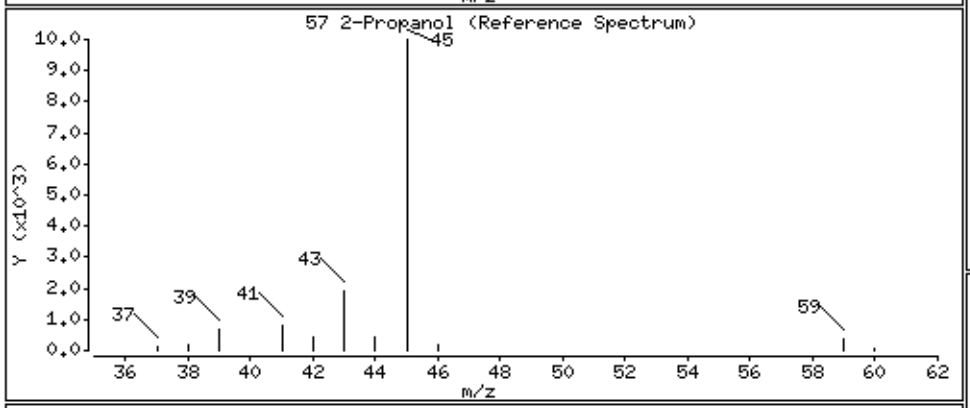
Column diameter: 0.25

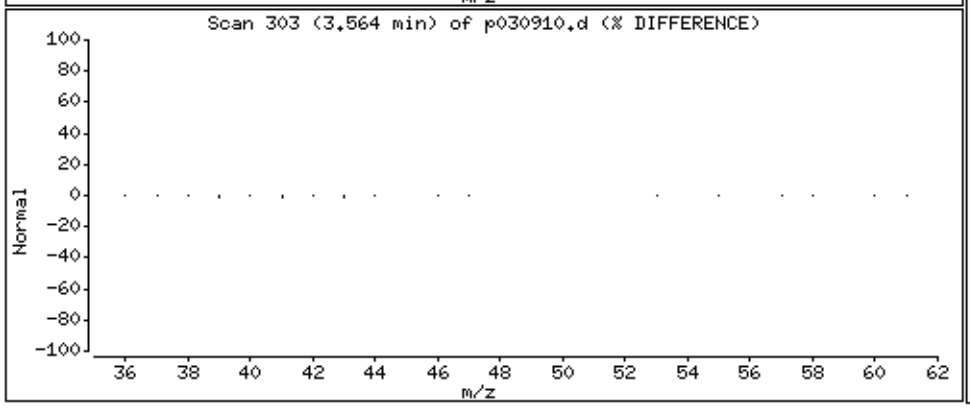
57 2-Propanol

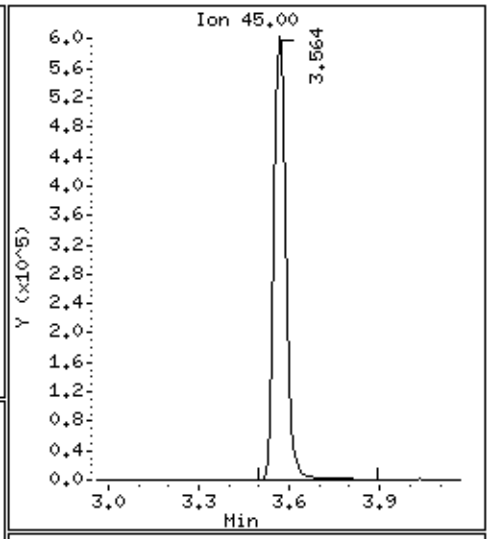
Concentration: 1601.4 PPBV

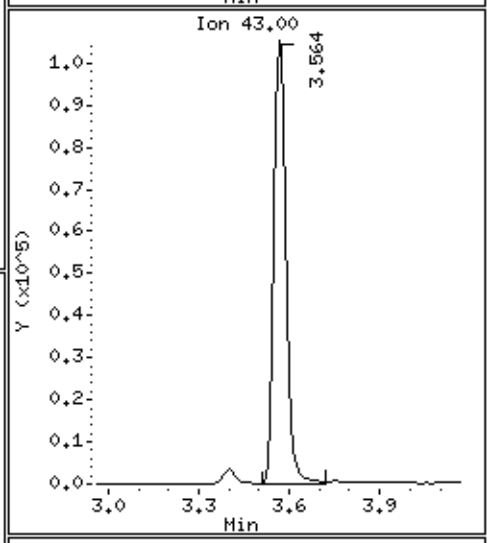


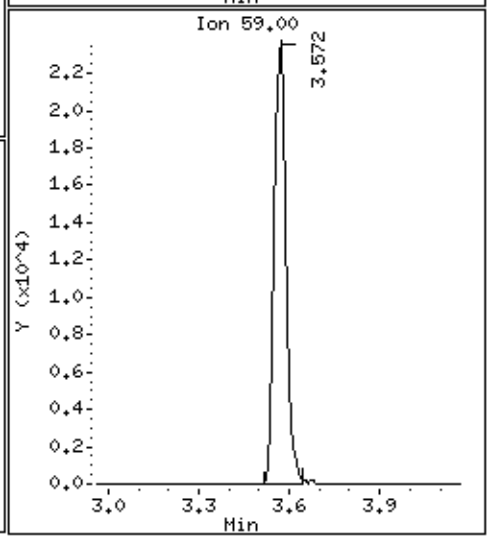












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-2IA

Lab ID#: 1503058H-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	13	810	31	2000

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Client Sample ID: B6-2IA

Lab ID#: 1503058H-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030908**	**Date of Collection:**	**3/2/15 12:08:00 PM**
Dil. Factor:	**6.37**	**Date of Analysis:**	**3/9/15 12:43 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	13	810	31	2000

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030908.d
Lab Smp Id: 1503058H-03A
Inj Date : 09-MAR-2015 12:43
Operator : js Inst ID: msdp.i
Smp Info : 50ml #34011
Misc Info : 4.9"Hg ->4.9psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 13
Dil Factor: 6.37000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	6.37000	Dilution Factor

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
57 2-Propanol						CAS #: 67-63-0		
3.564	3.565	(0.653)	45	1590774	127.513	812.25	80.00- 120.00	100.00
3.564	3.565	(0.653)	43	266252			0.00- 46.95	16.74
3.564	3.565	(0.653)	59	58691			0.00- 33.74	3.69
* 98 Bromochloromethane						CAS #: 74-97-5		
5.455	5.448	(1.000)	130	109014	25.0000		80.00- 120.00	100.00
5.455	5.448	(1.000)	128	83680			48.50- 108.50	76.76
5.448	5.448	(1.000)	49	204890			157.33- 217.33	187.95
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
5.985	5.986	(1.097)	65	165183	24.3215	24.322	80.00- 120.00	100.00
5.985	5.986	(1.097)	67	83818			27.69- 87.69	50.74
* 123 1,4-Difluorobenzene						CAS #: 540-36-3		
6.344	6.337	(1.000)	114	494541	25.0000		80.00- 120.00	100.00
6.344	6.337	(1.000)	88	75416			0.00- 45.39	15.25

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.554	7.554	(1.191)	98	550123	24.9908	24.991	80.00- 120.00	100.00
7.547	7.554	(1.190)	70	60028			0.00- 41.30	10.91
7.554	7.554	(1.191)	100	353999			36.42- 96.42	64.35
* 163 Chlorobenzene-d5						CAS #: 3114-55-4		
8.772	8.779	(1.000)	117	506558	25.0000		80.00- 120.00	100.00
8.772	8.779	(1.000)	82	289872			24.18- 84.18	57.22
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
9.760	9.761	(1.113)	174	325292	25.8322	25.832	80.00- 120.00	100.00
9.753	9.761	(1.112)	95	407259			101.88- 161.88	125.20
9.760	9.761	(1.113)	176	315173			68.14- 128.14	96.89

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030908.d
Lab Smp Id: 1503058H-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 4.9"Hg ->4.9psi

Calibration Date: 09-MAR-2015
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	109014	-15.34
123 1,4-Difluorobenze	577007	346204	807810	494541	-14.29
163 Chlorobenzene-d5	578664	347198	810130	506558	-12.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.77	-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: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1503058H-03A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 4.9"Hg ->4.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.322	97.29	70-130
$ 146 Toluene-d8	25.000	24.991	99.96	70-130
$ 177 4-Bromofluorobenze	25.000	25.832	103.33	70-130

Data File: /chem/msdp.i/09mar15.b/p030908.d

Date : 09-MAR-2015 12:43

Client ID:

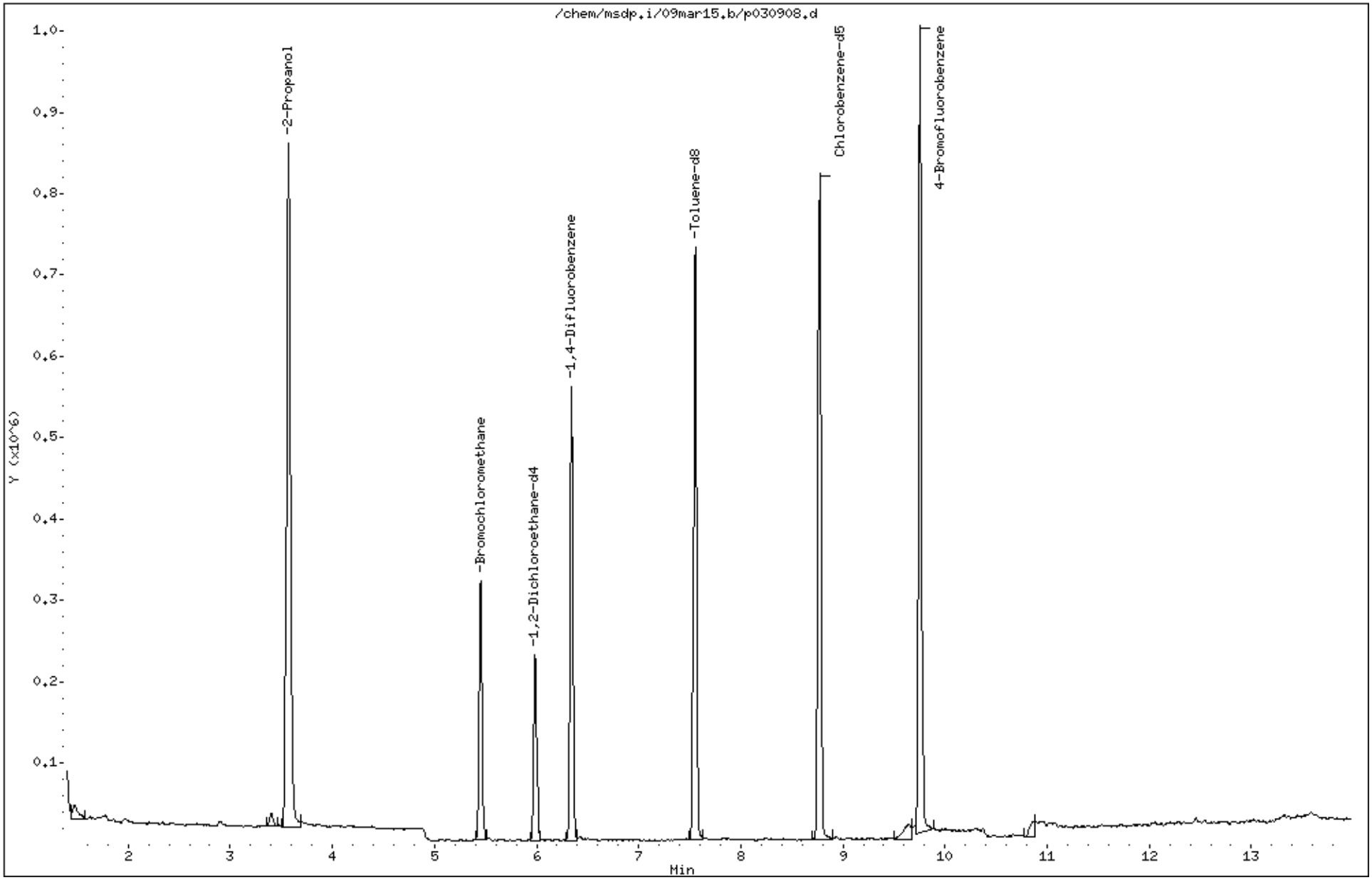
Sample Info: 50ml #34011

Column phase: RTX-624

Instrument: msdp.i

Operator: js

Column diameter: 0.25



Data File: /chem/msdp.i/09mar15.b/p030908.d

Date : 09-MAR-2015 12:43

Client ID:

Instrument: msdp.i

Sample Info: 50ml #34011

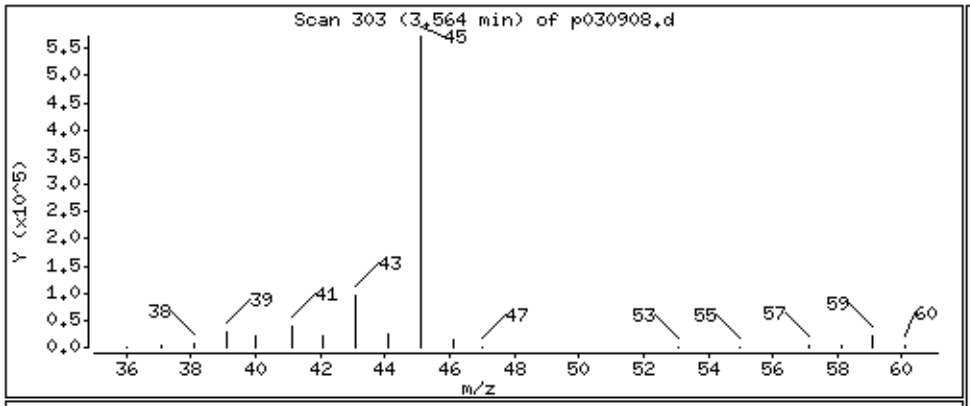
Operator: js

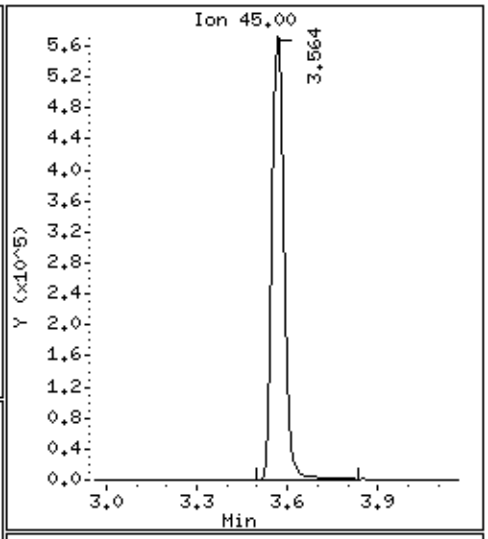
Column phase: RTX-624

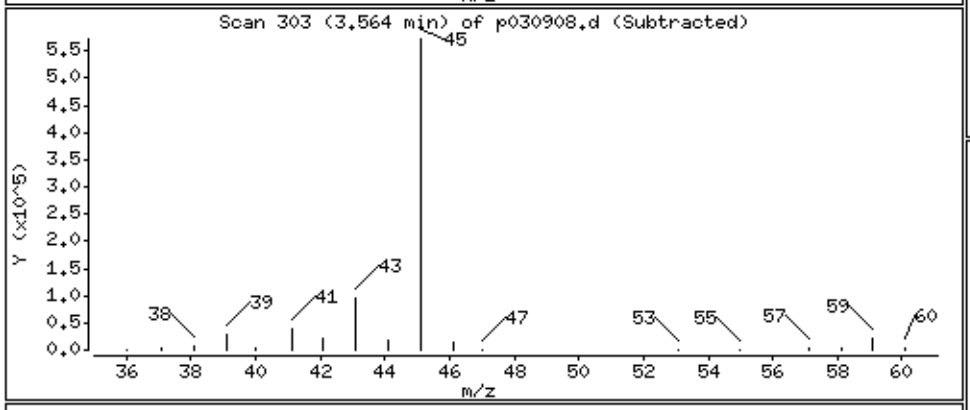
Column diameter: 0.25

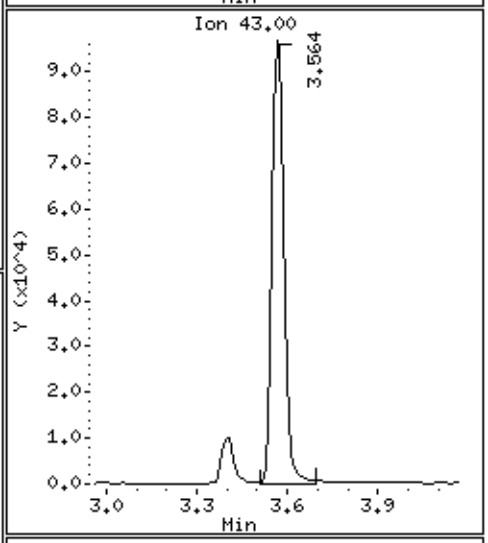
57 2-Propanol

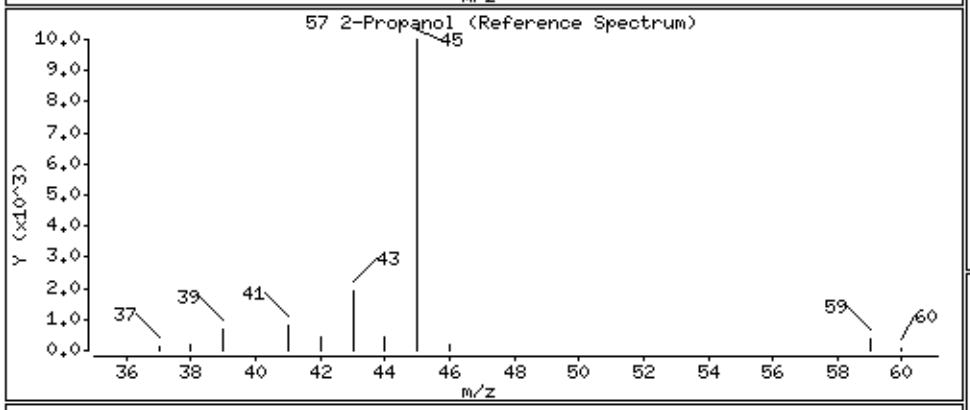
Concentration: 812.25 PPBV

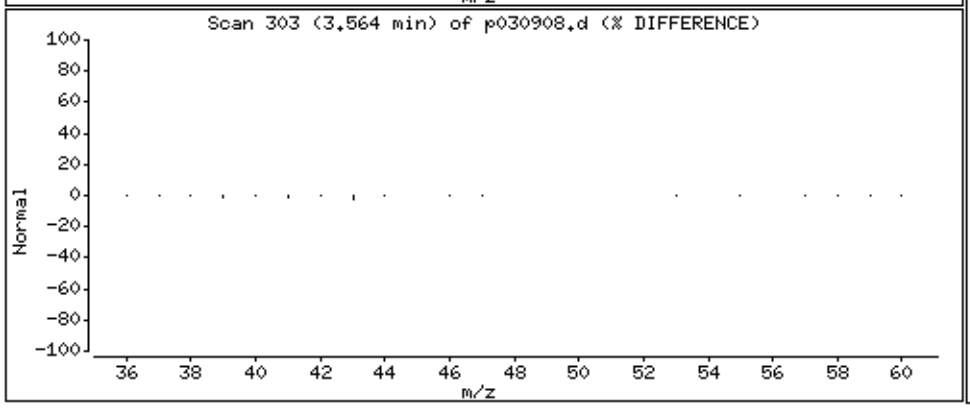


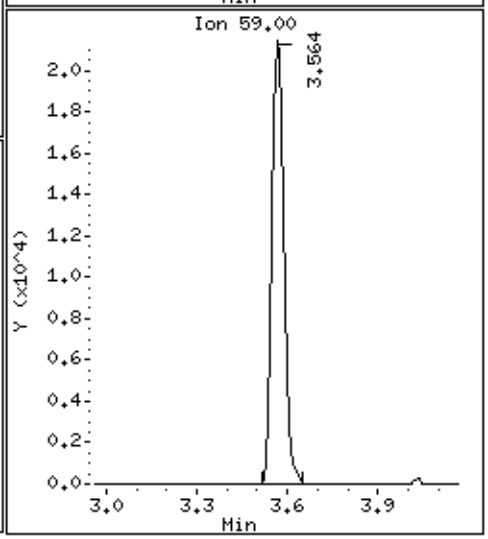












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: B6-2IADup

Lab ID#: 1503058H-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	13	870	32	2100

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Client Sample ID: B6-2IADup

Lab ID#: 1503058H-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030909**	**Date of Collection:**	**3/2/15 12:08:00 PM**
Dil. Factor:	**6.53**	**Date of Analysis:**	**3/9/15 01:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	13	870	32	2100

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030909.d
Lab Smp Id: 1503058H-04A
Inj Date : 09-MAR-2015 13:07
Operator : js Inst ID: msdp.i
Smp Info : 50ml #35132
Misc Info : 5.5"Hg ->4.9psi
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 13
Dil Factor: 6.53000
Integrator: HP RTE Compound Sublist: And19256.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	6.53000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
57 2-Propanol					CAS #: 67-63-0		
3.572	3.565 (0.655)	45	1579717	132.774	867.02	80.00- 120.00	100.00
3.572	3.565 (0.655)	43	271025			0.00- 46.95	17.16
3.572	3.565 (0.655)	59	60996			0.00- 33.74	3.86
* 98 Bromochloromethane					CAS #: 74-97-5		
5.456	5.448 (1.000)	130	103966	25.0000		80.00- 120.00	100.00
5.456	5.448 (1.000)	128	79077			48.50- 108.50	76.06
5.456	5.448 (1.000)	49	191455			157.33- 217.33	184.15
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	157791	24.3612	24.361	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	81406			27.69- 87.69	51.59
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.337 (1.000)	114	462267	25.0000		80.00- 120.00	100.00
6.344	6.337 (1.000)	88	74823			0.00- 45.39	16.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.554	7.554 (1.191)	98	525515	25.5396	25.540	80.00- 120.00	100.00
7.547	7.554 (1.190)	70	53501			0.00- 41.30	10.18
7.554	7.554 (1.191)	100	336151			36.42- 96.42	63.97
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.772	8.779 (1.000)	117	485640	25.0000		80.00- 120.00	100.00
8.765	8.779 (1.000)	82	262067			24.18- 84.18	53.96
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.739	9.761 (1.110)	174	314414	26.0438	26.044	80.00- 120.00	100.00
9.739	9.761 (1.110)	95	388817			101.88- 161.88	123.66
9.739	9.761 (1.110)	176	301881			68.14- 128.14	96.01

Report Date: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030909.d
Lab Smp Id: 1503058H-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 5.5"Hg ->4.9psi

Calibration Date: 09-MAR-2015
Calibration Time: 09:40

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	103966	-19.26
123 1,4-Difluorobenze	577007	346204	807810	462267	-19.89
163 Chlorobenzene-d5	578664	347198	810130	485640	-16.08

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.77	-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: 09-Mar-2015 14:33

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1503058H-04A
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 5.5"Hg ->4.9psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.361	97.44	70-130
$ 146 Toluene-d8	25.000	25.540	102.16	70-130
$ 177 4-Bromofluorobenze	25.000	26.044	104.18	70-130

Data File: /chem/msdp.i/09mar15.b/p030909.d

Page 1

Date : 09-MAR-2015 13:07

Client ID:

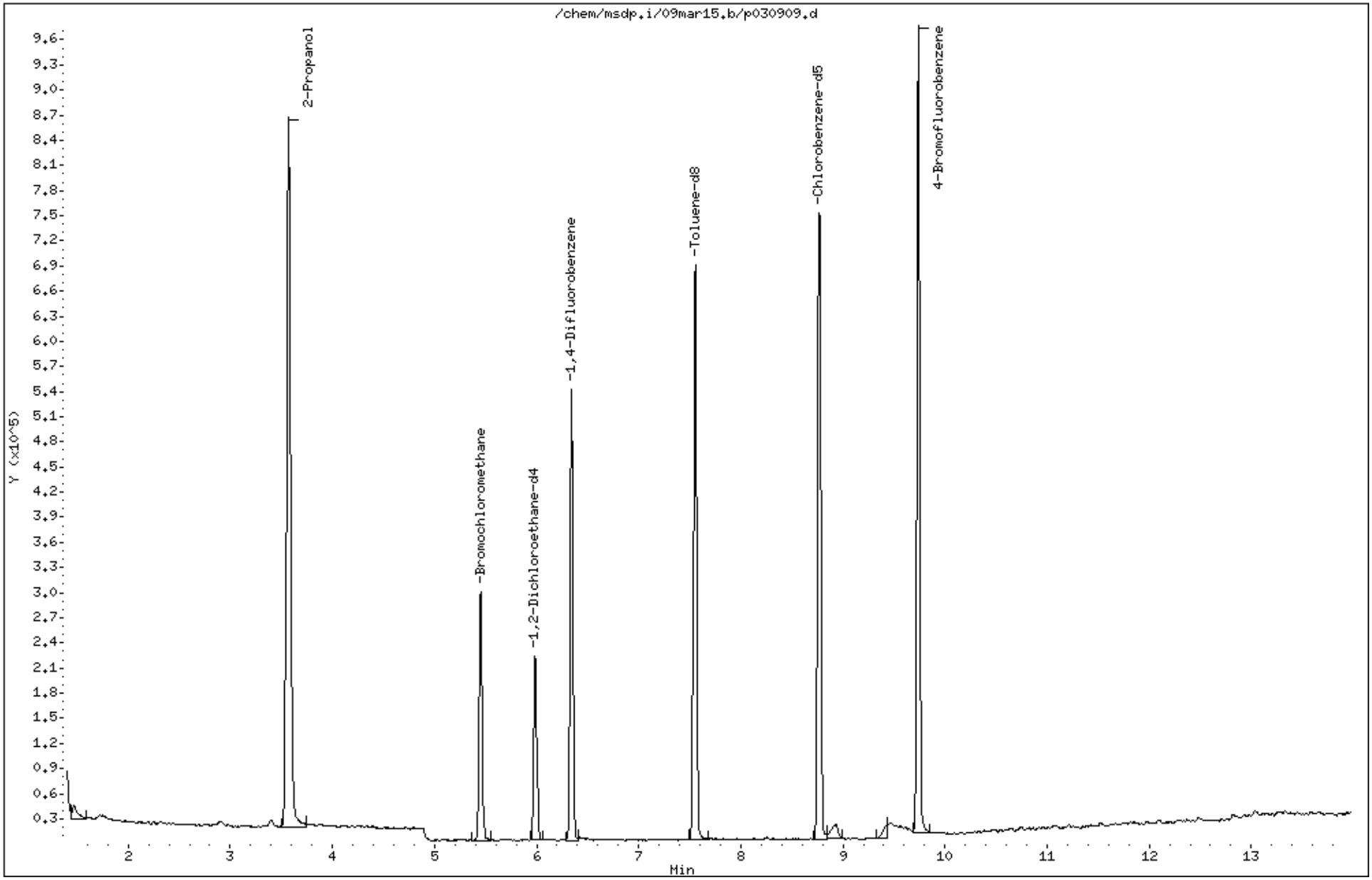
Instrument: msdp.i

Sample Info: 50ml #35132

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Data File: /chem/msdp.i/09mar15.b/p030909.d

Date : 09-MAR-2015 13:07

Client ID:

Instrument: msdp.i

Sample Info: 50ml #35132

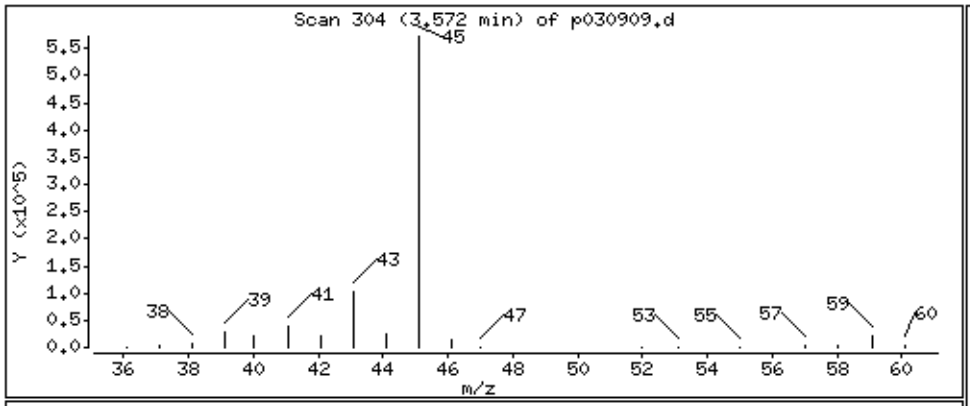
Operator: js

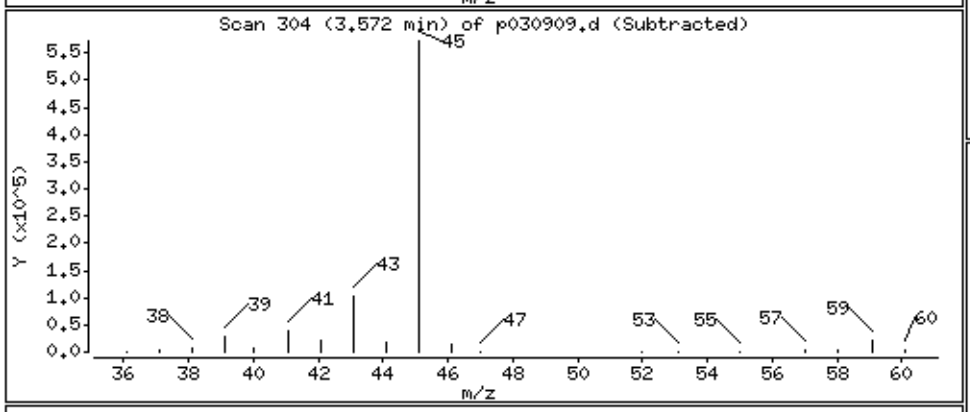
Column phase: RTX-624

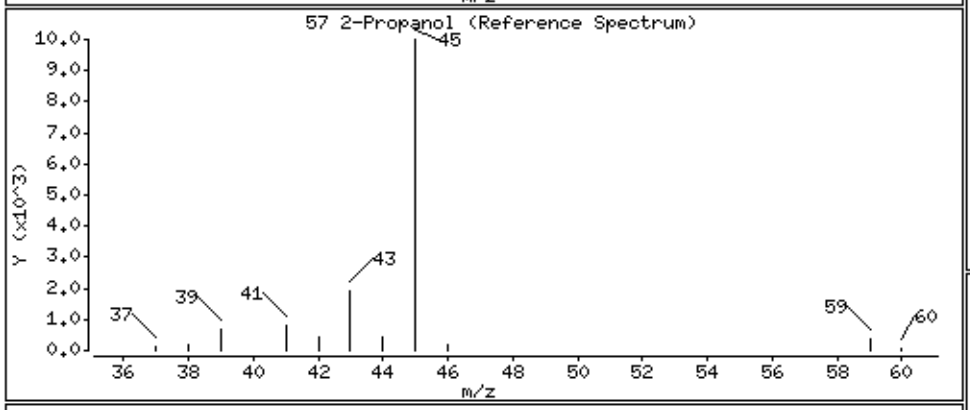
Column diameter: 0.25

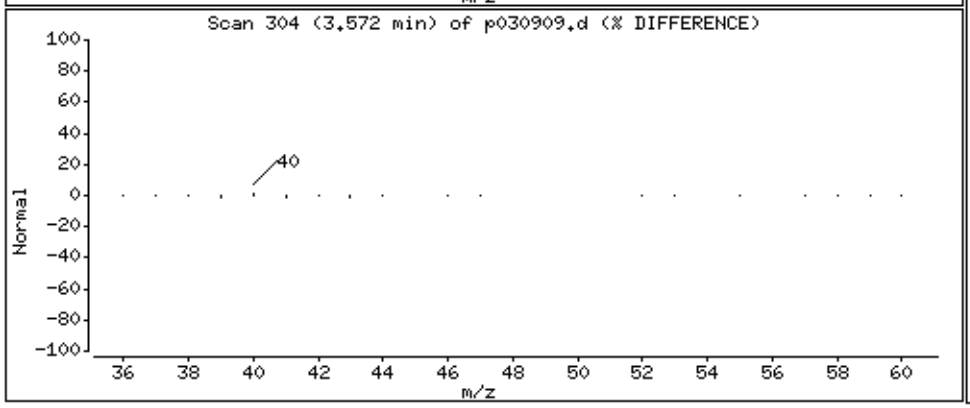
57 2-Propanol

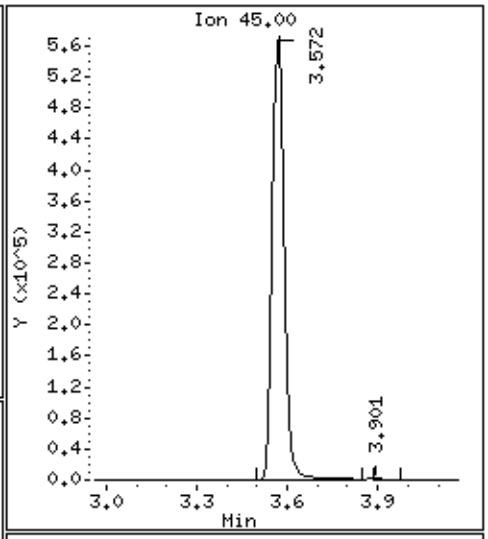
Concentration: 867.02 PPBV

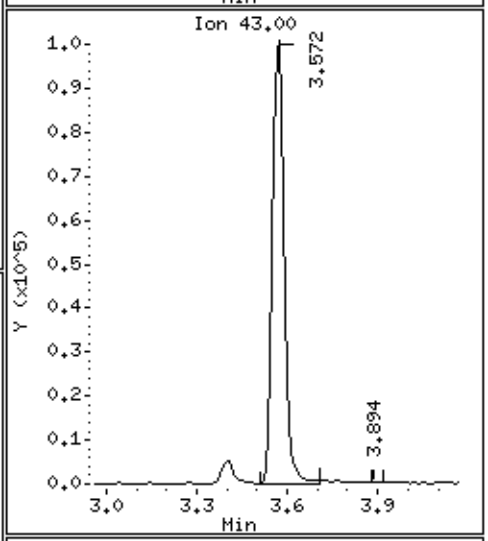


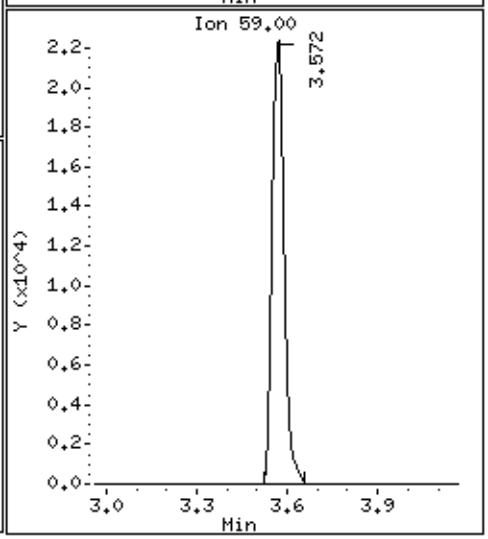












QC Results and Raw Data

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1503058H-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/15 11:45 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	2.0	Not Detected	4.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030906a.d
Lab Smp Id: Lab blank Client Smp ID: Lab blank
Inj Date : 09-MAR-2015 11:45
Operator : js Inst ID: msdp.i
Smp Info : 200ml #34342
Misc Info : Humid
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: And19256.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	
5.456	5.448 (1.000)	130	103509	25.0000		80.00- 120.00	100.00
5.456	5.448 (1.000)	128	80696			48.50- 108.50	77.96
5.456	5.448 (1.000)	49	188517			157.33- 217.33	182.13
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.993	5.986 (1.098)	65	162849	25.2531	25.253	80.00- 120.00	100.00
5.993	5.986 (1.098)	67	81220			27.69- 87.69	49.87
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.337 (1.000)	114	481219	25.0000		80.00- 120.00	100.00
6.344	6.337 (1.000)	88	73885			0.00- 45.39	15.35
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.554	7.554 (1.191)	98	532414	24.8559	24.856	80.00- 120.00	100.00
7.554	7.554 (1.191)	70	54868			0.00- 41.30	10.31
7.554	7.554 (1.191)	100	346009			36.42- 96.42	64.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	506555	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	283677			24.18- 84.18	56.00
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.761	9.761 (1.112)	174	320945	25.4872	25.487	80.00- 120.00	100.00
9.761	9.761 (1.112)	95	410397			101.88- 161.88	127.87
9.761	9.761 (1.112)	176	308920			68.14- 128.14	96.25

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030906a.d
Lab Smp Id: Lab blank
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: Humid

Calibration Date: 09-MAR-2015
Calibration Time: 09:40
Client Smp ID: Lab blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	103509	-19.62
123 1,4-Difluorobenze	577007	346204	807810	481219	-16.60
163 Chlorobenzene-d5	578664	347198	810130	506555	-12.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	0.00

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

Report Date: 09-Mar-2015 12:11

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab blank
Client Smp ID: Lab blank
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: And19256.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.253	101.01	70-130
$ 146 Toluene-d8	25.000	24.856	99.42	70-130
$ 177 4-Bromofluorobenze	25.000	25.487	101.95	70-130

Data File: /chem/msdp.i/09mar15.b/p030906a.d

Date : 09-MAR-2015 11:45

Client ID: Lab blank

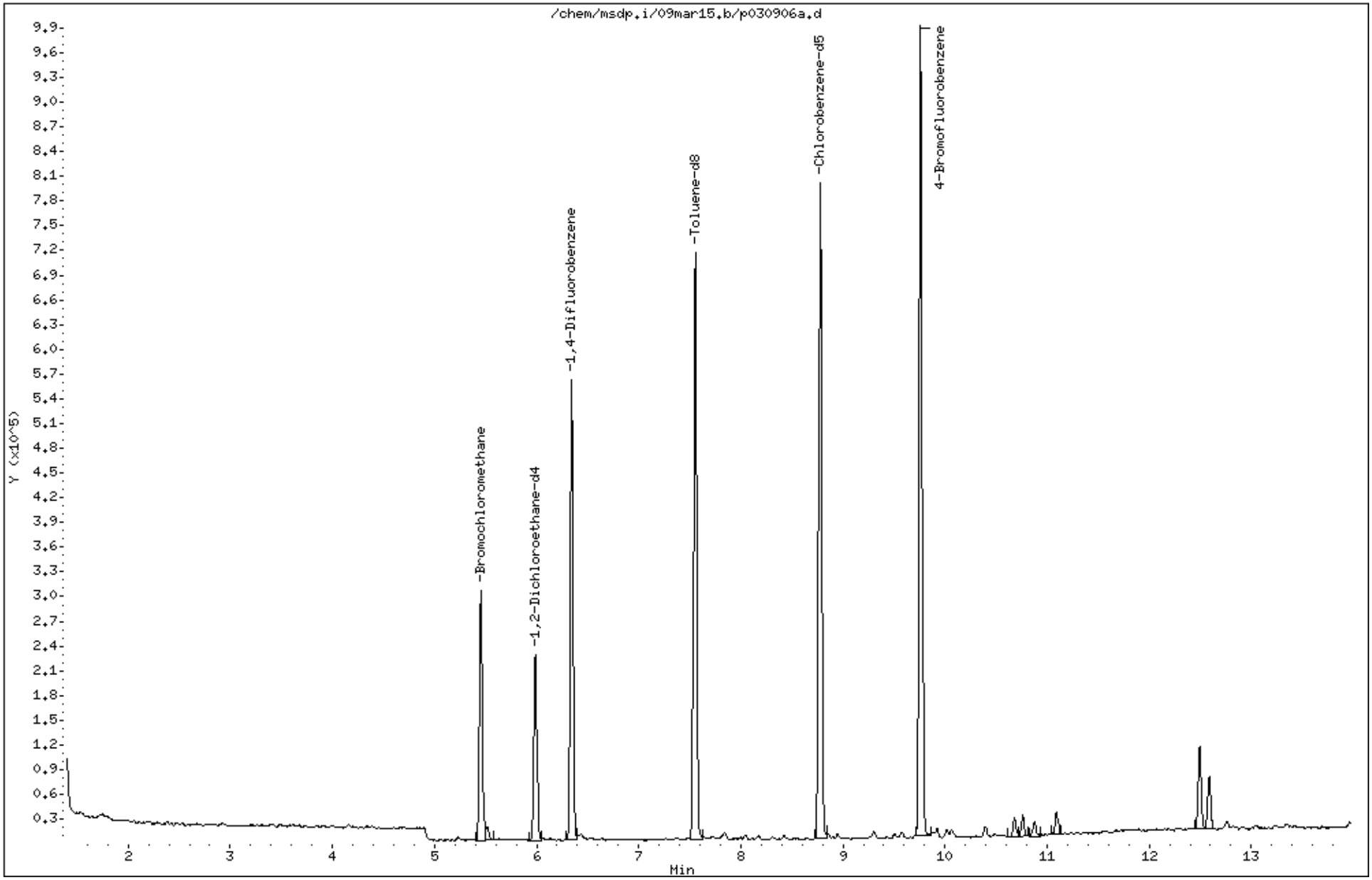
Instrument: msdp.i

Sample Info: 200ml #34342

Operator: js

Column phase: RTX-624

Column diameter: 0.25



LEVEL-IV VALIDATABLE

EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1503058H

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B6-AA-2	99		104		105				0
02	B6-1IA	104		99		101				0
03	B6-2IA	97		100		103				0
04	B6-2IADup	97		102		104				0
05	Lab Blank	101		99		102				0
06	CCV	101		100		101				0
07	LCS	100		100		102				0
08	LCSD	101		100		102				0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										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 Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD

SDG No: 1503058H

Lab File ID: p030902.d

Date Analyzed: 03/09/2015

Instrument ID: msdp.i

Time Analyzed: 09:40 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	578664		8.78		577007		6.34		128772		5.45	
	UPPER LIMIT	810130		09.11		807810		06.67		180281		05.78	
	LOWER LIMIT	347198		08.45		346204		06.01		77263		05.12	
	CLIENT SAMPLE NO												
01	B6-AA-2	508107		8.75		463217		6.33		102629		5.46	
02	B6-1IA	477549		8.78		448928		6.34		94885		5.46	
03	B6-2IA	506558		8.77		494541		6.34		109014		5.46	
04	B6-2IADup	485640		8.77		462267		6.34		103966		5.46	
05	Lab Blank	506555		8.78		481219		6.34		103509		5.46	
06	CCV	578664		8.78		577007		6.34		128772		5.45	
07	LCS	539482		8.75		517425		6.32		112401		5.44	
08	LCSD	519933		8.76		505191		6.34		110810		5.46	
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: p030905.d & p030904.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 3/9/15 & 3/9/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
67-63-0	2-Propanol	99		95		4.1	

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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/17feb15.b/p021710.d
Level 3: /chem/msdp.i/17feb15.b/p021711.d
Level 4: /chem/msdp.i/17feb15.b/p021712.d
Level 5: /chem/msdp.i/17feb15.b/p021713.d
Level 6: /chem/msdp.i/17feb15.b/p021714.d
Level 7: /chem/msdp.i/17feb15.b/p021715.d
Level 8: /chem/msdp.i/17feb15.b/p021716.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	200.000 Level 8	___ 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.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ RRF	% RSD
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++	1.28916	1.19811	1.69098	1.22457	1.21579	1.19164	1.30171	14.891
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	4.40241	3.29559	3.26053	4.47960	3.24128	3.17674	3.20006	3.57946	16.490
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	3.38298	2.17174	2.29708	3.24110	2.33605	2.31671	2.30186	2.57822	19.616
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++	1.49535	1.40186	1.90825	1.32152	1.28685	1.26935	1.44720	16.644

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Butane	+++++	0.27443	0.31374	0.43843	0.31480	0.32402		
	0.31308						0.32975	16.973
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Vinyl Chloride	1.91806	1.28512	1.44182	1.97223	1.42151	1.41603		
	1.40714						1.55170	17.658
26 1,3-Butadiene	1.70484	1.29196	1.24986	1.81644	1.32419	1.32323		
	1.31529						1.43226	15.924
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Bromomethane	+++++	1.01040	0.90223	1.39645	0.94600	0.93577		
	0.90713						1.01633	18.716
30 Chloroethane	+++++	0.68478	0.71606	0.91720	0.63582	0.61692		
	0.62235						0.69885	16.278
31 Isopentane	+++++	1.99698	1.84505	2.38749	1.79566	1.77654		
	1.77856						1.93005	12.382
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Freon 11	4.52407	3.19920	3.08191	4.33758	3.14163	3.13506		
	3.11843						3.50541	18.127
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ RRF	% RSD
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	0.72710	0.67742	0.82838	0.62921	0.61169	0.61269	0.68108	12.460
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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Freon 113	2.55048	1.88189	1.93633	2.63180	1.95787	1.94185		
	1.94782						2.12115	15.220
50 1,1-Dichloroethene	0.93169	0.71196	0.70040	0.96176	0.70479	0.71157		
	0.71097						0.77616	15.063
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 Acetone	+++++	0.75071	0.75141	0.98353	0.74654	0.70482		
	0.70100						0.77300	13.669
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 Carbon Disulfide	+++++	3.19640	3.11683	4.21006	3.16201	3.13545		
	3.12314						3.32398	13.089
57 2-Propanol	+++++	3.05336	2.44629	3.53817	2.71860	2.73086		
	2.67854						2.86097	13.429

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
58 3-Chloropropene	0.66040	0.49170	0.58540	0.74640	0.51726	0.53285		
	0.52950						0.58050	15.833
59 Cyclopentene	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
60 2-Methylpentane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
61 Methyl Acetate	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
62 3-Methylpentane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
63 Acetonitrile	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
64 Cyclopentane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
65 1-Chloropropane	#####	#####	#####	#####	#####	#####		
	#####						#####	#####
66 Methylene Chloride	2.53141	1.92006	1.83522	2.48749	1.86965	1.82445		
	1.79869						2.03814	15.921
67 2-Methyl-1-pentene	#####	#####	#####	#####	#####	#####		
	#####						#####	#####

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
71 tert-Butyl alcohol	+++++	3.02839	3.01932	4.00925	3.05990	3.08000		
	3.11470						3.21859	12.083
72 Methyl tert-butyl ether	4.72075	3.35401	3.26608	4.41367	3.20279	3.17107		
	3.25417						3.62608	17.967
73 trans-1,2-Dichloroethene	0.91558	0.78908	0.70619	0.96961	0.73600	0.74756		
	0.72827						0.79890	12.829
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ RRF	% RSD
78 Hexane	4.21336	2.69815	2.45228	3.44567	2.50307	2.47236	2.50773	2.89894	23.388
79 Methylcyclopentane	#####	#####	#####	#####	#####	#####	#####	#####	#####
80 sec-Butyl chloride	#####	#####	#####	#####	#####	#####	#####	#####	#####
81 2,3,4-Trimethylpentane	#####	#####	#####	#####	#####	#####	#####	#####	#####
82 1,1-Dichloroethane	3.34229	2.57447	2.55324	3.44989	2.60276	2.49462	2.49162	2.78699	15.041
83 Isopropyl ether	#####	5.32525	5.49200	7.33102	5.48144	5.40407	5.46108	5.74914	13.522
84 1-Propanol	#####	#####	#####	#####	#####	#####	#####	#####	#####
85 Chloroprene	#####	#####	#####	#####	#####	#####	#####	#####	#####
86 Vinyl Acetate	#####	0.36456	0.28215	0.43625	0.33694	0.33026	0.33922	0.34823	14.594
87 Butanal	#####	#####	#####	#####	#####	#####	#####	#####	#####

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Curve Type : Average

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	200.000 Level 8	___ RRF	% RSD
88 Ethyl-tert-butyl ether	+++++	4.97476	4.82702	6.54256	4.96952	4.91974	5.03829	5.21198	12.579
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	0.99824	0.80720	0.83842	1.08959	0.82534	0.82328	0.83053	0.88751	12.445
92 2-Butanone	+++++	0.73413	0.60368	0.83007	0.62084	0.63438	0.62731	0.67507	13.164
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Curve Type : Average

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							
99 Tetrahydrofuran	2.81541	2.01886	2.04503	2.41829	1.87364	1.90464		
	1.88857						2.13778	16.504
100 Chloroform	3.71954	2.56840	2.67227	3.39282	2.62069	2.60916		
	2.61026						2.88474	16.267
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Cyclohexane	2.04607	1.67522	1.74186	2.25513	1.73239	1.68676		
	1.71861						1.83658	12.201
103 1,1,1-Trichloroethane	3.35458	2.73053	2.93602	3.72832	2.78135	2.80874		
	2.80536						3.02070	12.476
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 Carbon Tetrachloride	3.49277	2.87194	2.93739	3.79268	2.86672	2.94942		
	2.94955						3.12293	11.755
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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							
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 2,2,4-Trimethylpentane	11.98647	8.64002	8.51927	11.15502	8.48863	8.53425		
	8.66550						9.42702	15.756
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Benzene	1.29490	0.85610	0.87504	1.12105	0.85427	0.85456		
	0.86070						0.95952	18.461
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 tert-Amyl methyl ether	+++++	0.19857	0.21984	0.26957	0.20555	0.20833		
	0.21211						0.21899	11.762
120 1,2-Dichloroethane	0.54963	0.42761	0.46218	0.59165	0.44725	0.44662		
	0.45425						0.48274	12.874

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Curve Type : Average

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	200.000 Level 8	___ RRF	% RSD	
121 Heptane	0.63321	0.32812	0.33007	0.42261	0.31397	0.31538	0.31287	0.37946	31.210	<-
122 2,3-Dichloro-1-propene	#####	#####	#####	#####	#####	#####	#####	#####	#####	
124 n-Butanol	#####	#####	#####	#####	#####	#####	#####	#####	#####	
125 Trichloroethene	0.58611	0.41696	0.41980	0.53216	0.40947	0.40988	0.41034	0.45496	16.035	
126 Bromodichloroethene	#####	#####	#####	#####	#####	#####	#####	#####	#####	
127 Methylcyclohexane	0.72619	0.57448	0.52580	0.73637	0.54248	0.55099	0.56208	0.60263	14.808	
128 Ethyl acrylate	#####	#####	#####	#####	#####	#####	#####	#####	#####	
129 2-Methylheptane	#####	#####	#####	#####	#####	#####	#####	#####	#####	
130 3-Methylheptane	#####	#####	#####	#####	#####	#####	#####	#####	#####	
131 2-Pentanone	#####	#####	#####	#####	#####	#####	#####	#####	#####	

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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							
132 1,2-Dichloropropane	0.50374	0.41251	0.38952	0.53769	0.41382	0.41244		
	0.41285						0.44037	12.809
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
136 1,4-Dioxane	+++++	0.24619	0.21251	0.28407	0.22476	0.22361		
	0.23029						0.23691	10.801
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
138 Bromodichloromethane	0.90602	0.69136	0.67804	0.88303	0.68060	0.69105		
	0.69730						0.74677	13.574
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
140 bis(chloromethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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	200.000 Level 8	___ RRF	% RSD
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropene	0.67267	0.57014	0.59951	0.76050	0.59176	0.60991	0.61285	0.63105	10.334
145 4-Methyl-2-pentanone	0.53836	0.41824	0.36750	0.47863	0.38036	0.38922	0.39934	0.42452	14.587
147 Toluene	1.69253	1.17801	1.21144	1.55504	1.21052	1.22749	1.23848	1.33050	15.415
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloropropene	0.68817	0.56049	0.51579	0.67165	0.52924	0.54500	0.53942	0.57854	12.230
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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	200.000 Level 8	___ RRF	% RSD
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	0.59710	0.40291	0.43188	0.53713	0.41426	0.41953	0.41335	0.45945	16.552
156 Tetrachloroethene	0.83842	0.52154	0.57920	0.71825	0.55202	0.55556	0.56054	0.61793	18.803
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	0.65452	0.49165	0.50270	0.65778	0.52325	0.53560	0.53477	0.55718	12.473
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	0.96211	0.72566	0.72654	0.98692	0.76558	0.77580	0.77070	0.81619	13.509
161 1,2-Dibromoethane (EDB)	0.85520	0.60642	0.64426	0.83853	0.64150	0.65419	0.64904	0.69845	14.699
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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							
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 Chlorobenzene	1.25116	1.00379	0.99844	1.26937	0.98665	1.00147		
	0.99950						1.07291	11.950
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Ethyl Benzene	0.67512	0.54747	0.50855	0.69092	0.51705	0.52772		
	0.53075						0.57108	13.578
168 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
169 m,p-Xylene	0.87338	0.63515	0.63978	0.82082	0.64639	0.64999		
	0.64778						0.70190	14.314
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
171 o-Xylene	0.76525	0.58686	0.59994	0.80224	0.60618	0.61044		
	0.61231						0.65475	13.618
172 Styrene	1.34595	0.95150	0.95023	1.33807	1.02408	1.03478		
	1.03075						1.09648	15.637
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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							
174 Bromoform	0.90721	0.69855	0.70042	0.97155	0.74538	0.76199		
	0.75901						0.79202	13.322
175 Cumene	2.59468	1.93629	1.89107	2.48510	1.93623	1.93266		
	1.95315						2.10417	14.254
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
181 1,1,2,2-Tetrachloroethane	1.26998	0.96084	0.93946	1.23394	0.95789	0.95790		
	0.95657						1.03951	14.013
182 Propylbenzene	3.15953	2.26231	2.28666	2.99647	2.29643	2.32742		
	2.35692						2.52653	15.074
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
184 trans-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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							
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
188 4-Ethyltoluene	0.76152	0.60096	0.57180	0.78463	0.58909	0.59652		
	0.59954						0.64344	13.886
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
190 1,3,5-Trimethylbenzene	1.04833	0.80233	0.76822	1.04644	0.81818	0.82328		
	0.83878						0.87794	13.419
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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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							
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
196 1,2,4-Trimethylbenzene	0.96416	0.77401	0.73280	0.94858	0.74373	0.73934		
	0.74507						0.80681	12.776
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
206 bis(2-Chloroethyl) Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
208 1,3-Dichlorobenzene	1.35630	1.10405	1.12228	1.35878	1.09366	1.10719		
	1.10680						1.17844	10.407
209 1,4-Dichlorobenzene	1.43003	1.12591	1.10802	1.37019	1.09315	1.13011		
	1.12768						1.19787	11.674
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
212 alpha-Chlorotoluene	1.84444	1.46929	1.43205	1.92545	1.58627	1.64153		
	1.63954						1.64837	11.022
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
214 1,2-Dichlorobenzene	1.45165	1.05711	1.06148	1.31353	1.04511	1.08179		
	1.07138						1.15458	13.961

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ 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	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++	++++++

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
226 1,2,4-Trichlorobenzene	+++++	0.90607	0.94109	0.93467	0.89266	0.93778		
	0.99566						0.93465	3.814
227 Hexachlorobutadiene	+++++	0.81138	0.79135	0.82750	0.76613	0.80546		
	0.80907						0.80181	2.616
228 Naphthalene	+++++	1.61261	1.66566	2.03587	2.04961	2.14071		
	2.25282						1.95955	13.298
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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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							
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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ 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 : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

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	200.000 Level 8	___ 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	1.49212	1.53387	1.55668	1.51905	1.54119	1.55039	1.70930	1.55752	4.515
$ 146 Toluene-d8	1.09258	1.10928	1.13235	1.09935	1.10135	1.12914	1.12556	1.11280	1.442
$ 177 4-Bromofluorobenzene	0.63043	0.62145	0.61944	0.62015	0.61513	0.62316	0.62055	0.62147	0.749

Calibration History

Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Start Cal Date: 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 2 , Cal Amount: 0.50000		
17-FEB-2015 15:53	AT12low	/chem/msdp.i/17feb15.b/p021710.d
Cal Level: 3 , Cal Amount: 2.00000		
17-FEB-2015 16:17	AT12curve	/chem/msdp.i/17feb15.b/p021711.d
Cal Level: 4 , Cal Amount: 5.00000		
17-FEB-2015 16:40	AT12curve	/chem/msdp.i/17feb15.b/p021712.d
Cal Level: 5 , Cal Amount: 20.00000		
17-FEB-2015 17:56	AT12curve	/chem/msdp.i/17feb15.b/p021713.d
Cal Level: 6 , Cal Amount: 50.00000		
17-FEB-2015 18:19	AT12curve	/chem/msdp.i/17feb15.b/p021714.d
Cal Level: 7 , Cal Amount: 100.00000		
17-FEB-2015 18:43	AT12curve	/chem/msdp.i/17feb15.b/p021715.d
Cal Level: 8 , Cal Amount: 200.00000		
17-FEB-2015 19:06	AT12curve	/chem/msdp.i/17feb15.b/p021716.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

```
+------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.000                                        |
+==========================================================================+
|17-FEB-2015 18:19 |AT12             |/chem/msdp.i/17feb15.b/p021714a.d       |
+------------------+-----------------+----------------------------------------+
| Ccal Level: 6 , Ccal Amount: 50.000                                        |
+==========================================================================+
|17-FEB-2015 18:19 |AT12curve        |/chem/msdp.i/17feb15.b/p021714.d        |
+------------------+-----------------+----------------------------------------+
```

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 17-FEB-2015 15:53
End Cal Date : 17-FEB-2015 19:06
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdp.i/17feb15.b/p15q0217a.m
Cal Date : 18-Feb-2015 09:19 jscarbro
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdp.i/17feb15.b/p021710.d
Level 3: /chem/msdp.i/17feb15.b/p021711.d
Level 4: /chem/msdp.i/17feb15.b/p021712.d
Level 5: /chem/msdp.i/17feb15.b/p021713.d
Level 6: /chem/msdp.i/17feb15.b/p021714.d
Level 7: /chem/msdp.i/17feb15.b/p021715.d
Level 8: /chem/msdp.i/17feb15.b/p021716.d

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

JL 2/18/15

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	200.000 Level 8	___ RRF	% RSD
1 Dimethyl Ether	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 Freon 14	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 Acetaldehyde	*****	*****	*****	*****	*****	*****	*****	*****	*****
4 Hexafluoropropene	*****	*****	*****	*****	*****	*****	*****	*****	*****
5 Freon 13	*****	*****	*****	*****	*****	*****	*****	*****	*****
6 Freon 143a	*****	*****	*****	*****	*****	*****	*****	*****	*****
7 Freon 134a	*****	*****	*****	*****	*****	*****	*****	*****	*****

Initial Calibration Narrative

P15Q0217A.m

A multi-point initial calibration was analyzed on MSD-P on 2/17/15.

ICAL: One (1) out – Heptane @ 31.2%

Naphthalene is calibrated at 0.2ppbv, 2.0ppbv, 5.0ppbv, 10ppbv, and 20ppbv.

ICV: Zero (0) out:

ICV File: P021719; 50mL: #2716-100 (50ppbv→200ppbv)
DOD and AFCEE: evaluated per project

MDL:
The current MDL was analyzed on 2/17/15 and 2/18/15.

MSDP

BFB verification of 176/174 ratio: (157589/162944)*100= 96.71%

IS/Surr Std#	2687-116	Exp. Date:	2/25/2015
BCM	128502		
1,4-DFB	592591		
C8-d5	600914		

Method TO-15/TO-14	
SOP# 6	
Vacuum:	NA
Please check all standards	
Surrogate# NA	Exp. Date: NA
Surrogate# NA	Exp. Date: NA

Verified CCV vs ICAL mid-point(-40%): NA

Method: P15Q0217a

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
✓	P021709	System Blank/BFB	36041	NA	Humid	50ml	1.00	js	js	2/17/15	1501	js	Files start @P021709; Remade blank; calibrated MFC
✓	P021710	ICAL Level#2	2716-58	NA	0.5ppbv (5.0ppbv)	20ml	1.00	gd	js	2/17/15	1553	gd	
✓	P021711	ICAL Level#3	2716-58	NA	2.0ppbv (5.0ppbv)	80ml	1.00	gd	js	2/17/15	1617	gd	
✓	P021712	ICAL Level#4	2716-58	NA	5.0ppbv (5.0ppbv)	200ml	1.00	gd	js	2/17/15	1640	gd	
✓	P021713	ICAL Level#5	2716-57	NA	20ppbv (200ppbv)	20ml	1.00	gd	gd	2/17/15	1756	gd	
✓	P021714	ICAL Level#6	2716-57	NA	50ppbv (200ppbv)	50ml	1.00	gd	gd	2/17/15	1819	gd	CCV
✓	P021715	ICAL Level#7	2716-57	NA	100ppbv (200ppbv)	100ml	1.00	gd	gd	2/17/15	1843	gd	
✓	P021716	ICAL Level#8	2716-57	NA	200ppbv (200ppbv)	200ml	1.00	gd	gd	2/17/15	1906	gd	
X	P021717	System Blank	36041	NA	Humid	200ml	1.00	gd	gd	2/17/15	2018	gd	
✓	P021718	System Blank	36041	NA	Humid	200ml	1.00	gd	gd	2/17/15	2128	gd	
✓	P021719	ICV	2716-100	NA	50ppbv (200ppbv)	50ml	1.00	gd	gd	2/17/15	2243	gd	

gd 2/18/15

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/msdp.i/17feb15.b/p021719.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 17-FEB-2015 22:43
Operator : gd Inst ID: msdp.i
Smp Info : 50ml #2716-100
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 6 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	
5.448	5.434 (1.000)	130	130212	25.0000		80.00- 120.00	100.00
5.448	5.434 (1.000)	128	99824			48.50- 108.50	76.66
5.448	5.434 (1.000)	49	249647			157.33- 217.33	191.72
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.315 (1.000)	114	597709	25.0000		80.00- 120.00	100.00
6.337	6.315 (1.000)	88	96747			0.00- 45.39	16.19
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.743 (1.000)	117	601492	25.0000		80.00- 120.00	100.00
8.772	8.743 (1.000)	82	334480			24.18- 84.18	55.61
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.964 (1.099)	65	202312	24.9390	24.939	80.00- 120.00	100.00
5.986	5.964 (1.099)	67	113805			27.69- 87.69	56.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.547	7.518 (1.191)	98	651856	24.5010	24.501	80.00- 120.00	100.00
7.547	7.518 (1.191)	70	71627			0.00- 41.30	10.99
7.547	7.518 (1.191)	100	439633			36.42- 96.42	67.44
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.725 (1.112)	174	376416	25.1742	25.174	80.00- 120.00	100.00
9.761	9.725 (1.112)	95	485902			101.88- 161.88	129.09
9.761	9.725 (1.112)	176	366057			68.14- 128.14	97.25
9 Propylene					CAS #: 115-07-1		
1.473	1.473 (0.270)	41	328937	48.5163	48.516	80.00- 120.00	100.00
1.473	1.473 (0.270)	42	231650			36.99- 96.99	70.42
1.473	1.473 (0.270)	39	225473			38.39- 98.39	68.55
11 Freon 12					CAS #: 75-71-8		
1.509	1.509 (0.277)	85	938187	50.3223	50.322	80.00- 120.00	100.00
1.509	1.509 (0.277)	87	297861			2.26- 62.26	31.75
15 Freon 114					CAS #: 76-14-2		
1.623	1.630 (0.298)	135	708604	52.7683	52.768	80.00- 120.00	100.00
1.623	1.630 (0.298)	137	226261			1.88- 61.88	31.93
17 Chloromethane					CAS #: 74-87-3		
1.702	1.709 (0.312)	50	378225	50.1779	50.178	80.00- 120.00	100.00
1.702	1.709 (0.312)	52	123395			2.05- 62.05	32.62
23 Butane					CAS #: 106-97-8		
1.788	1.788 (0.328)	58	94373	54.9478	54.948	80.00- 120.00	100.00
1.788	1.788 (0.328)	43	708729			755.09- 815.09	750.99
25 Vinyl Chloride					CAS #: 75-01-4		
1.824	1.824 (0.335)	62	419970	51.9636	51.964	80.00- 120.00	100.00
1.824	1.824 (0.335)	64	122212			0.00- 59.41	29.10
26 1,3-Butadiene					CAS #: 106-99-0		
1.845	1.852 (0.339)	54	364368	48.8436	48.844	80.00- 120.00	100.00
1.845	1.852 (0.339)	39	327830			59.70- 119.70	89.97
29 Bromomethane					CAS #: 74-83-9		
2.196	2.203 (0.403)	94	280271	52.9460	52.946	80.00- 120.00	100.00
2.196	2.203 (0.403)	96	262567			63.82- 123.82	93.68
30 Chloroethane					CAS #: 75-00-3		
2.311	2.318 (0.424)	64	192456	52.8730	52.873	80.00- 120.00	100.00
2.318	2.325 (0.425)	66	57362			0.16- 60.16	29.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.311	2.318 (0.424)	49	60437			3.29- 63.29	31.40
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.431)	43	506777	50.4125	50.412	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	355265			36.45- 96.45	70.10
35 Freon 11					CAS #: 75-69-4		
2.569	2.576 (0.471)	101	903508	49.4860	49.486	80.00- 120.00	100.00
2.569	2.576 (0.471)	103	583444			33.91- 93.91	64.58
42 Ethanol					CAS #: 64-17-5		
2.891	2.898 (0.531)	45	181924	51.2838	51.284	80.00- 120.00	100.00
2.891	2.891 (0.531)	43	36840			0.00- 47.60	20.25
2.891	2.898 (0.531)	46	68693			8.33- 68.33	37.76
49 Freon 113					CAS #: 76-13-1		
3.221	3.228 (0.591)	151	537652	48.6652	48.665	80.00- 120.00	100.00
3.221	3.228 (0.591)	153	341321			33.05- 93.05	63.48
3.221	3.221 (0.591)	101	679835			95.24- 155.24	126.45
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.249 (0.595)	98	202411	50.0691	50.069	80.00- 120.00	100.00
3.242	3.249 (0.595)	96	322736			130.75- 190.75	159.45
3.242	3.249 (0.595)	61	610437			284.15- 344.15	301.58
52 Acetone					CAS #: 67-64-1		
3.385	3.393 (0.621)	58	192990	47.9339	47.934	80.00- 120.00	100.00
3.385	3.393 (0.621)	43	588338			265.43- 325.43	304.85
56 Carbon Disulfide					CAS #: 75-15-0		
3.479	3.486 (0.638)	76	778542	44.9689	44.969	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.564	3.564 (0.654)	45	763607	51.2443	51.244	80.00- 120.00	100.00
3.564	3.564 (0.654)	43	131035			0.00- 46.95	17.16
3.564	3.564 (0.654)	59	29851			0.00- 33.74	3.91
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.729 (0.683)	76	139468	46.1275	46.127	80.00- 120.00	100.00
3.722	3.729 (0.683)	41	517397			356.64- 416.64	370.98
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.908 (0.716)	49	501670	47.2578	47.258	80.00- 120.00	100.00
3.901	3.908 (0.716)	84	272733			22.55- 82.55	54.37
3.901	3.908 (0.716)	51	151598			0.62- 60.62	30.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.758)	73	886940	46.9620	46.962	80.00- 120.00	100.00
4.130	4.130 (0.758)	57	270150			0.85- 60.85	30.46
4.130	4.130 (0.758)	41	237823			0.00- 58.46	26.81
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.762)	98	175377	42.1473	42.147	80.00- 120.00	100.00
4.152	4.152 (0.762)	61	481100			252.16- 312.16	274.32
4.152	4.152 (0.762)	96	281990			127.62- 187.62	160.79
78 Hexane					CAS #: 110-54-3		
4.374	4.367 (0.803)	57	687252	45.5161	45.516	80.00- 120.00	100.00
4.367	4.367 (0.801)	43	432971			34.48- 94.48	63.00
4.374	4.374 (0.803)	86	79307			0.00- 41.87	11.54
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.632 (0.851)	63	688294	47.4164	47.416	80.00- 120.00	100.00
4.639	4.639 (0.851)	65	198666			0.00- 58.87	28.86
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.859)	86	89405	49.2930	49.293	80.00- 120.00	100.00
4.682	4.675 (0.859)	43	1220336			2032.08-2092.08	1364.95
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.205 (0.958)	98	249548	53.9844	53.984	80.00- 120.00	100.00
5.219	5.205 (0.958)	96	390703			130.68- 190.68	156.56
5.219	5.205 (0.958)	61	613487			218.42- 278.42	245.84
92 2-Butanone					CAS #: 78-93-3		
5.241	5.233 (0.962)	72	166624	47.3891	47.389	80.00- 120.00	100.00
5.241	5.233 (0.962)	43	874944			505.18- 565.18	525.10
5.241	5.233 (0.962)	57	75506			13.03- 73.03	45.32
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.427 (1.000)	42	494457	44.4074	44.407	80.00- 120.00	100.00
5.448	5.427 (1.000)	71	149373			0.00- 59.69	30.21
5.448	5.427 (1.000)	72	159974			0.00- 59.70	32.35
100 Chloroform					CAS #: 67-66-3		
5.513	5.498 (1.012)	83	703567	46.8261	46.826	80.00- 120.00	100.00
5.513	5.498 (1.012)	85	457799			34.76- 94.76	65.07
102 Cyclohexane					CAS #: 110-82-7		
5.627	5.606 (1.033)	84	462714	48.3718	48.372	80.00- 120.00	100.00
5.620	5.606 (1.032)	56	772783			133.05- 193.05	167.01
5.620	5.606 (1.032)	41	366806			49.59- 109.59	79.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.620 (1.035)	97	759085	48.2471	48.247	80.00- 120.00	100.00
5.642	5.620 (1.035)	99	479040			34.17- 94.17	63.11
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.756	5.735 (1.057)	119	784700	48.2426	48.243	80.00- 120.00	100.00
5.756	5.735 (1.057)	117	804233			75.20- 135.20	102.49
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.957	5.935 (1.093)	57	2320743	47.2652	47.265	80.00- 120.00	100.00
5.957	5.935 (1.093)	56	764488			3.38- 63.38	32.94
5.957	5.935 (1.093)	41	534719			0.00- 53.72	23.04
116 Benzene					CAS #: 71-43-2		
5.964	5.950 (0.941)	78	1050351	45.7859	45.786	80.00- 120.00	100.00
5.964	5.950 (0.941)	77	247991			0.00- 52.99	23.61
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.513	6.021 (0.870)	87	74075	14.1478	14.148	80.00- 120.00	100.00
5.627	6.021 (0.888)	73	375			374.74- 434.74	0.51
5.620	6.021 (0.887)	55	287234			108.16- 168.16	387.76
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.050	6.029 (0.955)	62	547140	47.4063	47.406	80.00- 120.00	100.00
6.050	6.029 (0.955)	64	171830			0.03- 60.03	31.41
121 Heptane					CAS #: 142-82-5		
6.122	6.100 (0.966)	71	387228	42.6823	42.682	80.00- 120.00	100.00
6.122	6.100 (0.966)	43	870878			198.64- 258.64	224.90
6.122	6.100 (0.966)	57	486745			94.82- 154.82	125.70
125 Trichloroethene					CAS #: 79-01-6		
6.530	6.508 (1.031)	95	505279	46.4523	46.452	80.00- 120.00	100.00
6.537	6.508 (1.032)	130	504108			72.98- 132.98	99.77
6.530	6.508 (1.031)	97	321786			33.56- 93.56	63.68
127 Methylcyclohexane					CAS #: 108-87-2		
6.637	6.616 (1.047)	83	676074	46.9241	46.924	80.00- 120.00	100.00
6.637	6.616 (1.047)	98	317102			16.64- 76.64	46.90
6.637	6.616 (1.047)	55	737544			81.85- 141.85	109.09
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.738 (1.068)	63	506542	48.1116	48.112	80.00- 120.00	100.00
6.766	6.738 (1.068)	62	359945			41.08- 101.08	71.06
6.766	6.738 (1.068)	41	273598			22.96- 82.96	54.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.824 (1.081)	88	271372	47.9115	47.911	80.00- 120.00	100.00
6.852	6.824 (1.081)	58	232312			59.66- 119.66	85.61
6.852	6.824 (1.081)	57	76337			0.00- 57.34	28.13
138 Bromodichloromethane					CAS #: 75-27-4		
6.988	6.967 (1.103)	83	841519	47.1332	47.133	80.00- 120.00	100.00
6.988	6.967 (1.103)	85	534568			34.26- 94.26	63.52
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.339 (1.163)	75	691268	45.8177	45.818	80.00- 120.00	100.00
7.368	7.339 (1.163)	77	216871			2.22- 62.22	31.37
7.368	7.339 (1.163)	39	384500			27.77- 87.77	55.62
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.447 (1.180)	58	450337	44.3696	44.370	80.00- 120.00	100.00
7.476	7.447 (1.180)	43	1147747			224.74- 284.74	254.86
7.476	7.447 (1.180)	85	158749			3.81- 63.81	35.25
147 Toluene					CAS #: 108-88-3		
7.604	7.576 (1.200)	91	1461477	45.9438	45.944	80.00- 120.00	100.00
7.604	7.576 (1.200)	92	839530			28.71- 88.71	57.44
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.812 (0.893)	75	652543	46.8802	46.880	80.00- 120.00	100.00
7.841	7.812 (0.893)	77	209323			1.83- 61.83	32.08
7.841	7.812 (0.893)	39	348099			23.84- 83.84	53.34
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
7.998	7.963 (0.911)	97	501482	45.3655	45.365	80.00- 120.00	100.00
7.998	7.963 (0.911)	99	311694			31.26- 91.26	62.15
7.991	7.963 (0.910)	83	429329			55.61- 115.61	85.61
156 Tetrachloroethene					CAS #: 127-18-4		
8.041	8.013 (0.916)	166	679387	45.6968	45.697	80.00- 120.00	100.00
8.041	8.013 (0.916)	129	522876			46.18- 106.18	76.96
8.041	8.013 (0.916)	131	508330			43.79- 103.79	74.82
158 2-Hexanone					CAS #: 591-78-6		
8.163	8.134 (0.930)	58	640229	47.7583	47.758	80.00- 120.00	100.00
8.163	8.127 (0.930)	43	1127436			148.17- 208.17	176.10
8.163	8.134 (0.930)	100	101254			0.00- 45.64	15.82
160 Dibromochloromethane					CAS #: 124-48-1		
8.306	8.278 (0.946)	129	930237	47.3710	47.371	80.00- 120.00	100.00
8.306	8.278 (0.946)	127	726083			47.19- 107.19	78.05

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		
8.421	8.392 (0.959)	107	796228	47.3820	47.382	80.00- 120.00	100.00
8.421	8.392 (0.959)	109	743275			63.97- 123.97	93.35
165 Chlorobenzene					CAS #: 108-90-7		
8.801	8.765 (1.002)	112	1184143	45.8724	45.872	80.00- 120.00	100.00
8.801	8.765 (1.002)	114	385151			2.01- 62.01	32.53
8.801	8.765 (1.002)	77	684329			28.41- 88.41	57.79
167 Ethyl Benzene					CAS #: 100-41-4		
8.851	8.815 (1.008)	106	627908	45.6989	45.699	80.00- 120.00	100.00
8.851	8.815 (1.008)	91	1968831			279.43- 339.43	313.55
169 m,p-Xylene					CAS #: 108-38-3		
8.951	8.915 (1.020)	106	780363	46.2097	46.210	80.00- 120.00	100.00
8.951	8.915 (1.020)	91	1552900			168.86- 228.86	199.00
171 o-Xylene					CAS #: 95-47-6		
9.288	9.252 (1.058)	106	765119	48.5698	48.570	80.00- 120.00	100.00
9.288	9.252 (1.058)	91	1586897			184.06- 244.06	207.41
172 Styrene					CAS #: 100-42-5		
9.309	9.273 (1.060)	104	1244293	47.1664	47.166	80.00- 120.00	100.00
9.309	9.273 (1.060)	78	618815			19.31- 79.31	49.73
174 Bromoform					CAS #: 75-25-2		
9.503	9.467 (1.082)	173	912363	47.8789	47.879	80.00- 120.00	100.00
9.503	9.467 (1.082)	171	467690			21.41- 81.41	51.26
175 Cumene					CAS #: 98-82-8		
9.574	9.546 (1.091)	105	2364416	46.7039	46.704	80.00- 120.00	100.00
9.574	9.546 (1.091)	120	634332			0.00- 56.55	26.83
9.574	9.538 (1.091)	51	273285			0.00- 41.64	11.56
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.846 (1.126)	83	1151242	46.0307	46.031	80.00- 120.00	100.00
9.882	9.846 (1.126)	85	753717			34.71- 94.71	65.47
182 Propylbenzene					CAS #: 103-65-1		
9.918	9.889 (1.130)	91	2862577	47.0915	47.091	80.00- 120.00	100.00
9.925	9.889 (1.131)	120	667932			0.00- 53.35	23.33
9.925	9.889 (1.131)	105	105438			0.00- 33.65	3.68
188 4-Ethyltoluene					CAS #: 622-96-8		
10.069	9.982 (1.147)	120	984402	63.5881	63.588	80.00- 120.00	100.00
10.069	9.982 (1.147)	105	2110213			299.74- 359.74	214.36

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		
10.069	10.033 (1.147)	120	984402	46.6036	46.604	80.00- 120.00	100.00
10.069	10.033 (1.147)	105	2110213			181.68- 241.68	214.36
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.398	10.362 (1.184)	120	884603	45.5707	45.571	80.00- 120.00	100.00
10.398	10.362 (1.184)	105	1983240			188.33- 248.33	224.20
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.685	10.649 (1.217)	146	1309012	46.1687	46.169	80.00- 120.00	100.00
10.685	10.649 (1.217)	148	842263			33.11- 93.11	64.34
10.685	10.649 (1.217)	111	549674			10.85- 70.85	41.99
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.763	10.735 (1.226)	146	1321048	45.8374	45.837	80.00- 120.00	100.00
10.763	10.735 (1.226)	148	832214			33.69- 93.69	63.00
10.763	10.735 (1.226)	111	516872			9.80- 69.80	39.13
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.878	10.849 (1.239)	91	1940652	48.9332	48.933	80.00- 120.00	100.00
10.878	10.856 (1.239)	126	407214			0.00- 51.03	20.98
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.093	11.071 (1.264)	146	1261295	45.4050	45.405	80.00- 120.00	100.00
11.093	11.071 (1.264)	148	807508			33.72- 93.72	64.02
11.093	11.071 (1.264)	111	536011			12.82- 72.82	42.50
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.497	12.497 (1.423)	180	1031459	45.8681	45.868	80.00- 120.00	100.00
12.497	12.497 (1.423)	182	979422			65.12- 125.12	94.96
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.590	12.590 (1.434)	225	881245	45.6807	45.681	80.00- 120.00	100.00
12.590	12.590 (1.434)	223	559211			32.73- 92.73	63.46
228 Naphthalene					CAS #: 91-20-3		
12.762	12.762 (1.454)	128	204057	4.32819	4.328	80.00- 120.00	100.00
12.762	12.762 (1.454)	127	24298			0.00- 42.37	11.91

Report Date: 23-Feb-2015 08:29

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021719.d
Lab Smp Id: ICV
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	130212	1.33
123 1,4-Difluorobenze	592591	355555	829627	597709	0.86
163 Chlorobenzene-d5	606914	364148	849680	601492	-0.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.45	0.14
123 1,4-Difluorobenze	6.32	5.99	6.65	6.34	0.23
163 Chlorobenzene-d5	8.74	8.41	9.07	8.78	0.41

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

Report Date: 23-Feb-2015 08:29

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 17feb15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: ICV
Client Smp ID: ICV
Level: LOW
Operator: gd
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

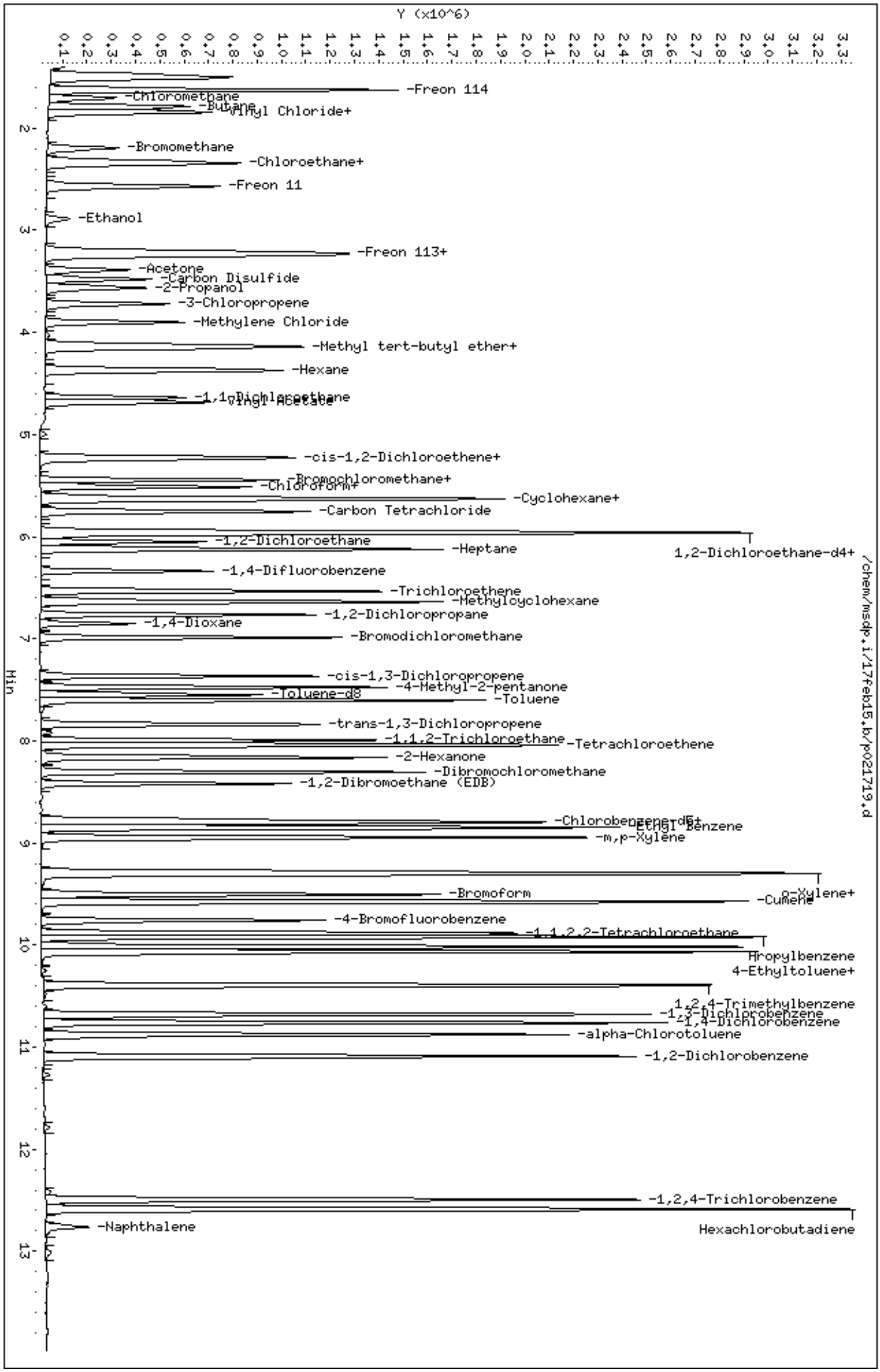
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	48.516	97.03	70-130
11 Freon 12	50.000	50.322	100.64	70-130
15 Freon 114	50.000	52.768	105.54	70-130
17 Chloromethane	50.000	50.178	100.36	70-130
23 Butane	50.000	54.948	109.90	70-130
25 Vinyl Chloride	50.000	51.964	103.93	70-130
26 1,3-Butadiene	50.000	48.844	97.69	70-130
29 Bromomethane	50.000	52.946	105.89	70-130
30 Chloroethane	50.000	52.873	105.75	70-130
31 Isopentane	50.000	50.412	100.82	70-130
35 Freon 11	50.000	49.486	98.97	70-130
42 Ethanol	50.000	51.284	102.57	70-130
49 Freon 113	50.000	48.665	97.33	70-130
50 1,1-Dichloroethene	50.000	50.069	100.14	70-130
52 Acetone	50.000	47.934	95.87	70-130
56 Carbon Disulfide	50.000	44.969	89.94	70-130
57 2-Propanol	50.000	51.244	102.49	70-130
58 3-Chloropropene	50.000	46.127	92.25	70-130
66 Methylene Chloride	50.000	47.258	94.52	70-130
72 Methyl tert-butyl	50.000	46.962	93.92	70-130
73 trans-1,2-Dichloro	50.000	42.147	84.29	70-130
78 Hexane	50.000	45.516	91.03	70-130
82 1,1-Dichloroethane	50.000	47.416	94.83	70-130
86 Vinyl Acetate	50.000	49.293	98.59	70-130
91 cis-1,2-Dichloroet	50.000	53.984	107.97	70-130
92 2-Butanone	50.000	47.389	94.78	70-130
99 Tetrahydrofuran	50.000	44.407	88.81	70-130
100 Chloroform	50.000	46.826	93.65	70-130
103 1,1,1-Trichloroeth	50.000	48.247	96.49	70-130
106 Carbon Tetrachlori	50.000	48.243	96.49	70-130
102 Cyclohexane	50.000	48.372	96.74	70-130
113 2,2,4-Trimethylpen	50.000	47.265	94.53	70-130
116 Benzene	50.000	45.786	91.57	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	47.406	94.81	70-130
121 Heptane	50.000	42.682	85.36	70-130
125 Trichloroethene	50.000	46.452	92.90	70-130
127 Methylcyclohexane	50.000	46.924	93.85	70-130
132 1,2-Dichloropropan	50.000	48.112	96.22	70-130
136 1,4-Dioxane	50.000	47.911	95.82	70-130
138 Bromodichlorometha	50.000	47.133	94.27	70-130
144 cis-1,3-Dichloropr	50.000	45.818	91.64	70-130
145 4-Methyl-2-pentano	50.000	44.370	88.74	70-130
147 Toluene	50.000	45.944	91.89	70-130
150 trans-1,3-Dichloro	50.000	46.880	93.76	70-130
155 1,1,2-Trichloroeth	50.000	45.365	90.73	70-130
156 Tetrachloroethene	50.000	45.697	91.39	70-130
158 2-Hexanone	50.000	47.758	95.52	70-130
160 Dibromochlorometha	50.000	47.371	94.74	70-130
161 1,2-Dibromoethane	50.000	47.382	94.76	70-130
165 Chlorobenzene	50.000	45.872	91.74	70-130
167 Ethyl Benzene	50.000	45.699	91.40	70-130
169 m,p-Xylene	50.000	46.210	92.42	70-130
171 o-Xylene	50.000	48.570	97.14	70-130
172 Styrene	50.000	47.166	94.33	70-130
174 Bromoform	50.000	47.879	95.76	70-130
175 Cumene	50.000	46.704	93.41	70-130
181 1,1,2,2-Tetrachlor	50.000	46.031	92.06	70-130
182 Propylbenzene	50.000	47.091	94.18	70-130
188 4-Ethyltoluene	50.000	63.588	127.18	70-130
190 1,3,5-Trimethylben	50.000	46.604	93.21	70-130
196 1,2,4-Trimethylben	50.000	45.571	91.14	70-130
208 1,3-Dichlorobenzen	50.000	46.169	92.34	70-130
209 1,4-Dichlorobenzen	50.000	45.837	91.67	70-130
212 alpha-Chlorotoluen	50.000	48.933	97.87	70-130
214 1,2-Dichlorobenzen	50.000	45.405	90.81	70-130
226 1,2,4-Trichloroben	50.000	45.868	91.74	70-130
227 Hexachlorobutadien	50.000	45.681	91.36	70-130
228 Naphthalene	5.000	4.328	86.56	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	24.939	99.76	70-130
$ 146 Toluene-d8	25.000	24.501	98.00	70-130
$ 177 4-Bromofluorobenze	25.000	25.174	100.70	70-130

Data File: /chem/msdp.i/17feb15.b/p021719.d
Date : 17-FEB-2015 22:43
Client ID: ICV
Sample Info: 50ml #2716-100
Column phase: RTX-624

Instrument: msdp.i
Operator: gd
Column diameter: 0.25



Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

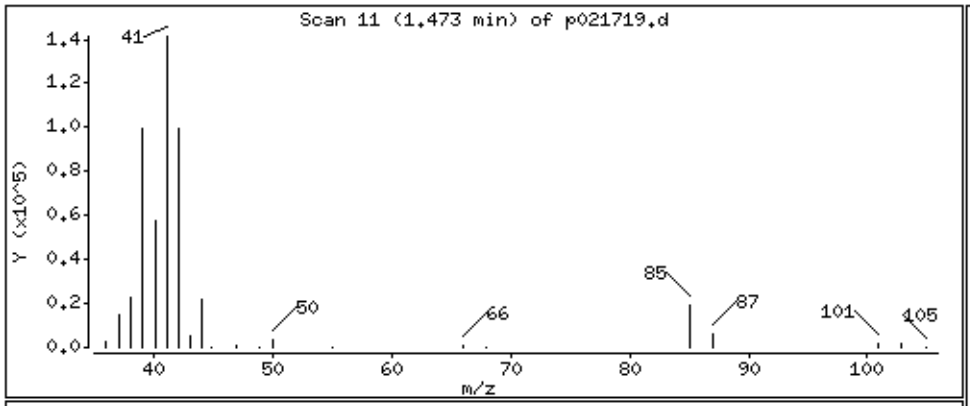
Operator: gd

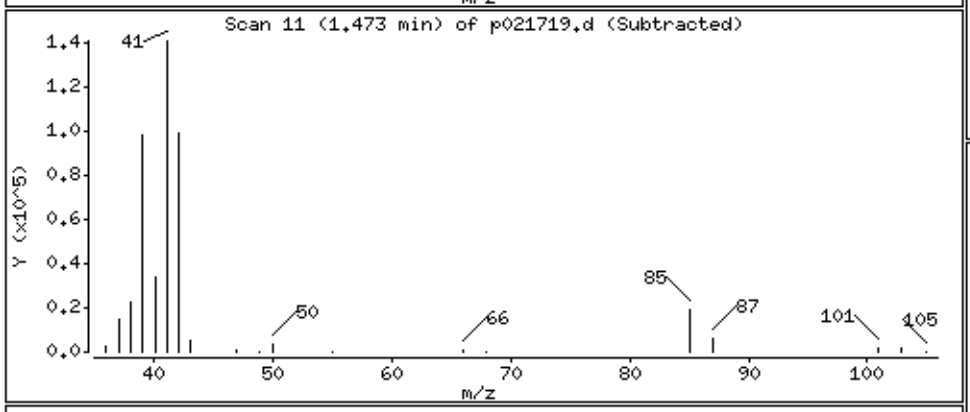
Column phase: RTX-624

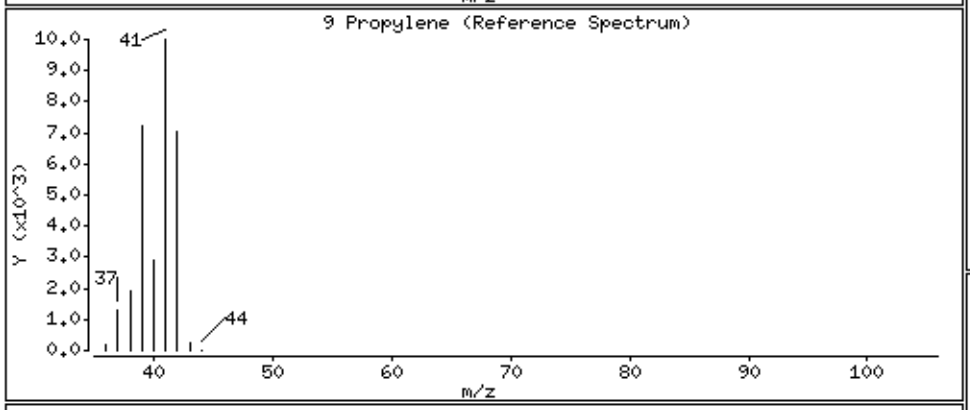
Column diameter: 0.25

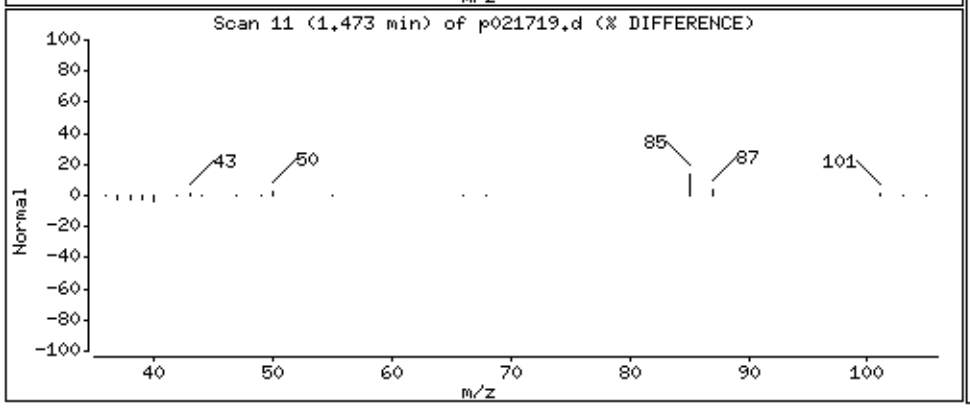
9 Propylene

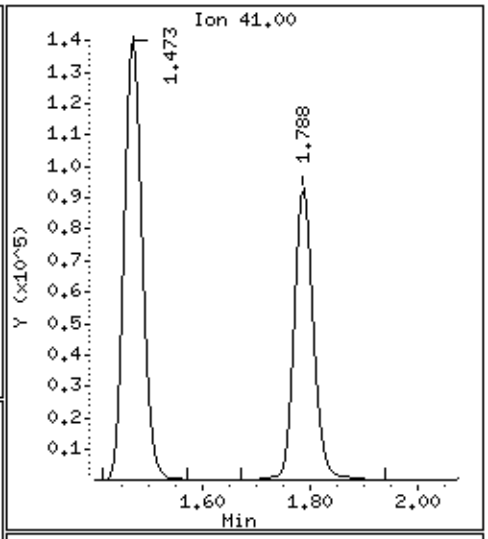
Concentration: 48.516 PPBV

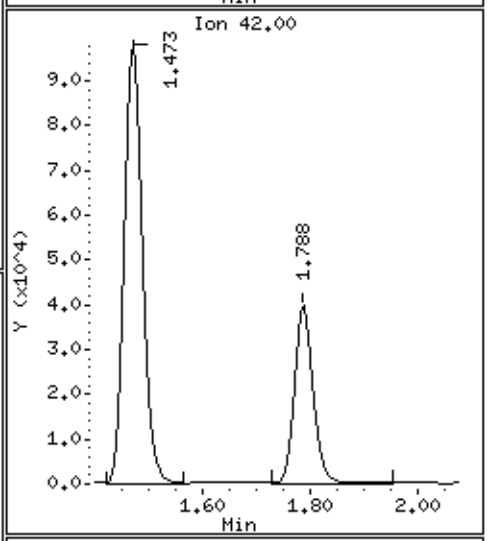


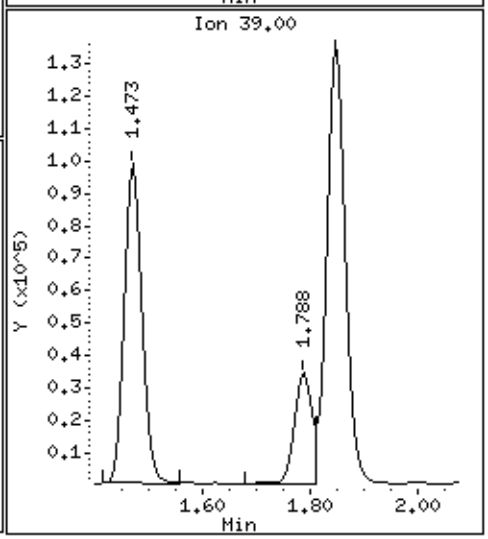












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

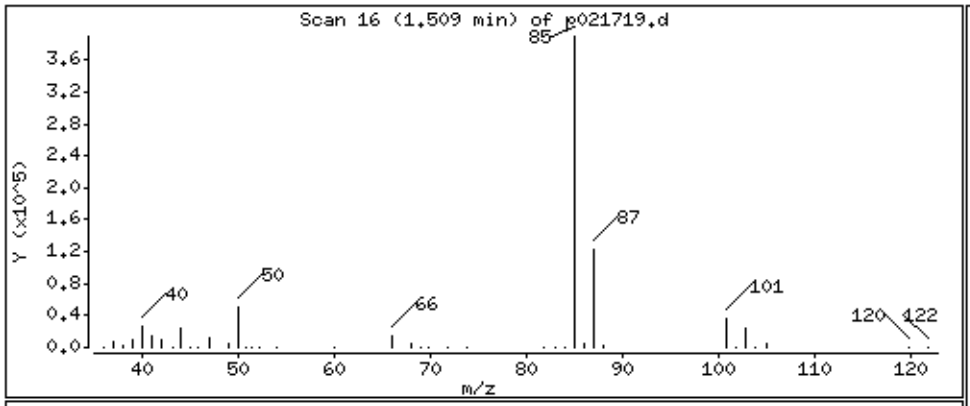
Operator: gd

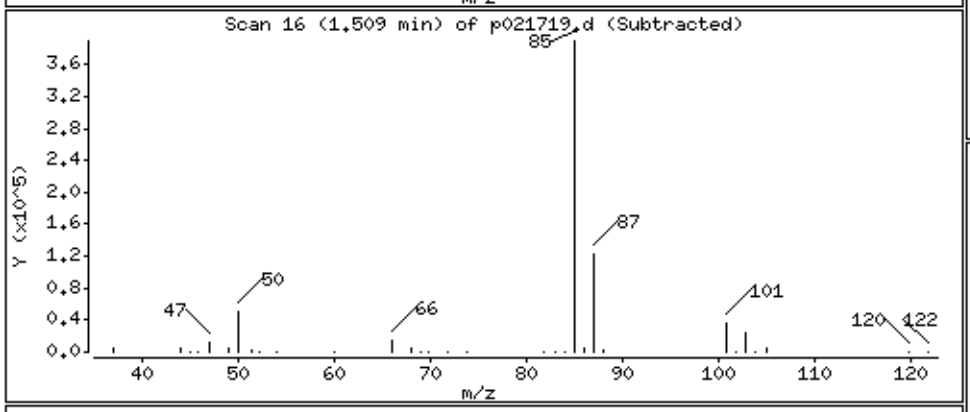
Column phase: RTX-624

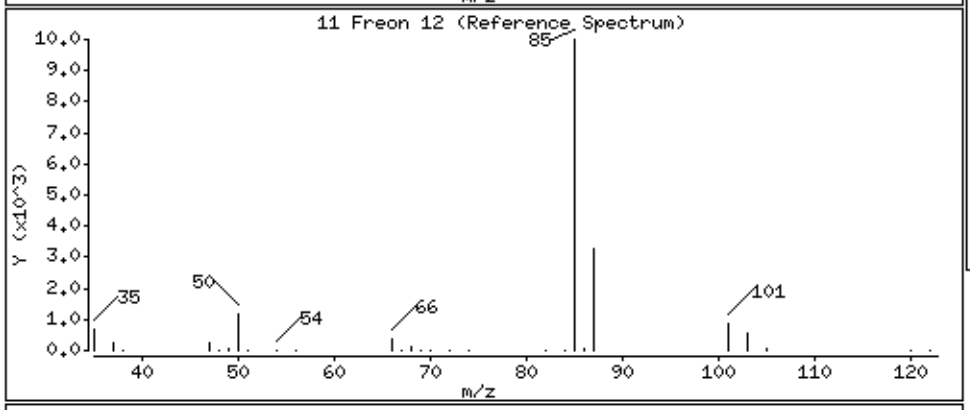
Column diameter: 0.25

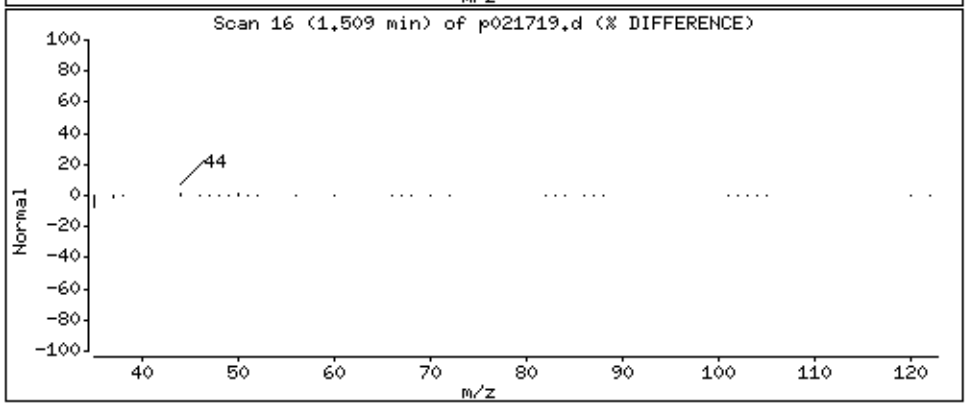
11 Freon 12

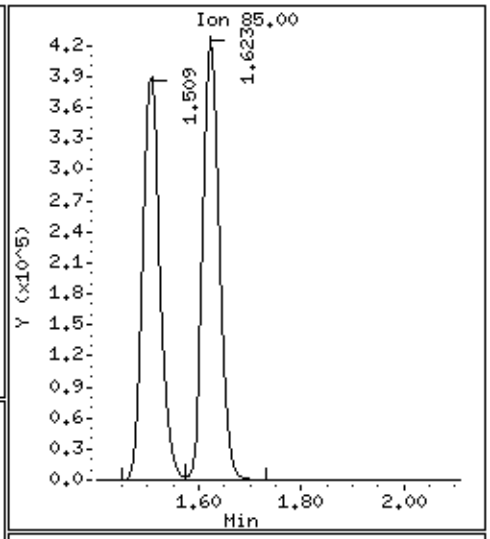
Concentration: 50.322 PPBV

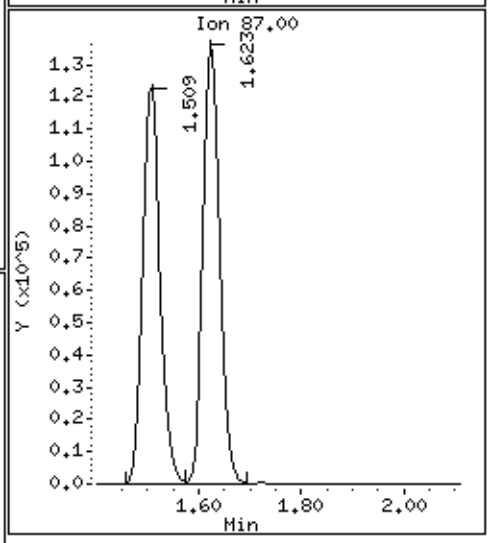












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

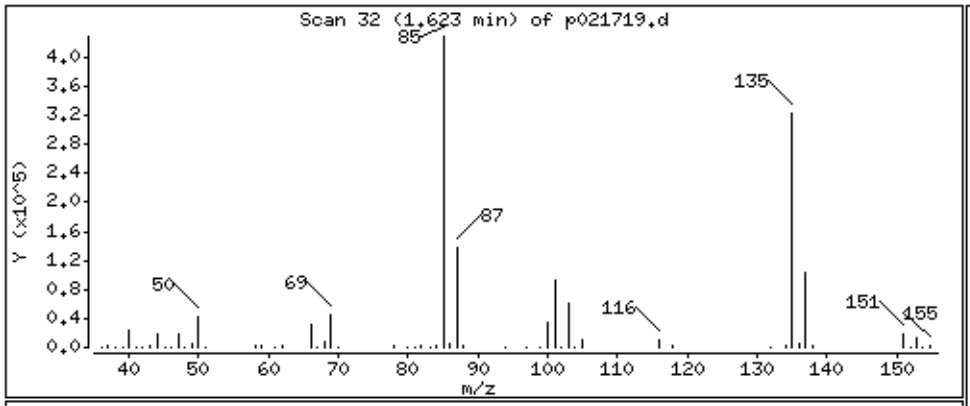
Operator: gd

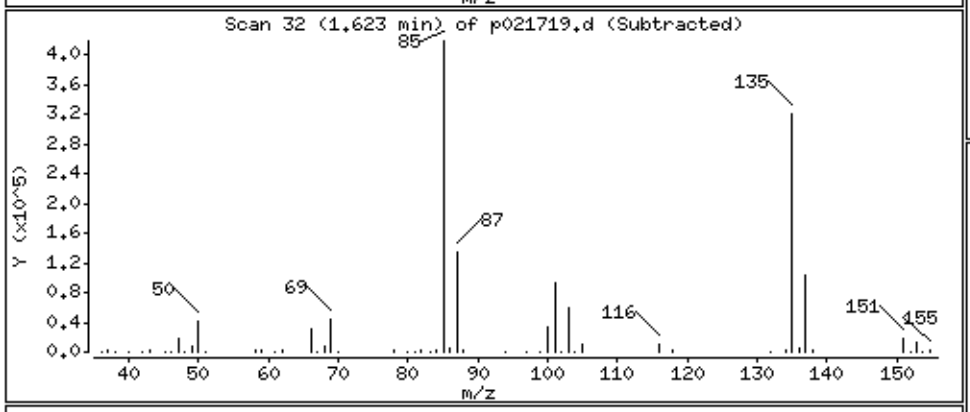
Column phase: RTX-624

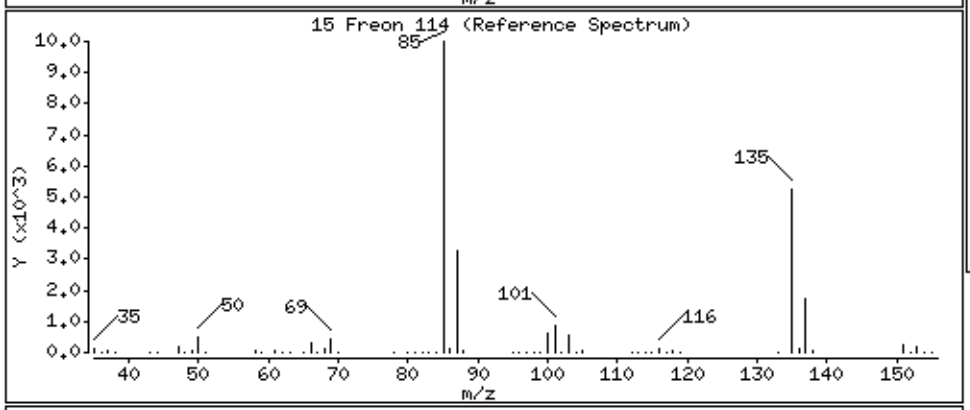
Column diameter: 0.25

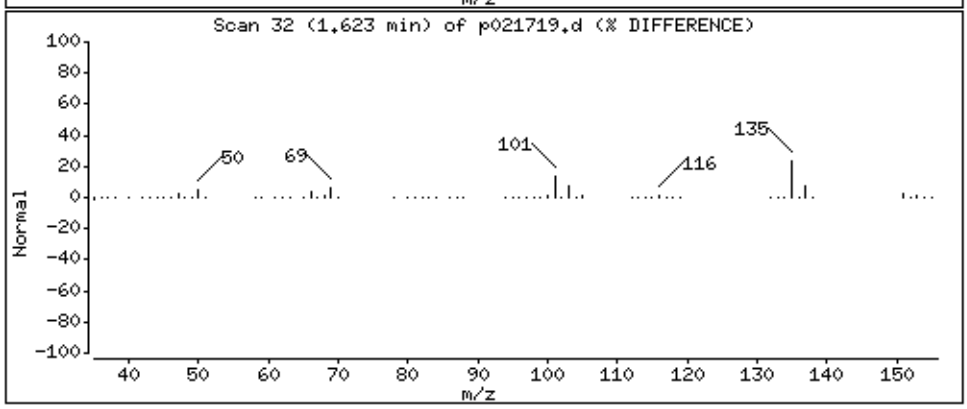
15 Freon 114

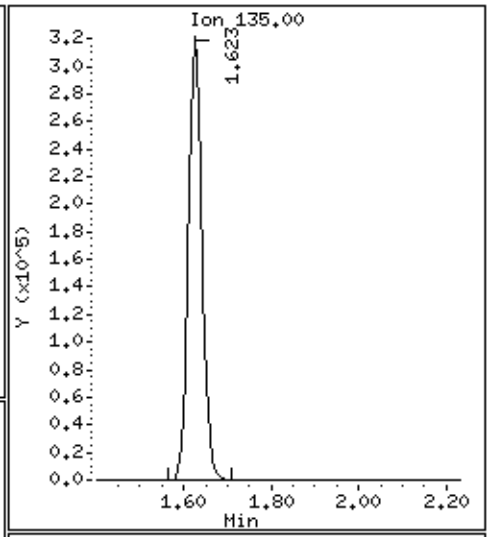
Concentration: 52.768 PPBV

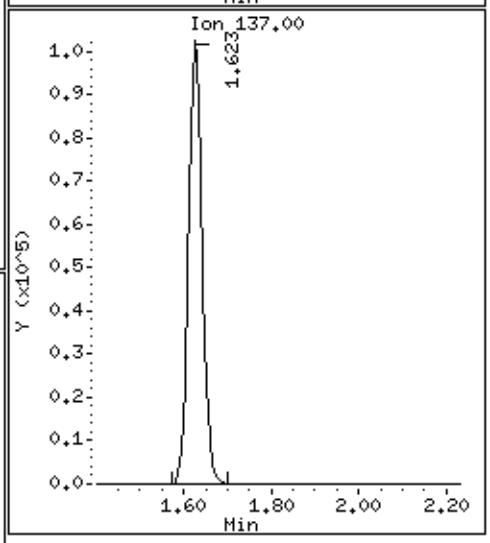












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

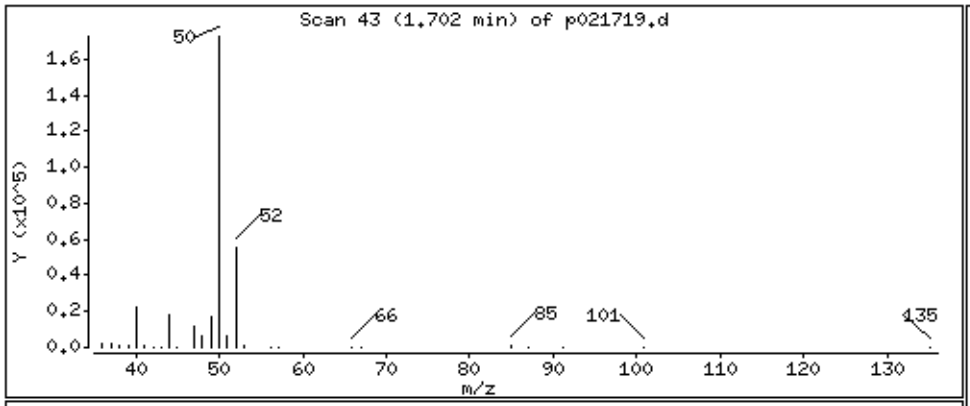
Operator: gd

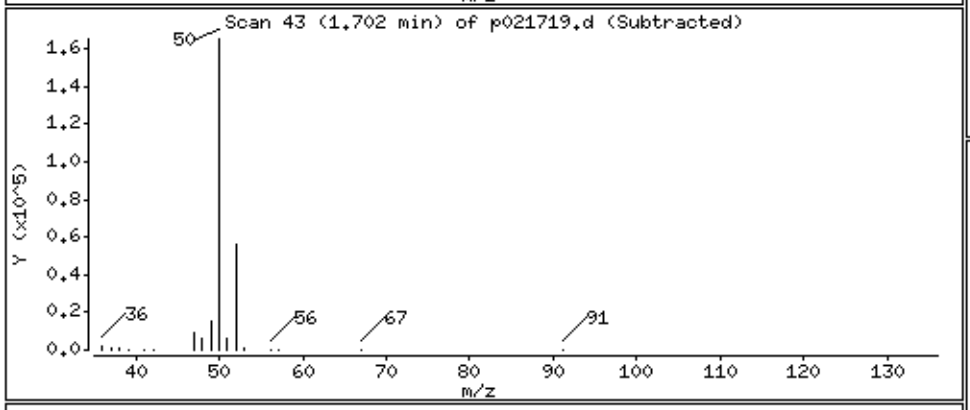
Column phase: RTX-624

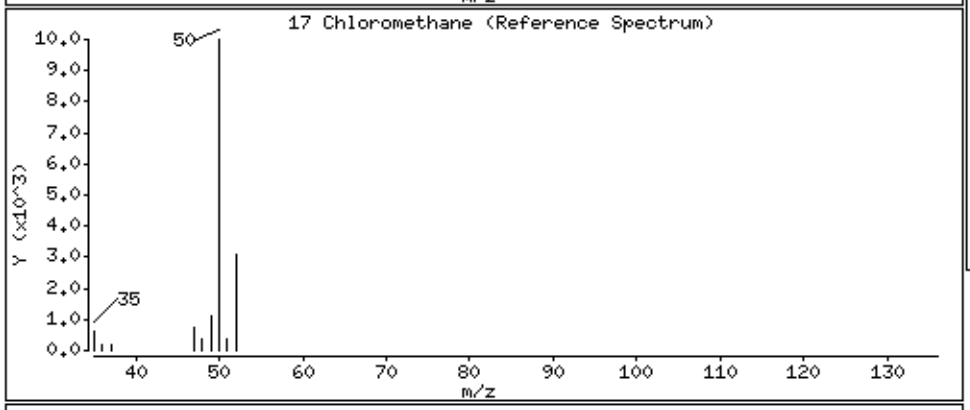
Column diameter: 0.25

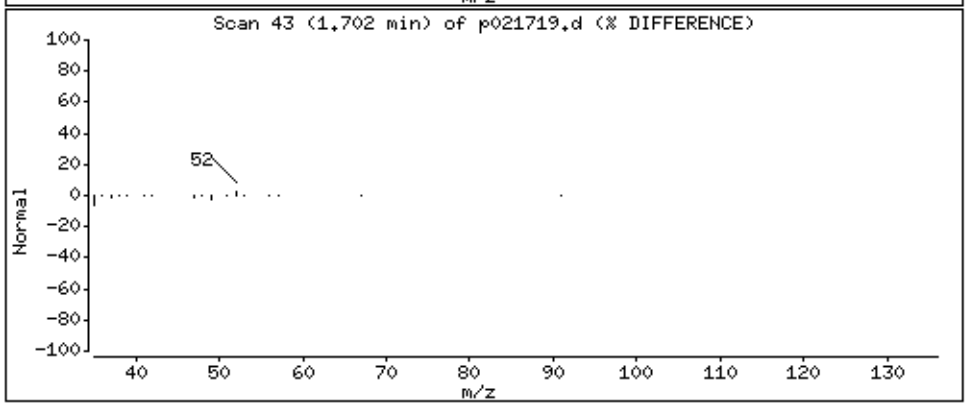
17 Chloromethane

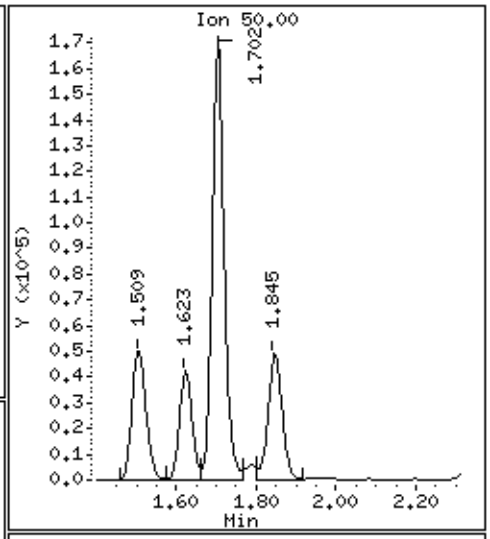
Concentration: 50.178 PPBV

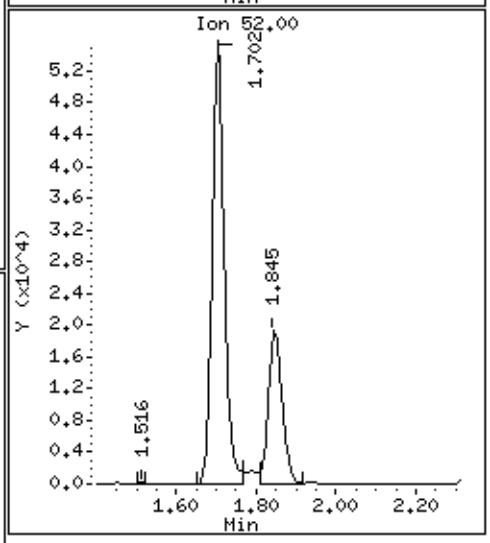












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

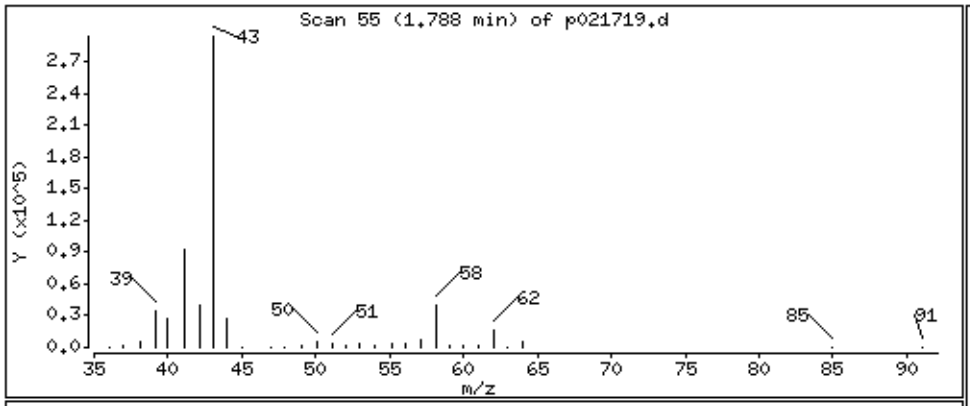
Operator: gd

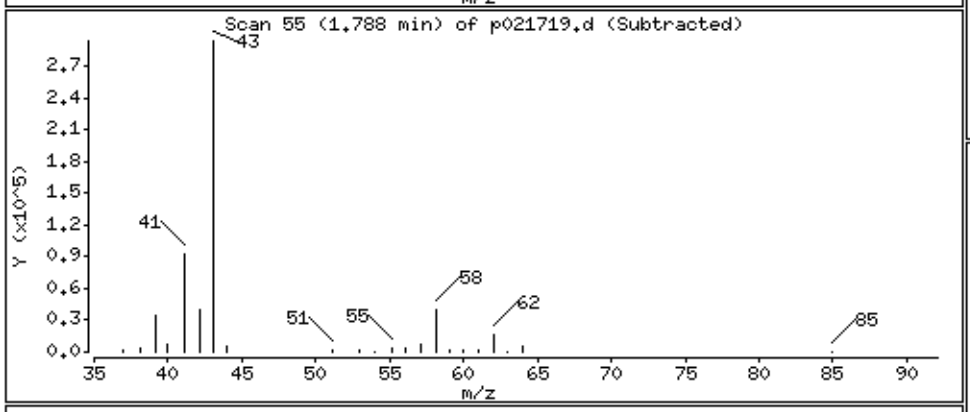
Column phase: RTX-624

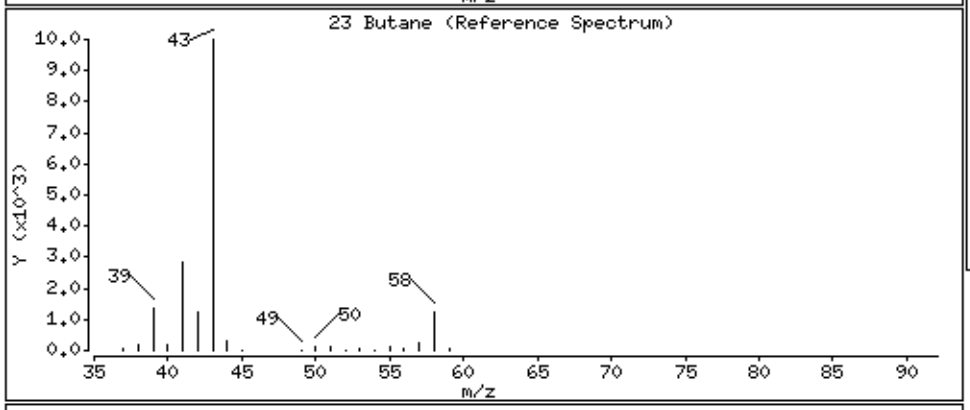
Column diameter: 0.25

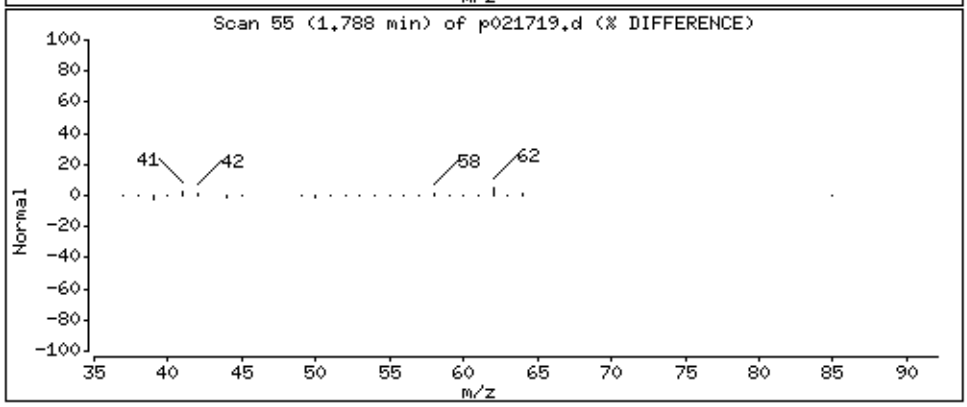
23 Butane

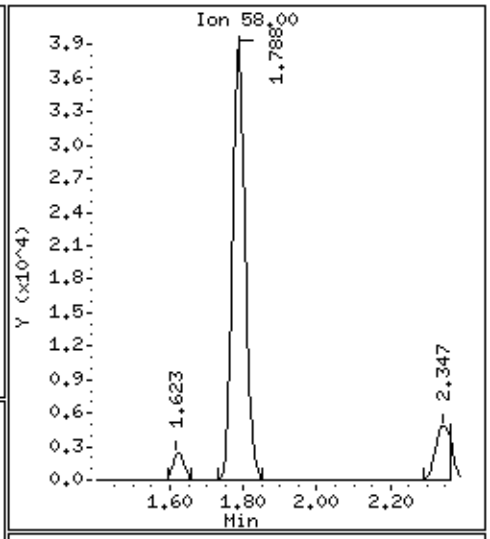
Concentration: 54.948 PPBV

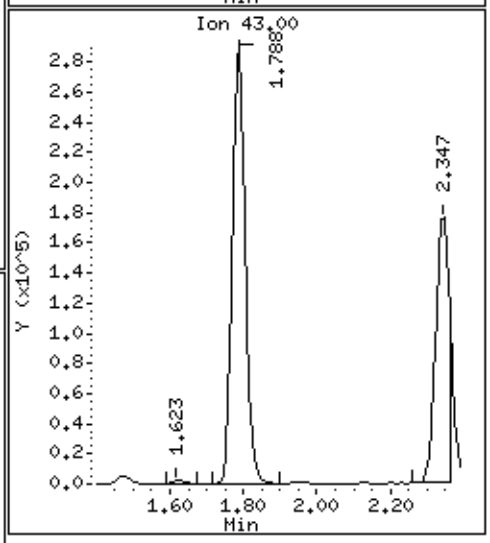












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

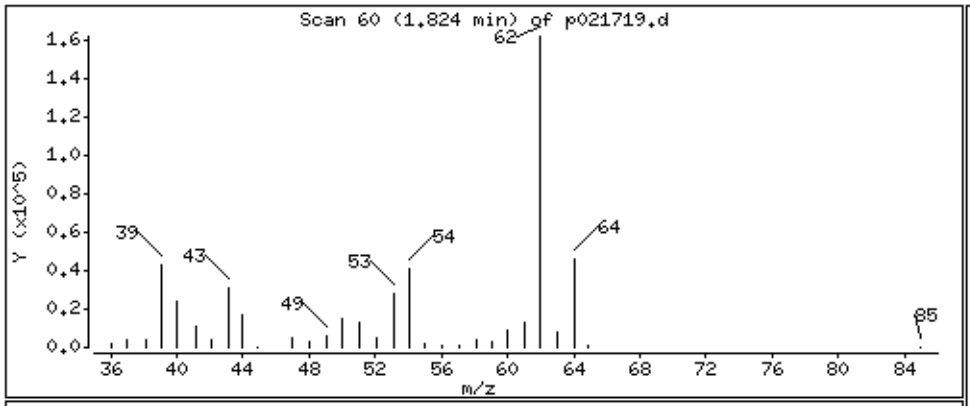
Operator: gd

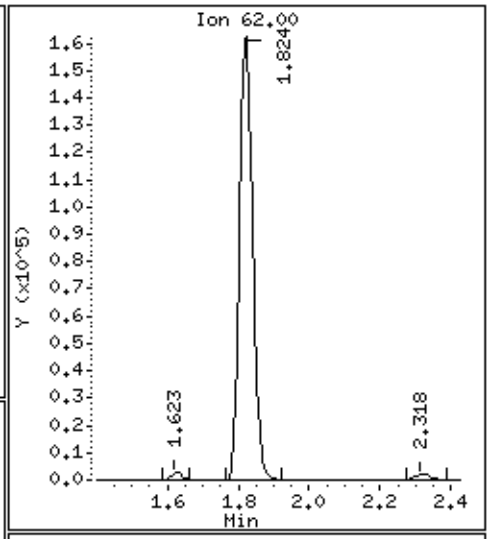
Column phase: RTX-624

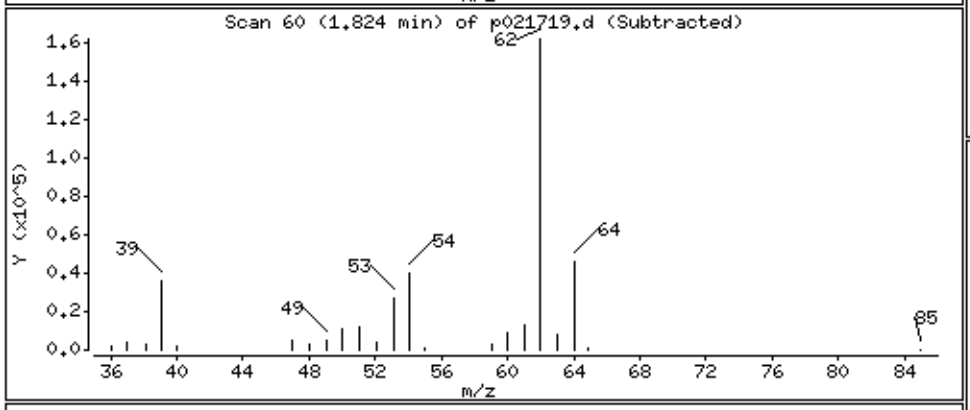
Column diameter: 0.25

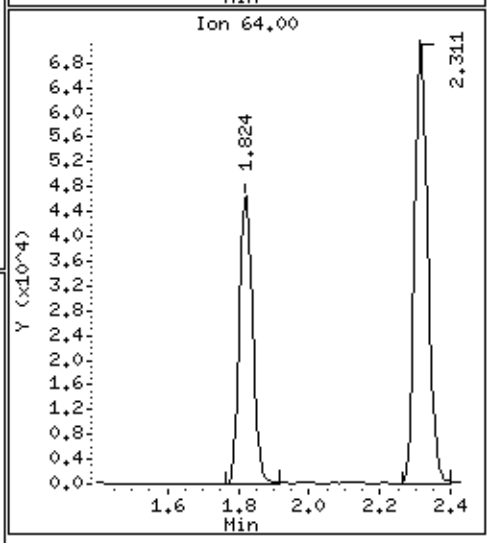
25 Vinyl Chloride

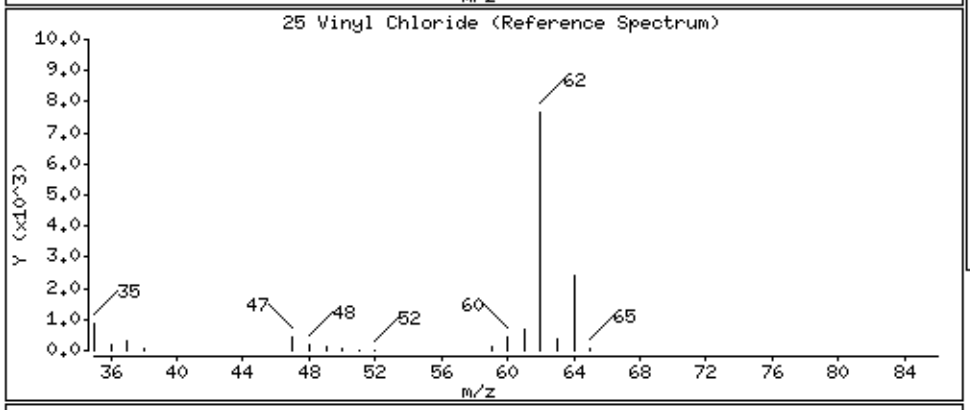
Concentration: 51.964 PPBV

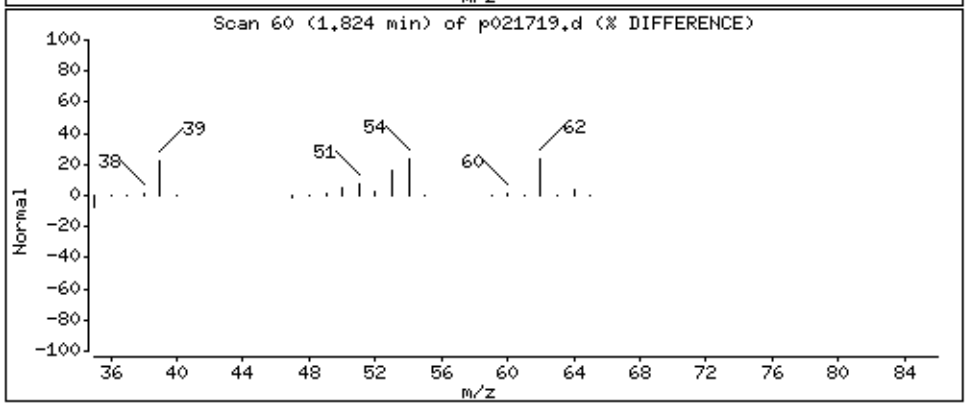












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

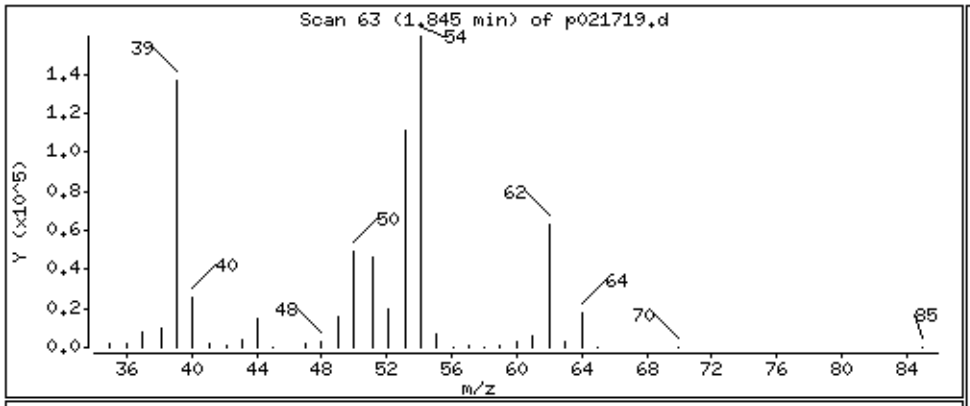
Operator: gd

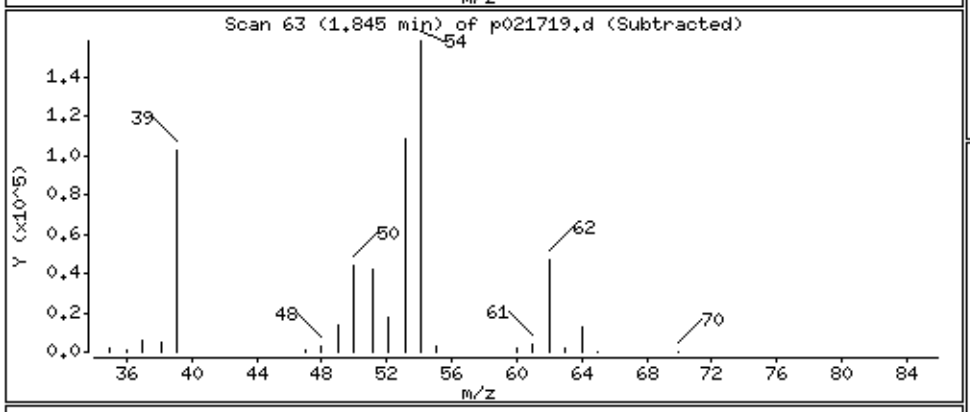
Column phase: RTX-624

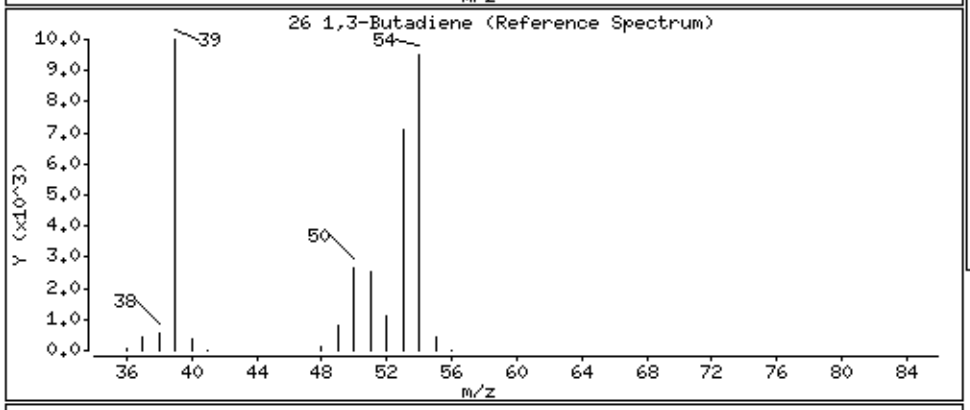
Column diameter: 0.25

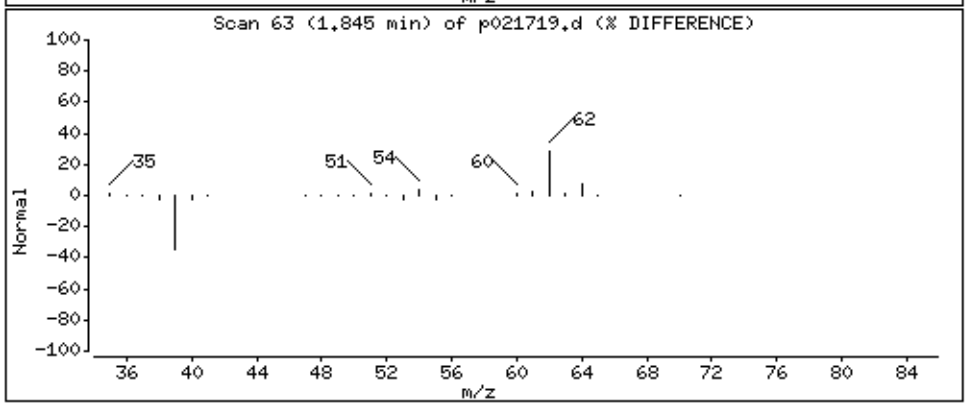
26 1,3-Butadiene

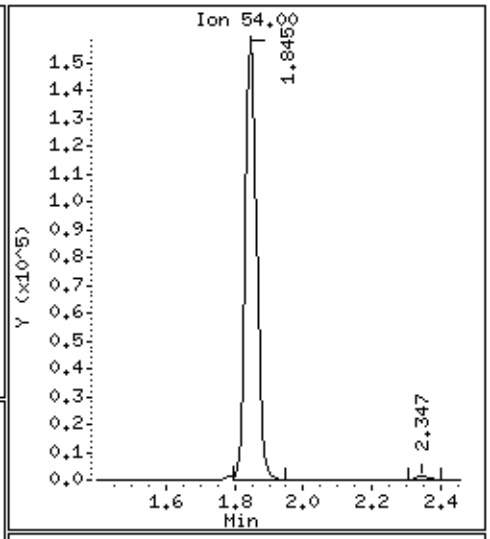
Concentration: 48.844 PPBV

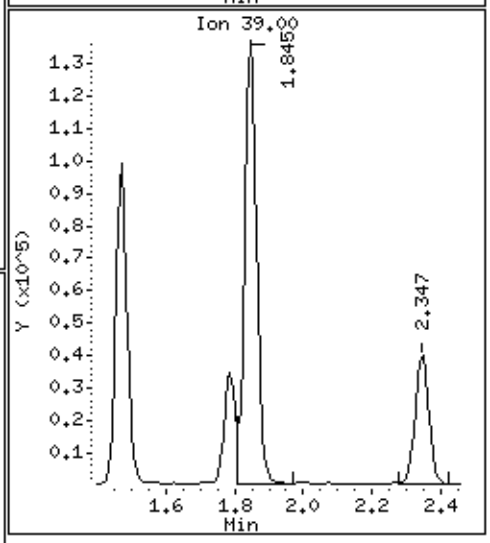












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

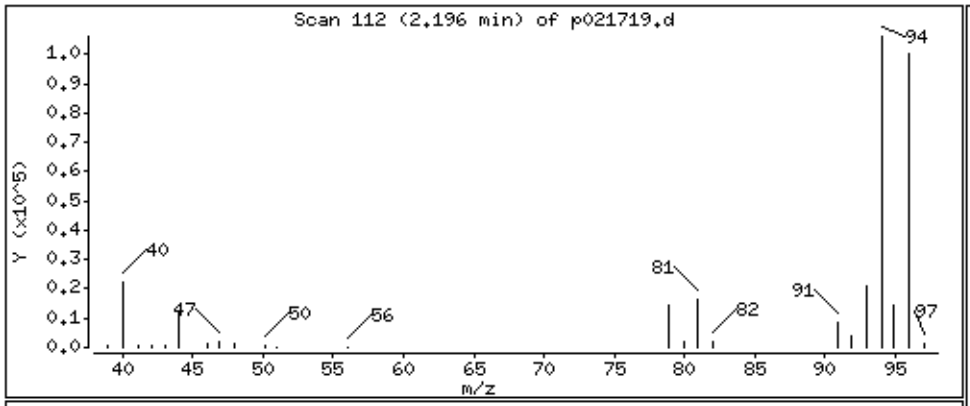
Operator: gd

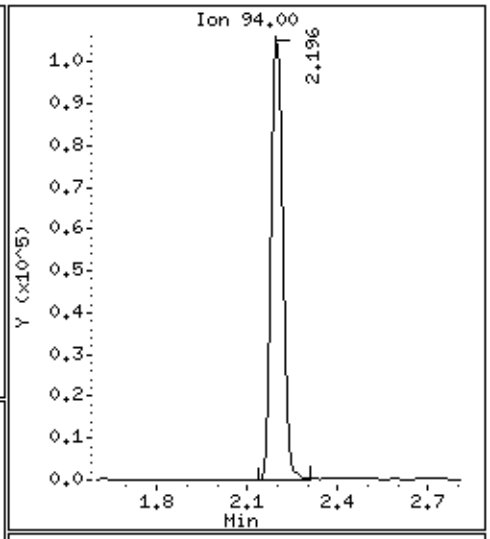
Column phase: RTX-624

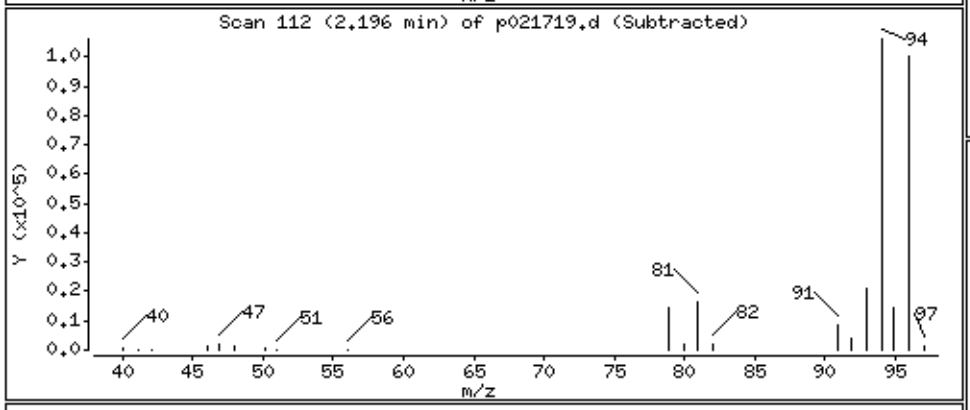
Column diameter: 0.25

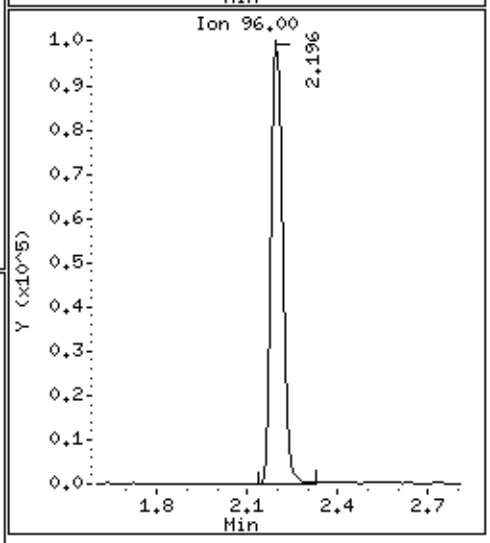
29 Bromomethane

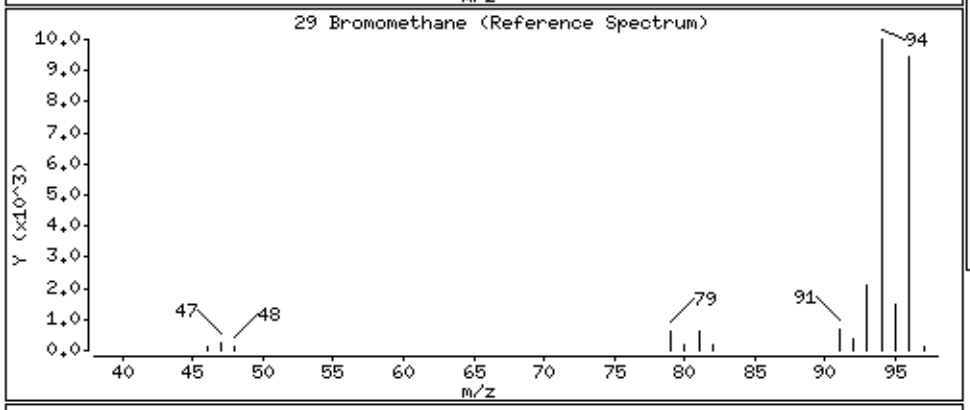
Concentration: 52.946 PPBV

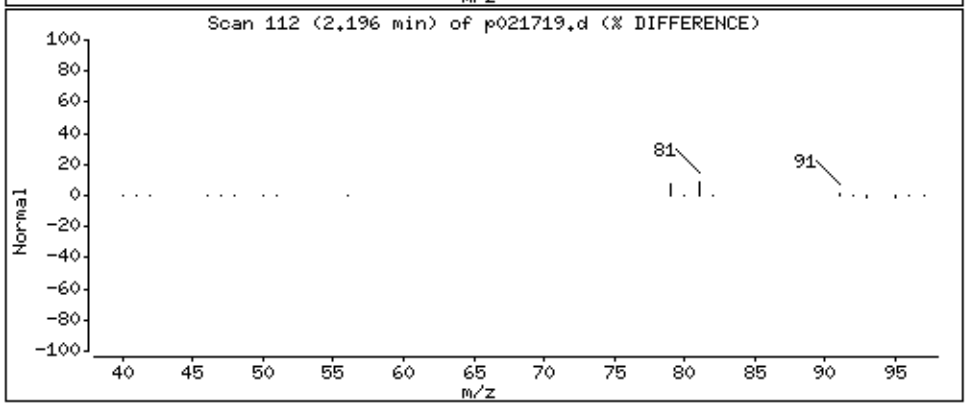












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

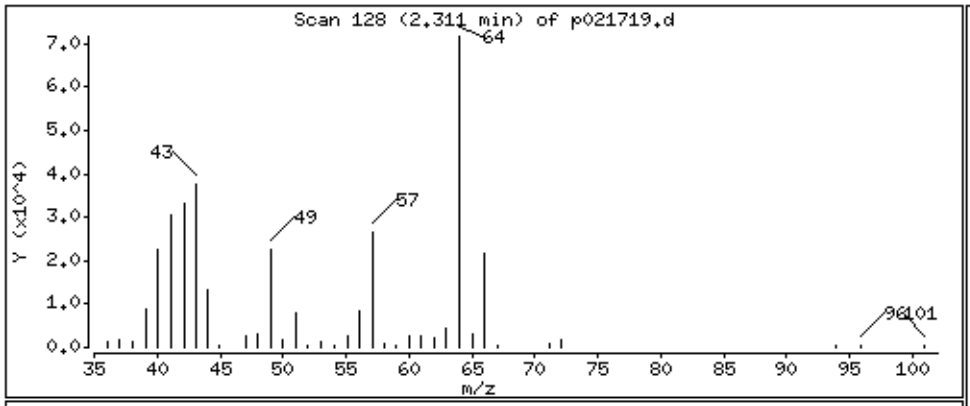
Operator: gd

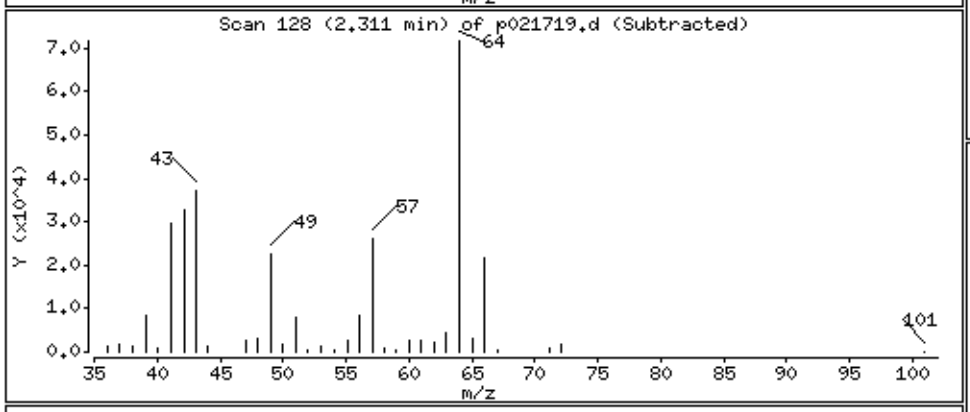
Column phase: RTX-624

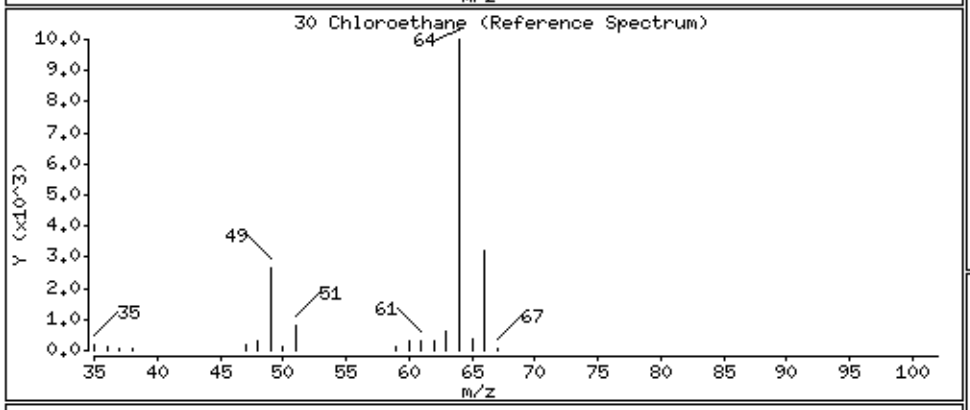
Column diameter: 0.25

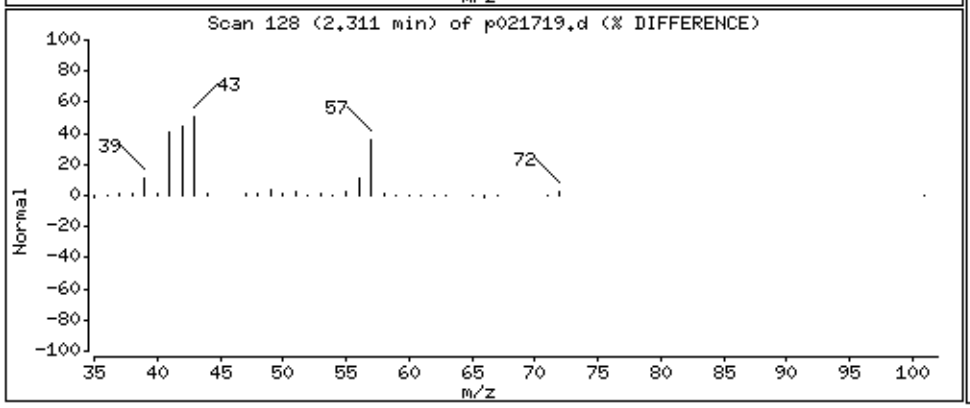
30 Chloroethane

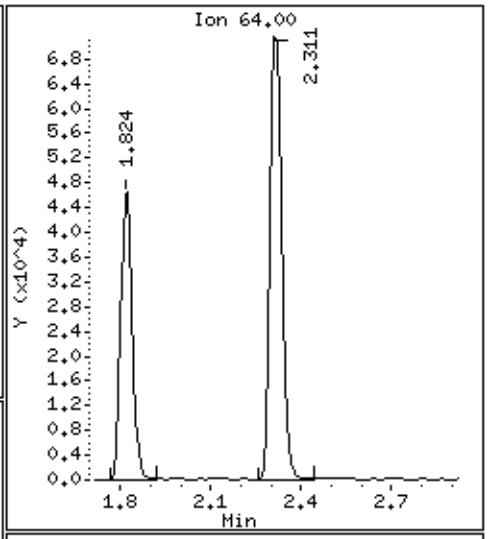
Concentration: 52.873 PPBV

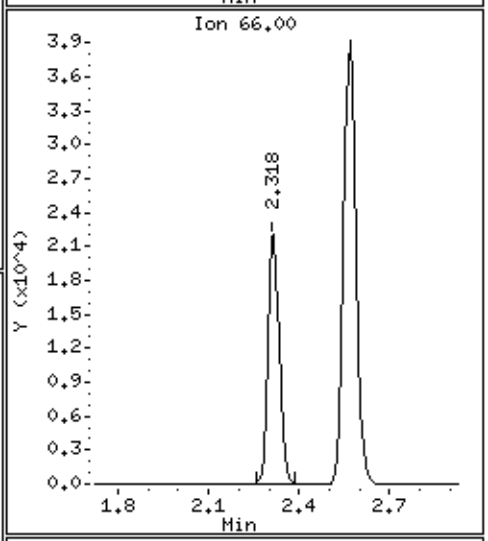


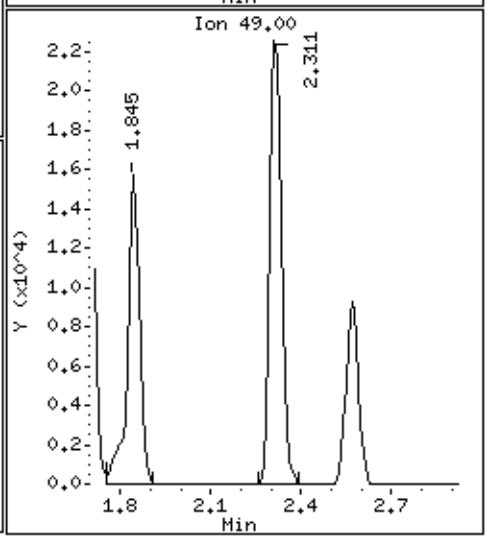












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

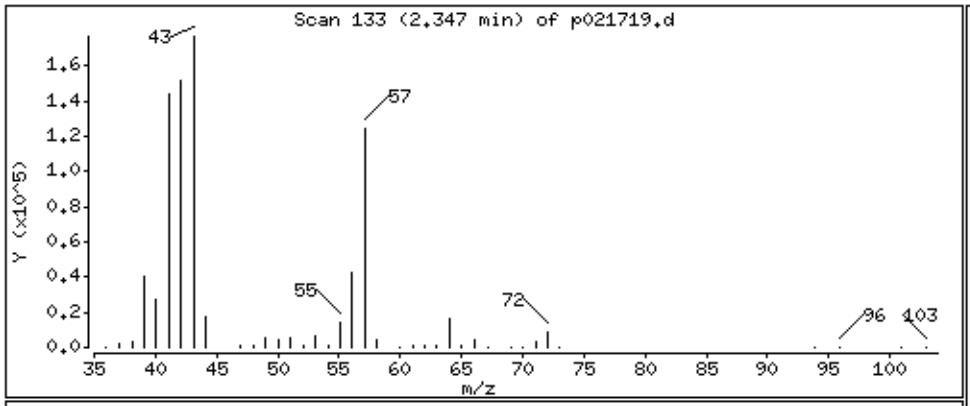
Operator: gd

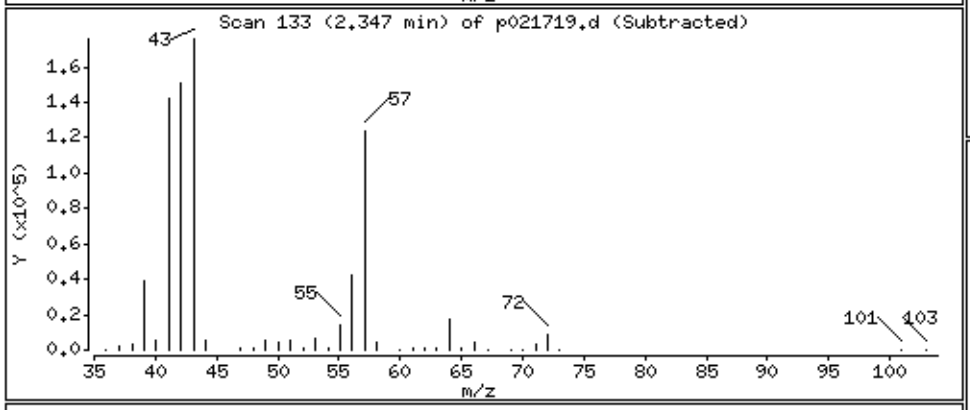
Column phase: RTX-624

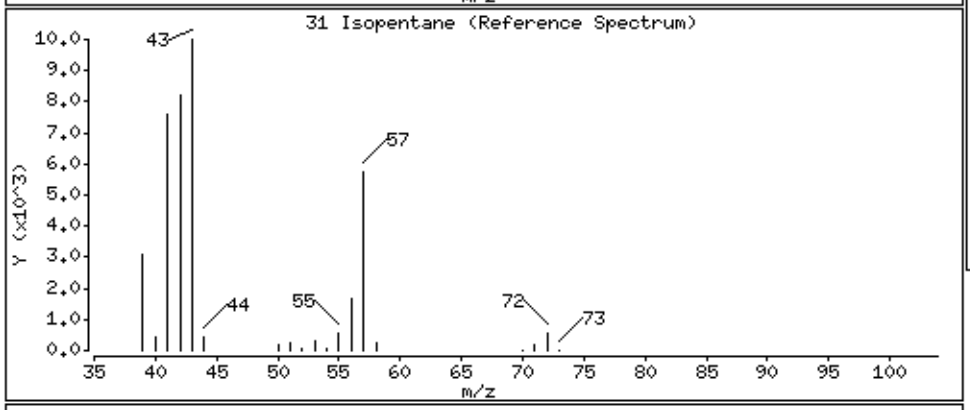
Column diameter: 0.25

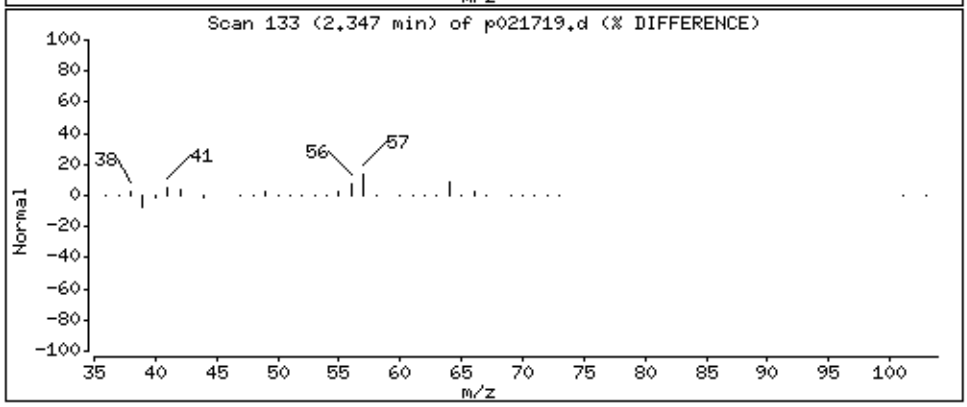
31 Isopentane

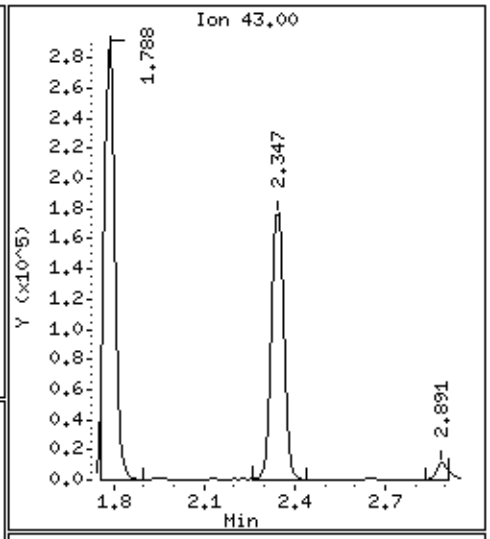
Concentration: 50.412 PPBV

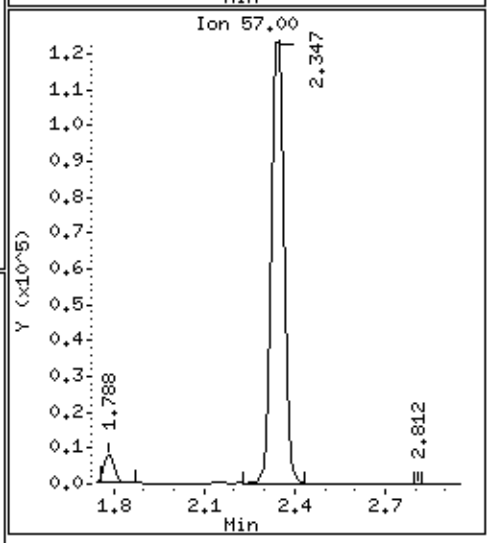












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

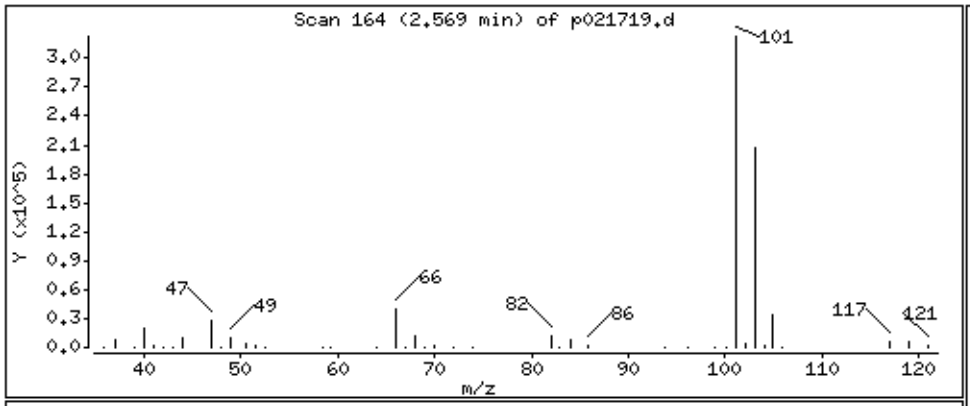
Operator: gd

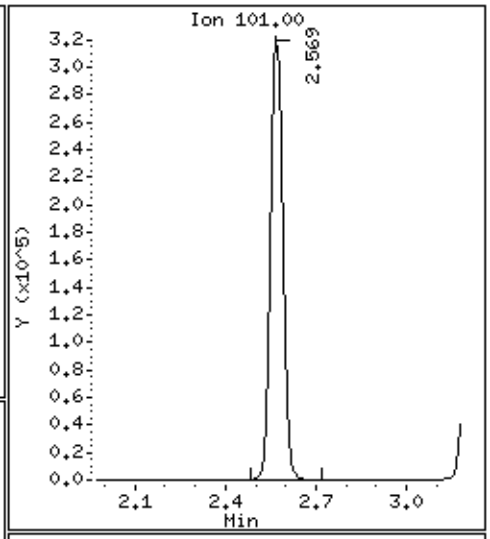
Column phase: RTX-624

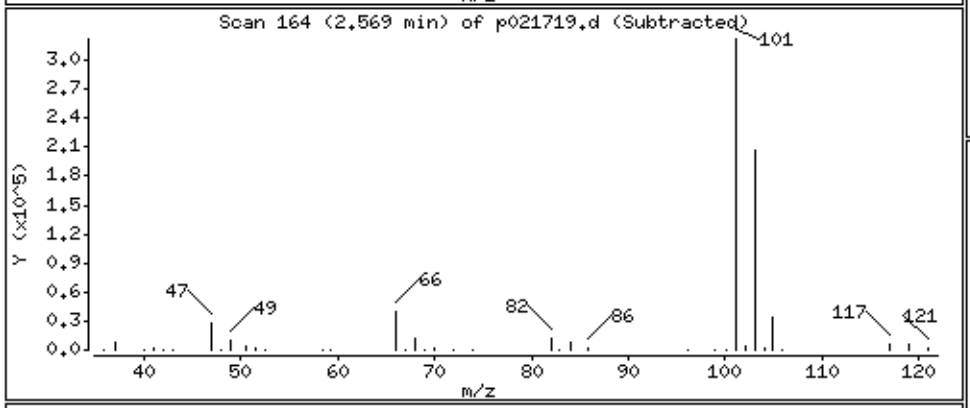
Column diameter: 0.25

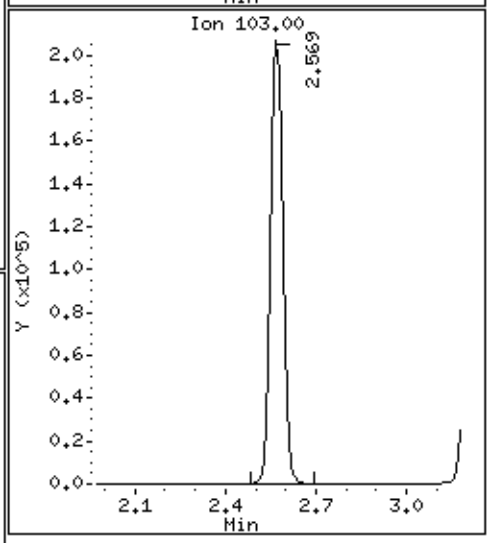
35 Freon 11

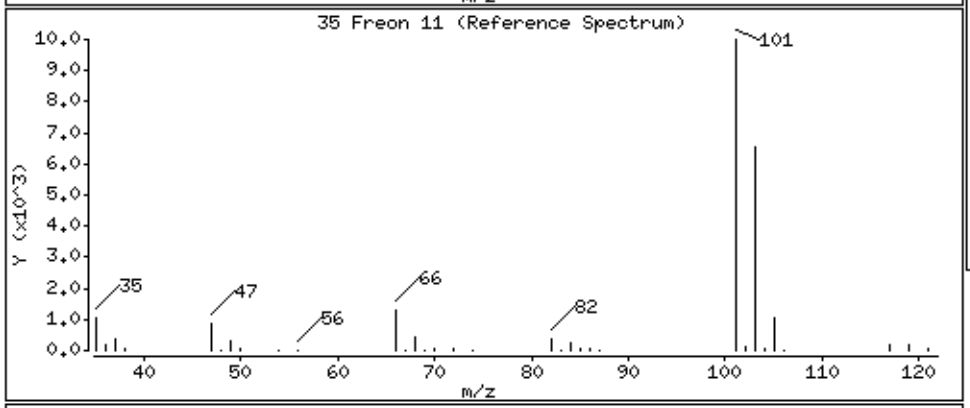
Concentration: 49.486 PPBV

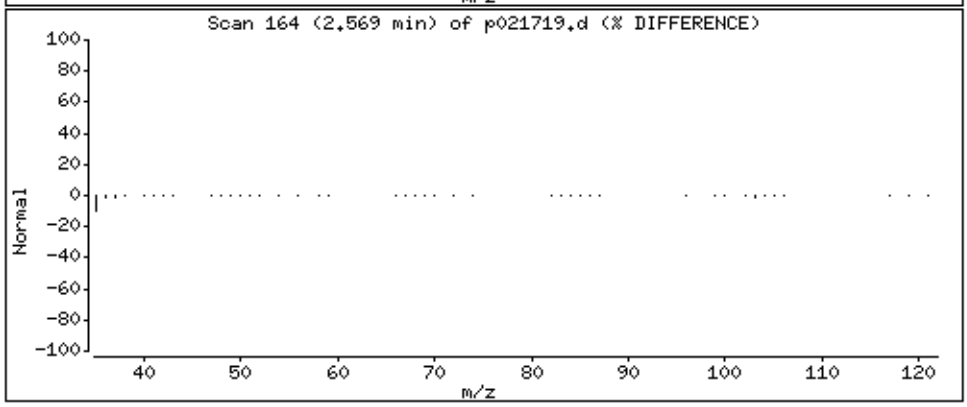












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

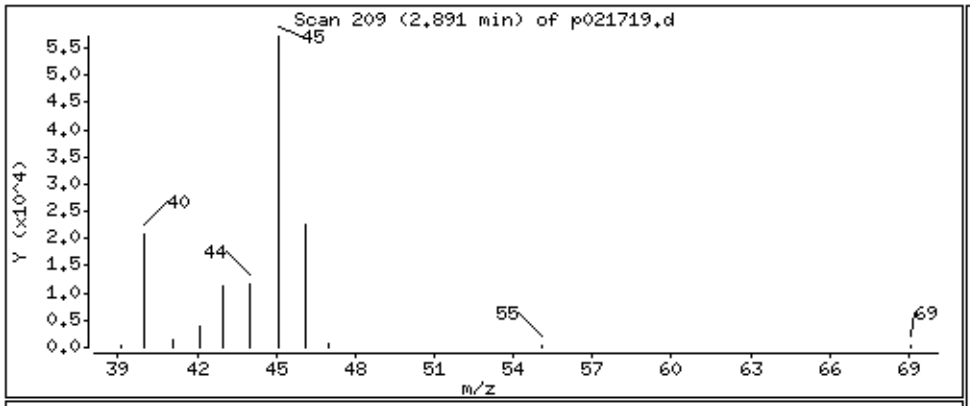
Operator: gd

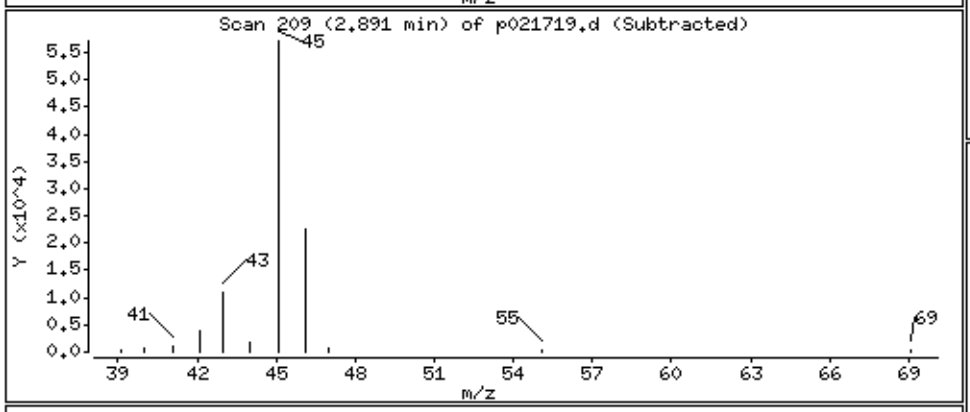
Column phase: RTX-624

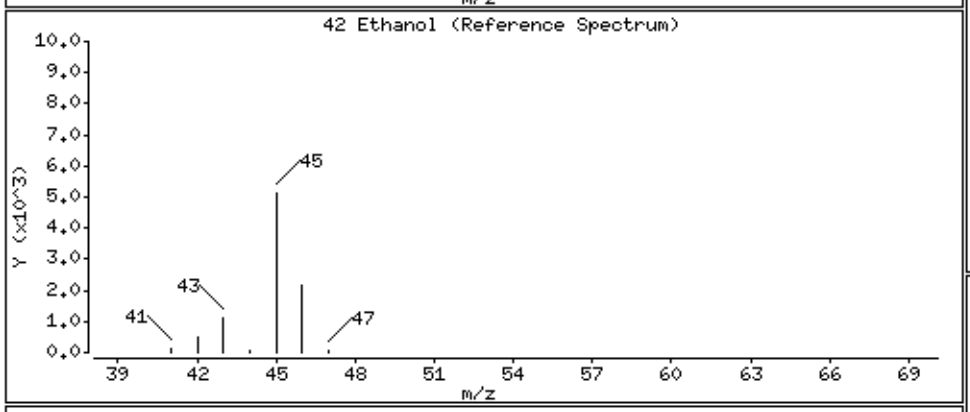
Column diameter: 0.25

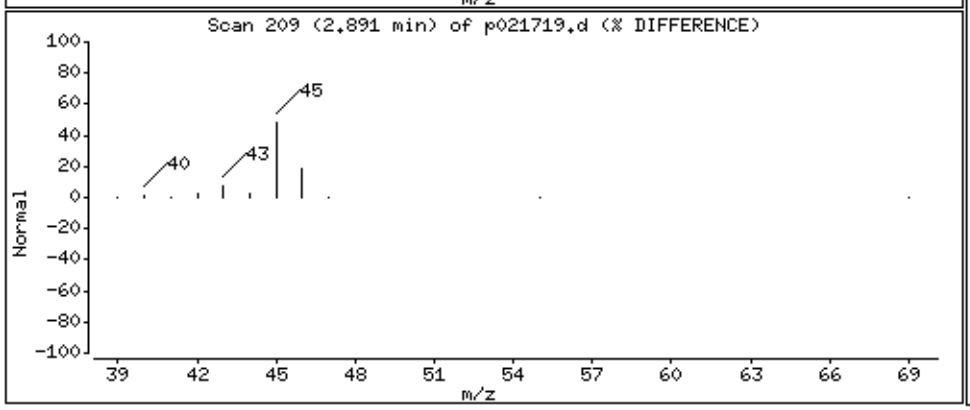
42 Ethanol

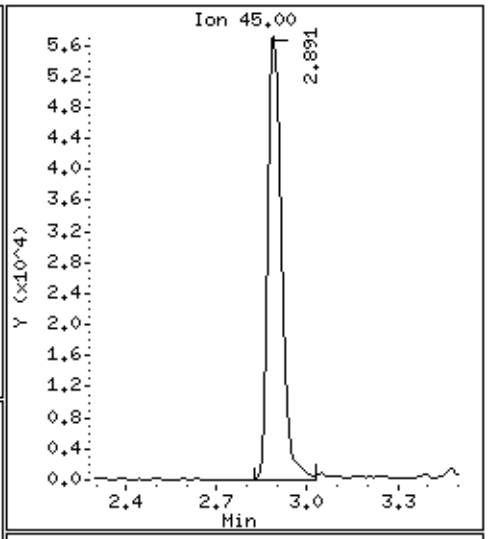
Concentration: 51.284 PPBV

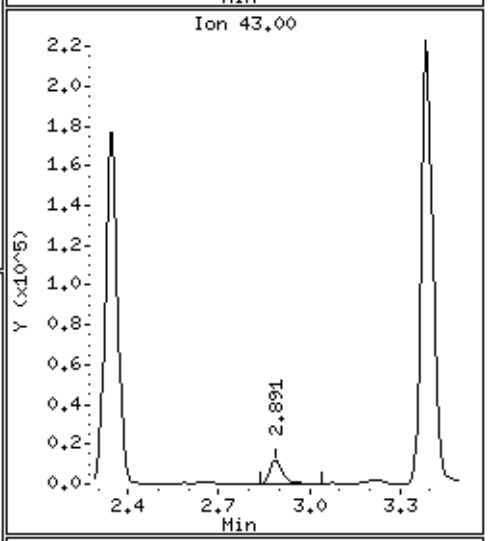


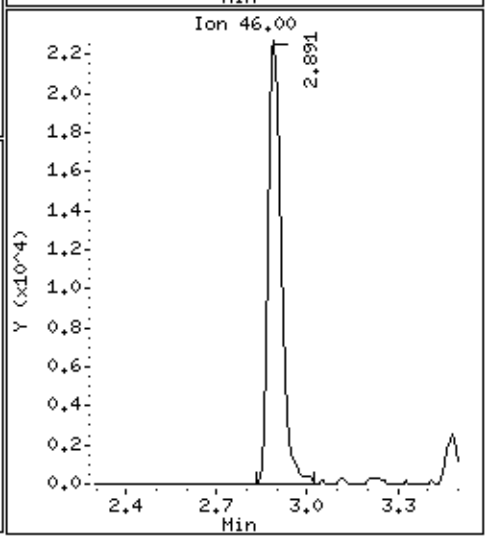












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

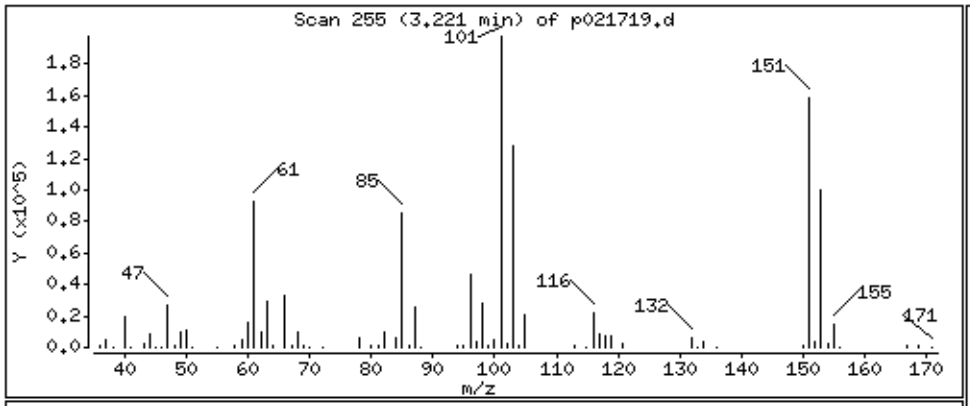
Operator: gd

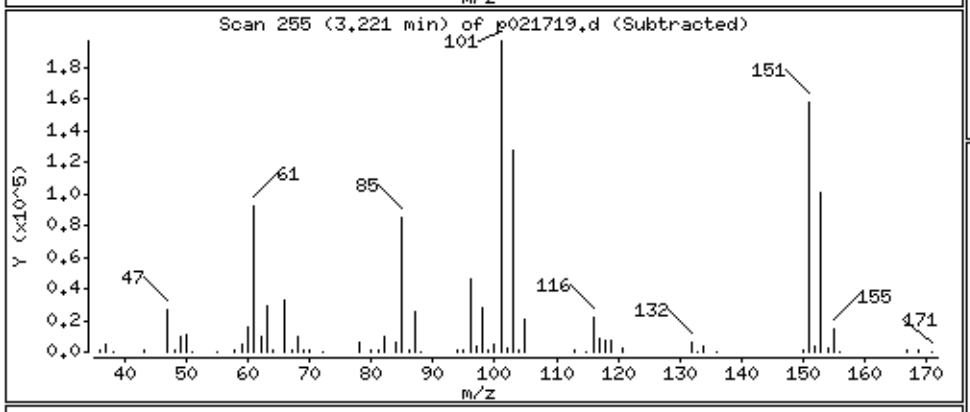
Column phase: RTX-624

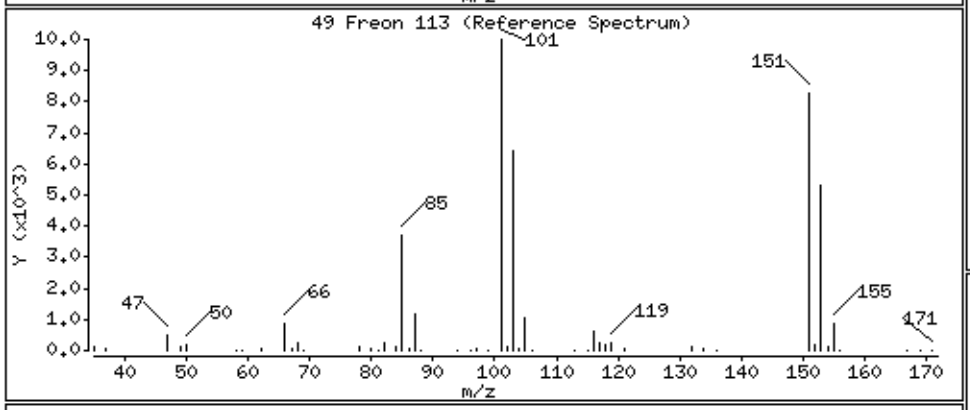
Column diameter: 0.25

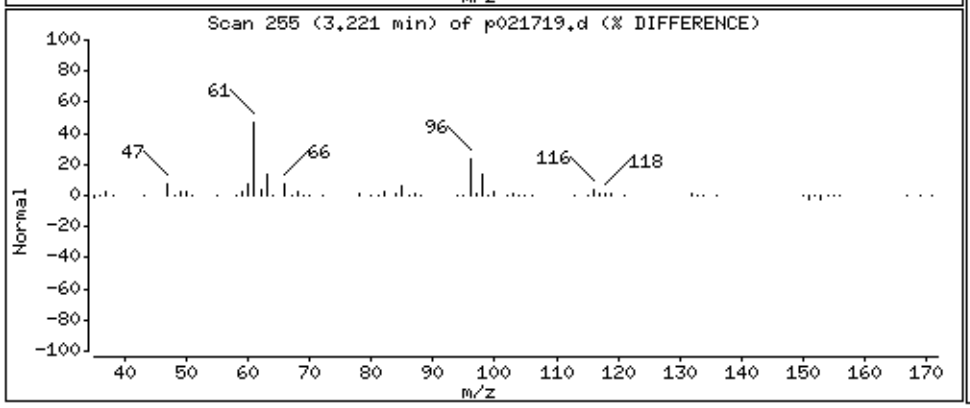
49 Freon 113

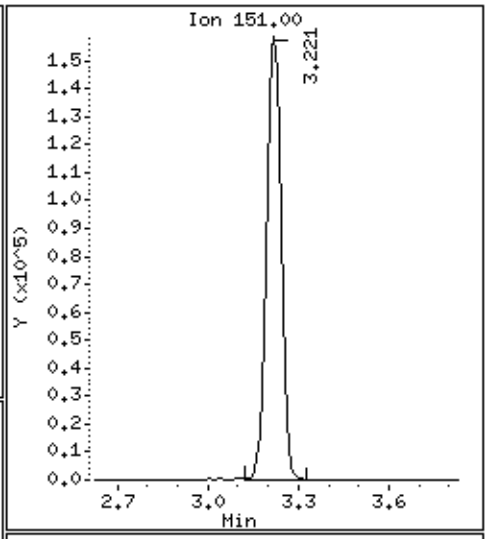
Concentration: 48.665 PPBV

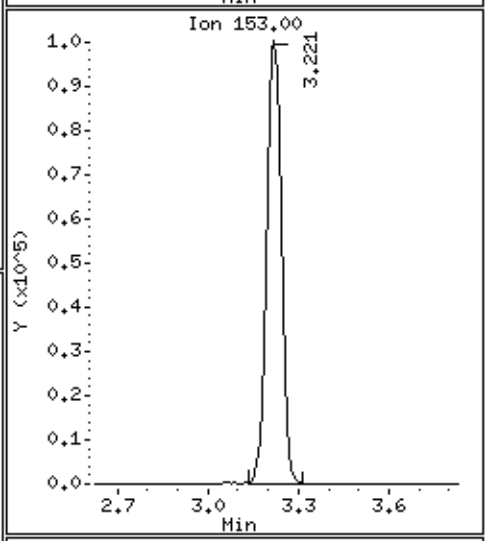


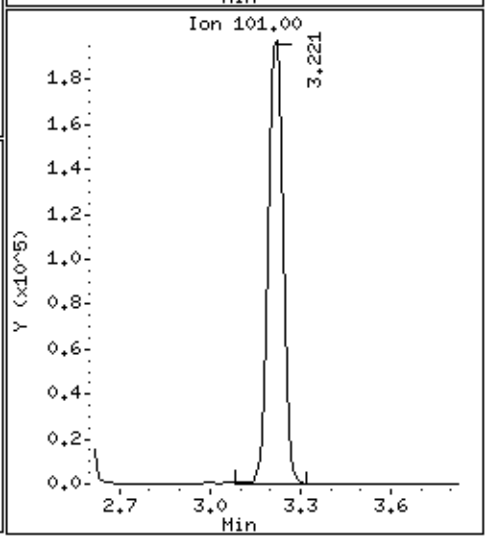












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

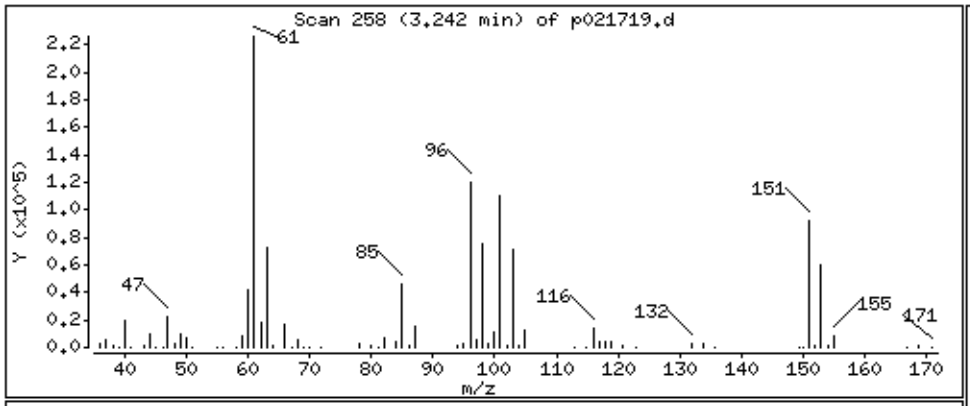
Operator: gd

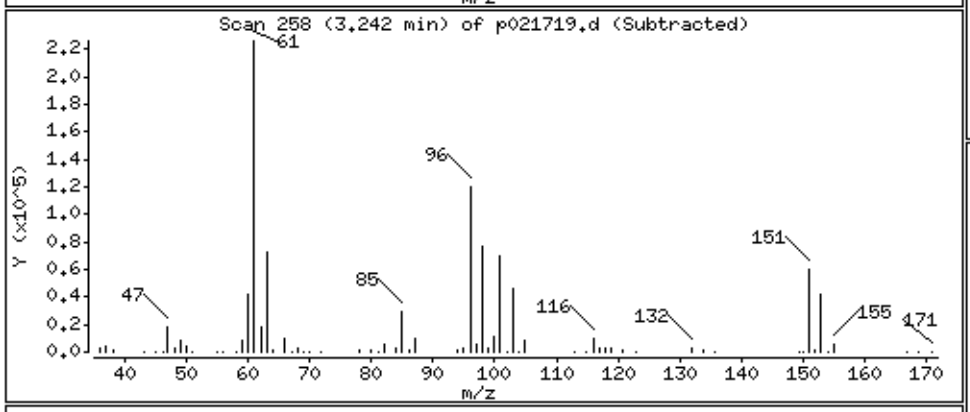
Column phase: RTX-624

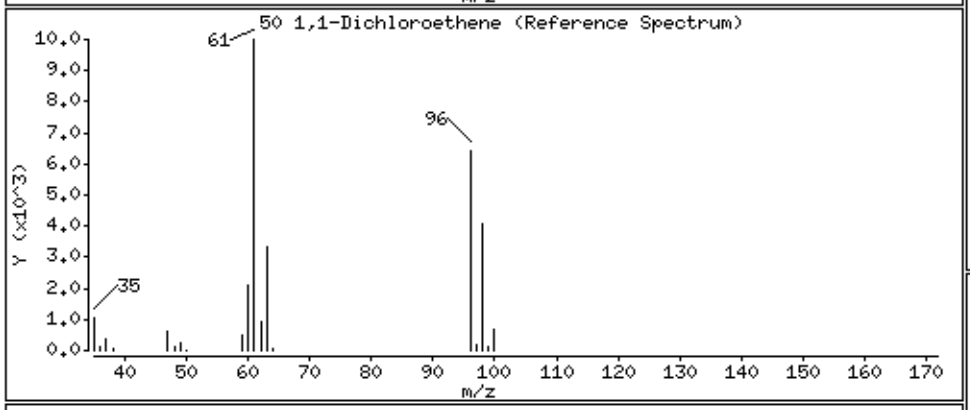
Column diameter: 0.25

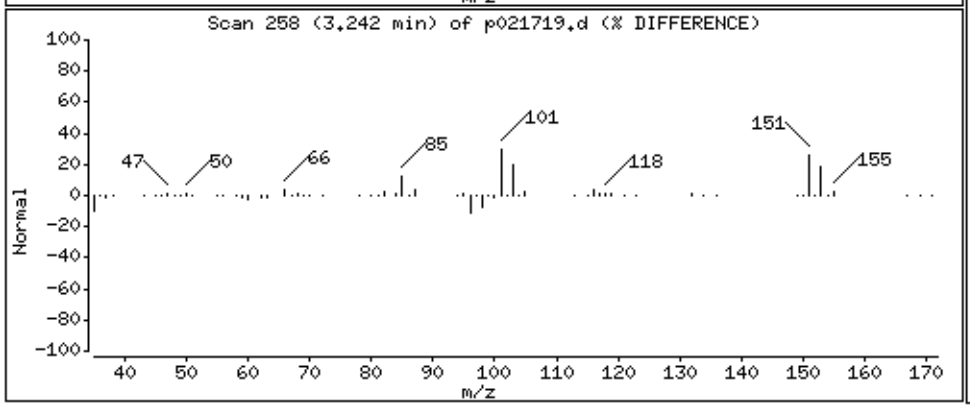
50 1,1-Dichloroethene

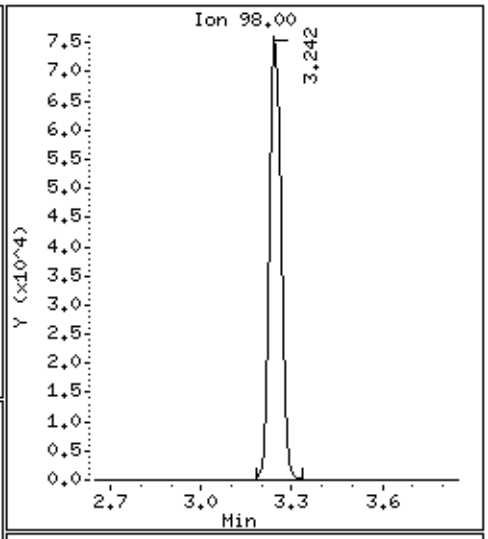
Concentration: 50.069 PPBV

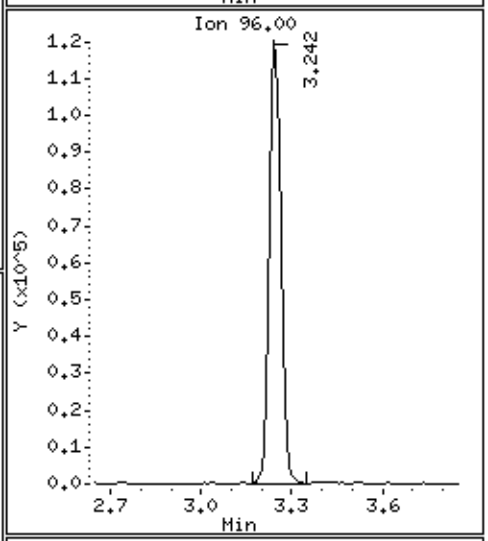


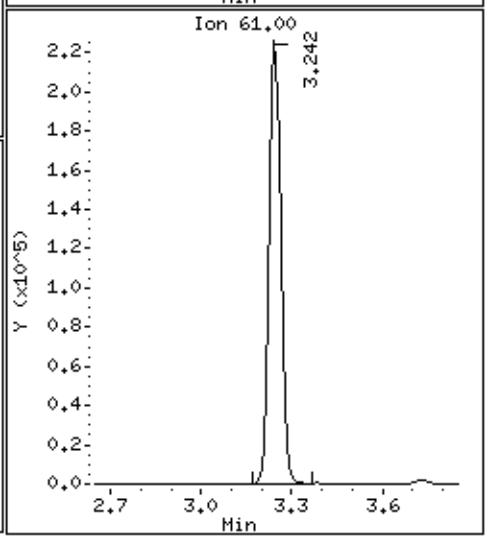












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

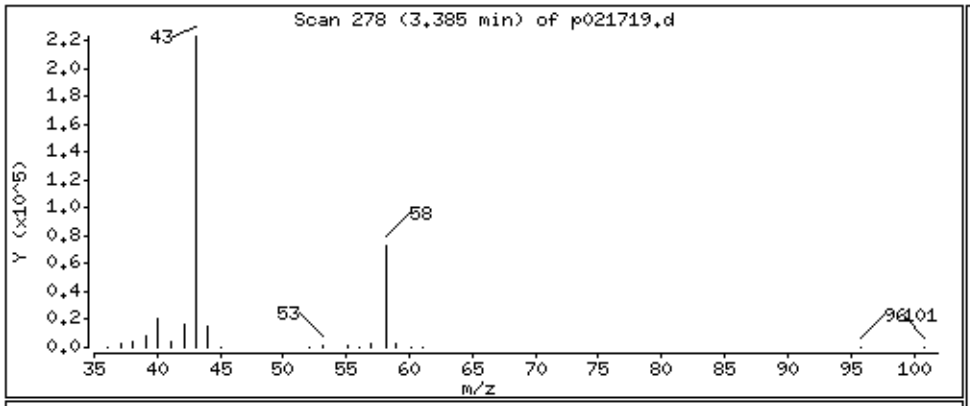
Operator: gd

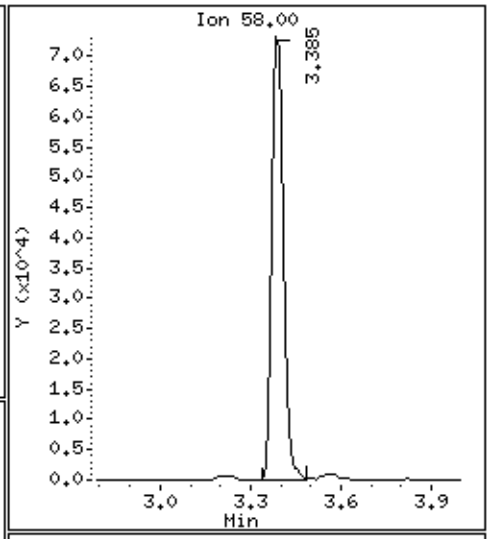
Column phase: RTX-624

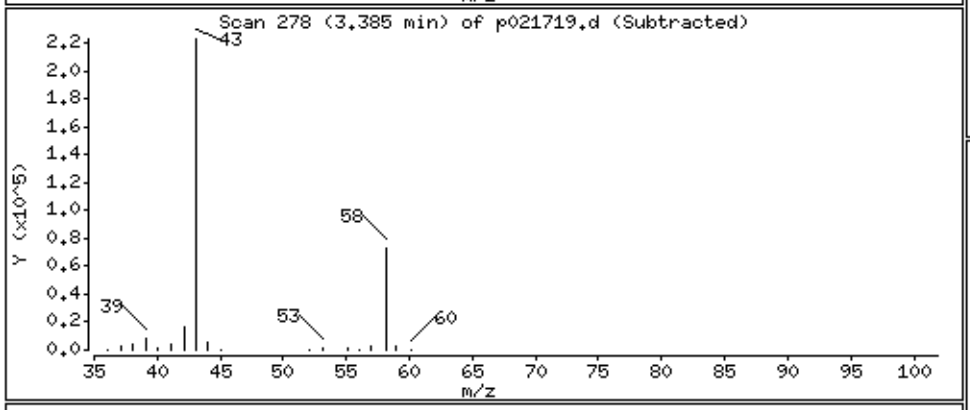
Column diameter: 0.25

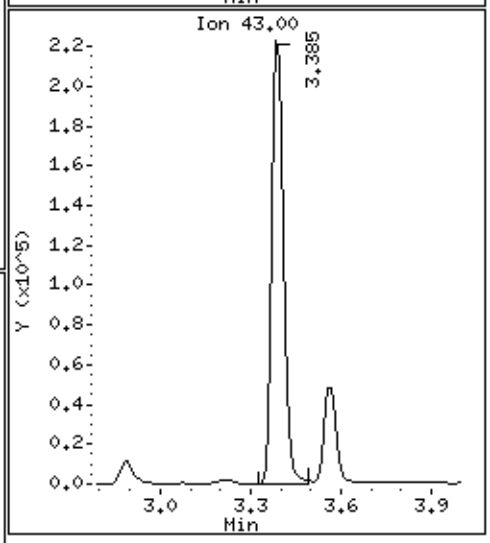
52 Acetone

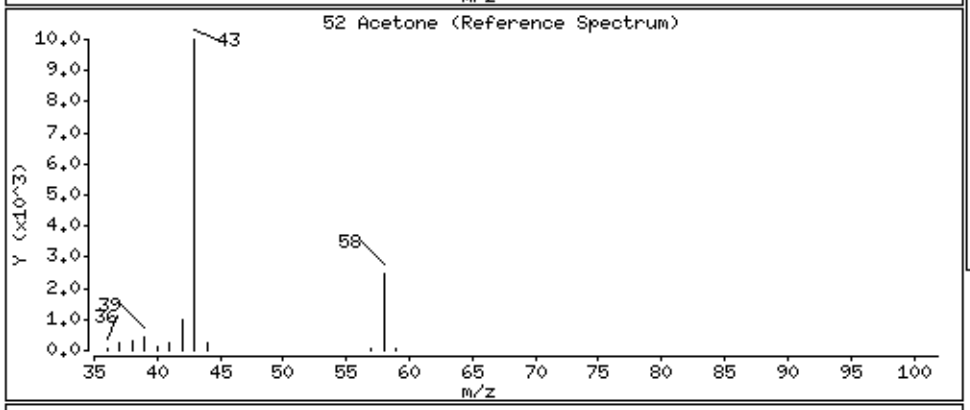
Concentration: 47.934 PPBV

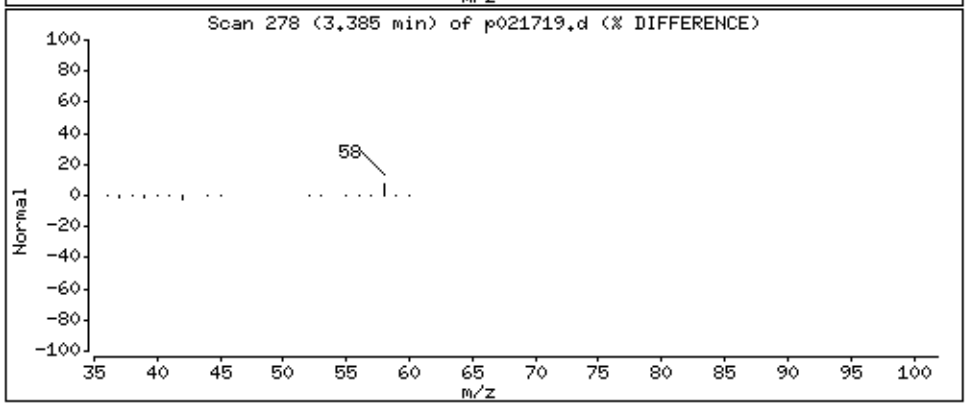












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

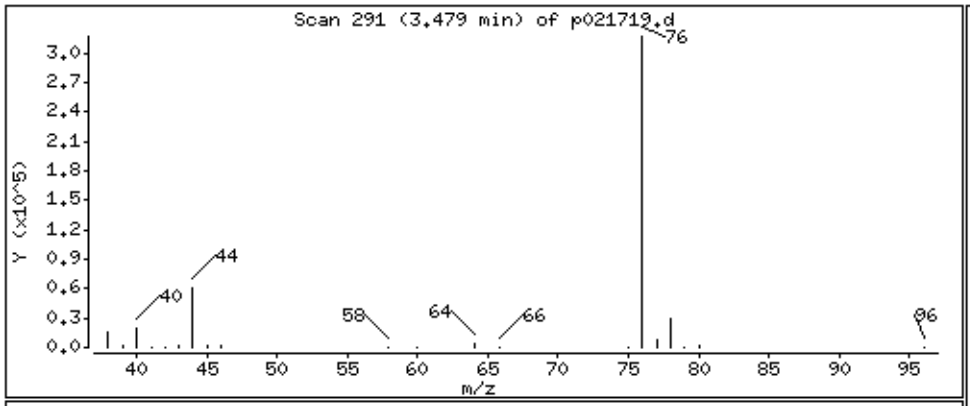
Operator: gd

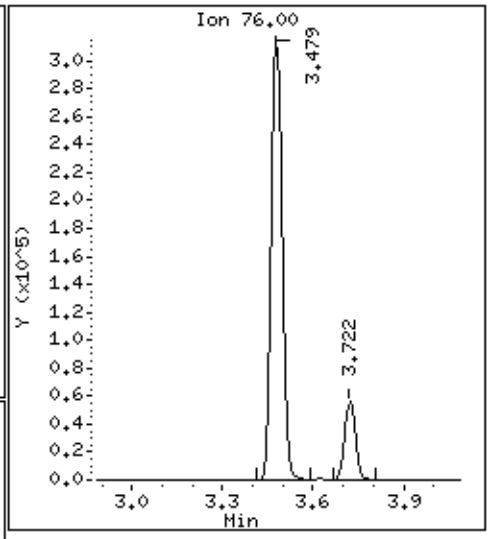
Column phase: RTX-624

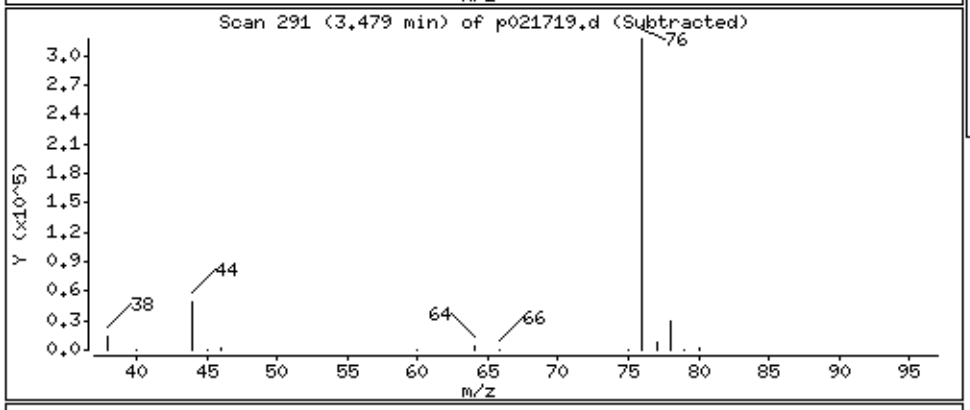
Column diameter: 0.25

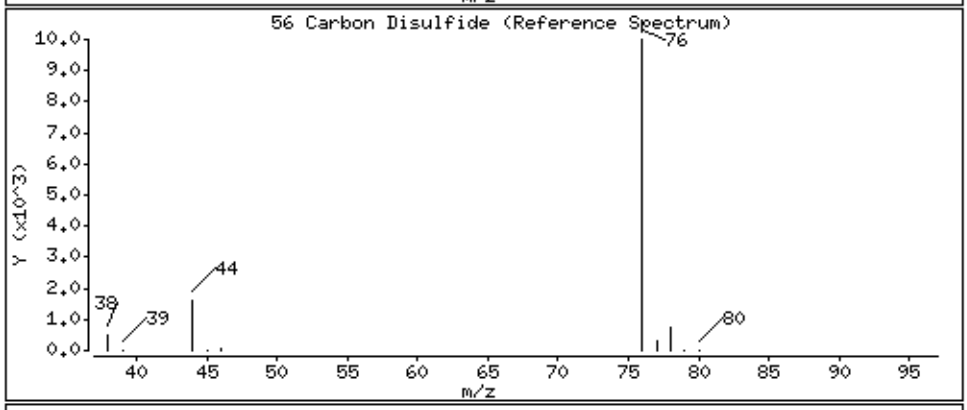
56 Carbon Disulfide

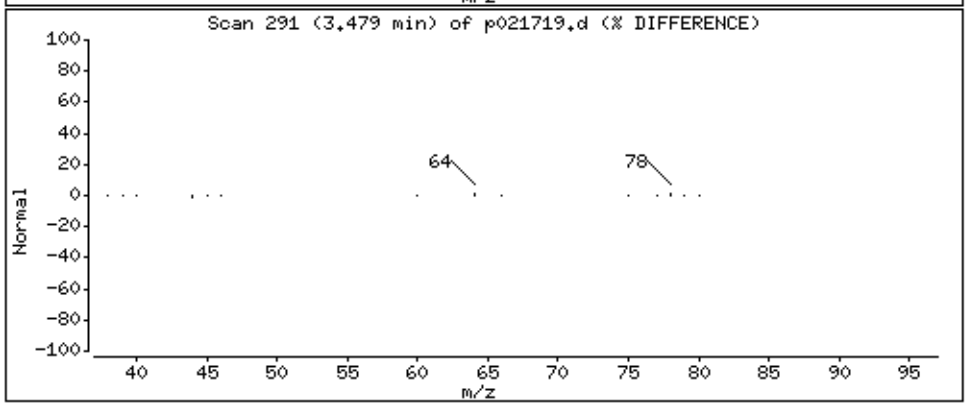
Concentration: 44.969 PPBV











Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

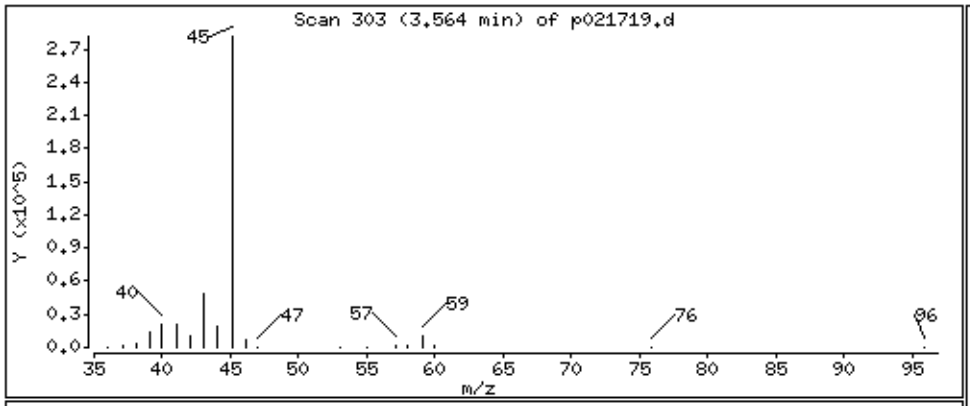
Operator: gd

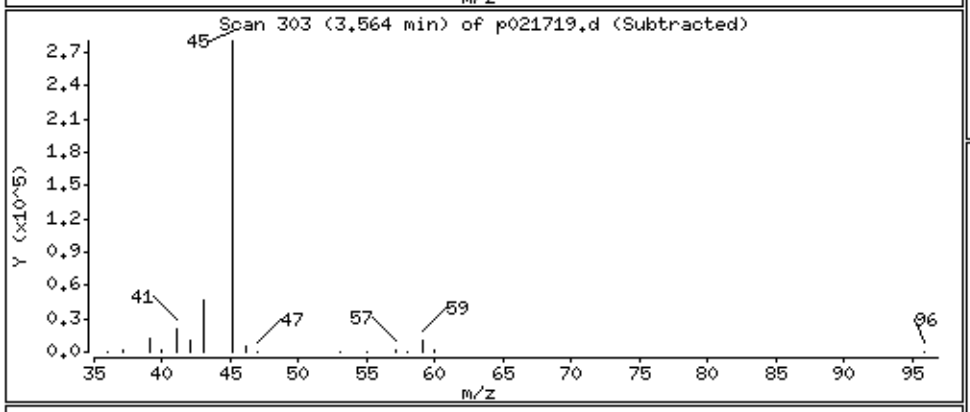
Column phase: RTX-624

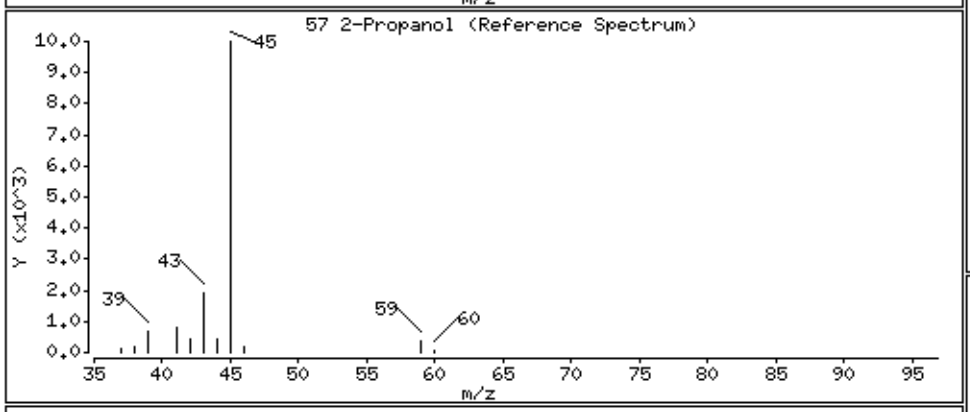
Column diameter: 0.25

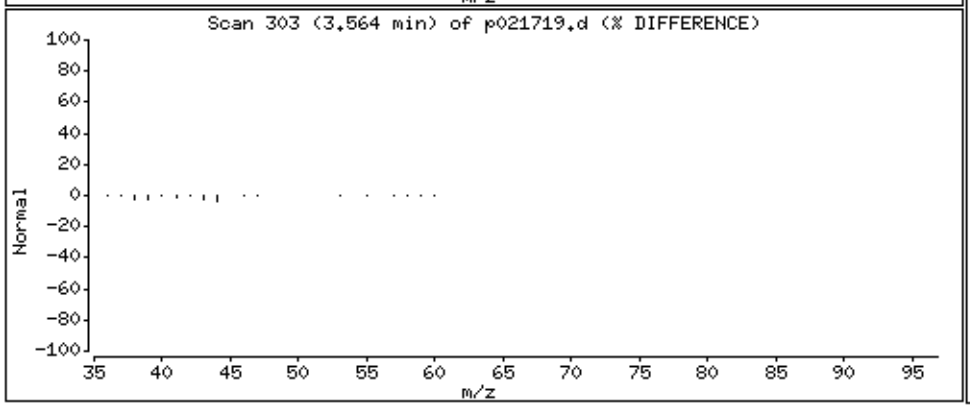
57 2-Propanol

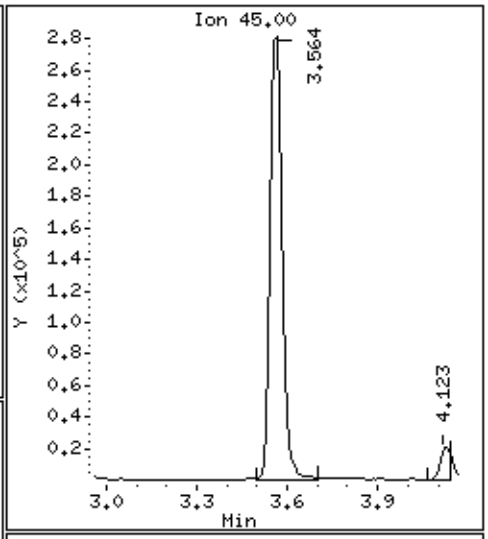
Concentration: 51.244 PPBV

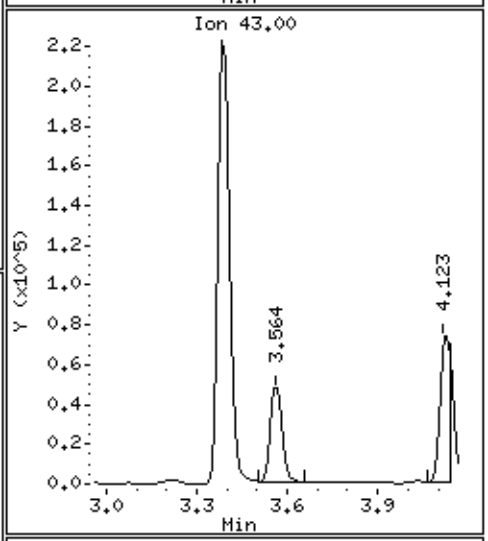


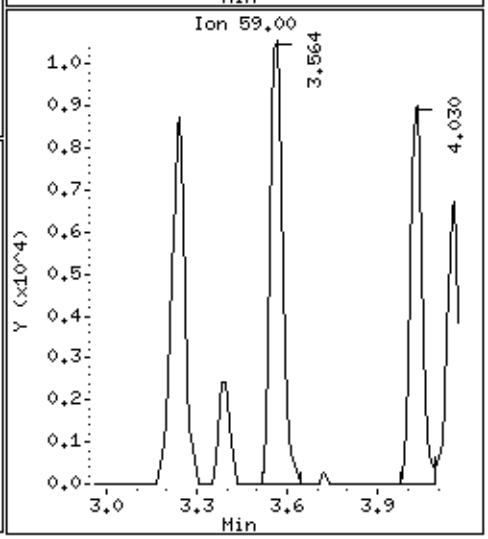












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

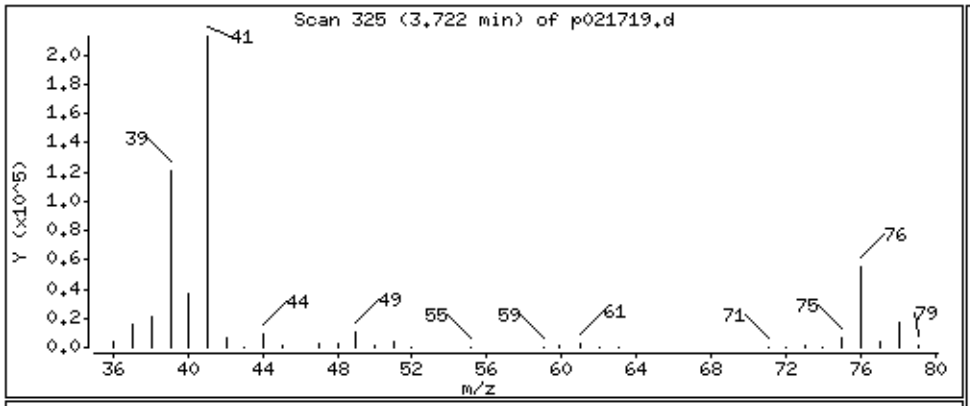
Operator: gd

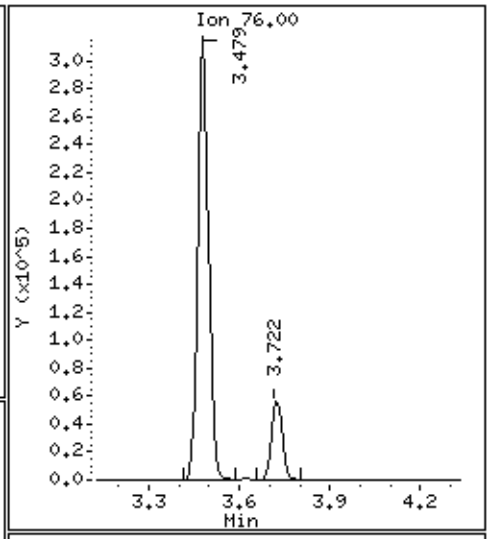
Column phase: RTX-624

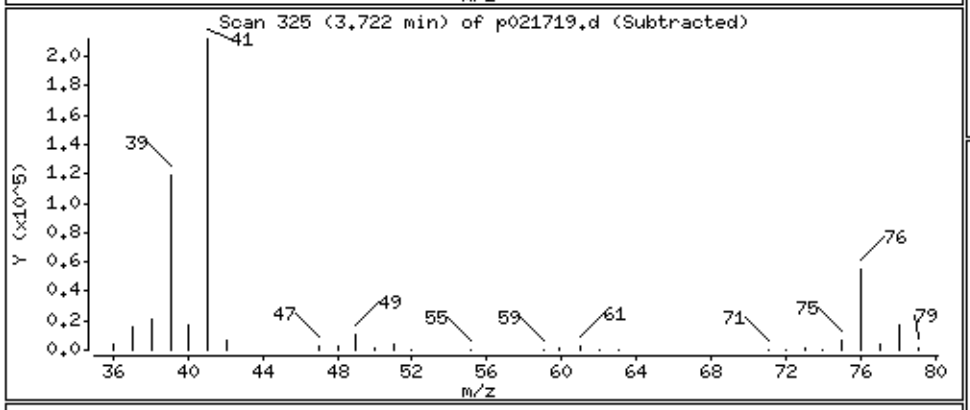
Column diameter: 0.25

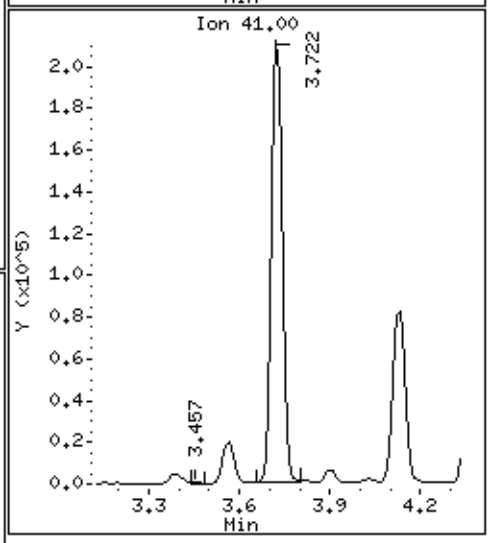
58 3-Chloropropene

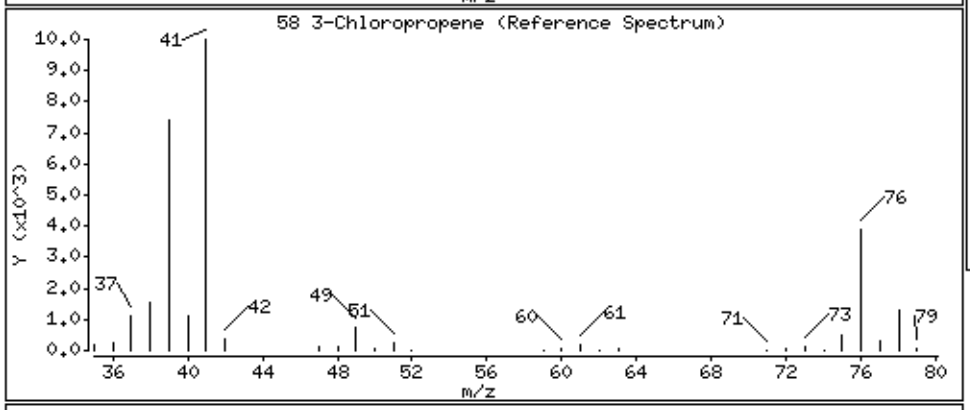
Concentration: 46.127 PPBV

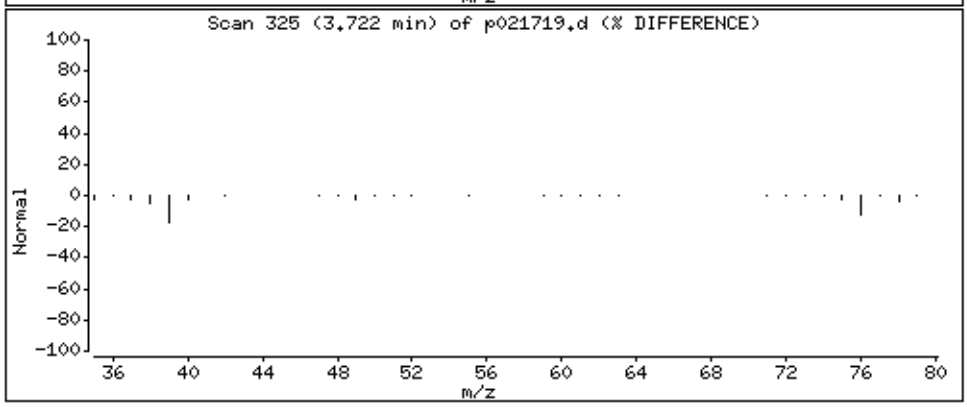












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

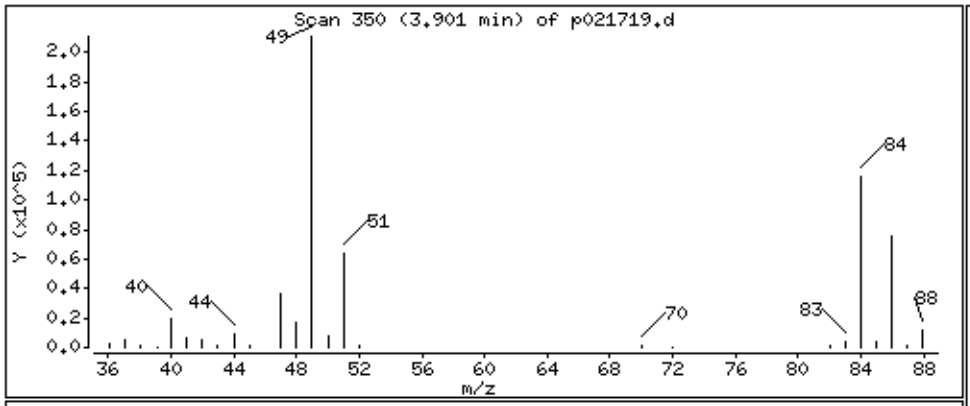
Operator: gd

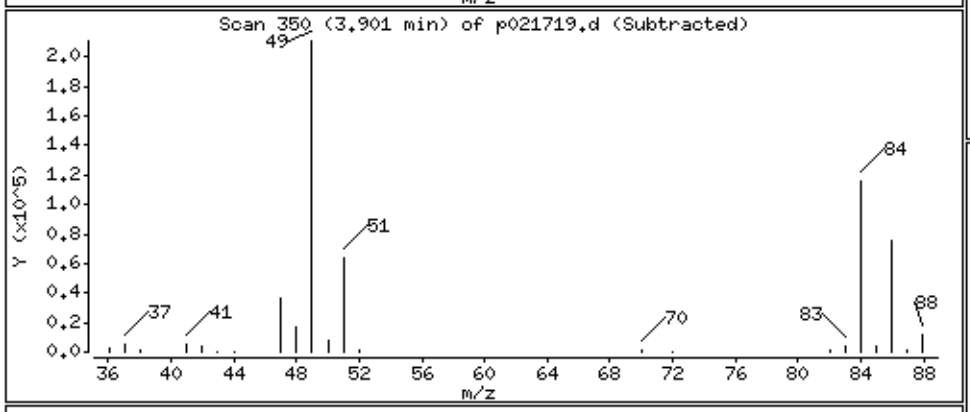
Column phase: RTX-624

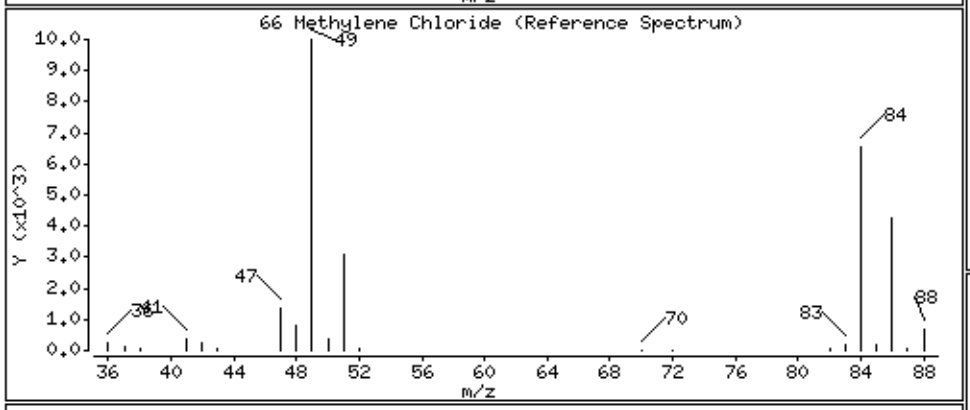
Column diameter: 0.25

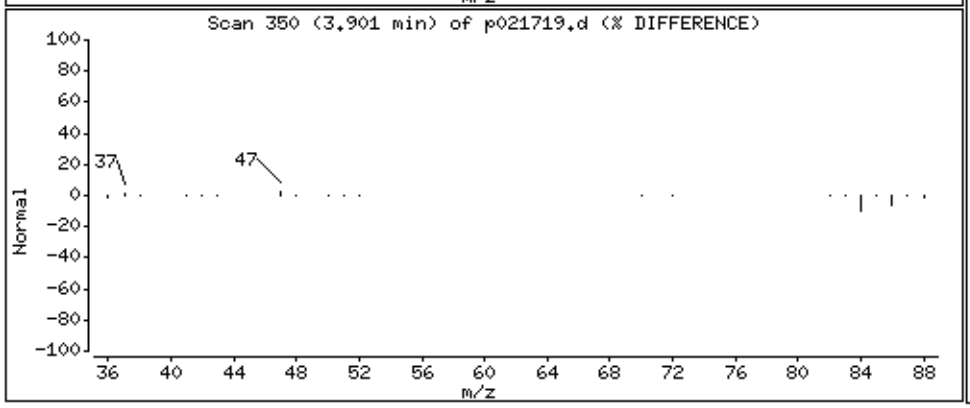
66 Methylene Chloride

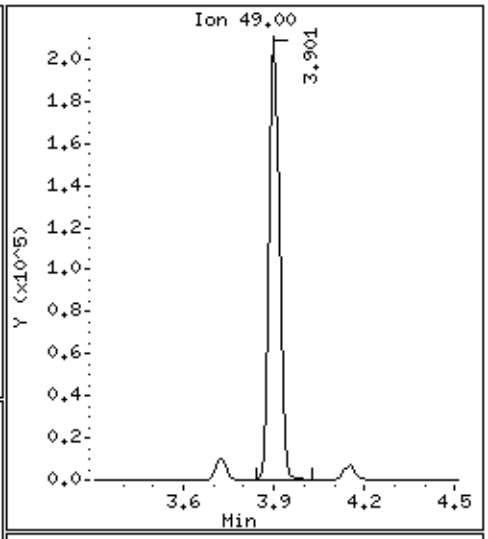
Concentration: 47.258 PPBV

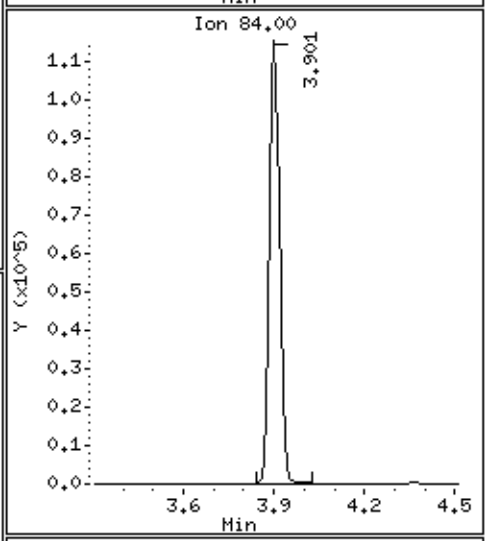


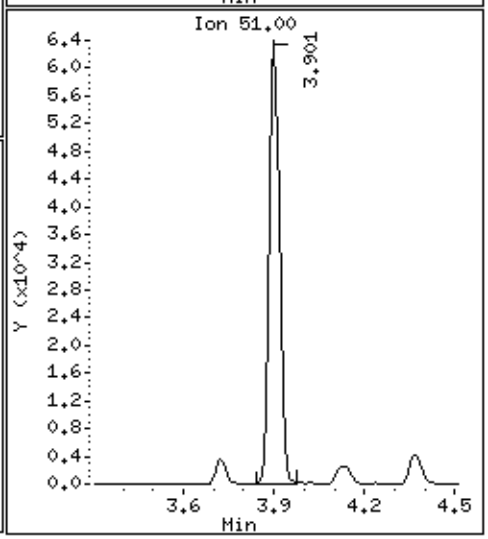












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

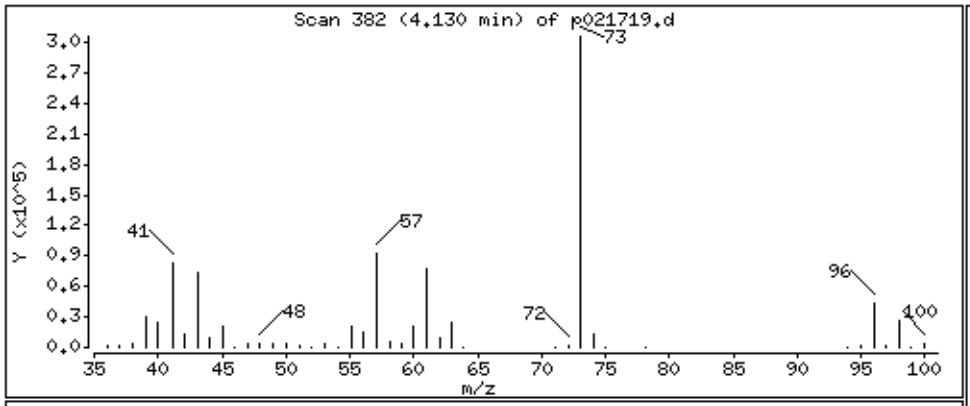
Operator: gd

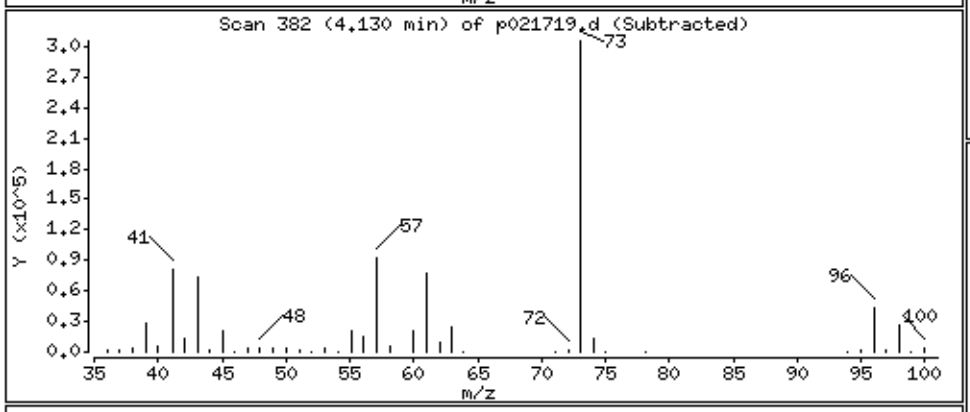
Column phase: RTX-624

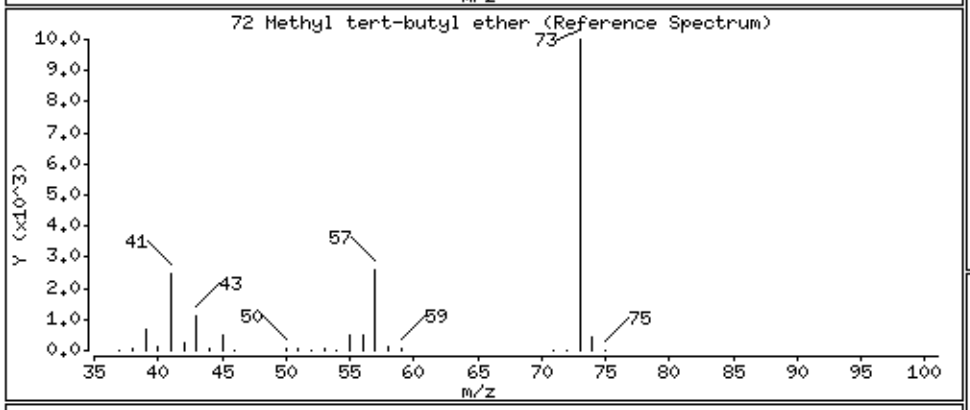
Column diameter: 0.25

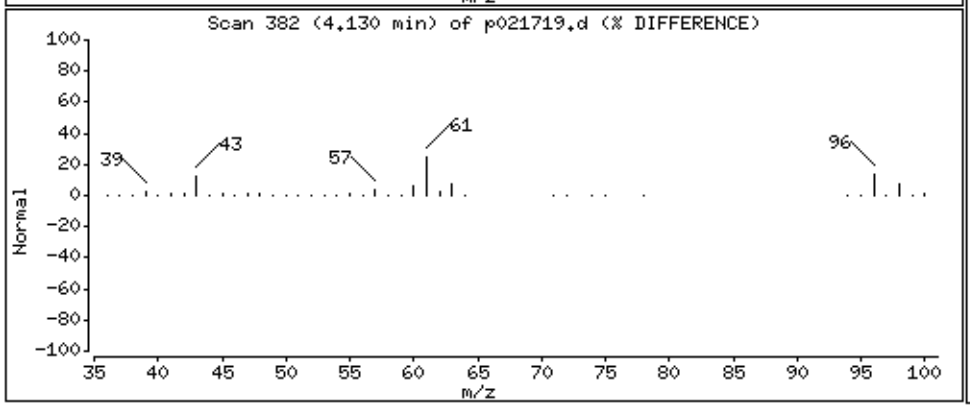
72 Methyl tert-butyl ether

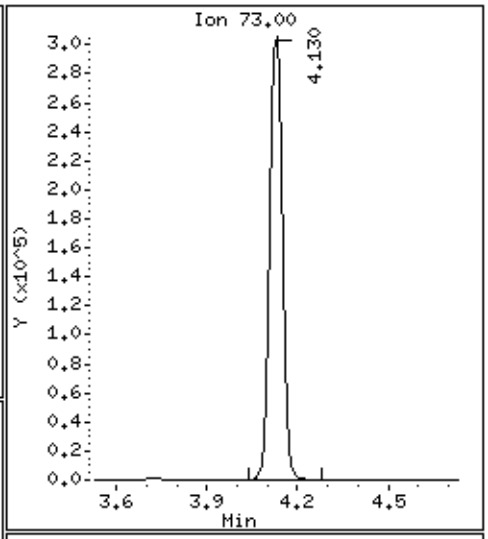
Concentration: 46.962 PPBV

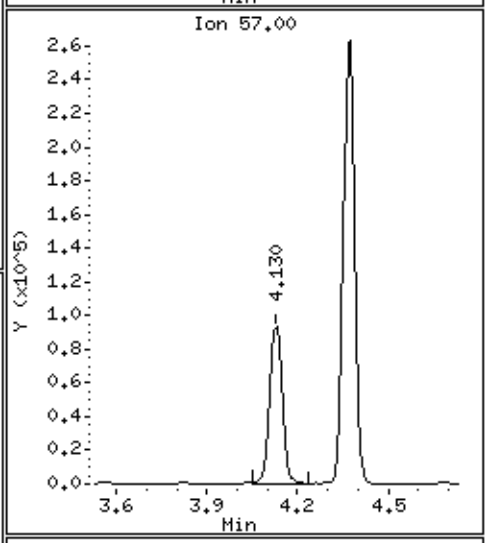


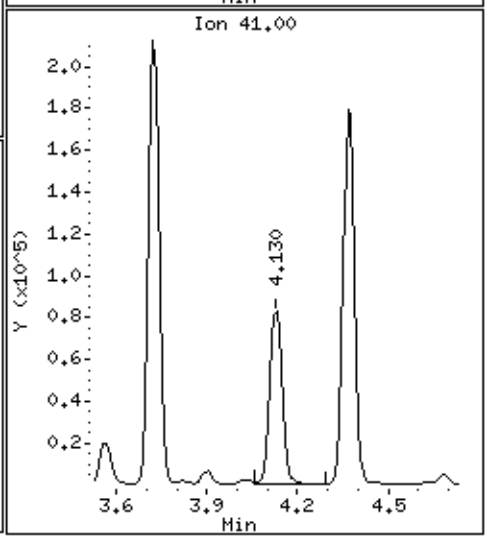












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

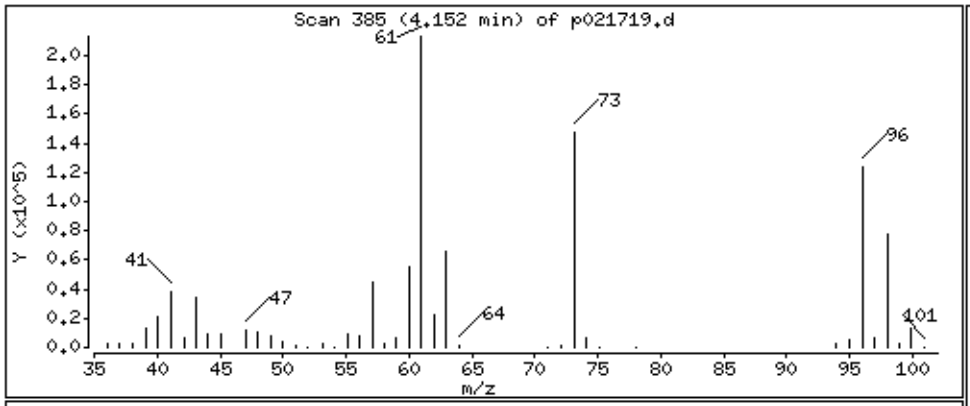
Operator: gd

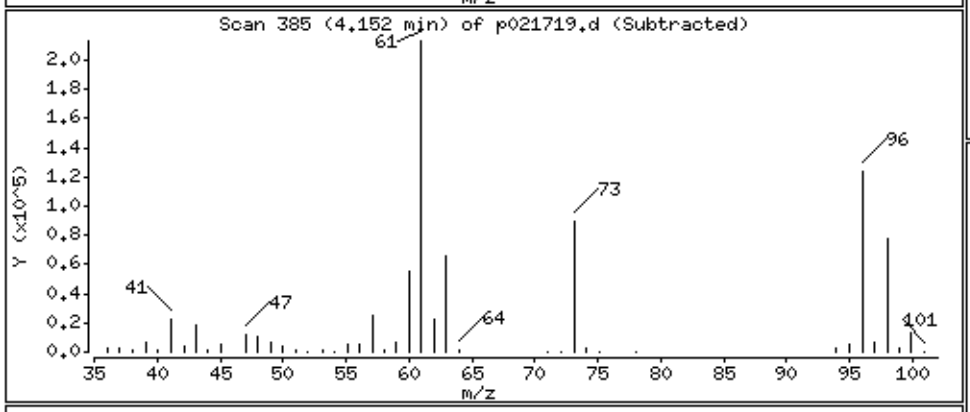
Column phase: RTX-624

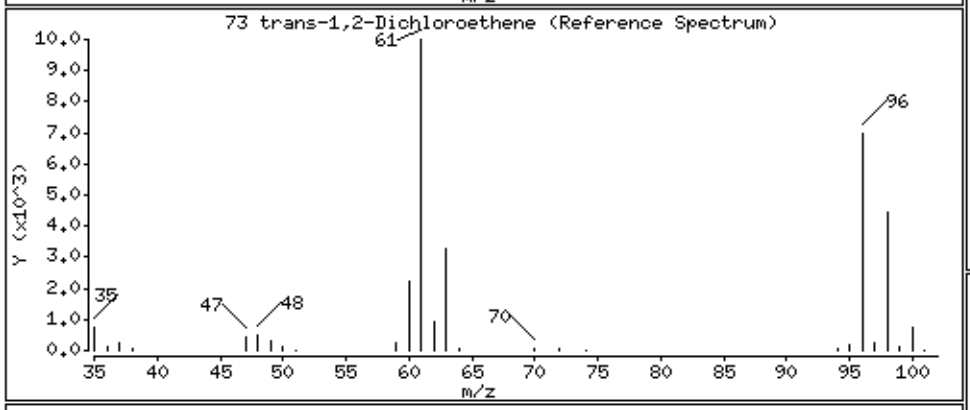
Column diameter: 0.25

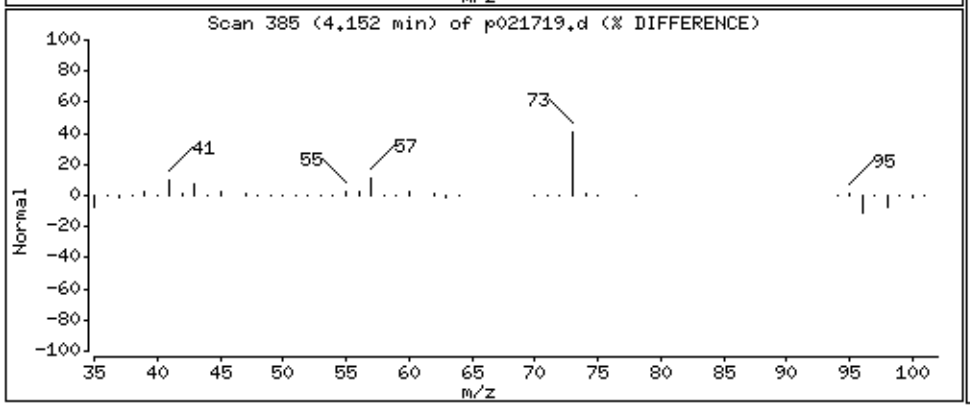
73 trans-1,2-Dichloroethene

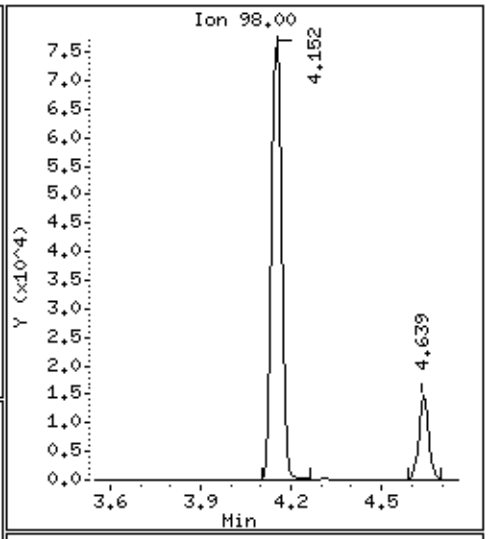
Concentration: 42.147 PPBV

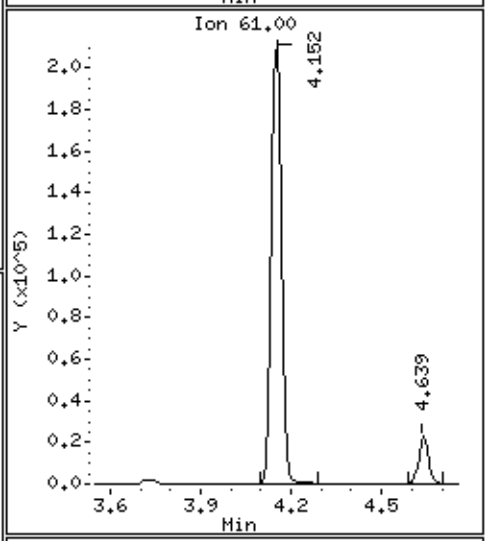


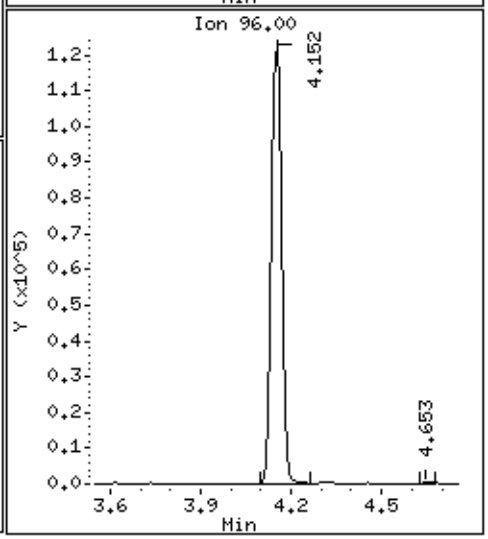












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

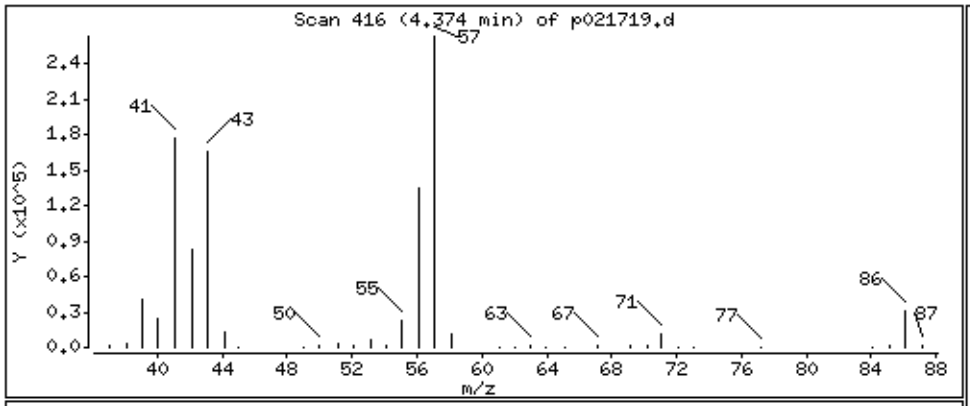
Operator: gd

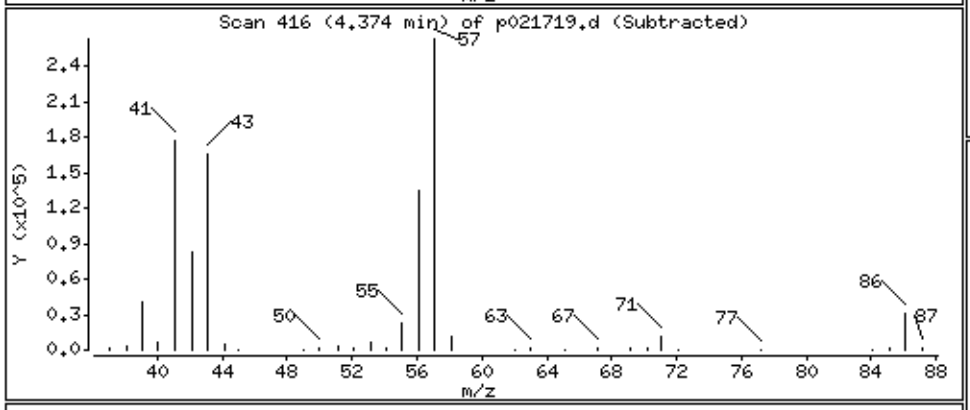
Column phase: RTX-624

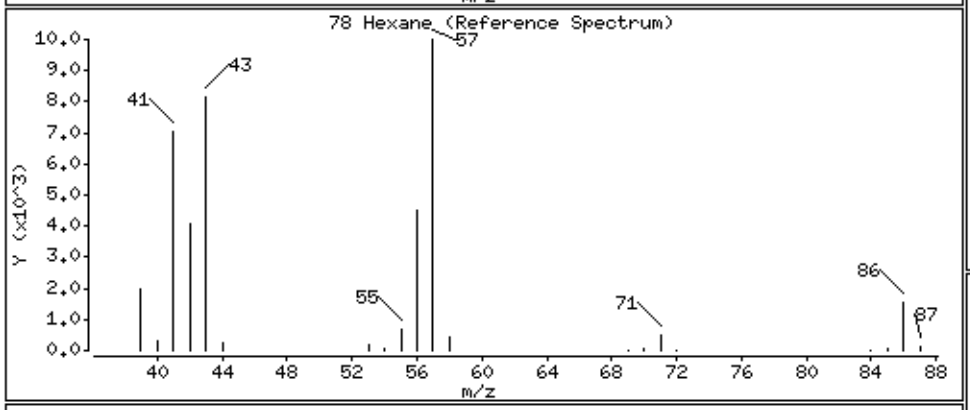
Column diameter: 0.25

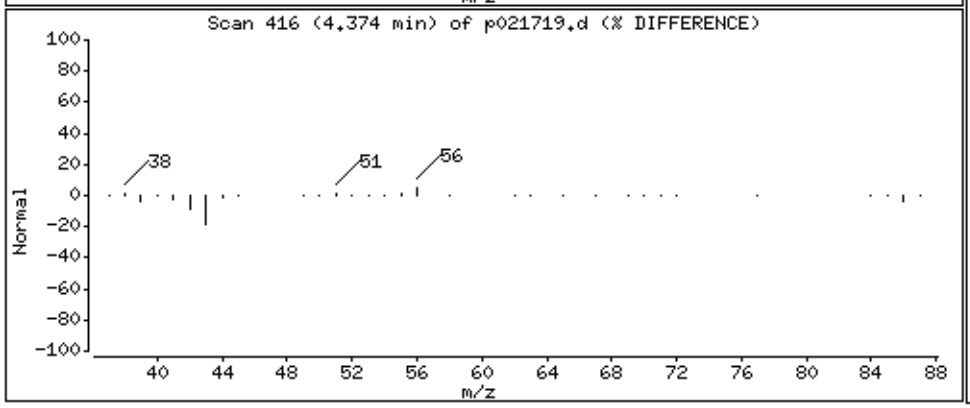
78 Hexane

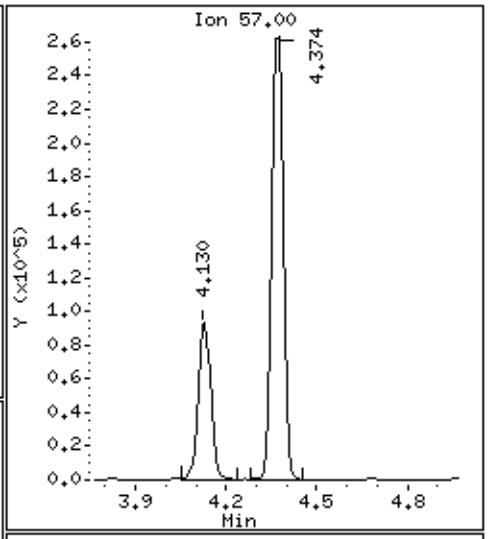
Concentration: 45.516 PPBV

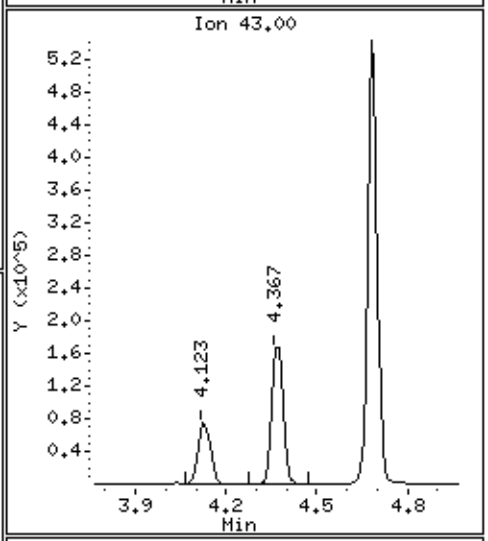


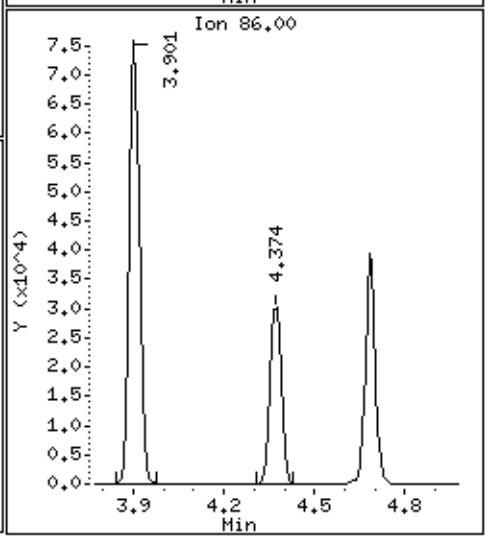












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

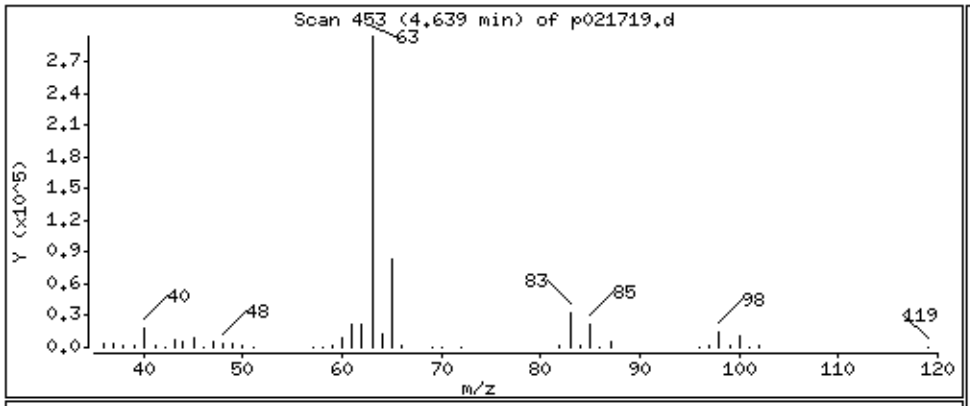
Operator: gd

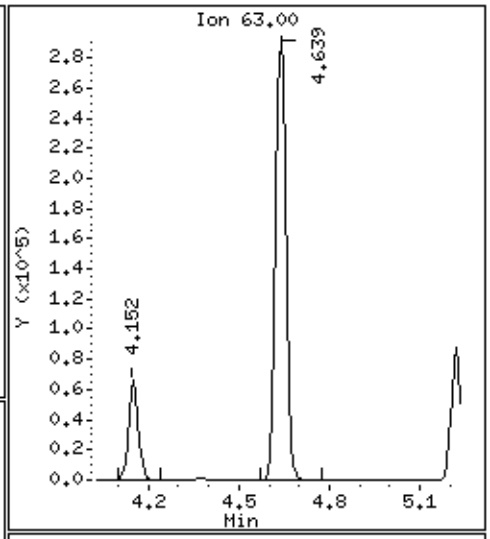
Column phase: RTX-624

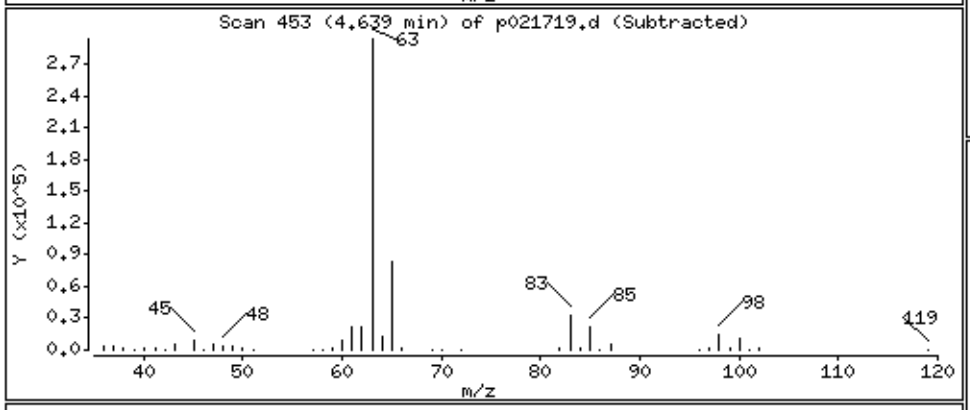
Column diameter: 0.25

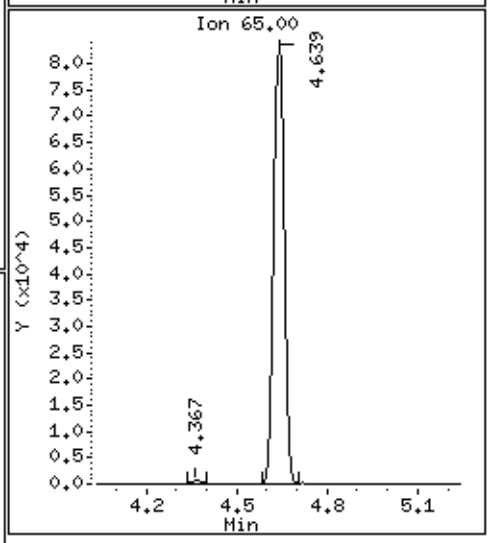
82 1,1-Dichloroethane

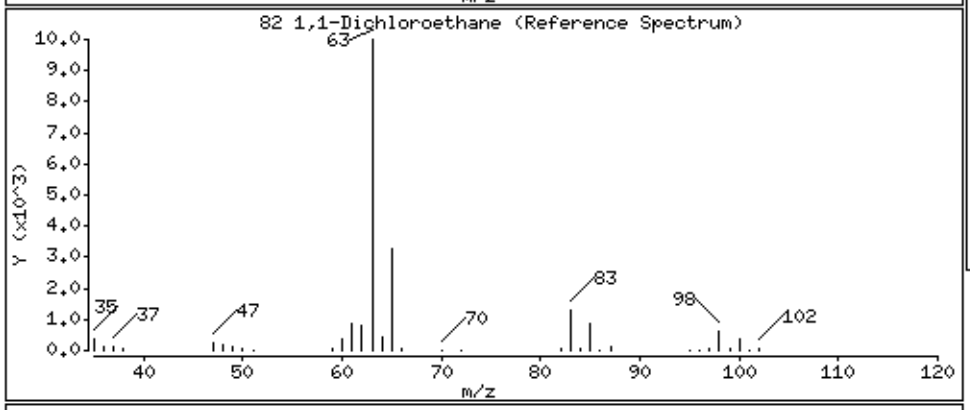
Concentration: 47.416 PPBV

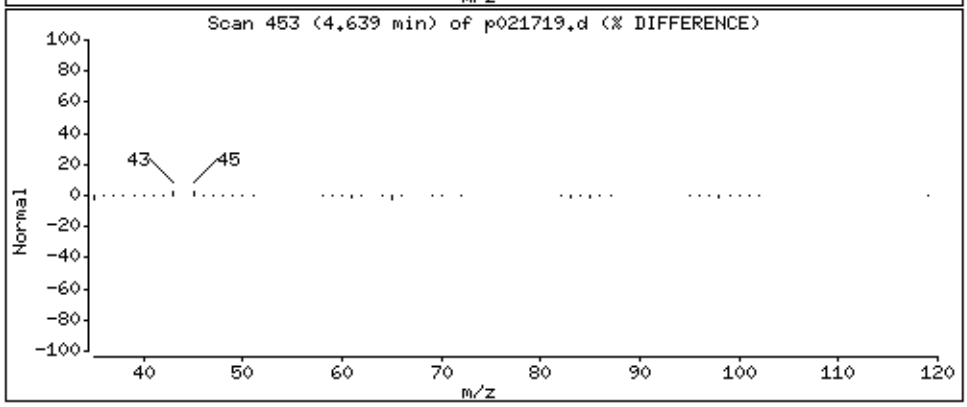












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

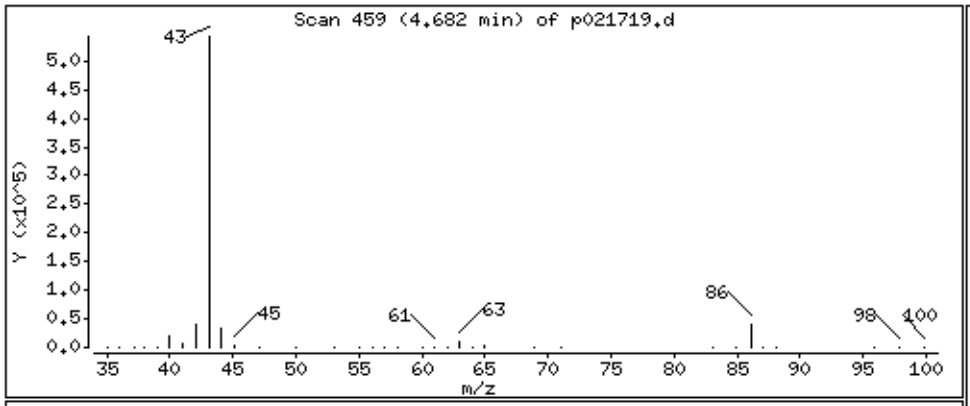
Operator: gd

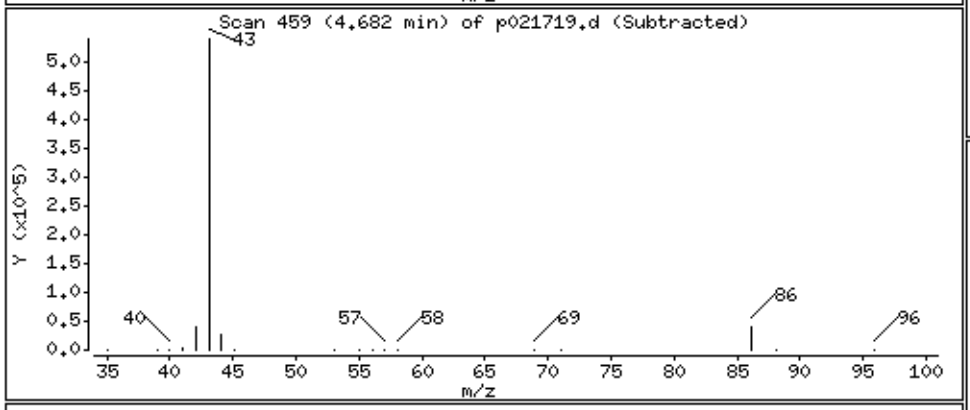
Column phase: RTX-624

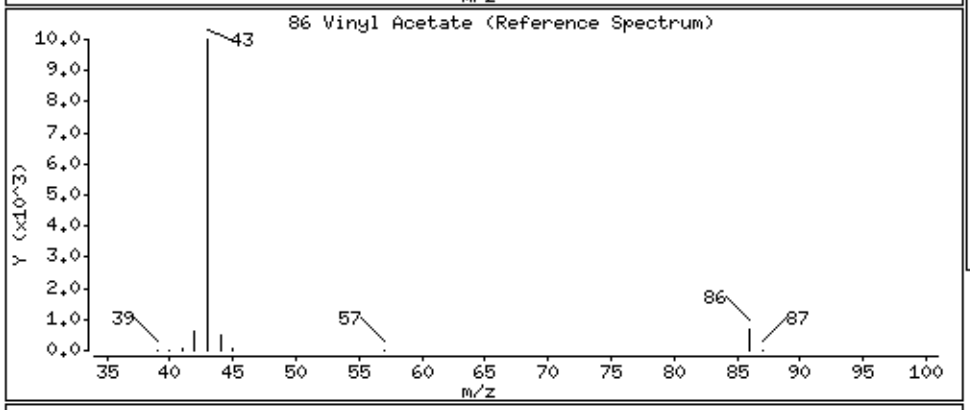
Column diameter: 0.25

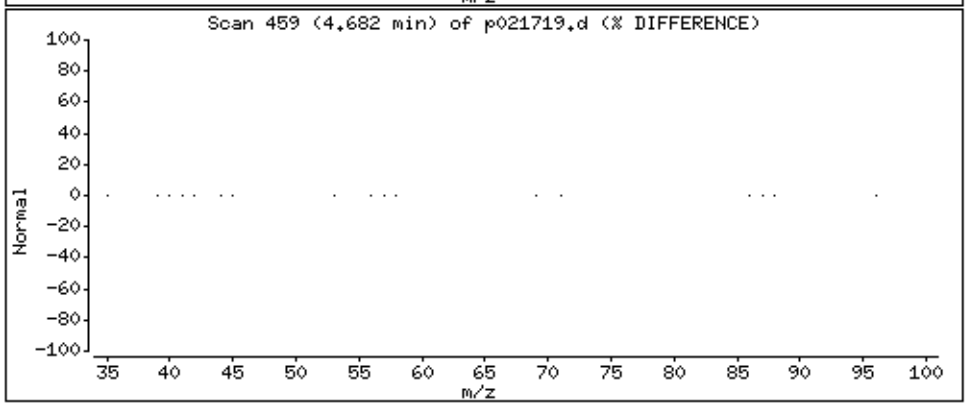
86 Vinyl Acetate

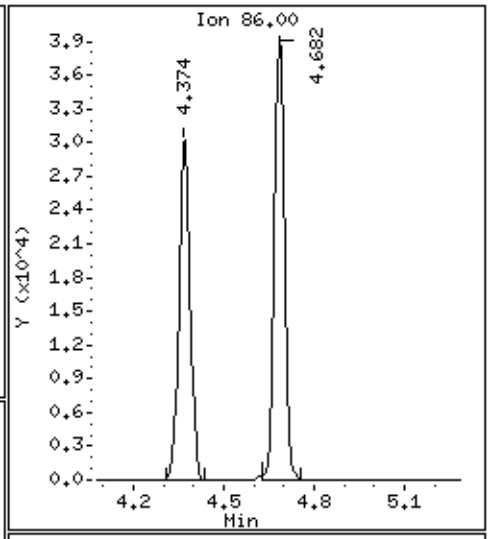
Concentration: 49.293 PPBV

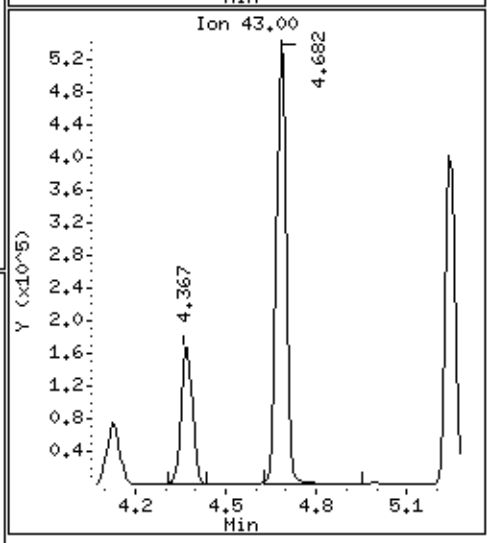












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

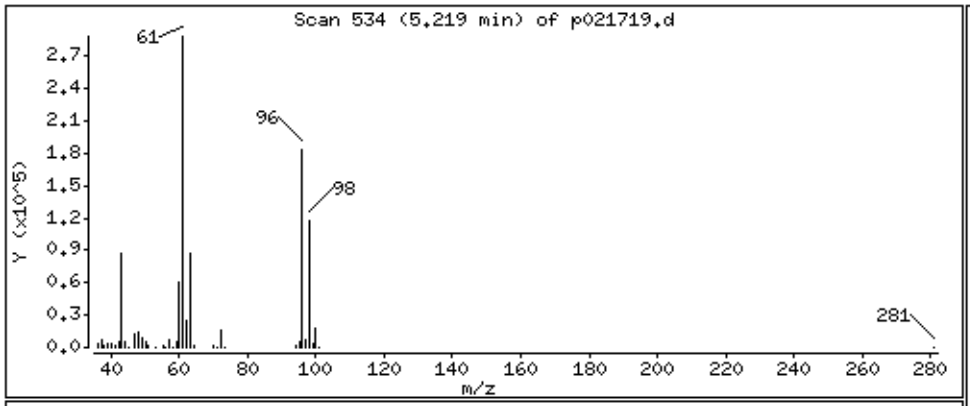
Operator: gd

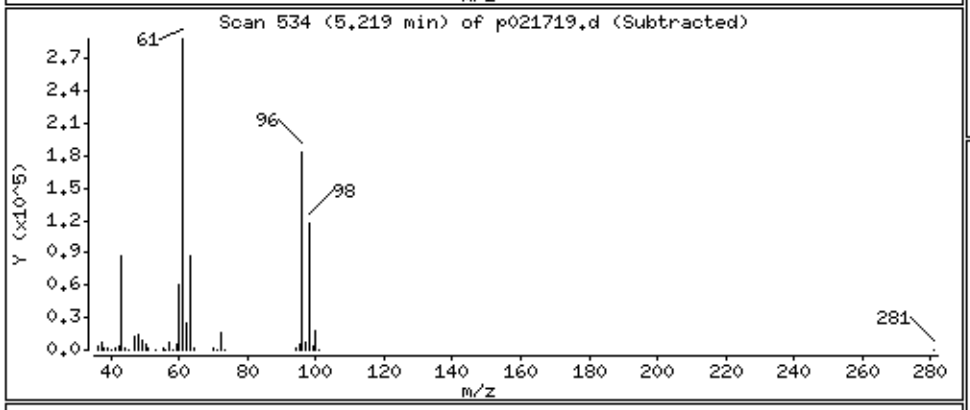
Column phase: RTX-624

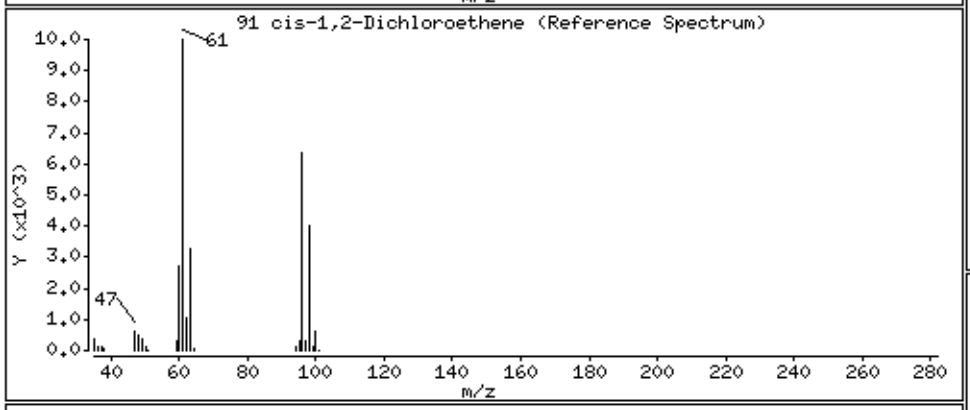
Column diameter: 0.25

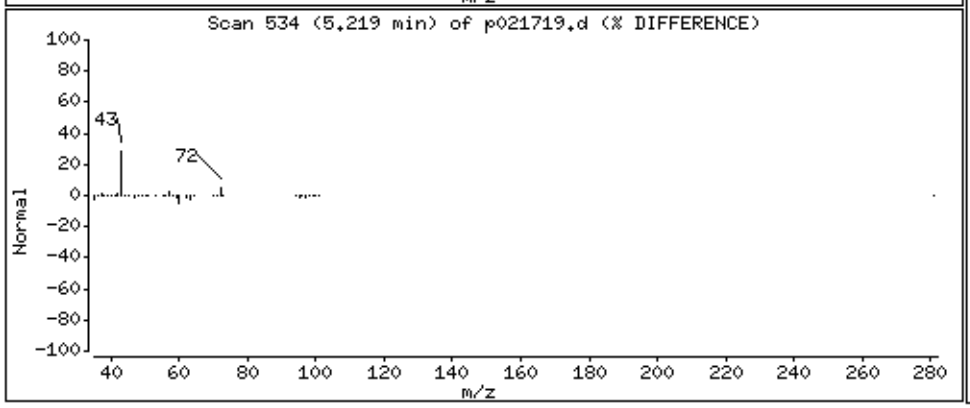
91 cis-1,2-Dichloroethene

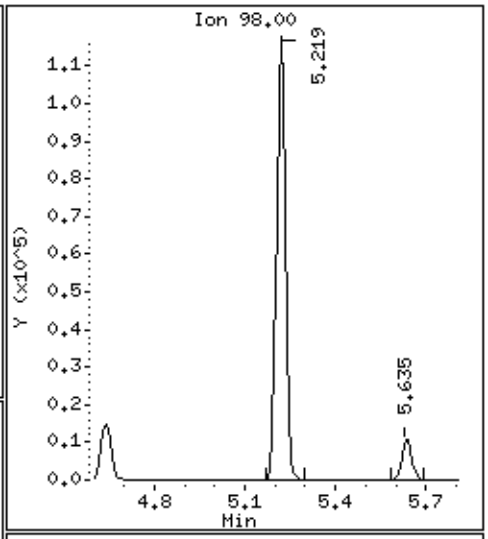
Concentration: 53.984 PPBV

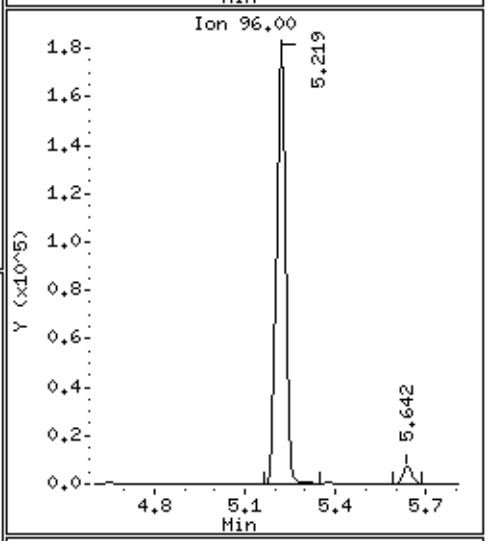


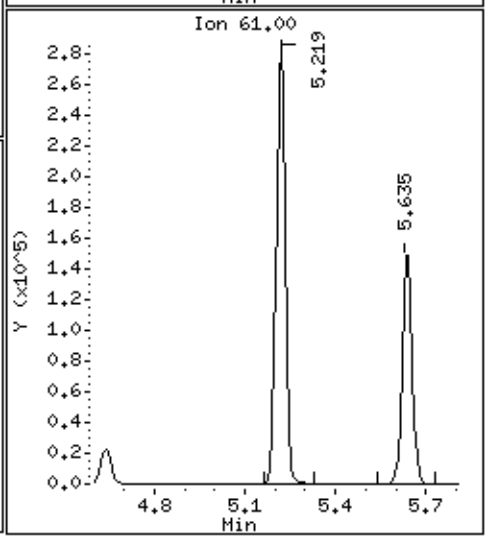












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

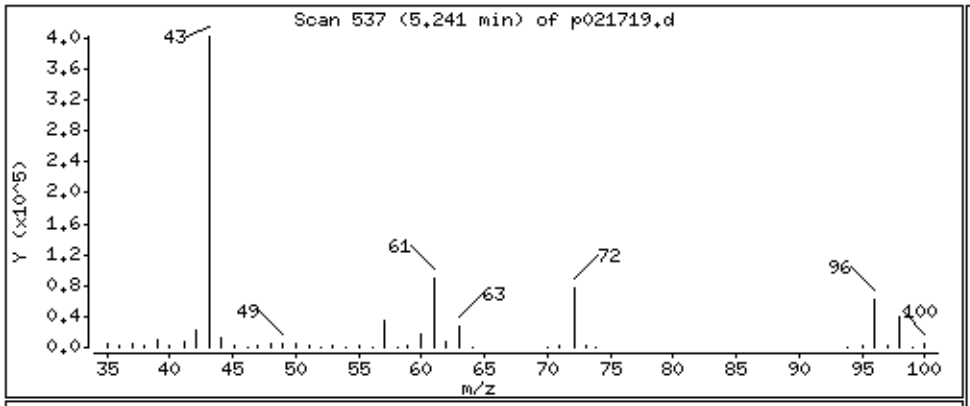
Operator: gd

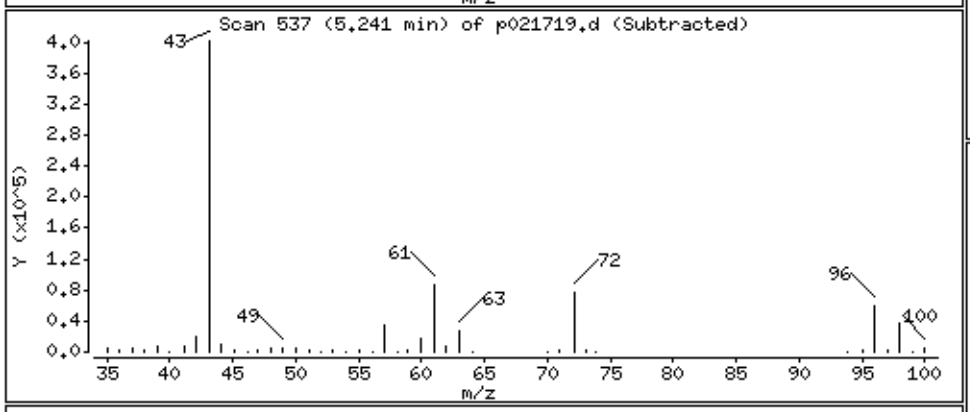
Column phase: RTX-624

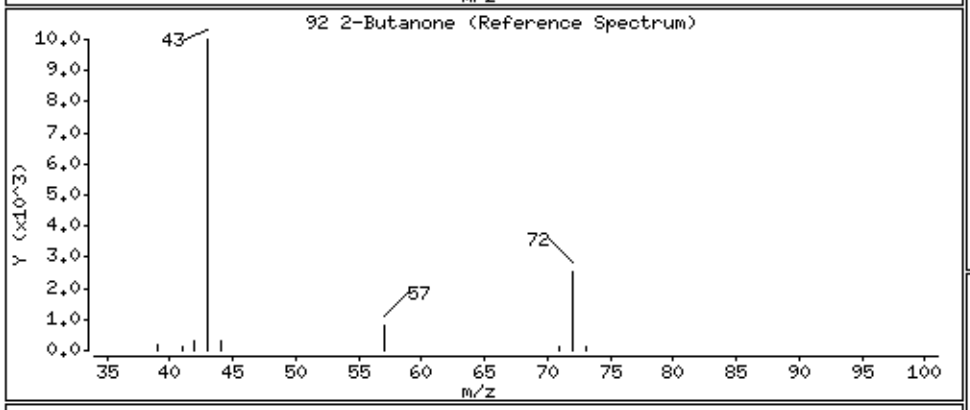
Column diameter: 0.25

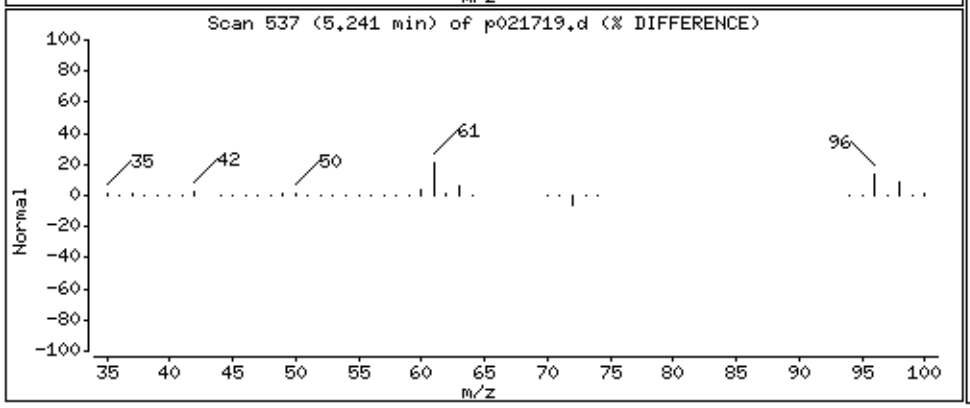
92 2-Butanone

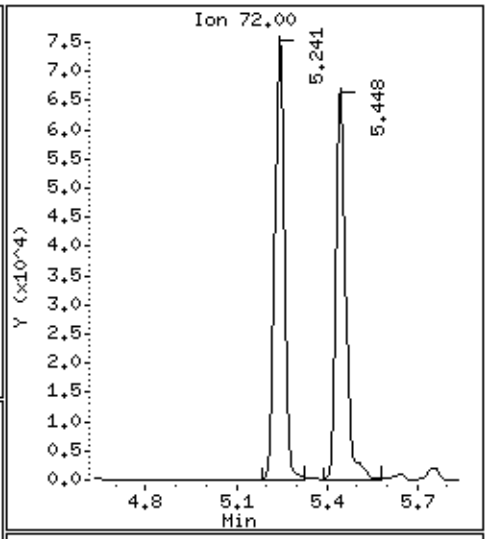
Concentration: 47.389 PPBV

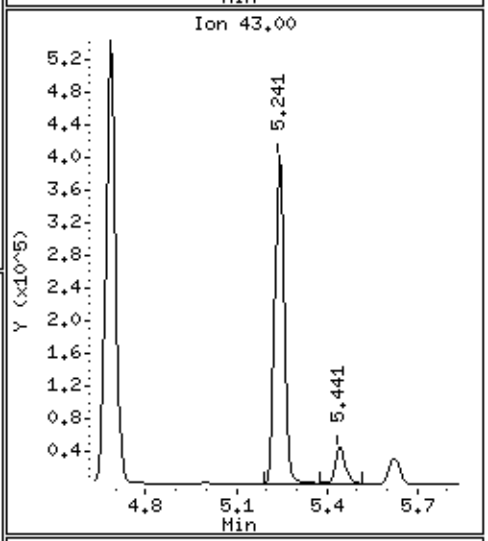


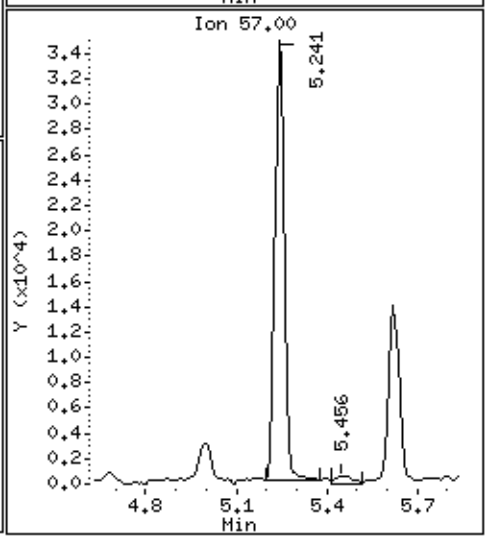












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

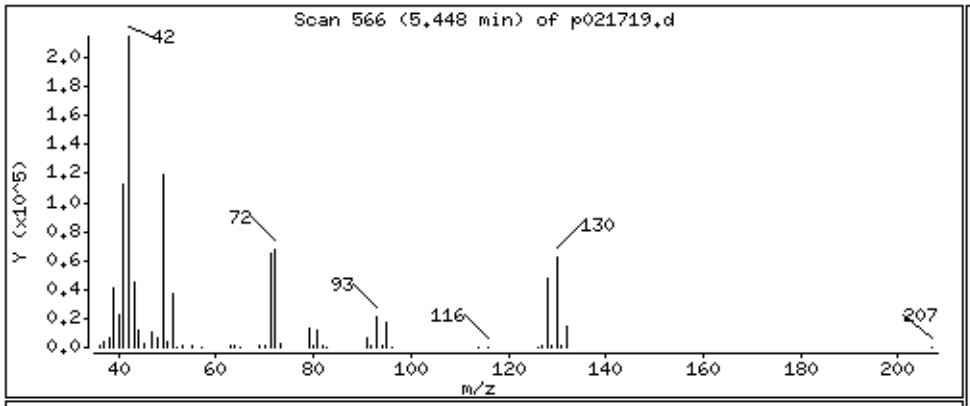
Operator: gd

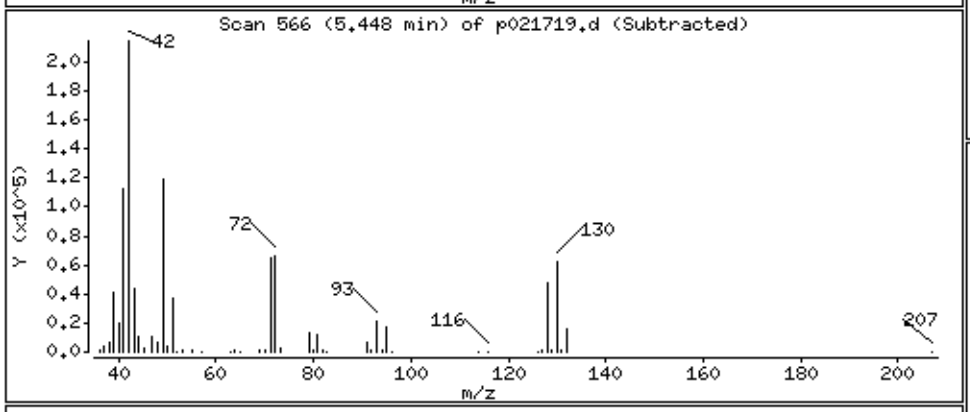
Column phase: RTX-624

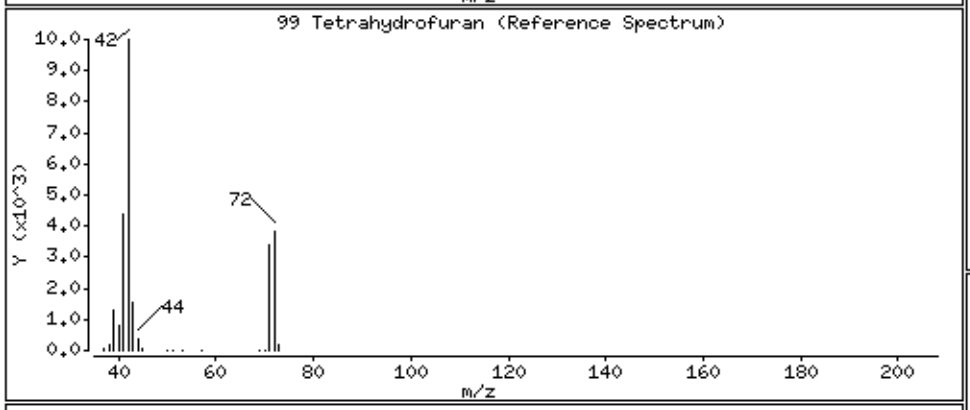
Column diameter: 0.25

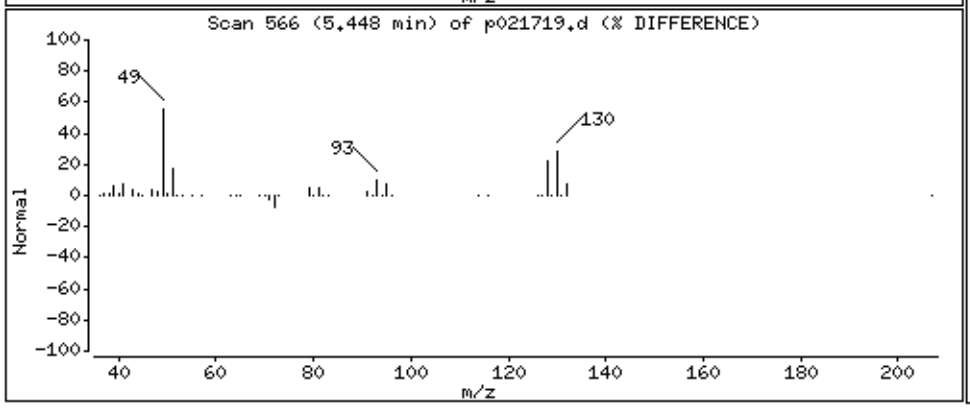
99 Tetrahydrofuran

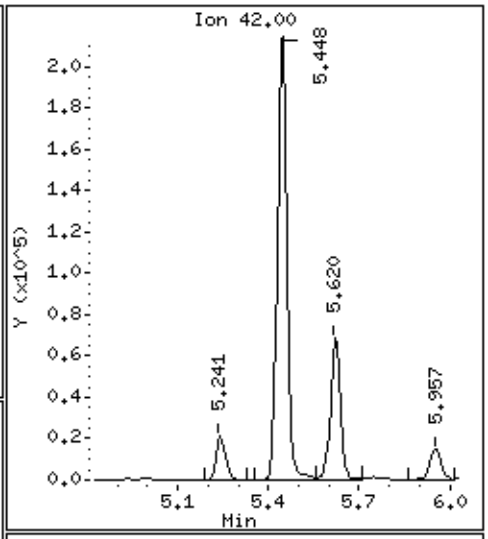
Concentration: 44.407 PPBV

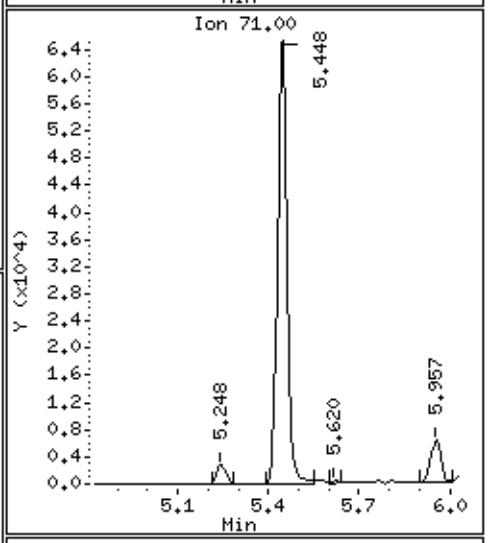


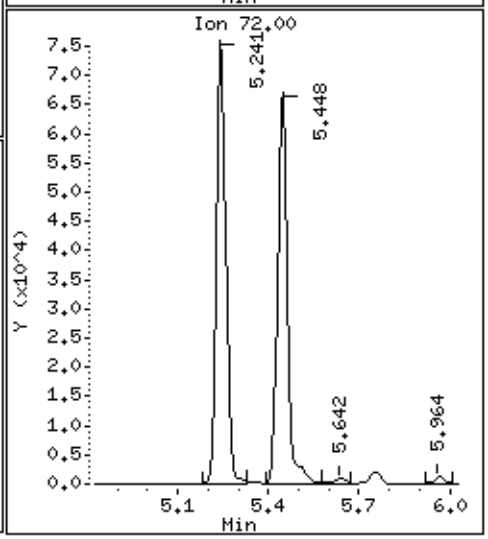












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

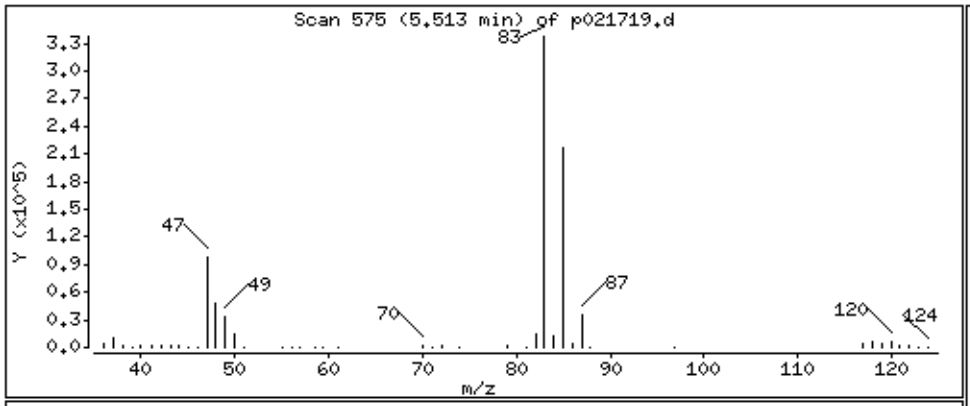
Operator: gd

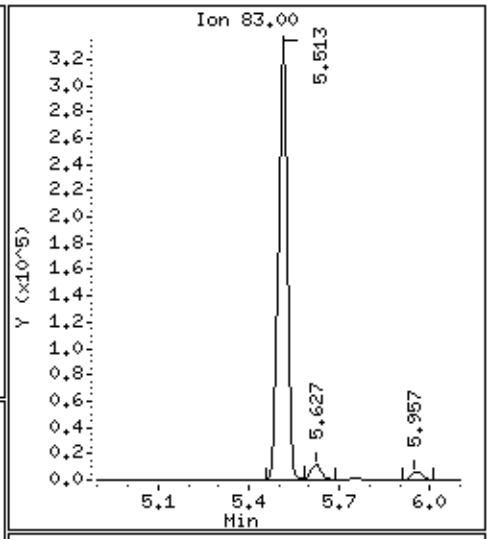
Column phase: RTX-624

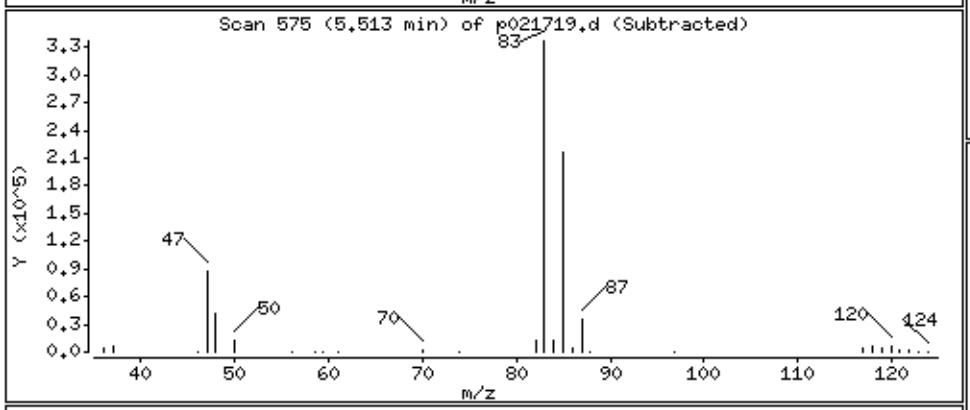
Column diameter: 0.25

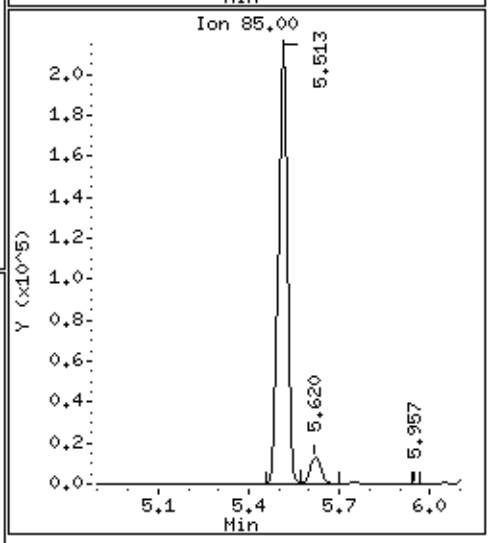
100 Chloroform

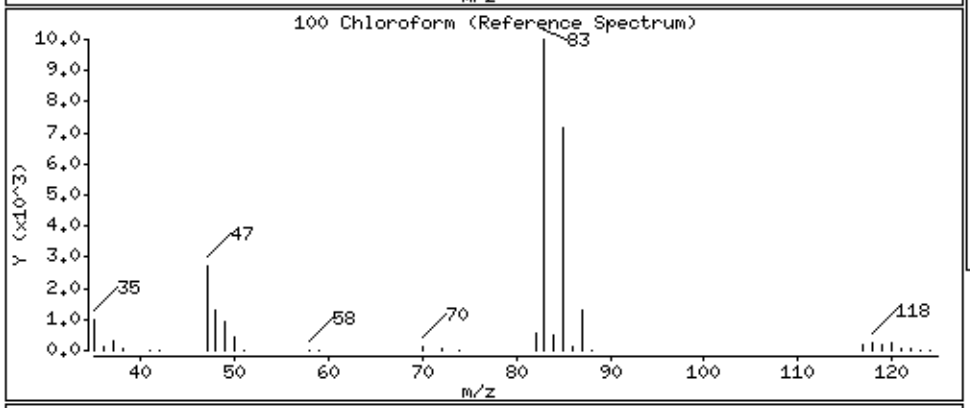
Concentration: 46.826 PPBV

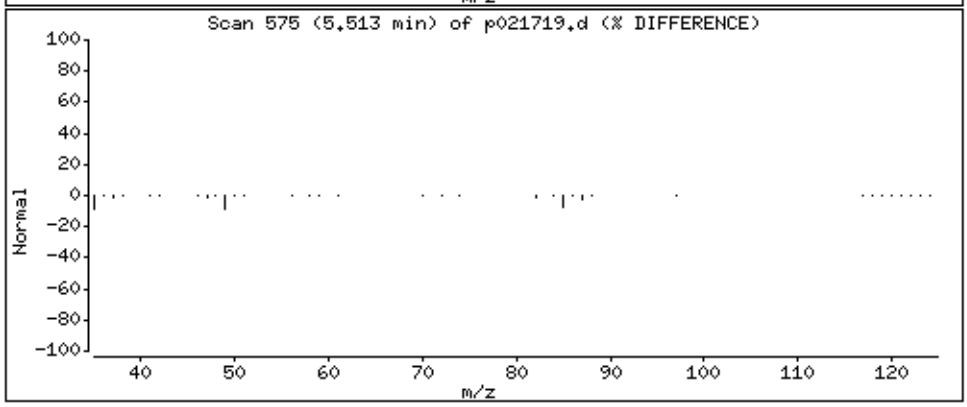












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

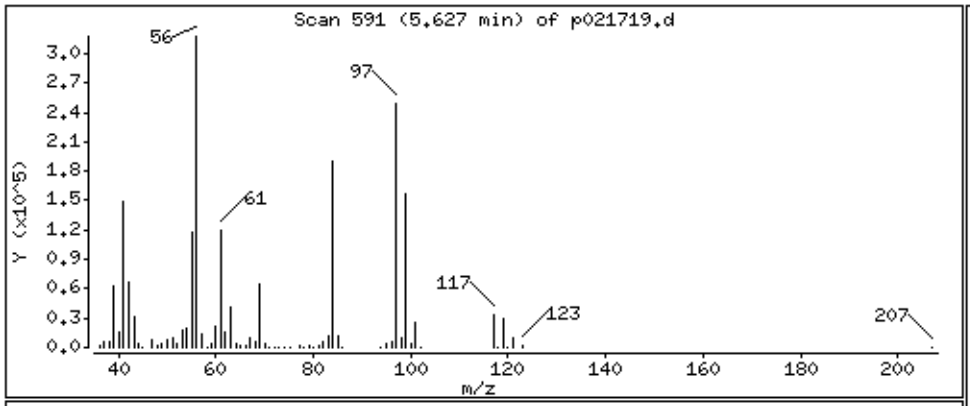
Operator: gd

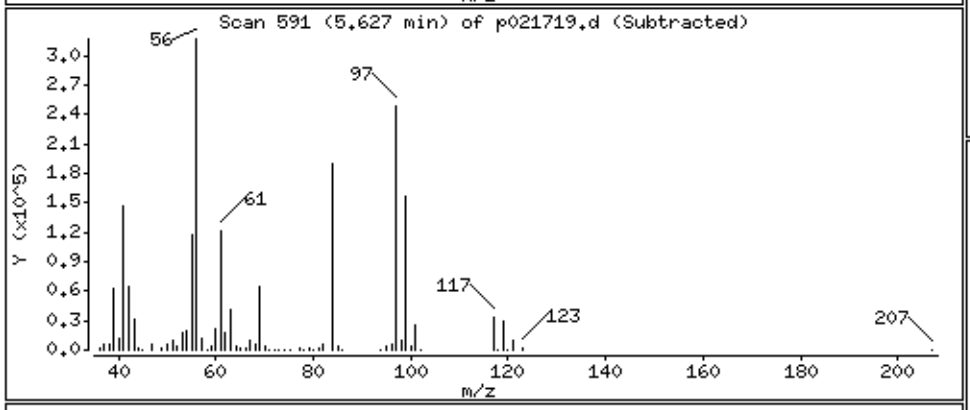
Column phase: RTX-624

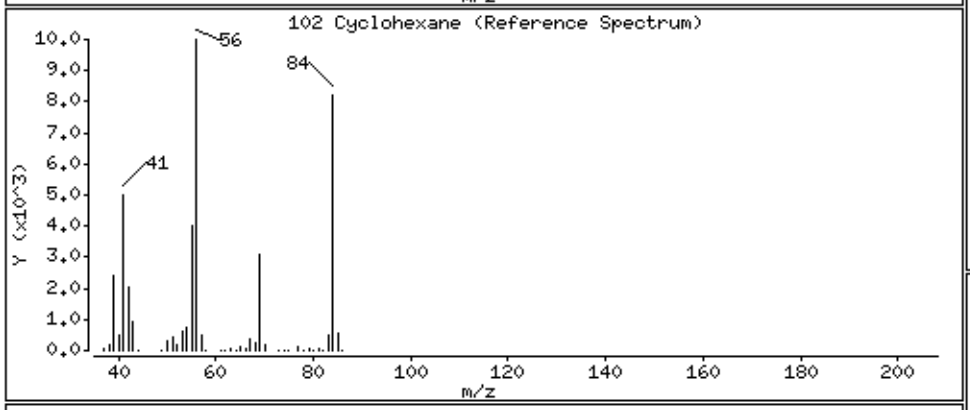
Column diameter: 0.25

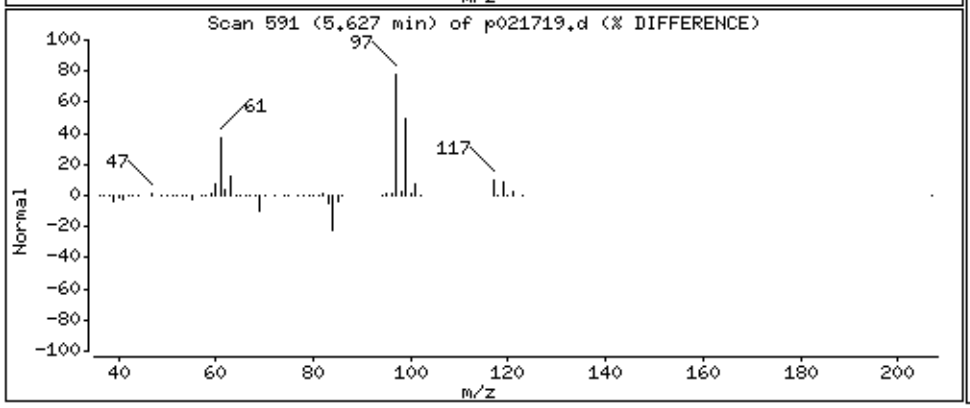
102 Cyclohexane

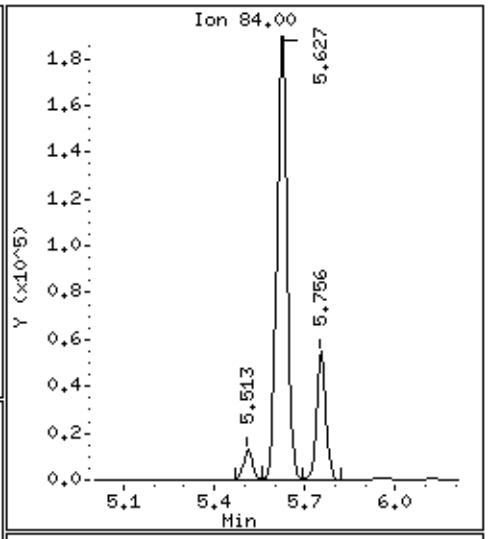
Concentration: 48.372 PPBV

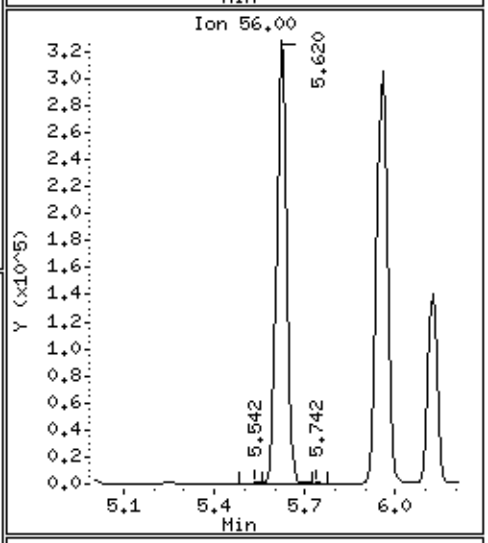


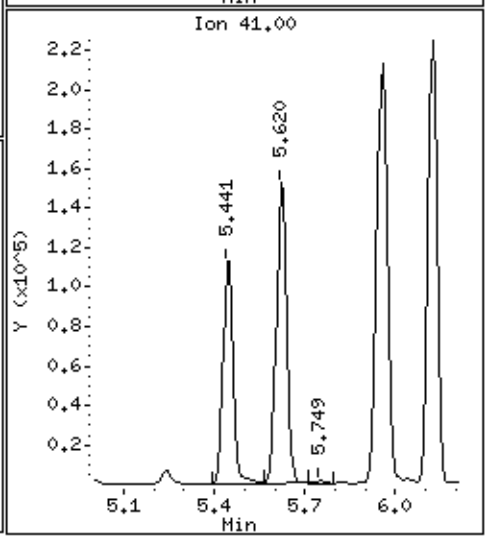












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

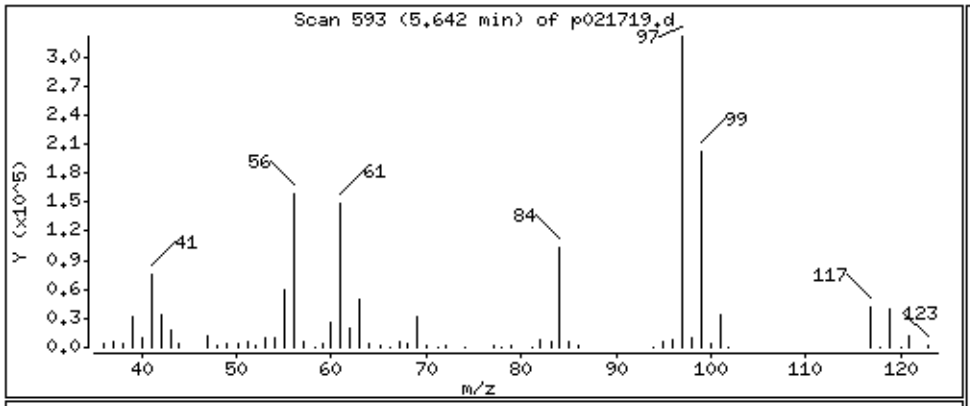
Operator: gd

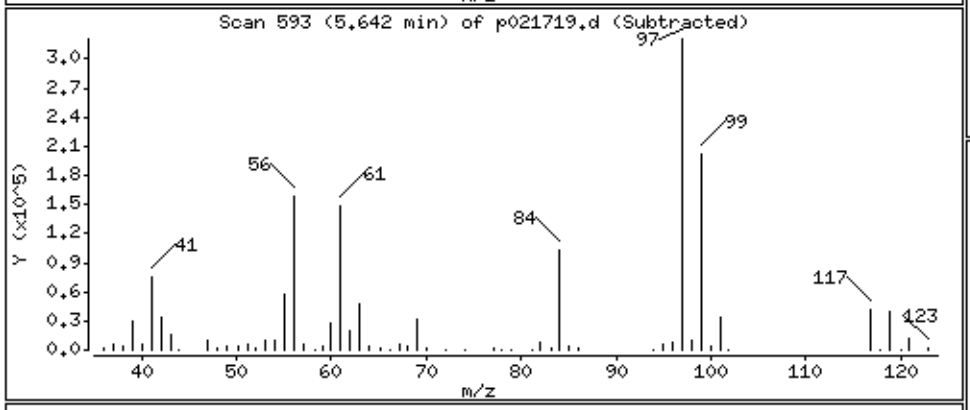
Column phase: RTX-624

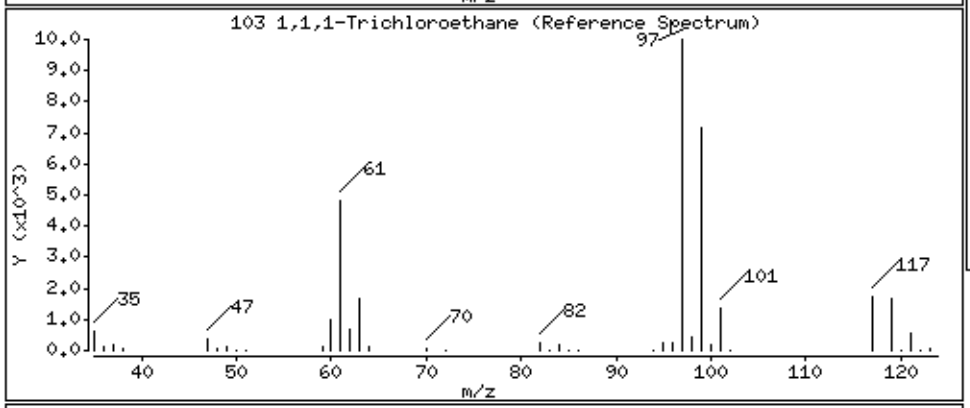
Column diameter: 0.25

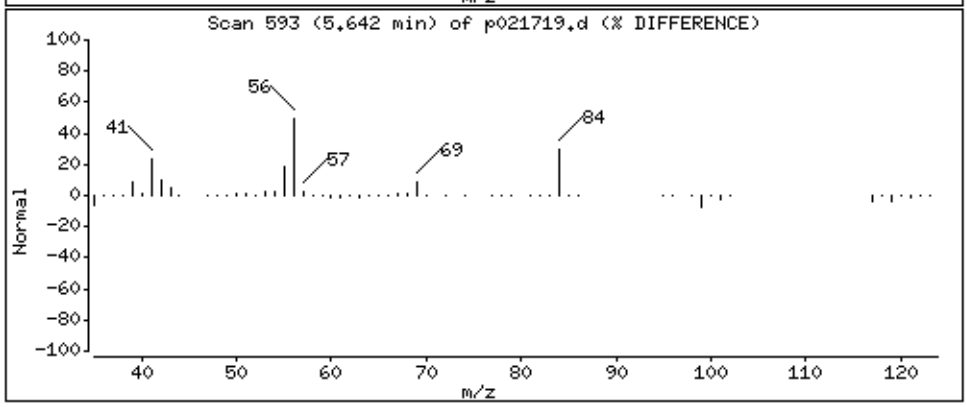
103 1,1,1-Trichloroethane

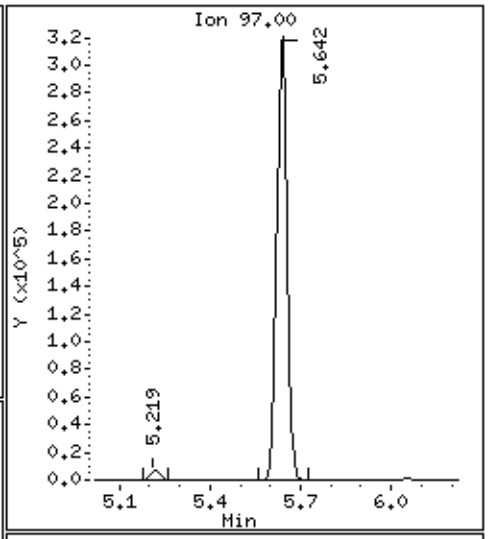
Concentration: 48.247 PPBV

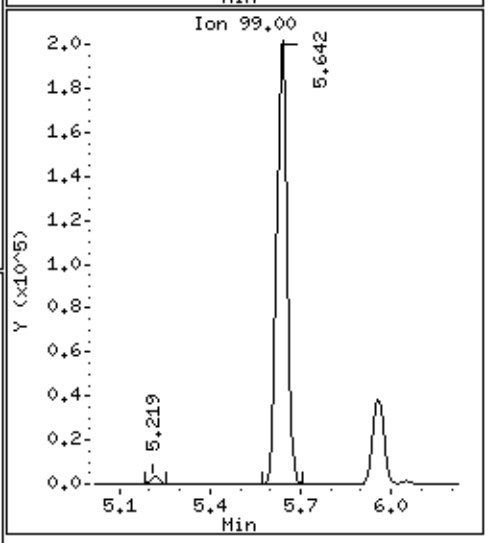












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

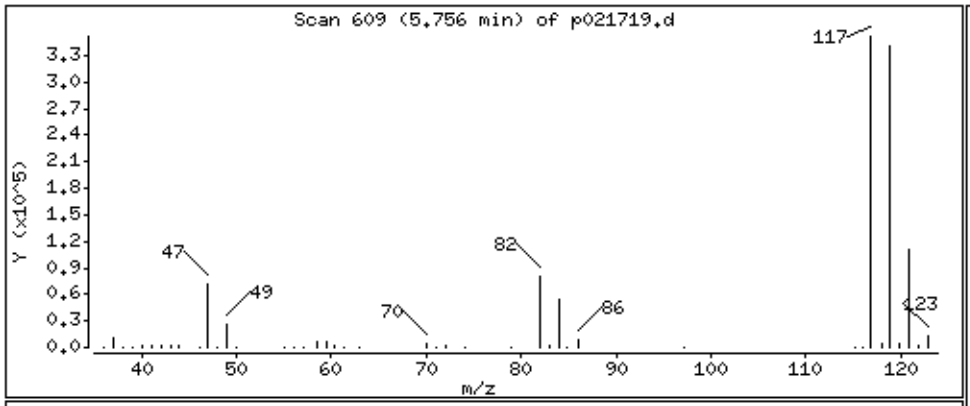
Operator: gd

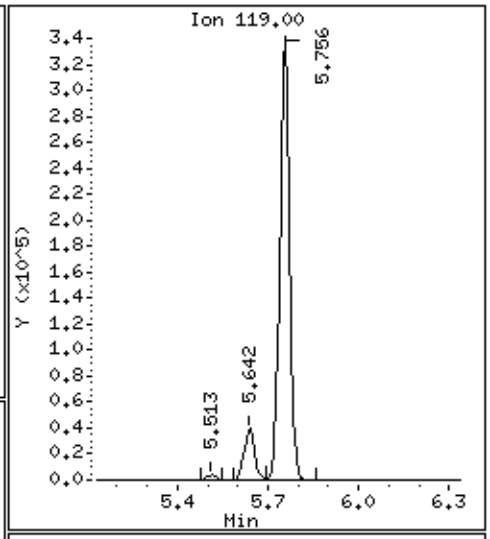
Column phase: RTX-624

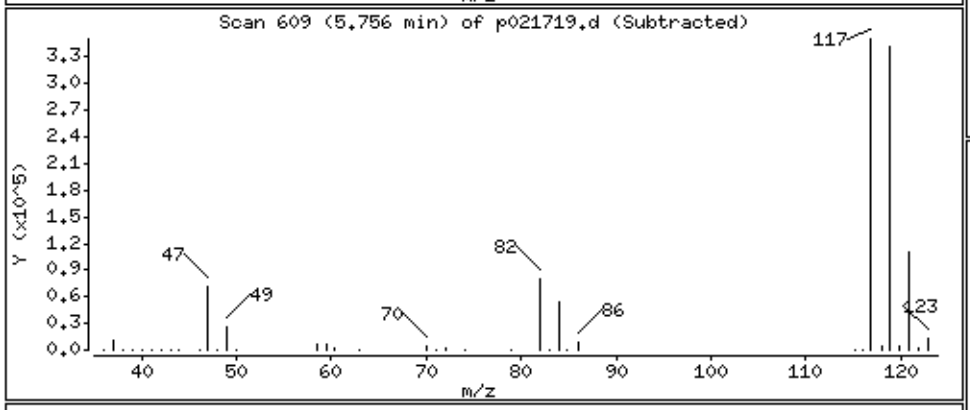
Column diameter: 0.25

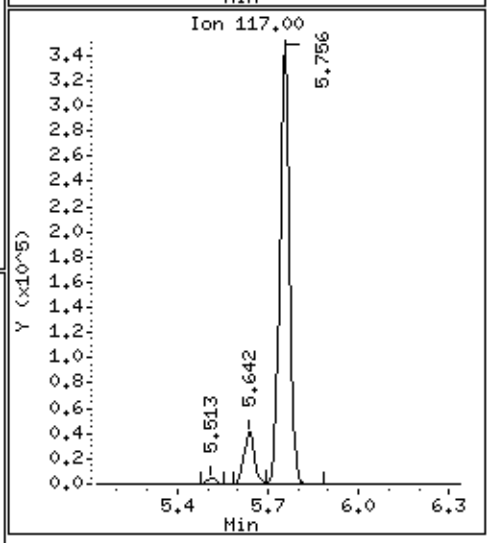
106 Carbon Tetrachloride

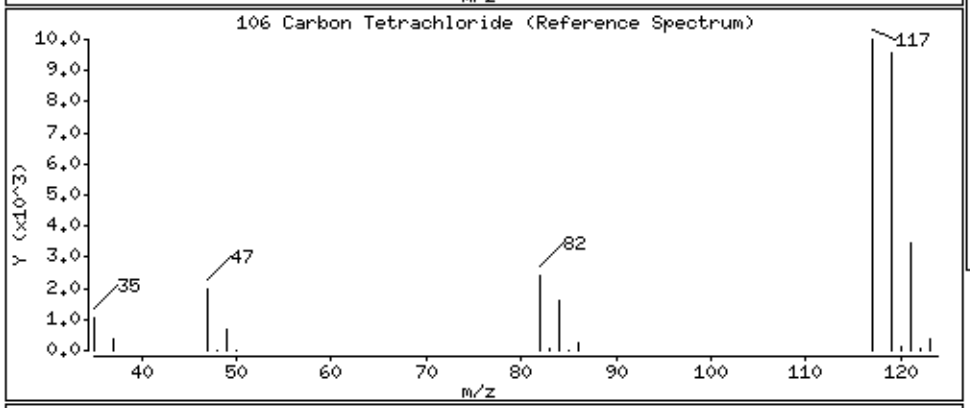
Concentration: 48.243 PPBV

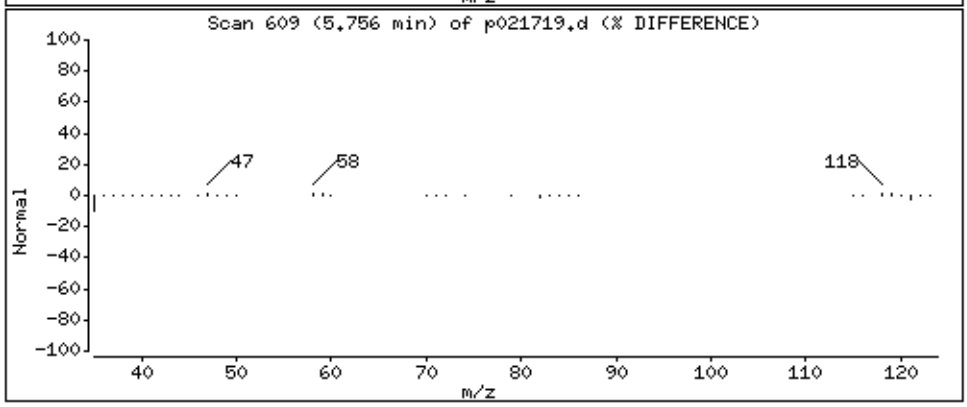












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

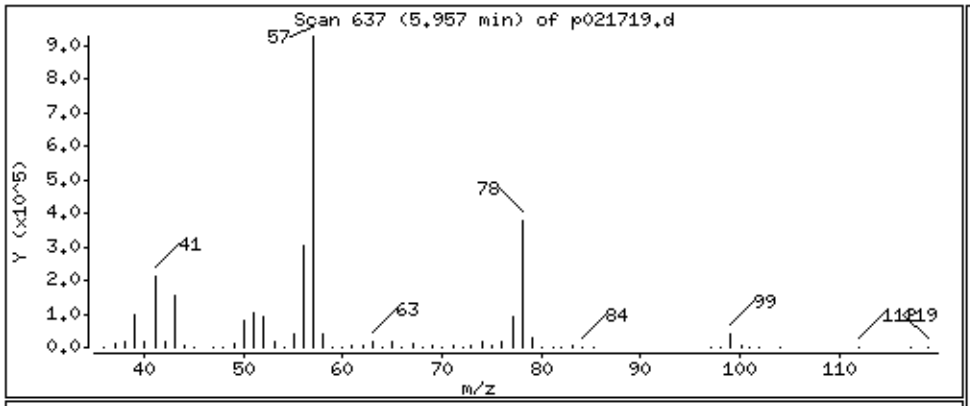
Operator: gd

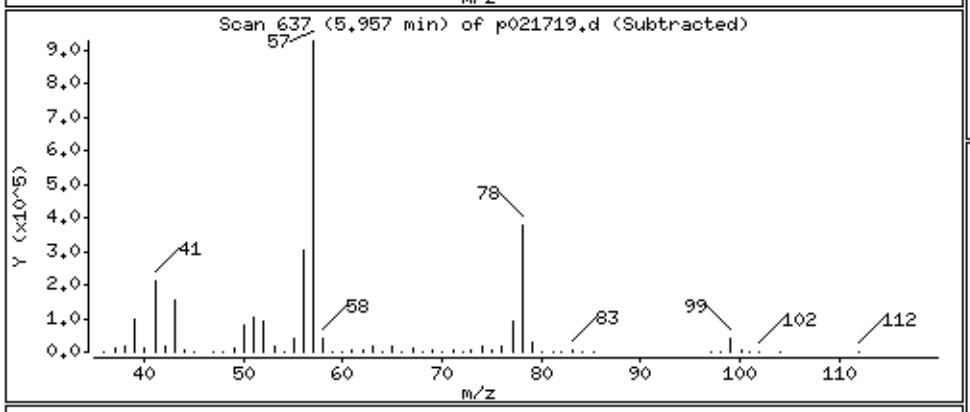
Column phase: RTX-624

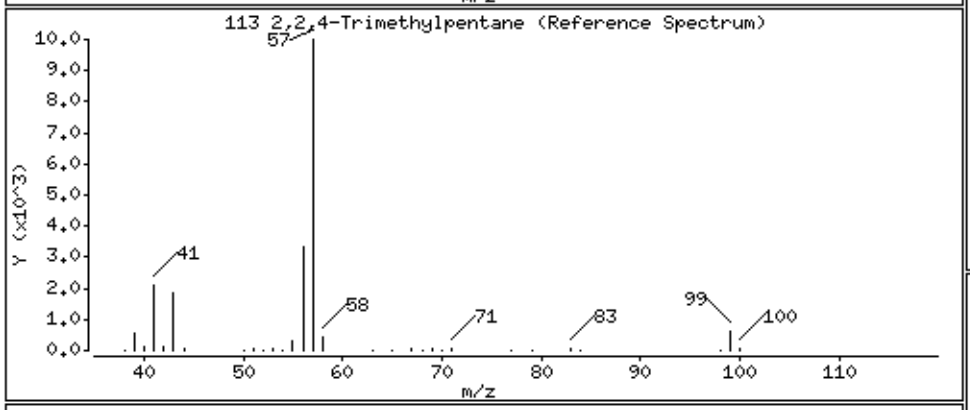
Column diameter: 0.25

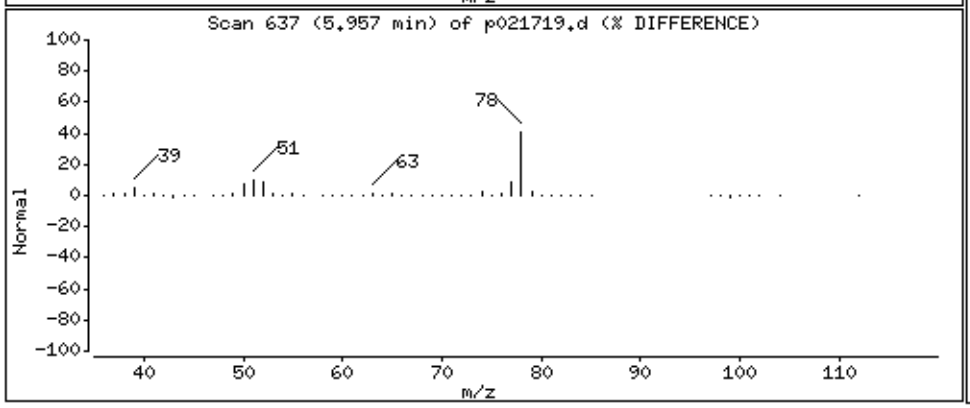
113 2,2,4-Trimethylpentane

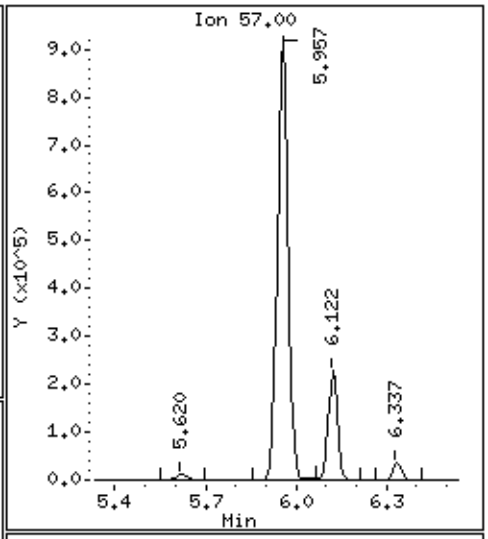
Concentration: 47.265 PPBV

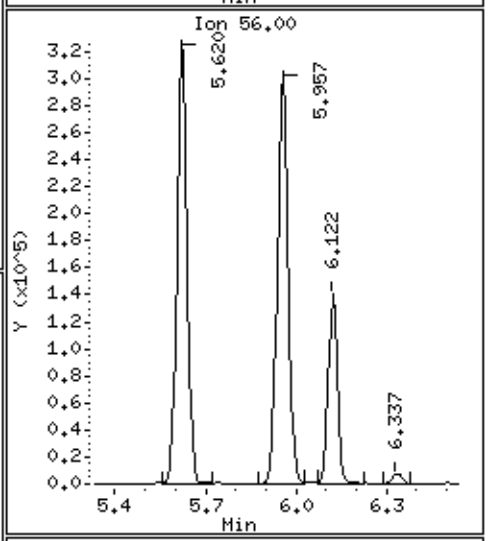


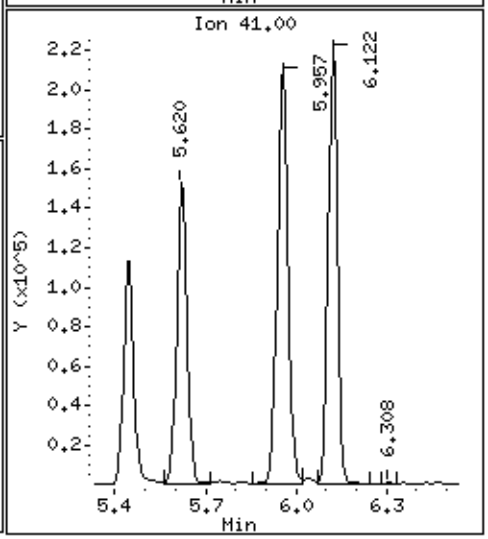












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

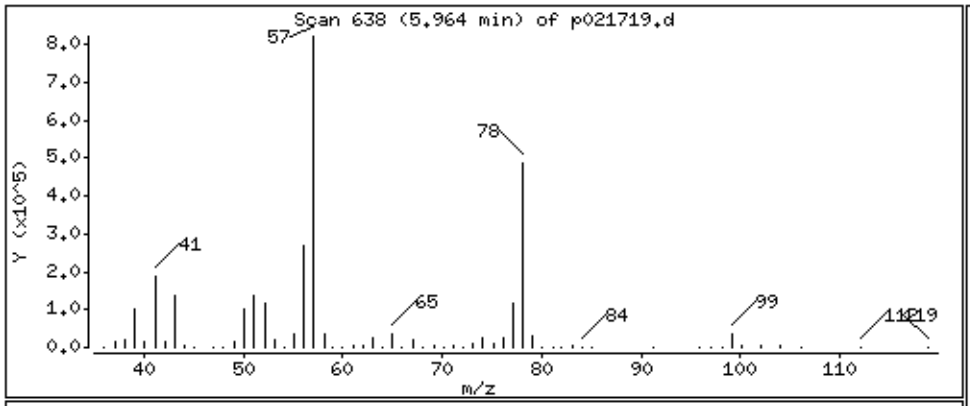
Operator: gd

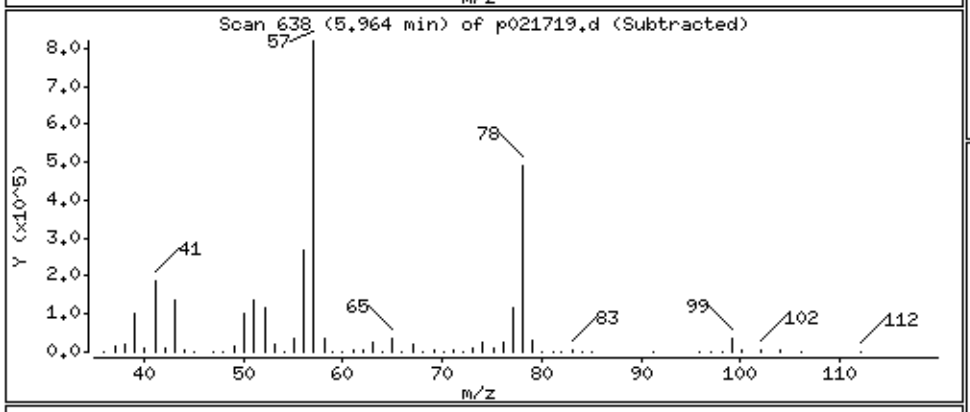
Column phase: RTX-624

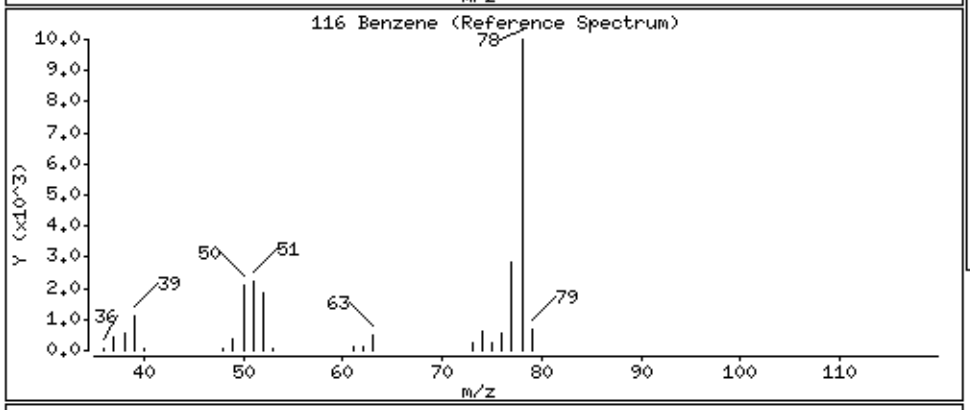
Column diameter: 0.25

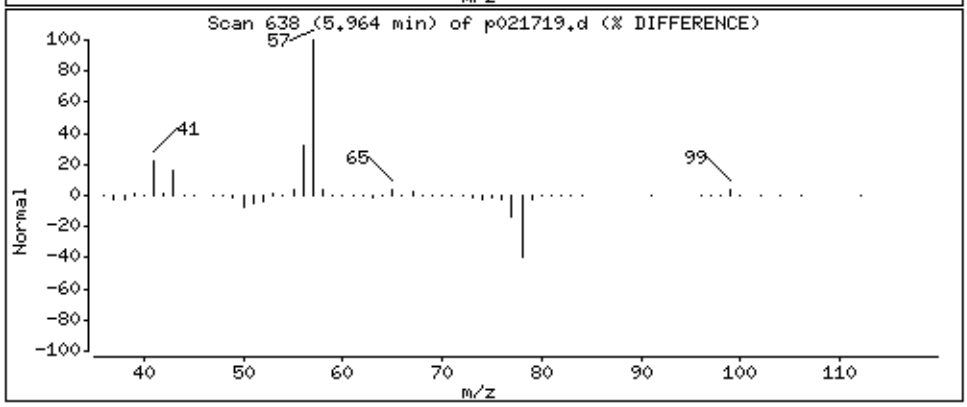
116 Benzene

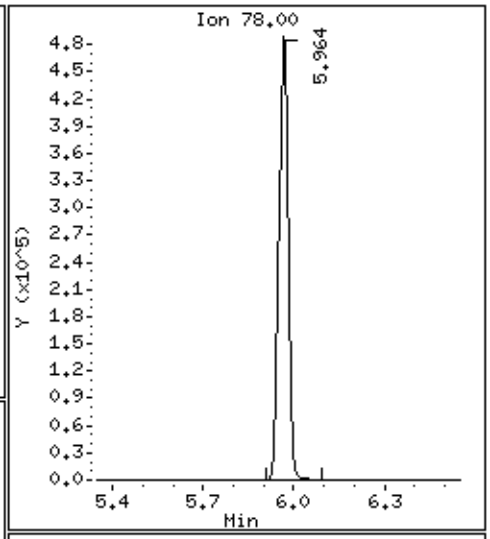
Concentration: 45.786 PPBV

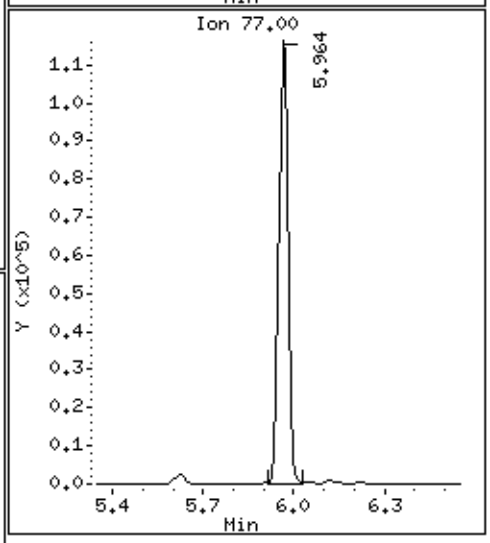












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

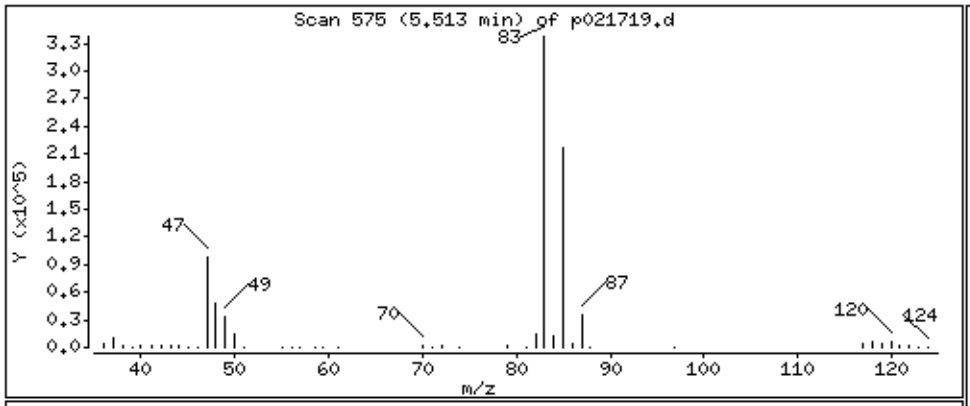
Operator: gd

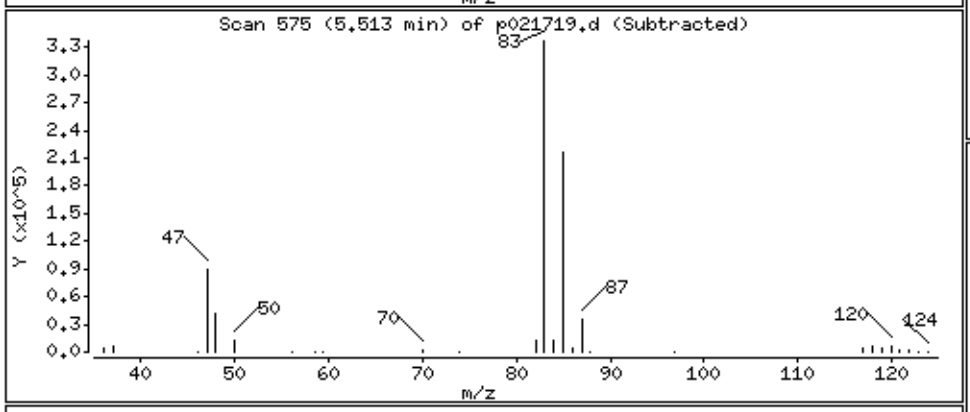
Column phase: RTX-624

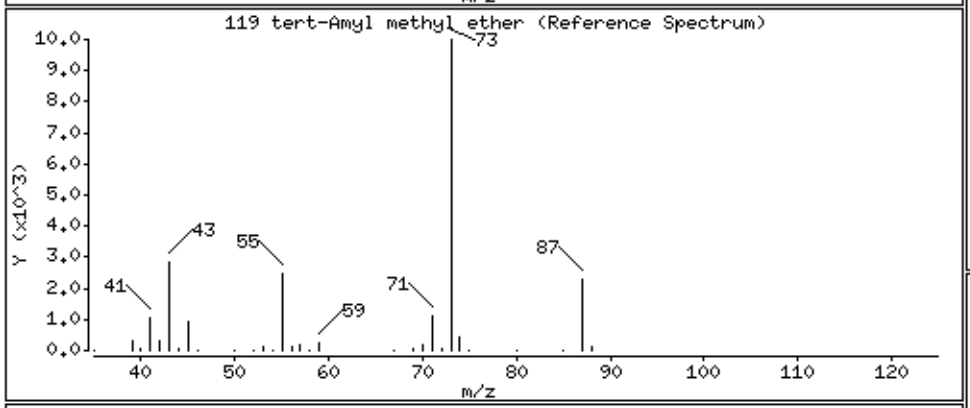
Column diameter: 0.25

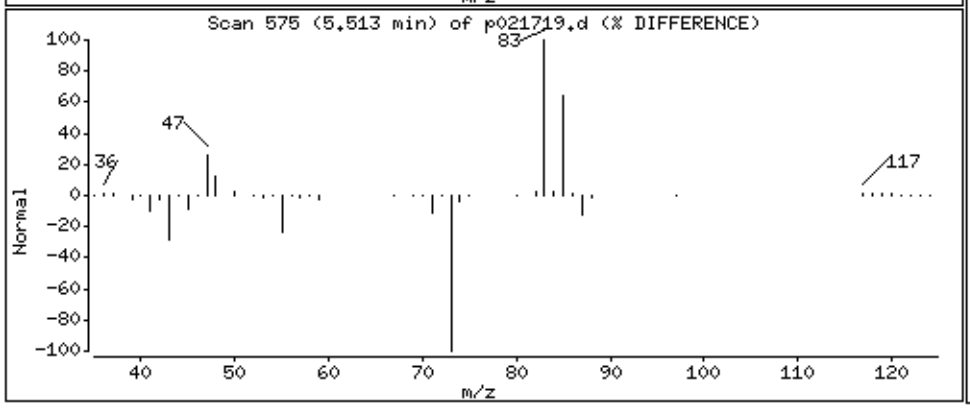
119 tert-Amyl methyl ether

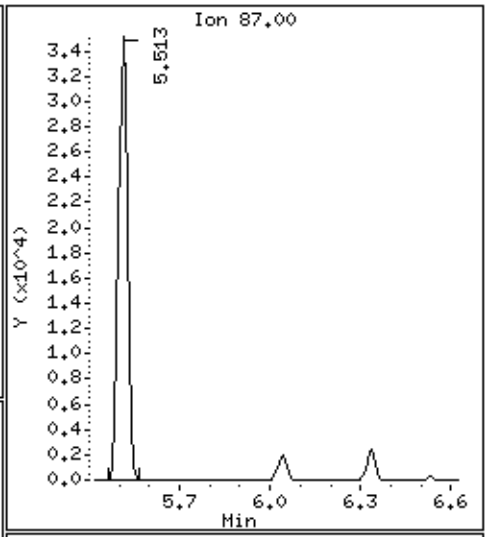
Concentration: 14.148 PPBV

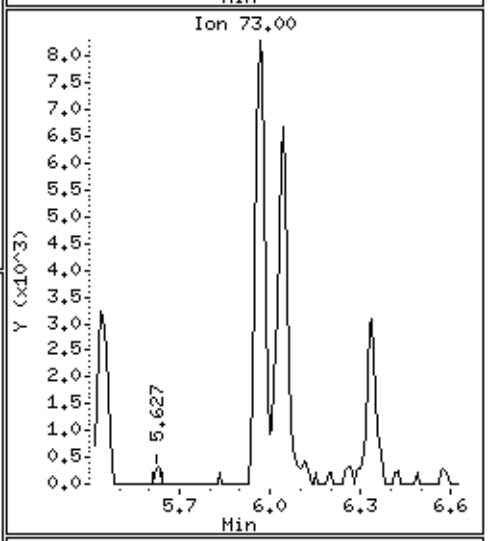


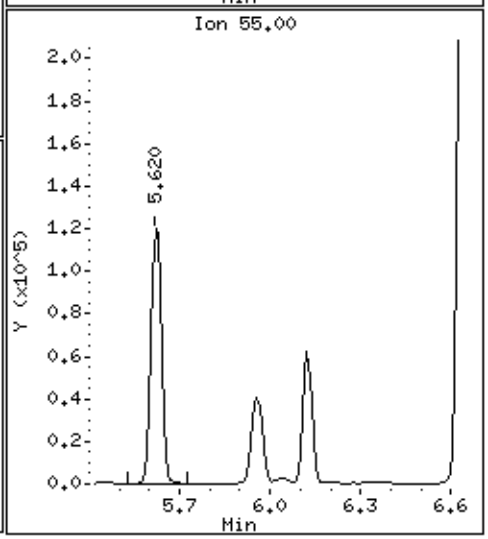












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

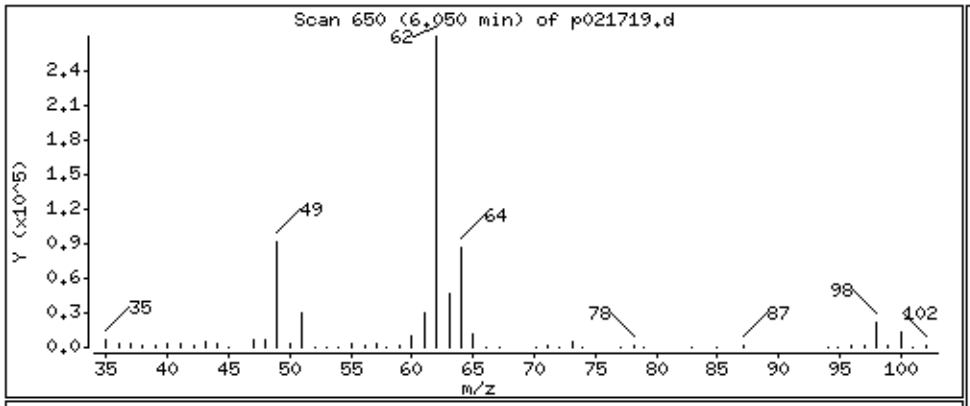
Operator: gd

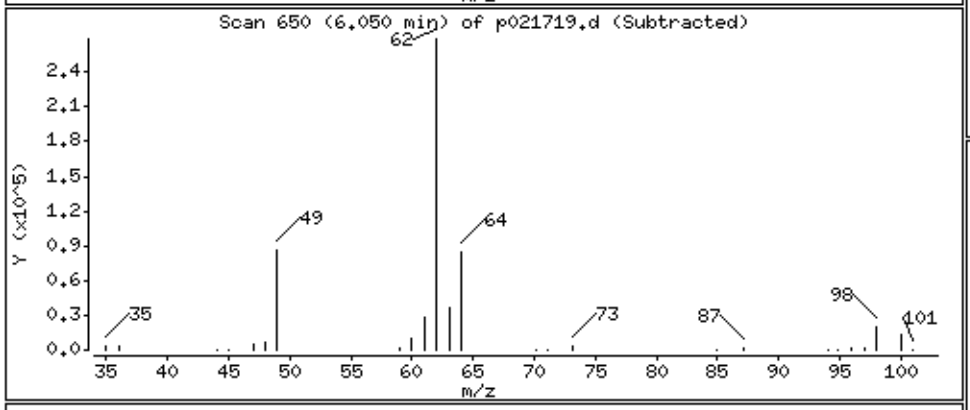
Column phase: RTX-624

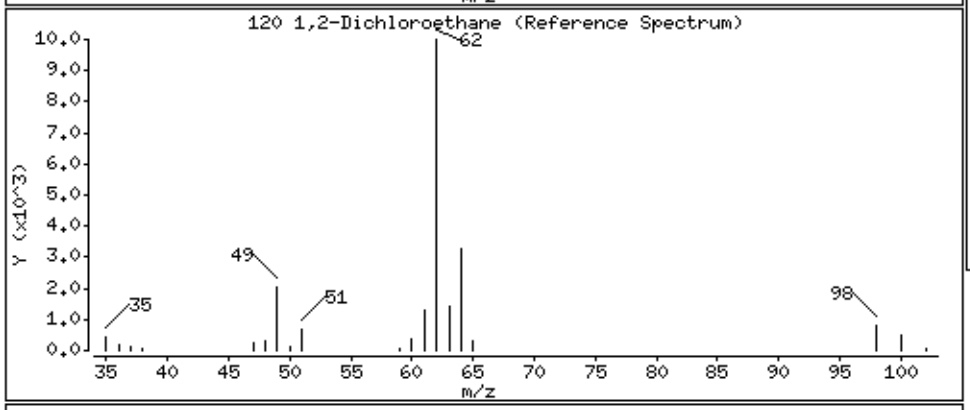
Column diameter: 0.25

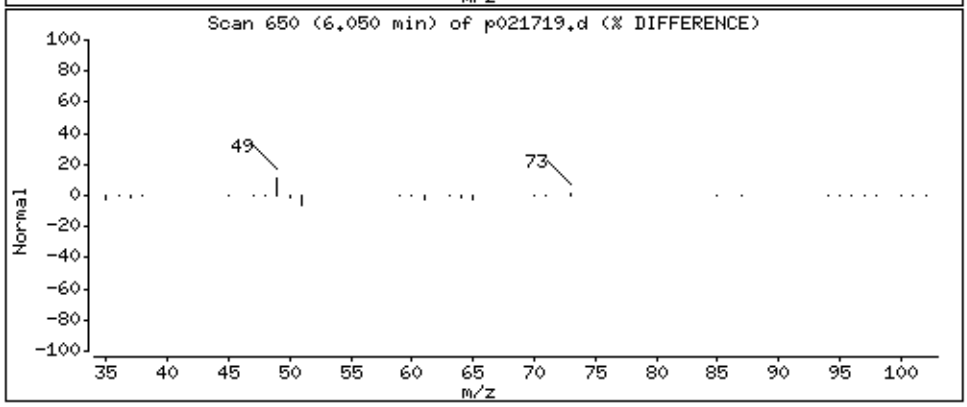
120 1,2-Dichloroethane

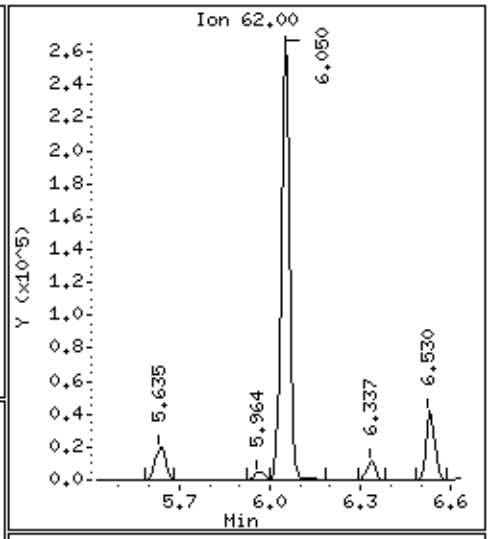
Concentration: 47.406 PPBV

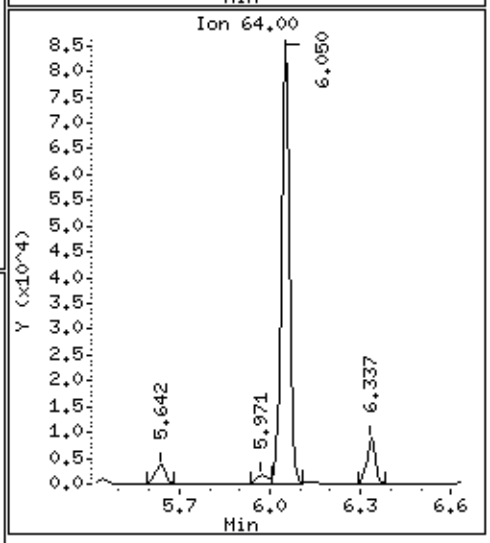












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

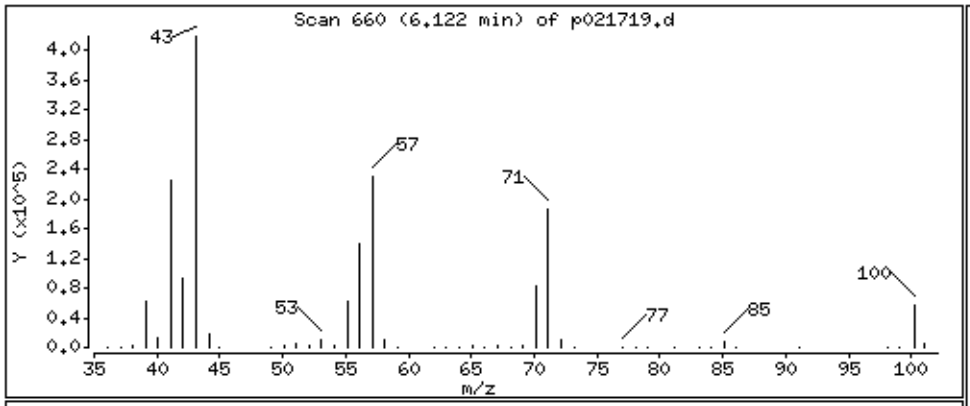
Operator: gd

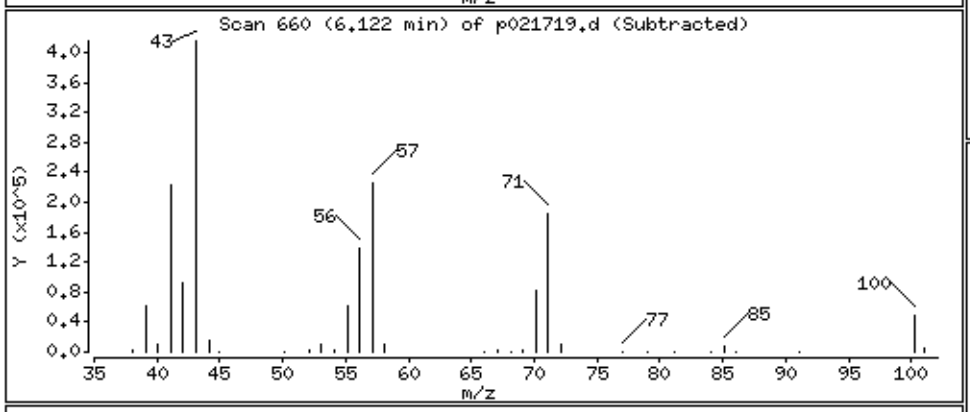
Column phase: RTX-624

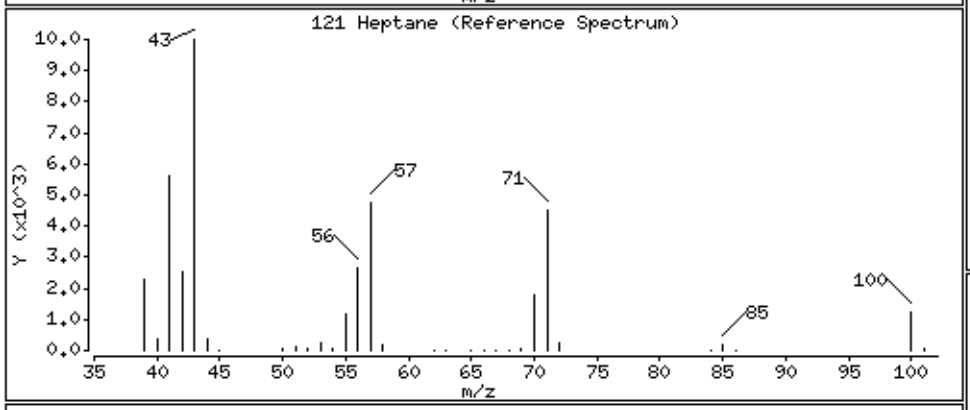
Column diameter: 0.25

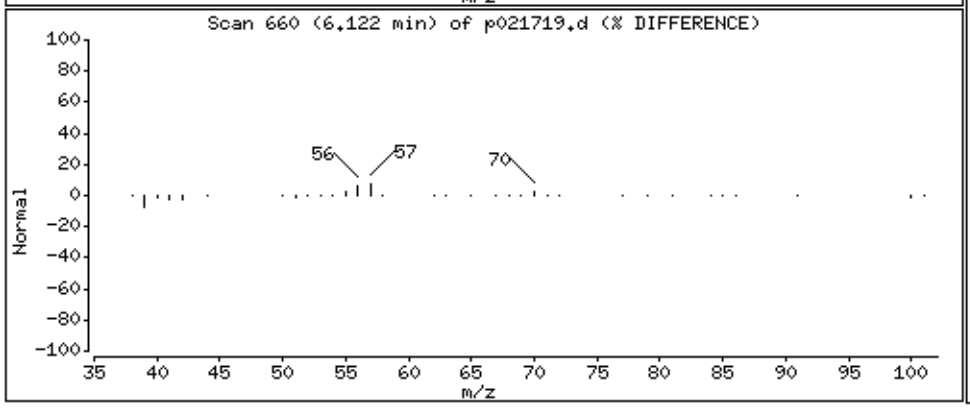
121 Heptane

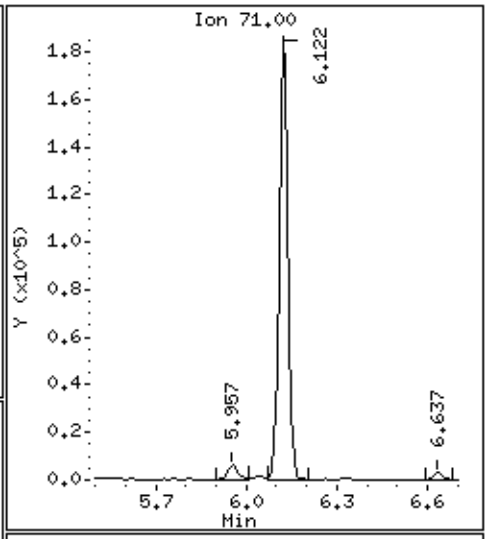
Concentration: 42.682 PPBV

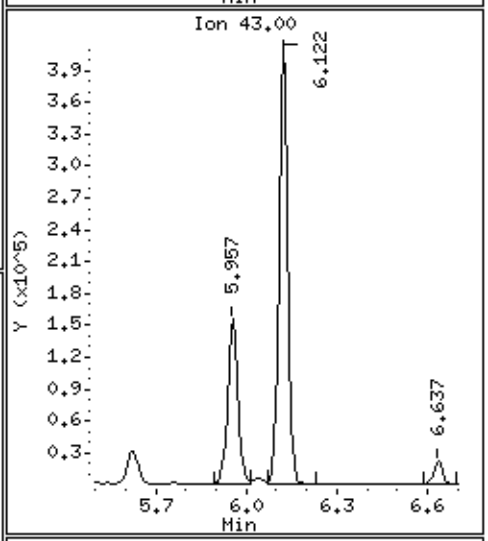


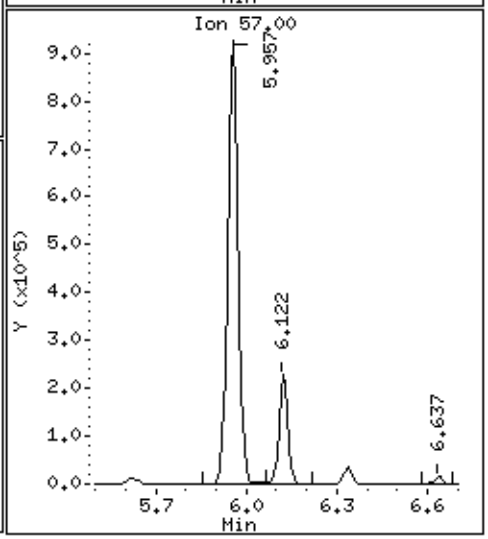












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

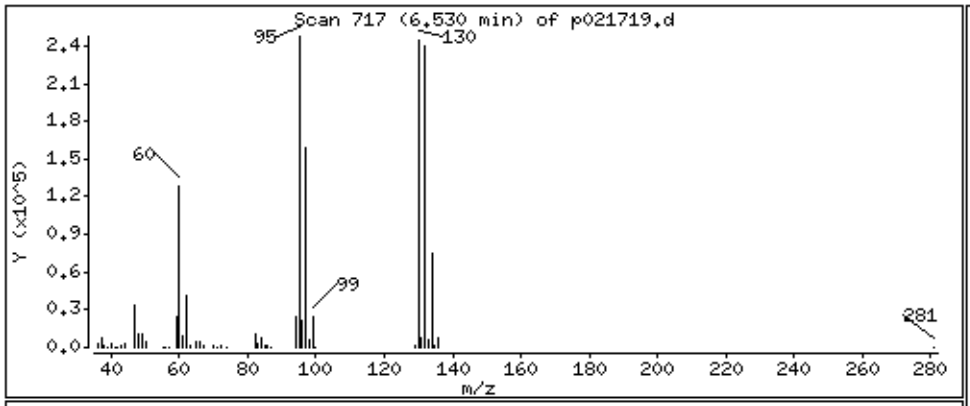
Operator: gd

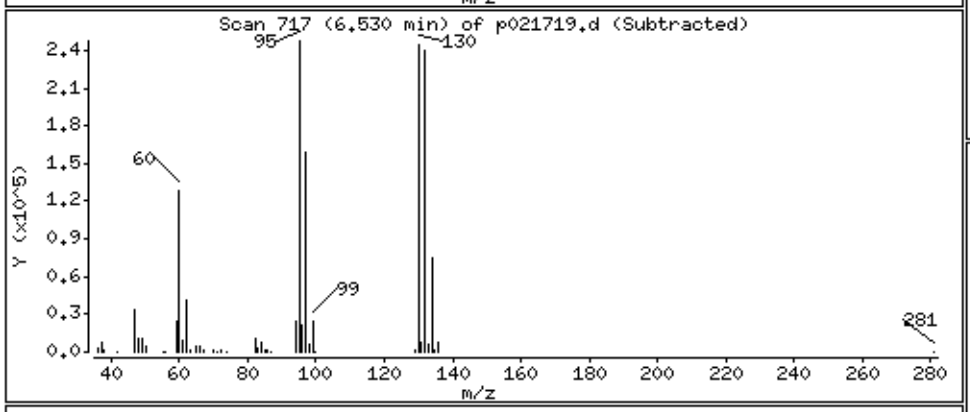
Column phase: RTX-624

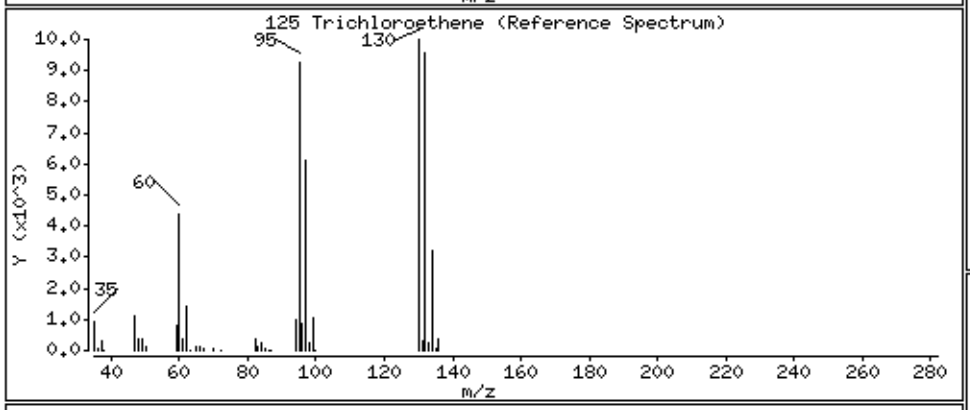
Column diameter: 0.25

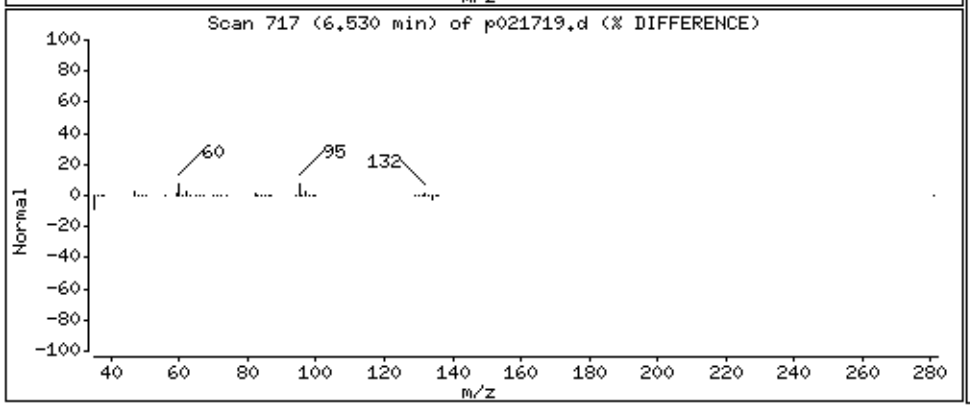
125 Trichloroethene

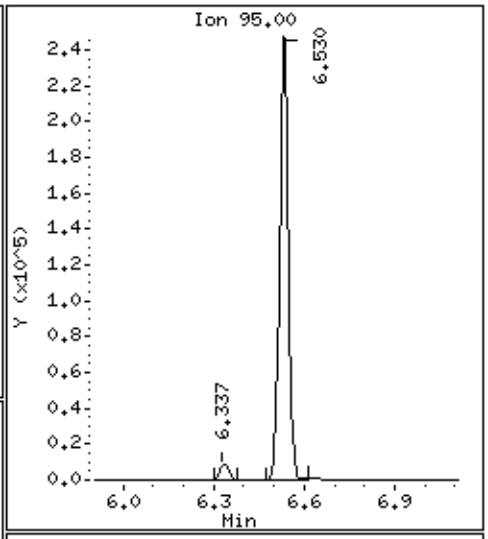
Concentration: 46.452 PPBV

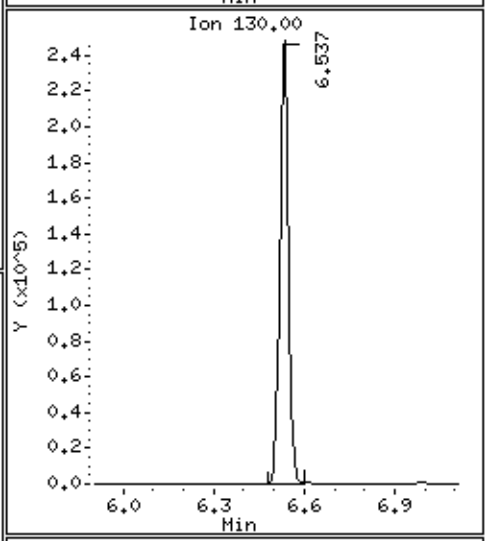


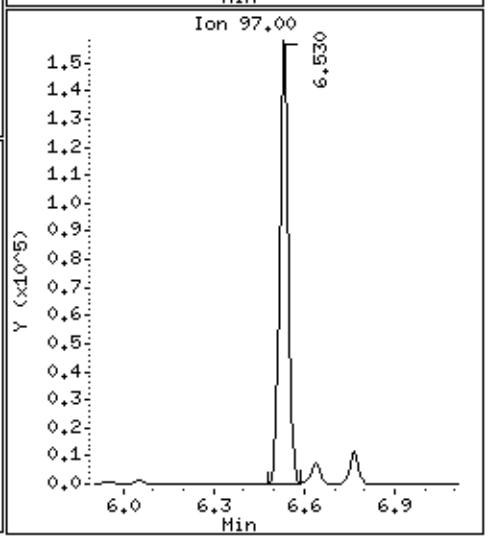












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

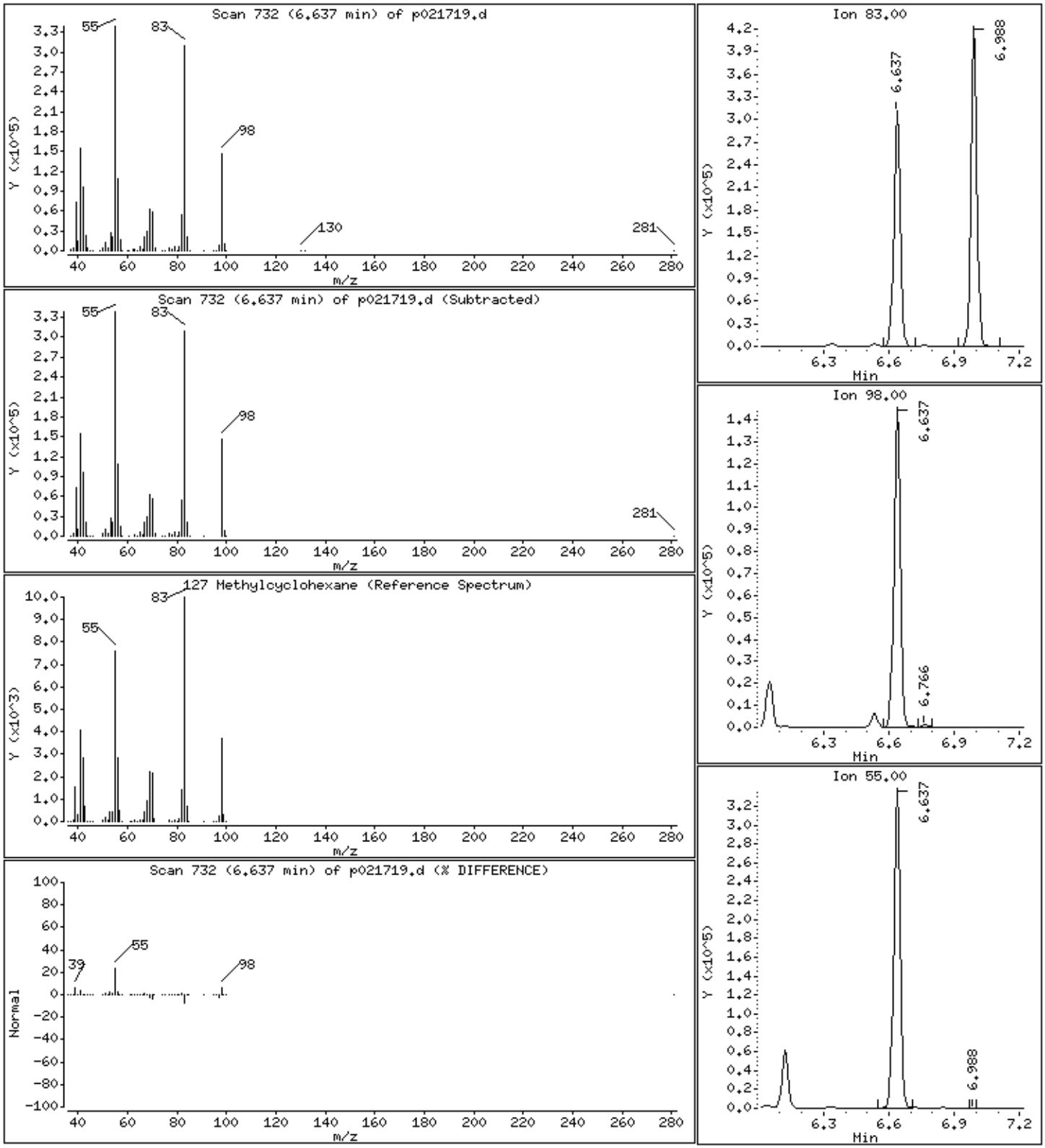
Operator: gd

Column phase: RTX-624

Column diameter: 0.25

127 Methylcyclohexane

Concentration: 46.924 PPBV



Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

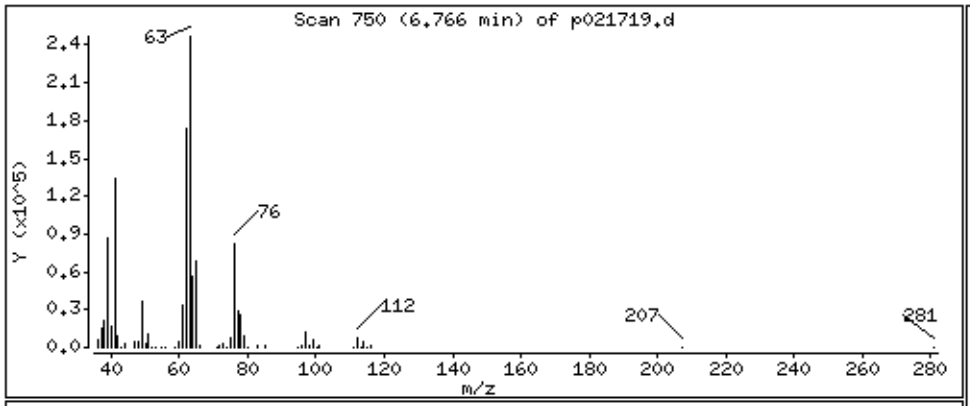
Operator: gd

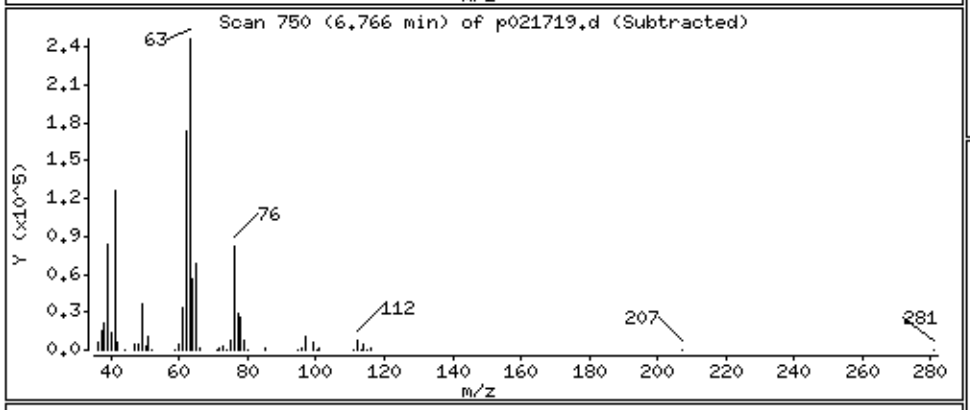
Column phase: RTX-624

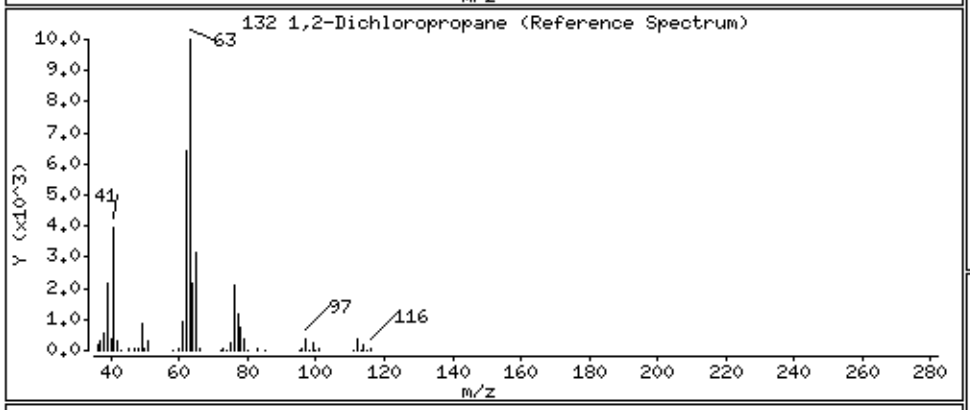
Column diameter: 0.25

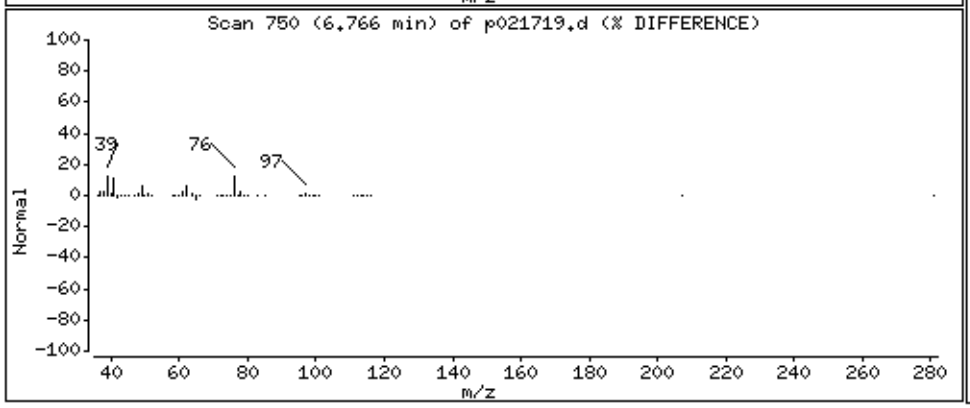
132 1,2-Dichloropropane

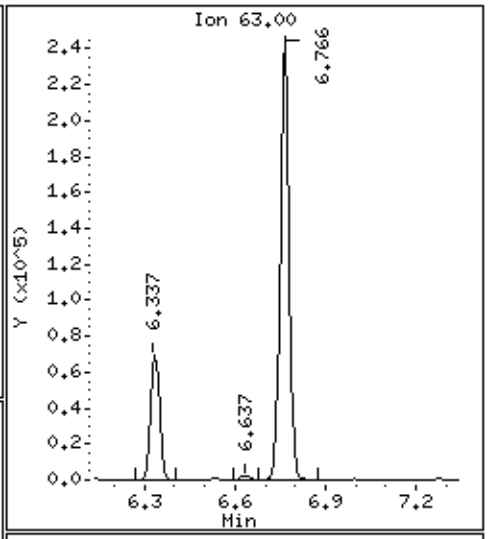
Concentration: 48.112 PPBV

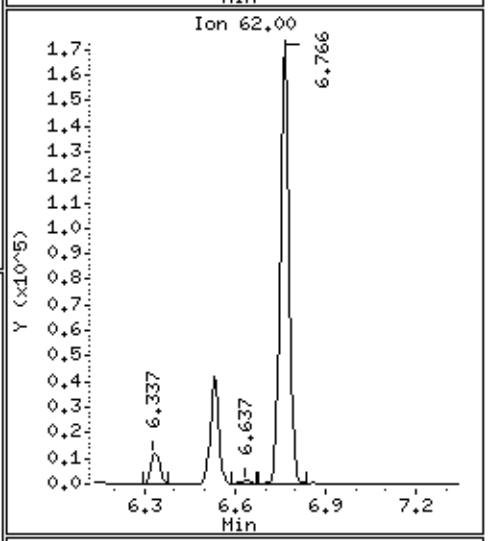


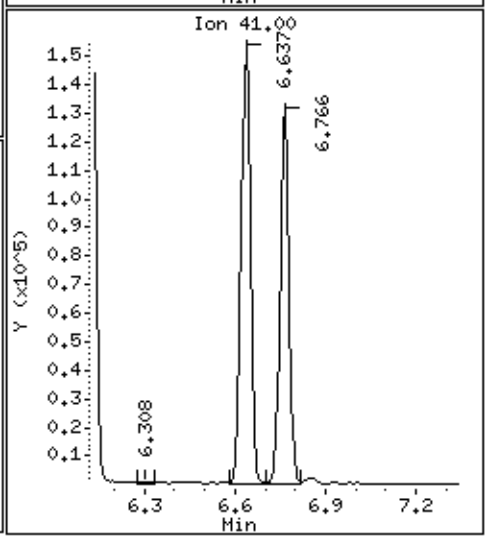












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

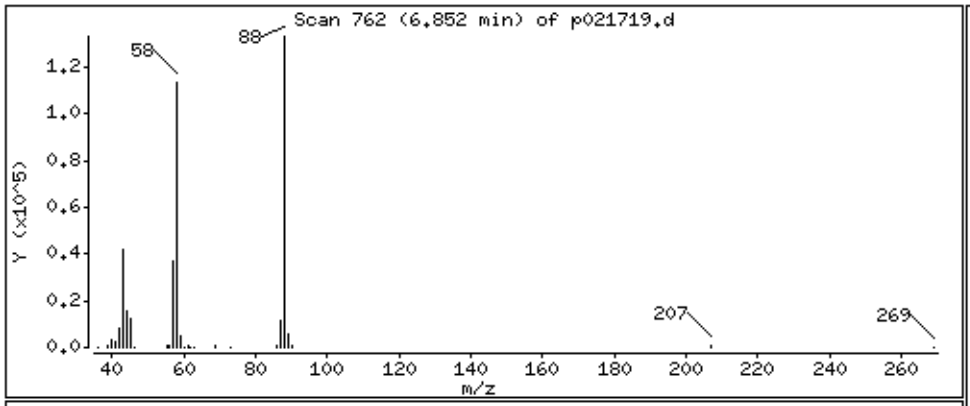
Operator: gd

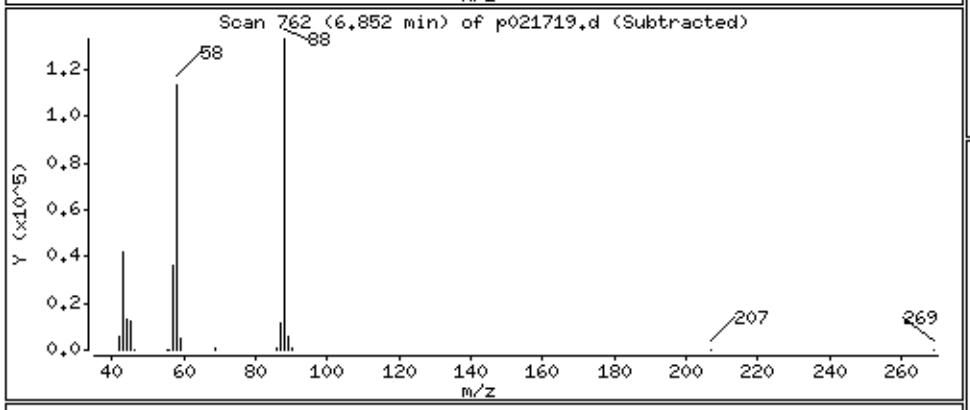
Column phase: RTX-624

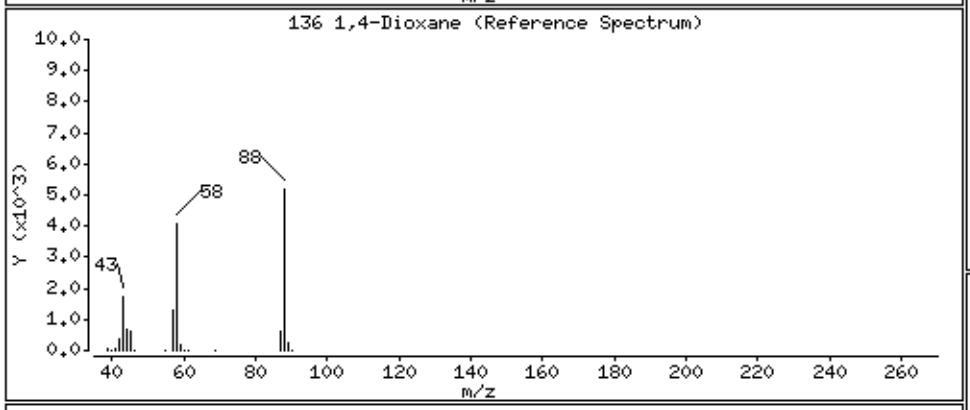
Column diameter: 0.25

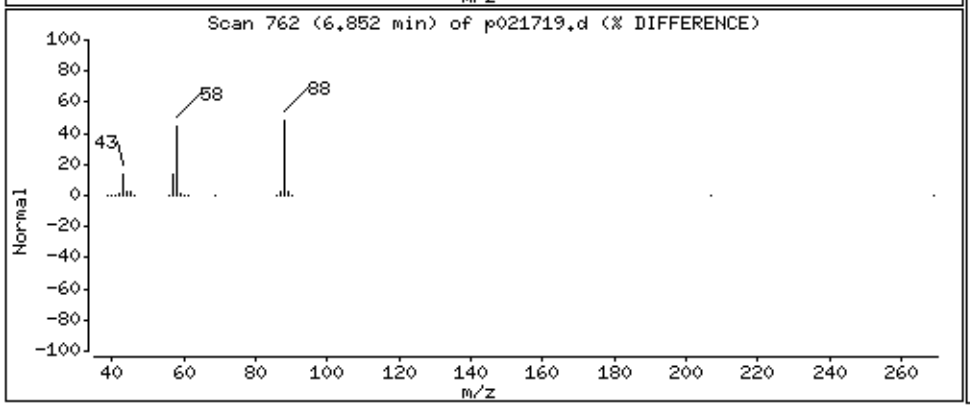
136 1,4-Dioxane

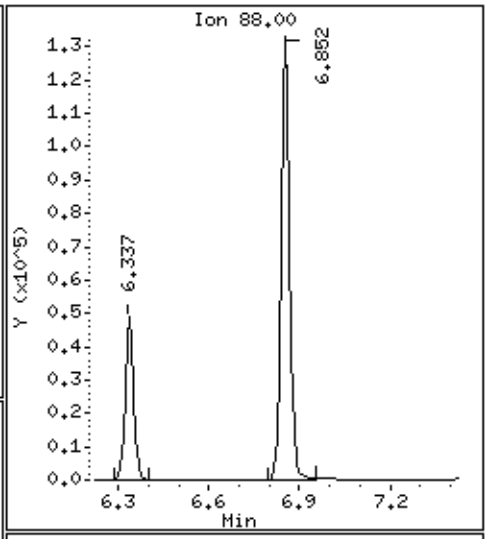
Concentration: 47.911 PPBV

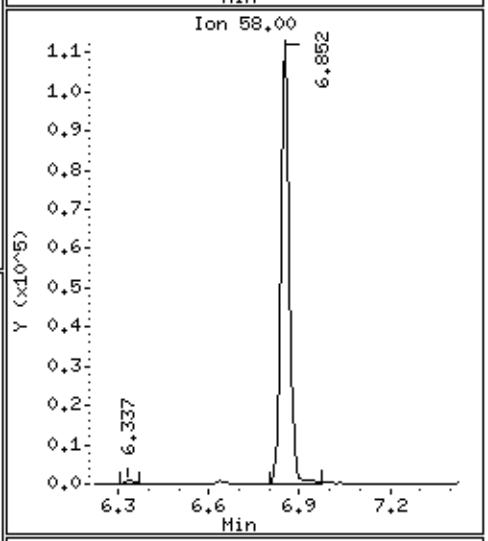


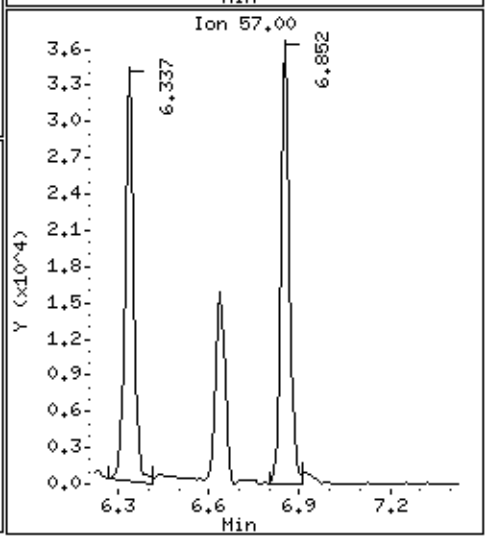












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

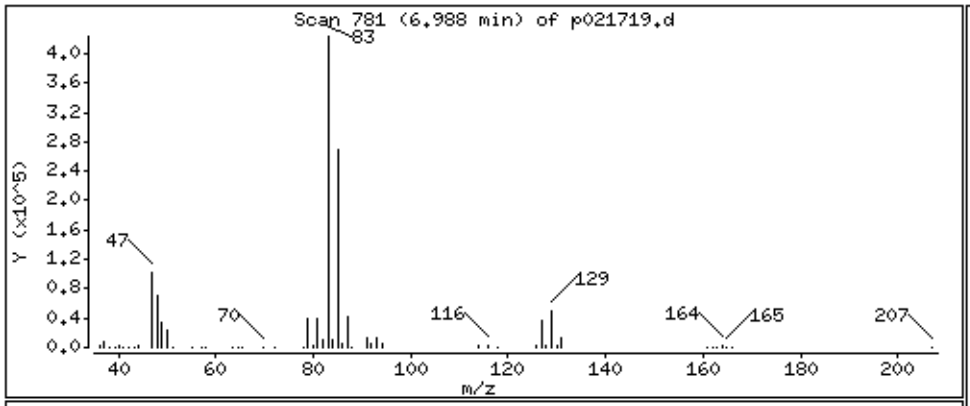
Operator: gd

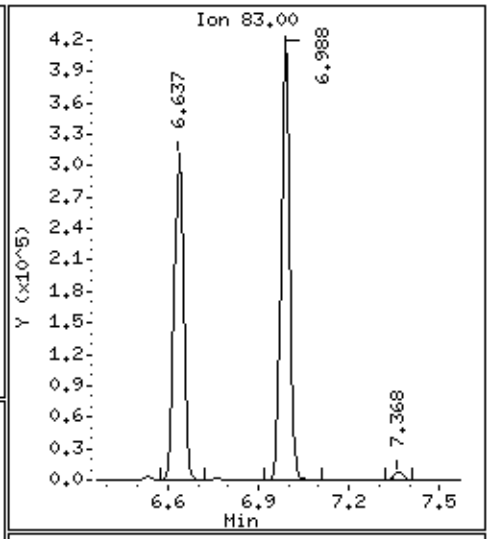
Column phase: RTX-624

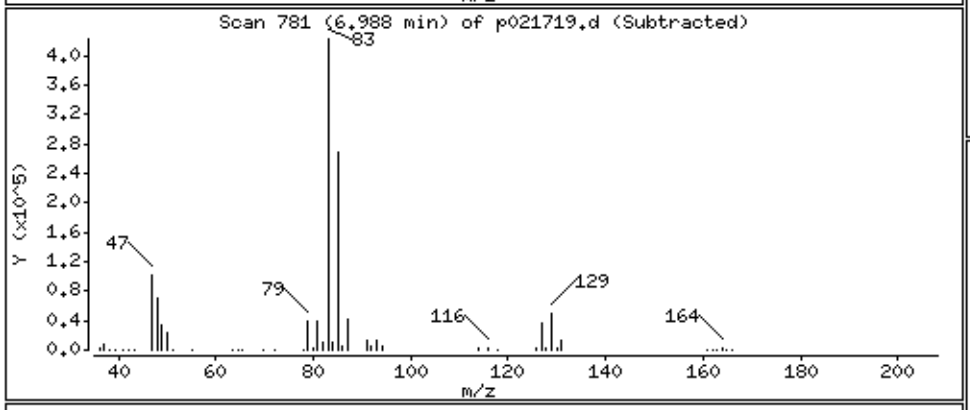
Column diameter: 0.25

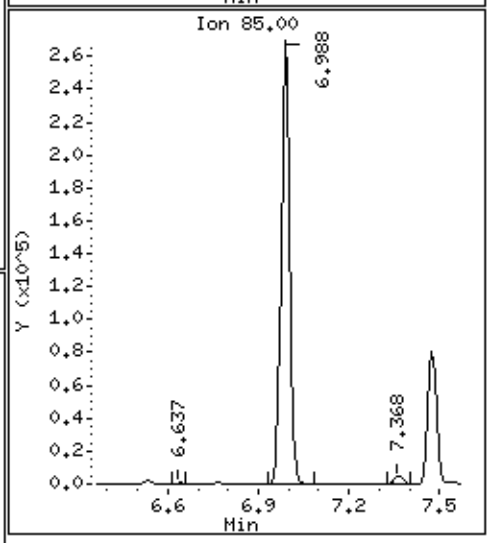
138 Bromodichloromethane

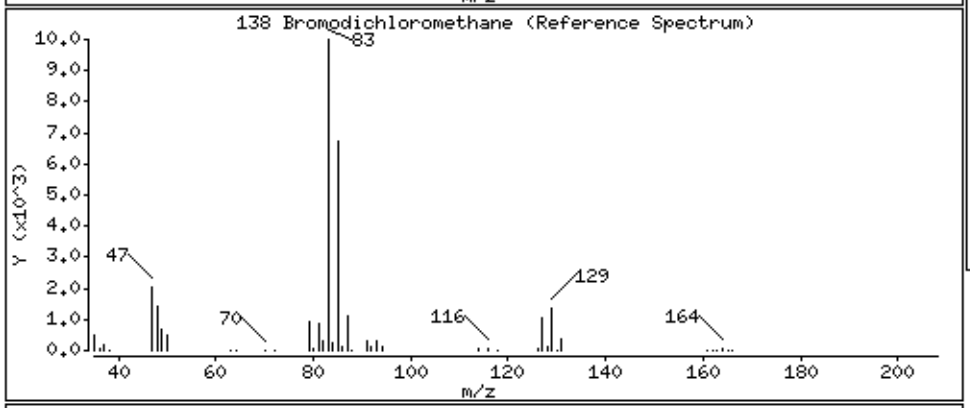
Concentration: 47.133 PPBV

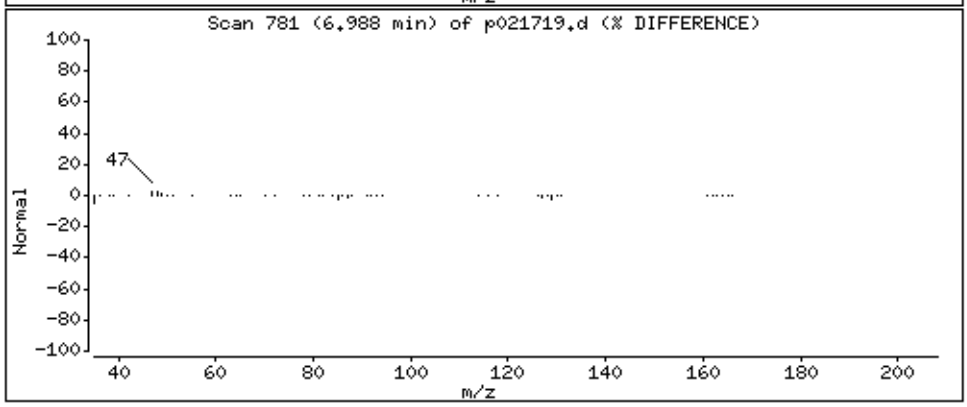












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

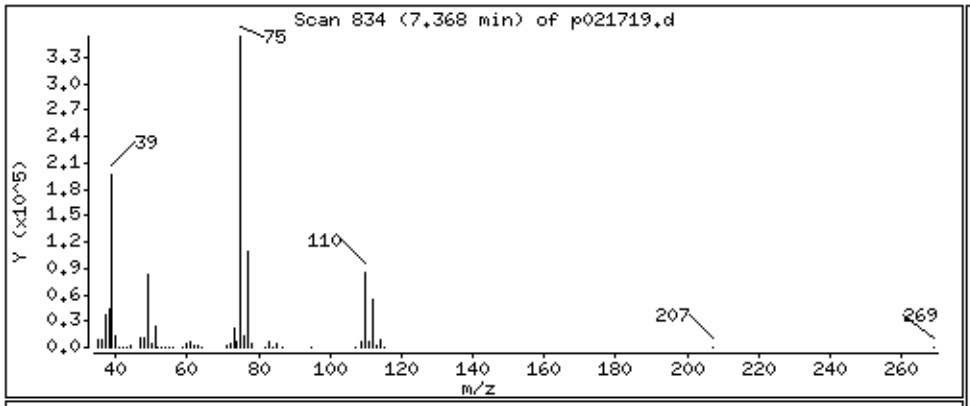
Operator: gd

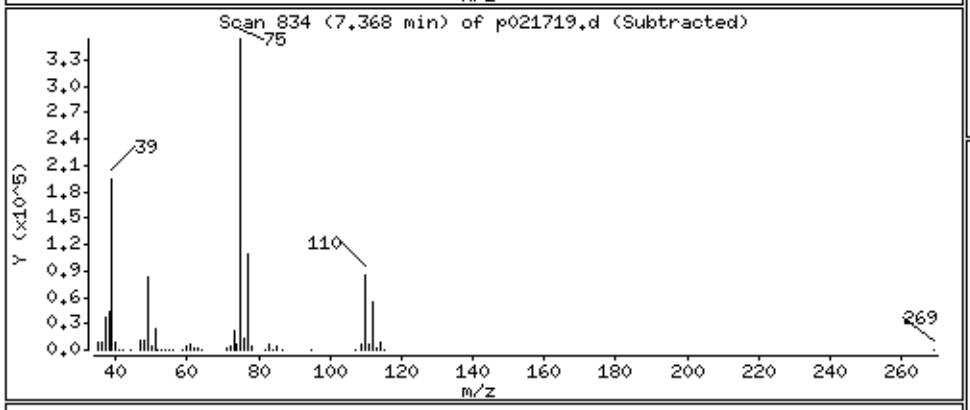
Column phase: RTX-624

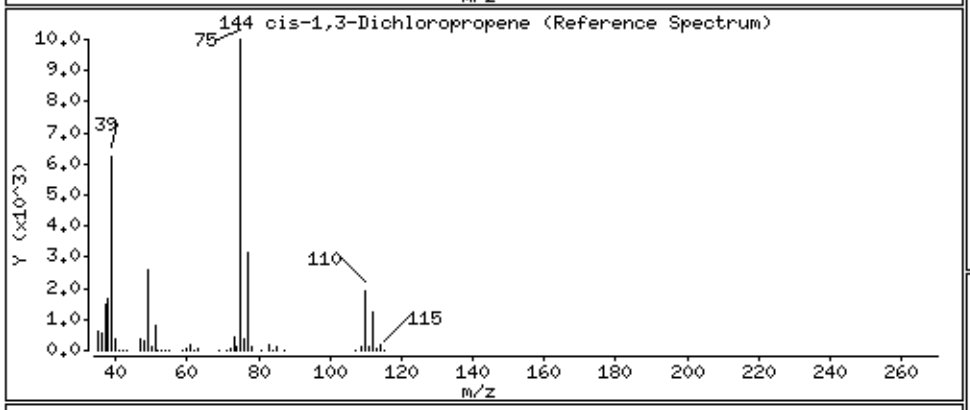
Column diameter: 0.25

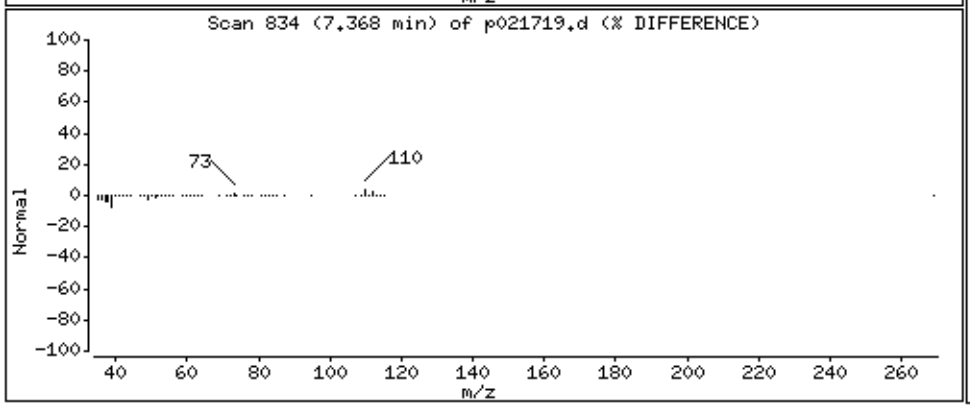
144 cis-1,3-Dichloropropene

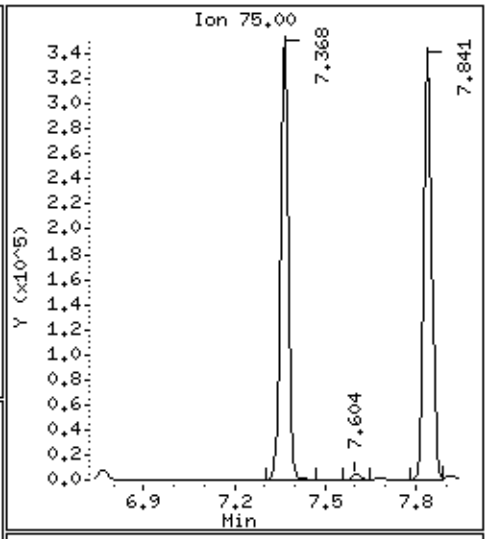
Concentration: 45.818 PPBV

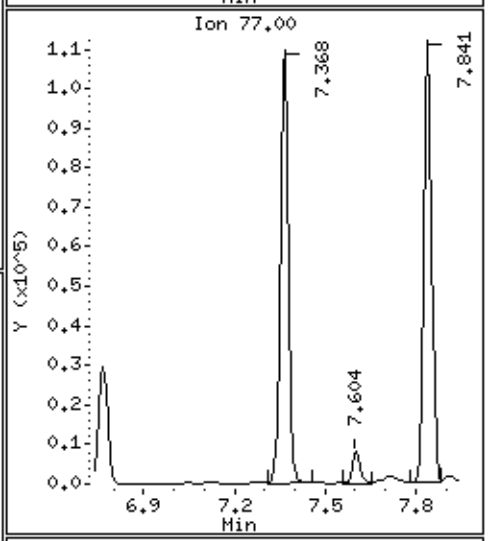


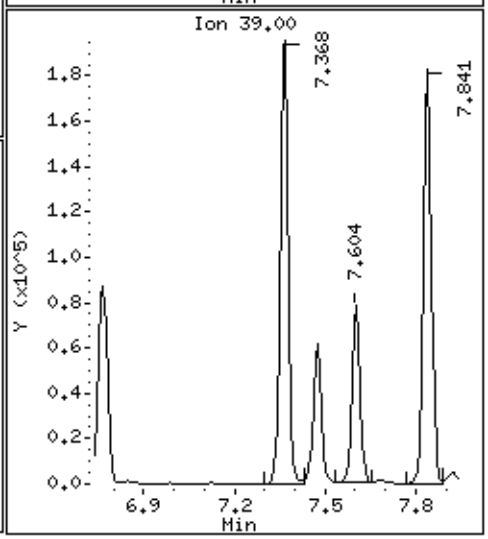












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

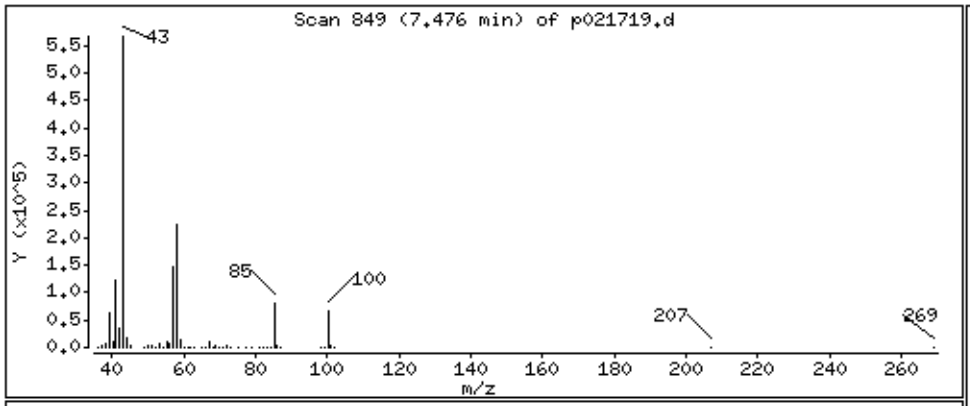
Operator: gd

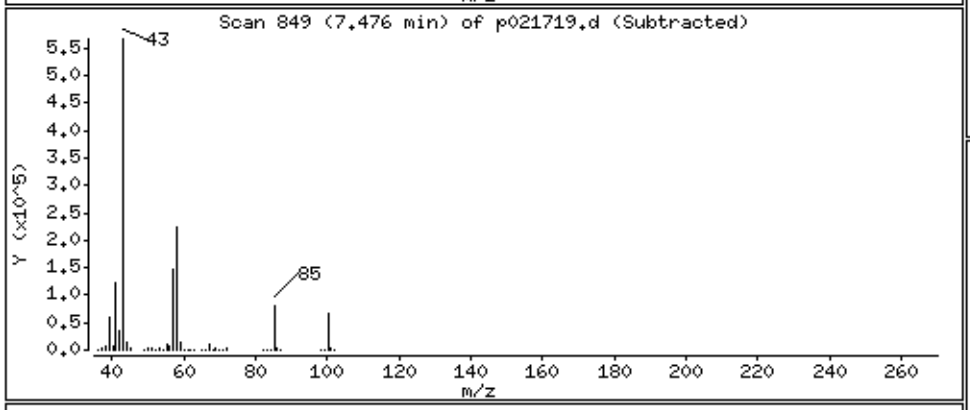
Column phase: RTX-624

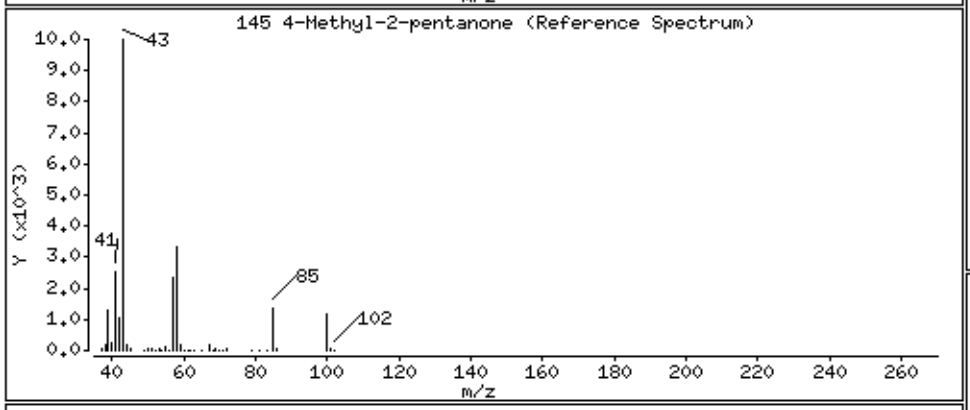
Column diameter: 0.25

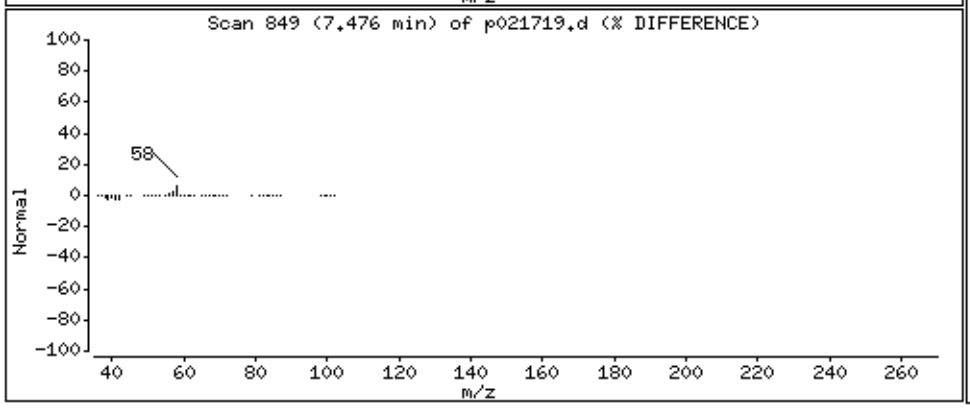
145 4-Methyl-2-pentanone

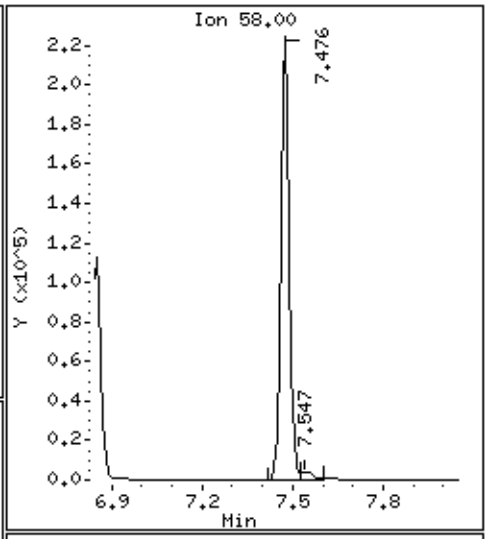
Concentration: 44.370 PPBV

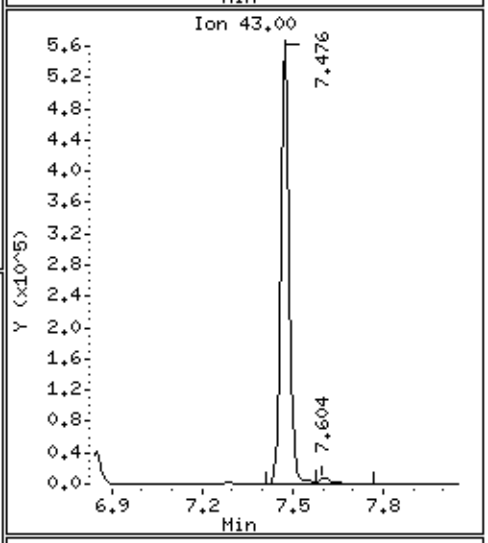


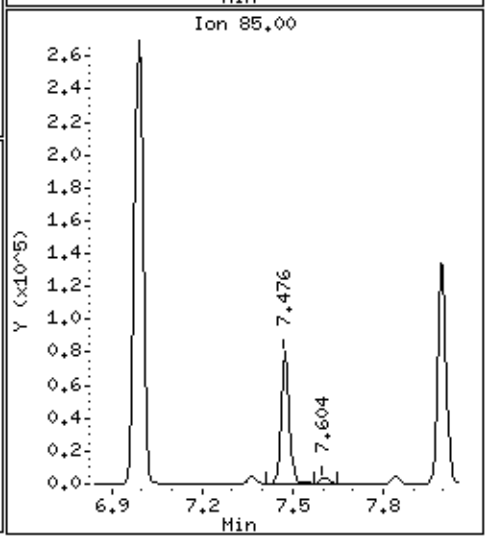












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

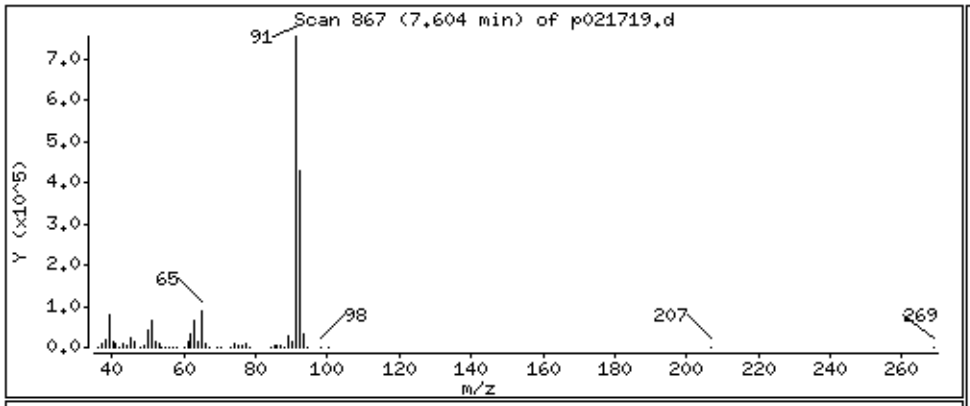
Operator: gd

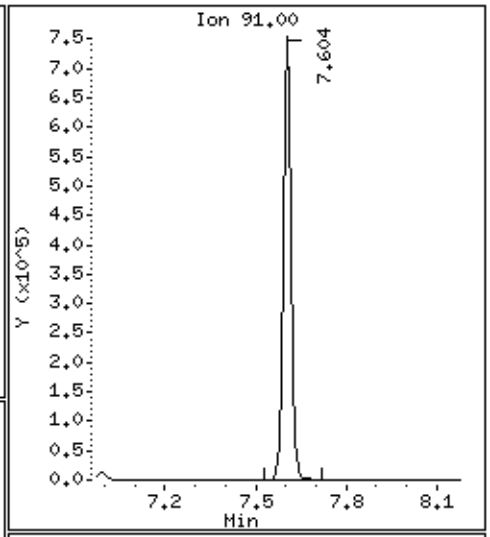
Column phase: RTX-624

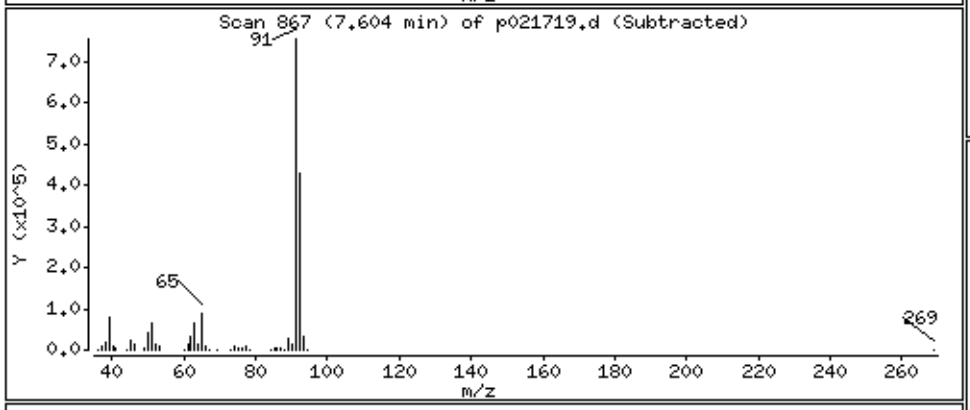
Column diameter: 0.25

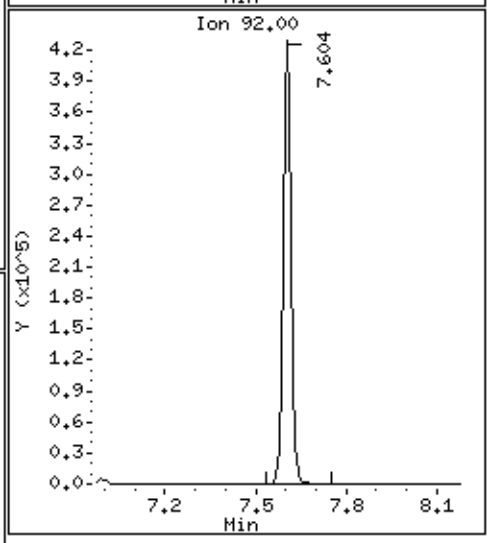
147 Toluene

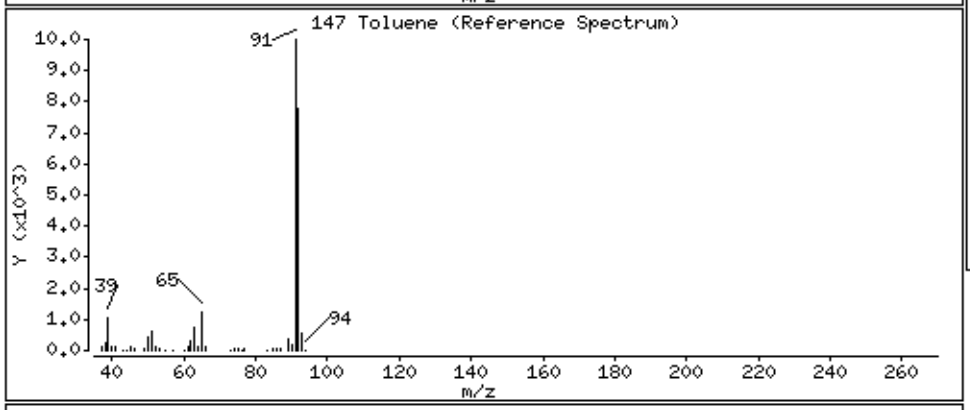
Concentration: 45.944 PPBV

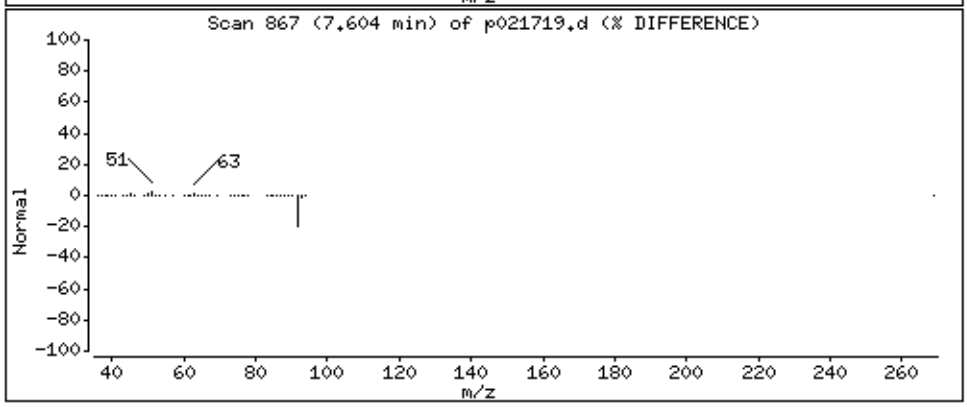












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

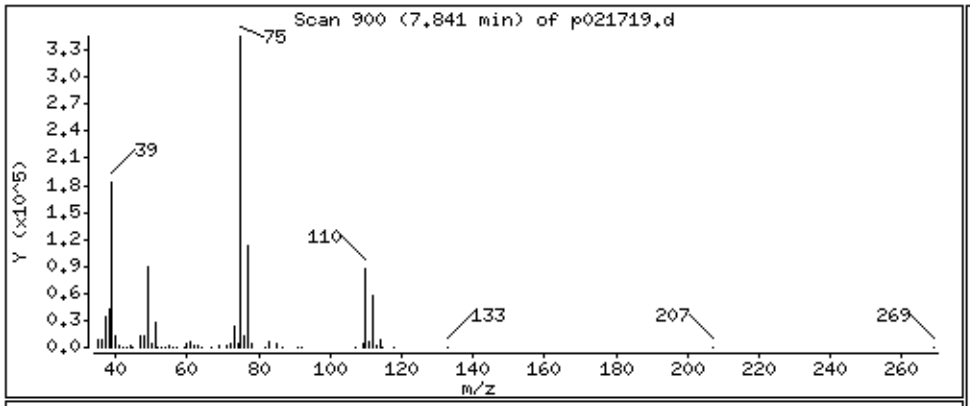
Operator: gd

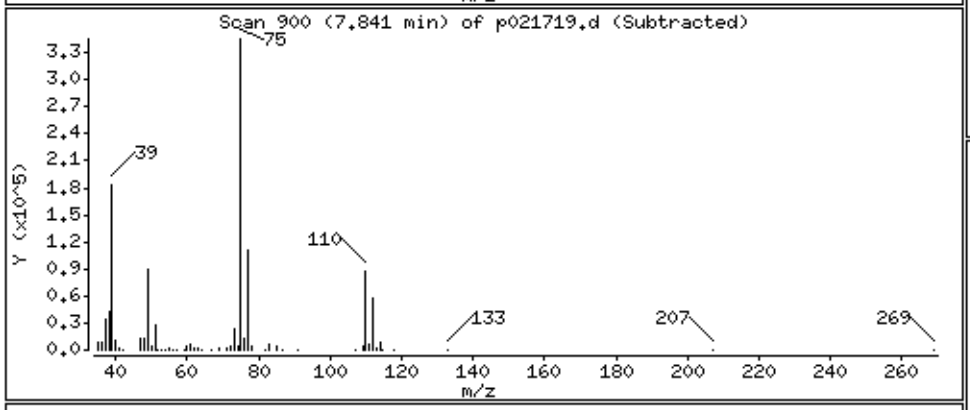
Column phase: RTX-624

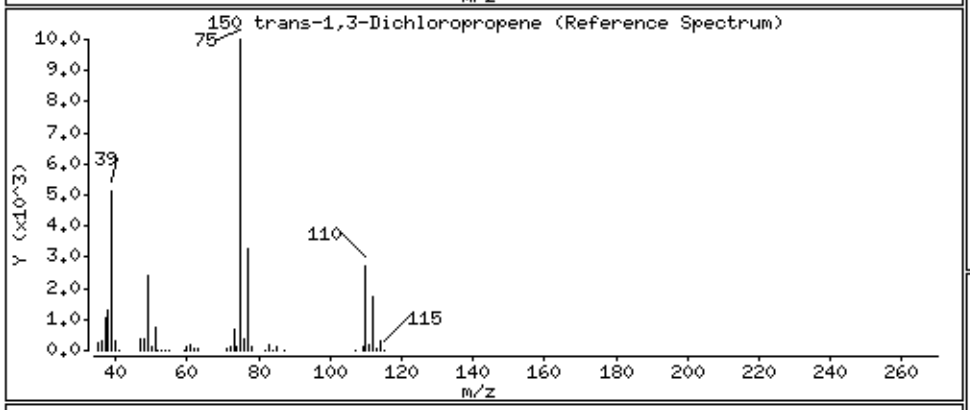
Column diameter: 0.25

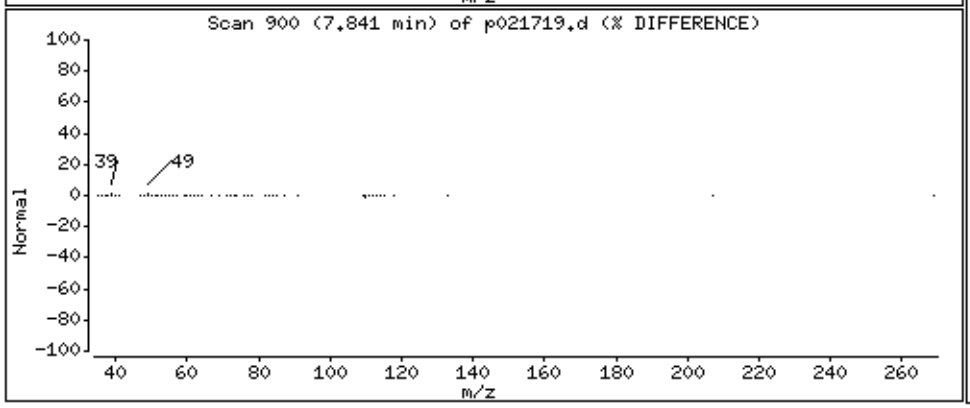
150 trans-1,3-Dichloropropene

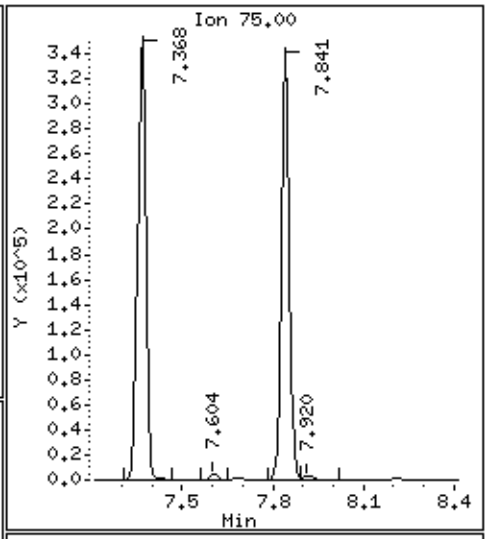
Concentration: 46.880 PPBV

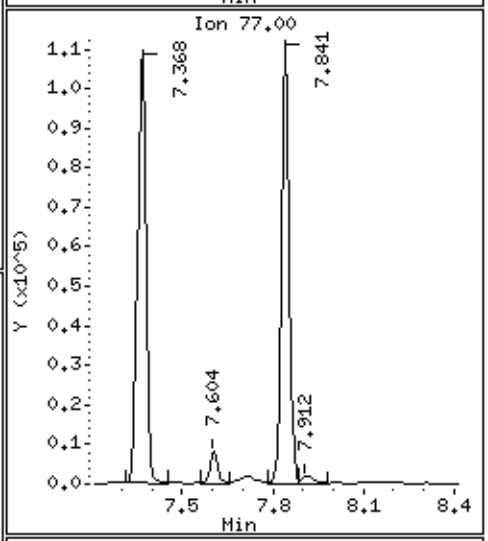


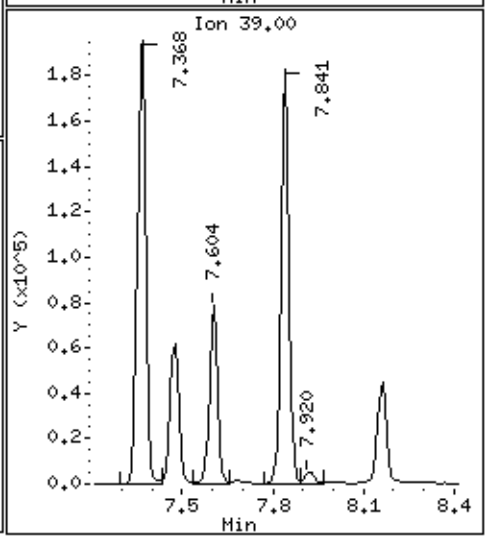












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

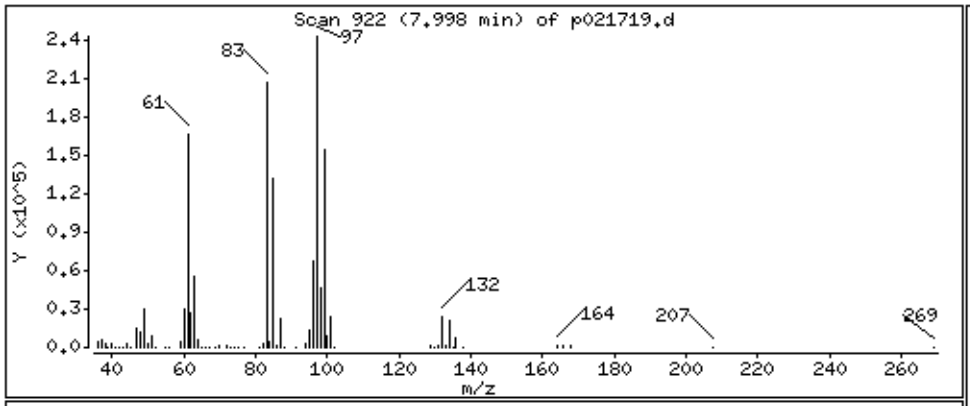
Operator: gd

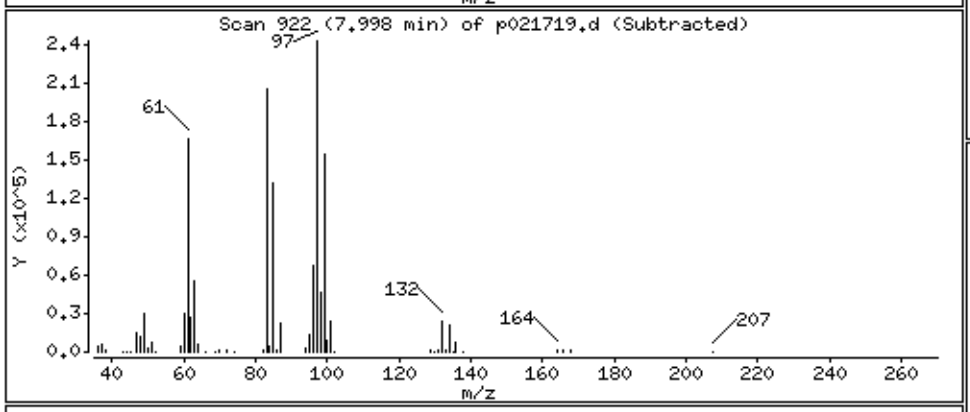
Column phase: RTX-624

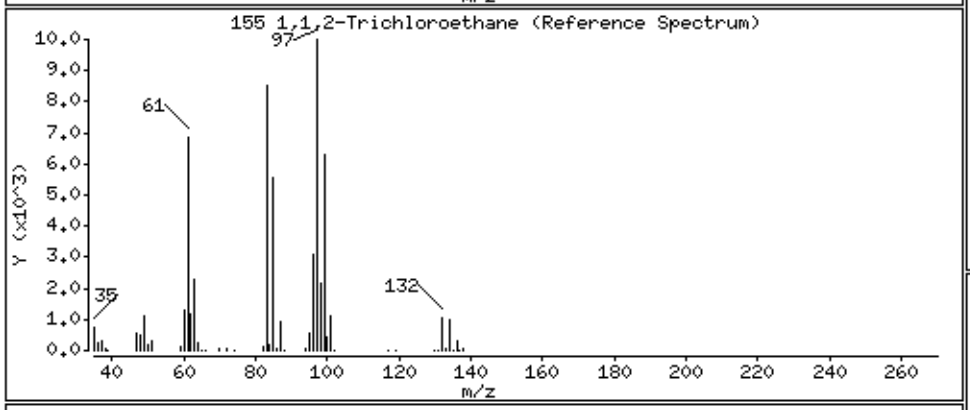
Column diameter: 0.25

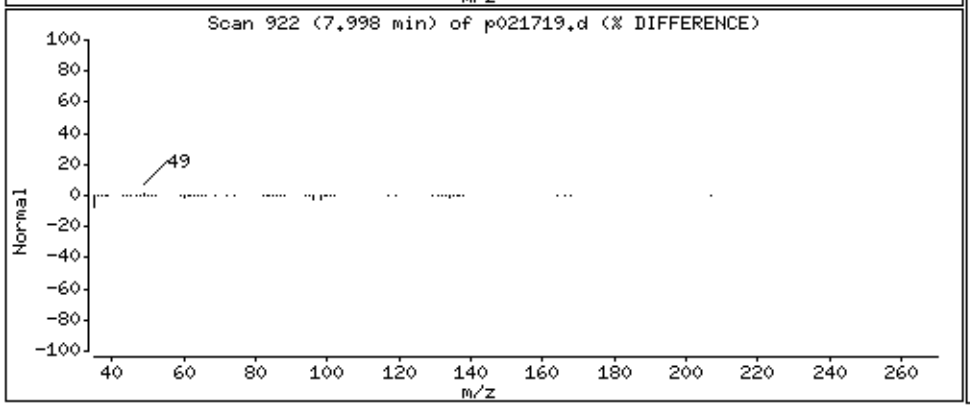
155 1,1,2-Trichloroethane

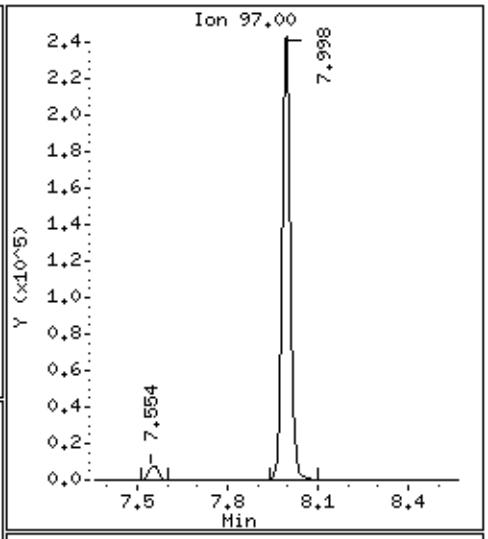
Concentration: 45.365 PPBV

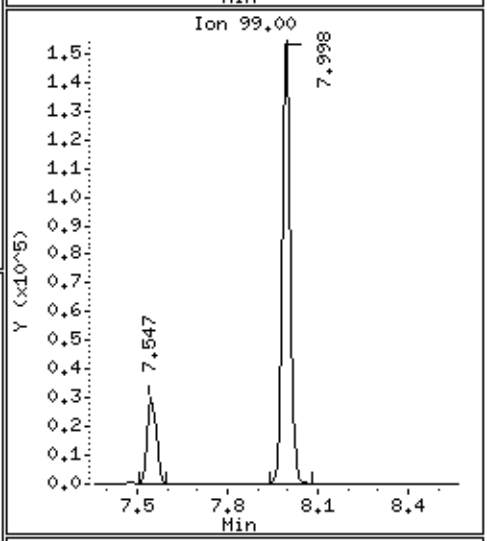


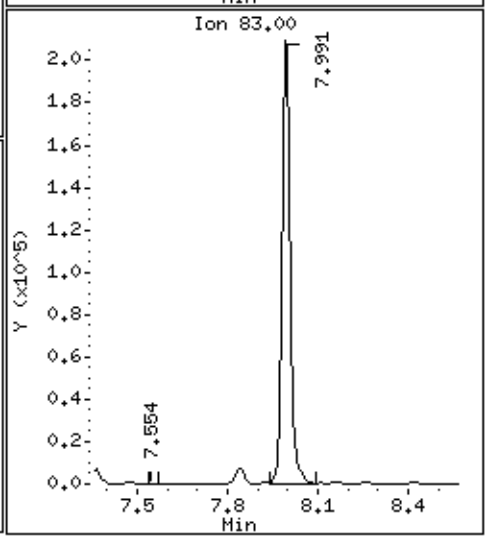












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

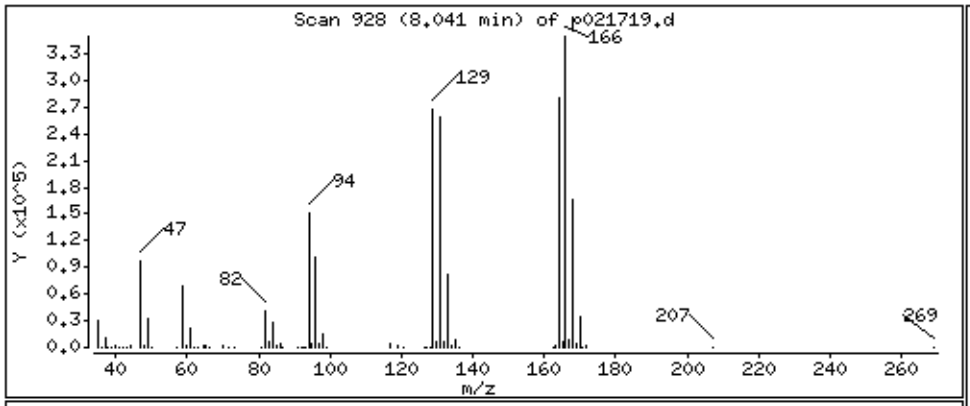
Operator: gd

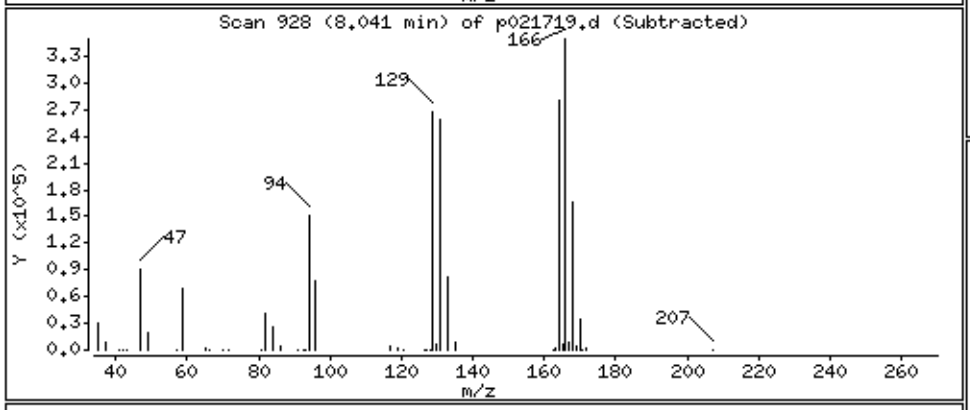
Column phase: RTX-624

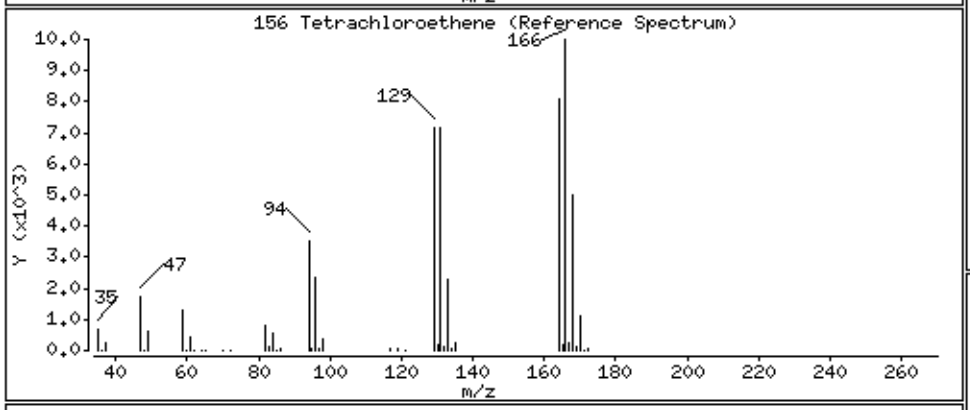
Column diameter: 0.25

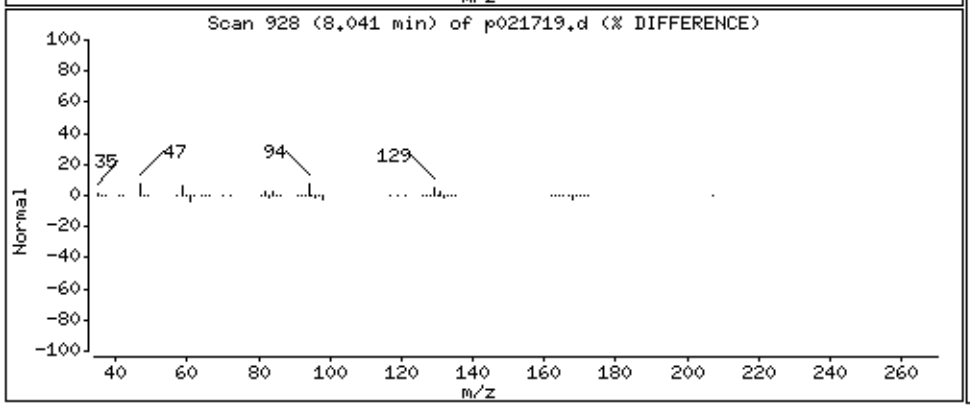
156 Tetrachloroethene

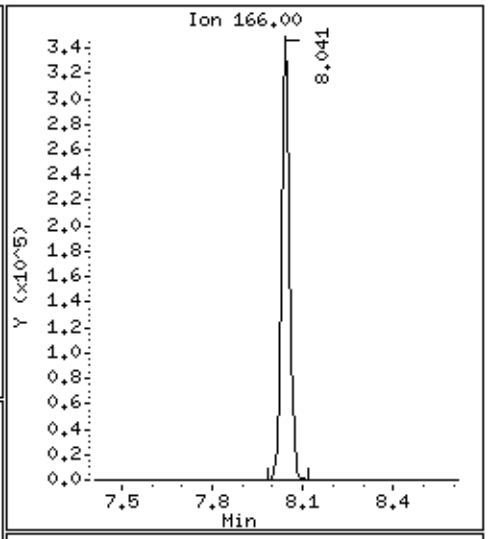
Concentration: 45.697 PPBV

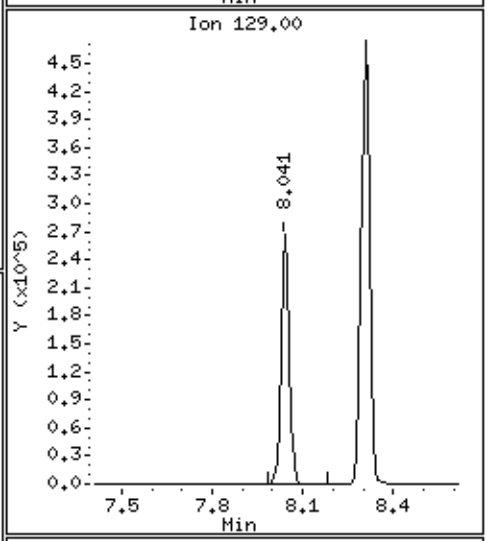


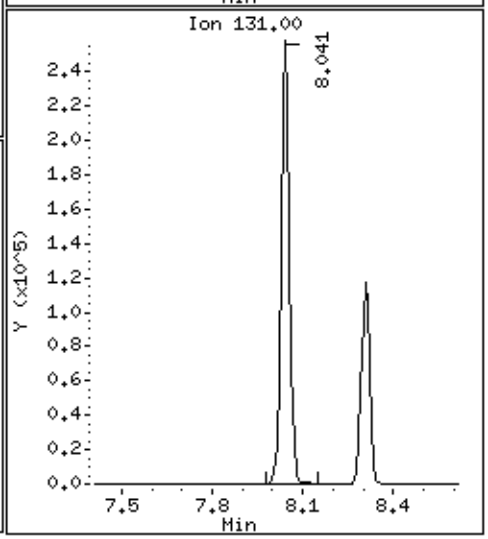












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

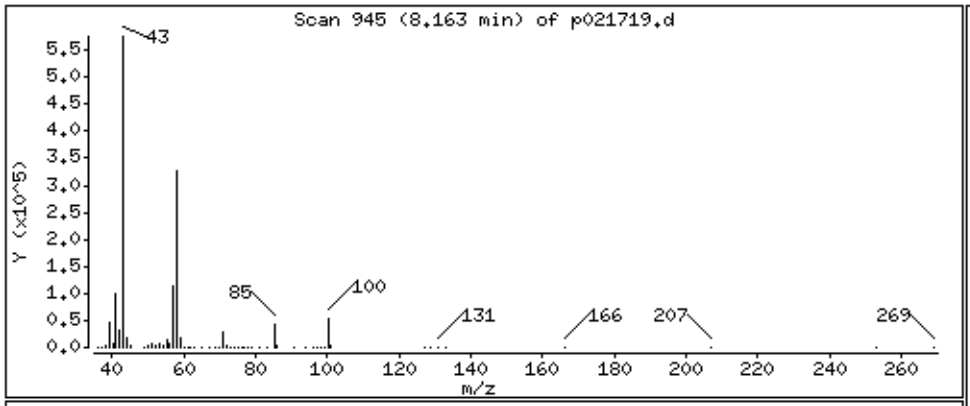
Operator: gd

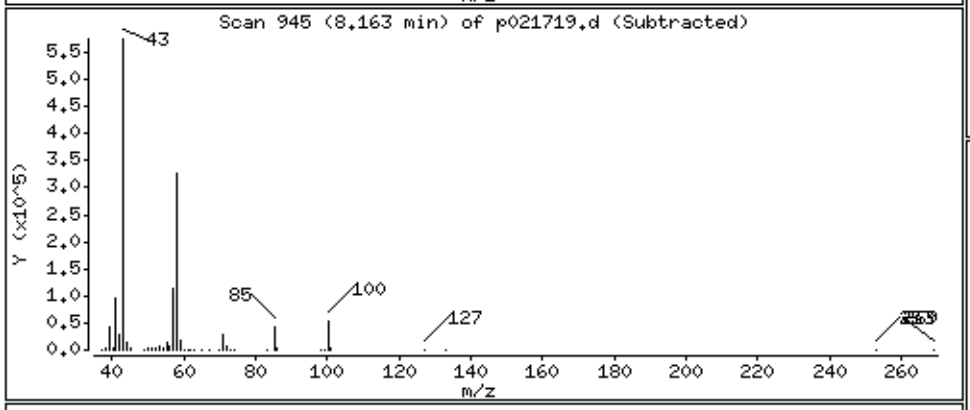
Column phase: RTX-624

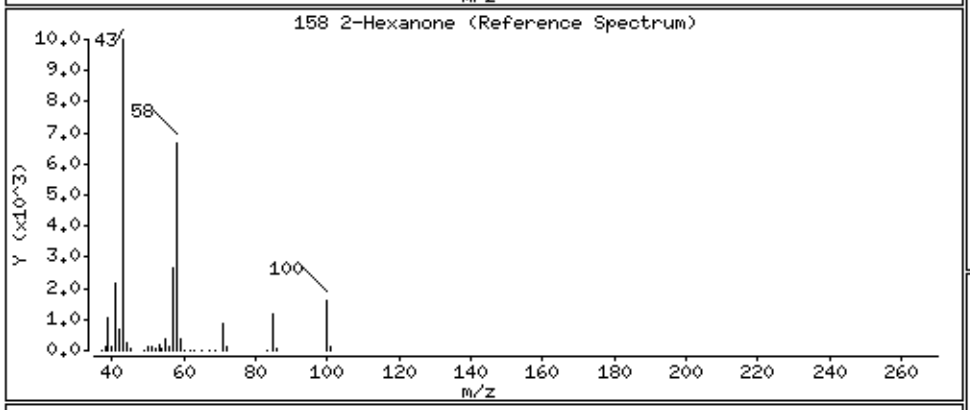
Column diameter: 0.25

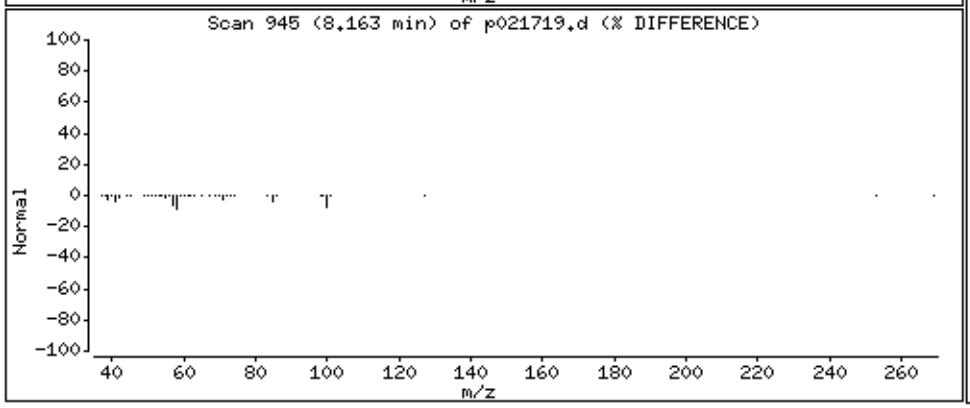
158 2-Hexanone

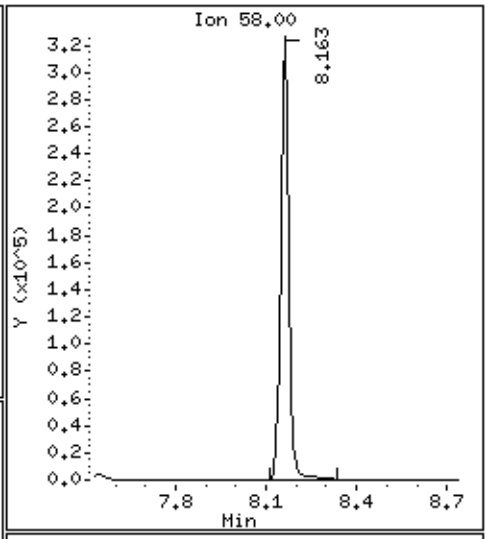
Concentration: 47.758 PPBV

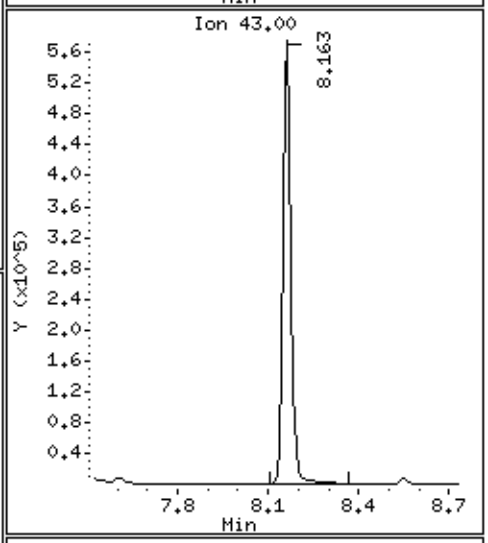


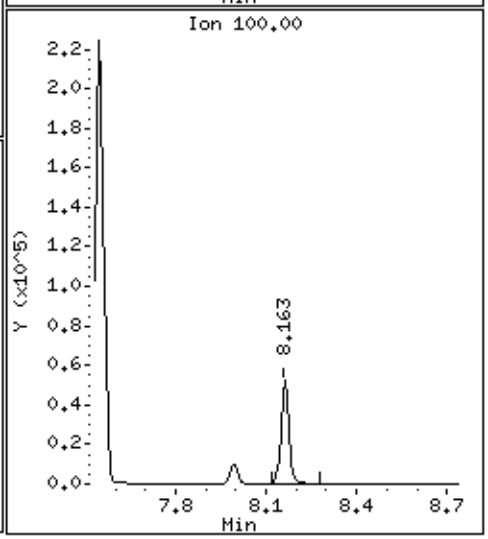












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

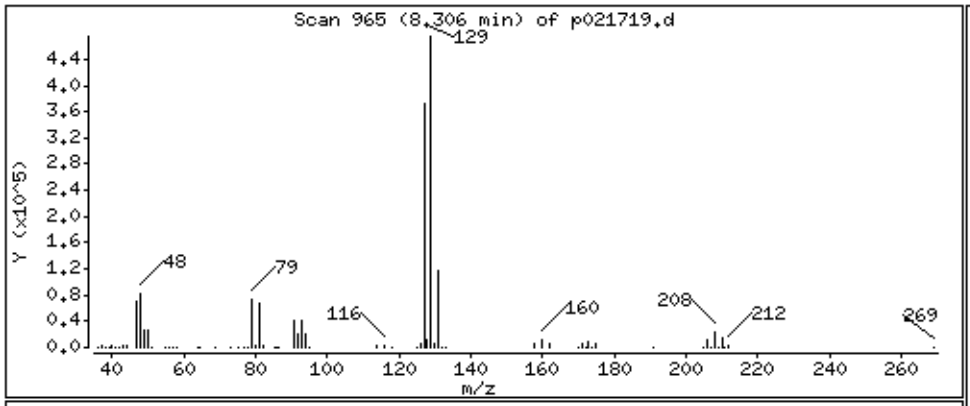
Operator: gd

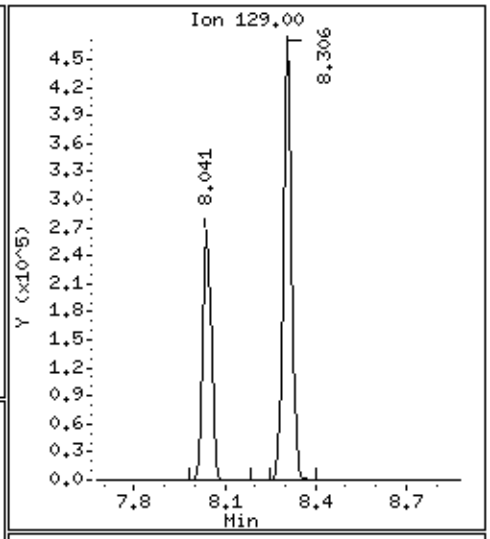
Column phase: RTX-624

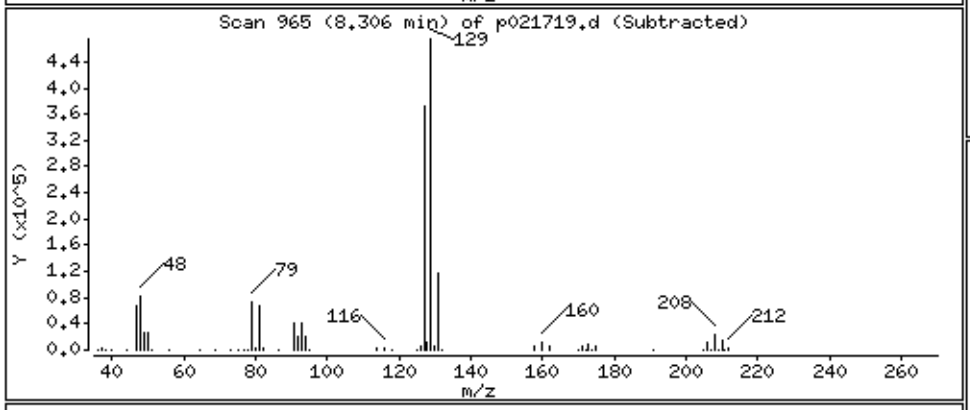
Column diameter: 0.25

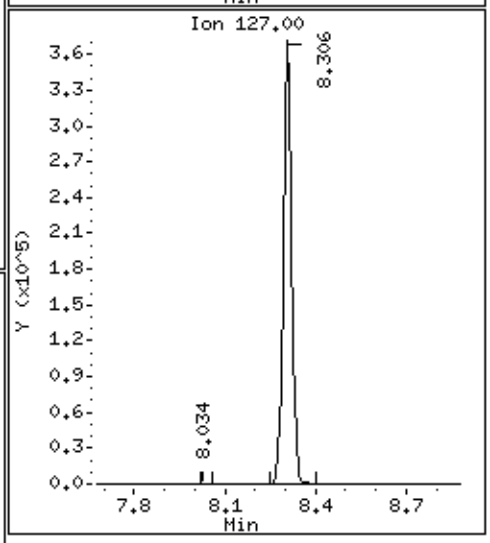
160 Dibromochloromethane

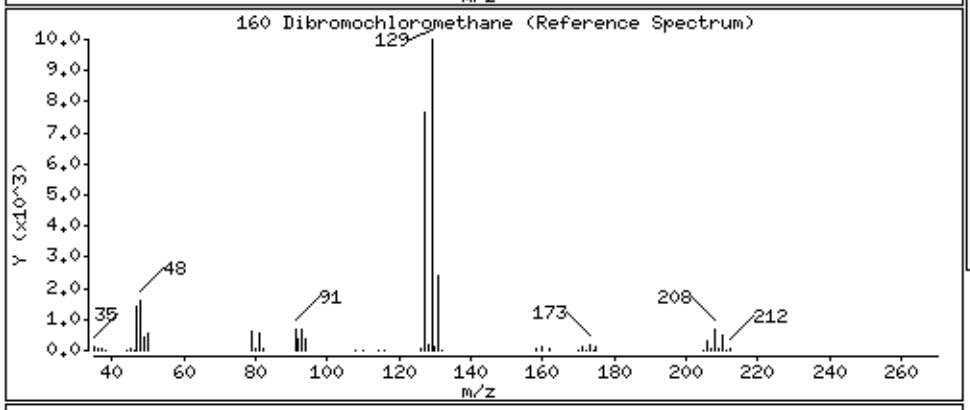
Concentration: 47.371 PPBV

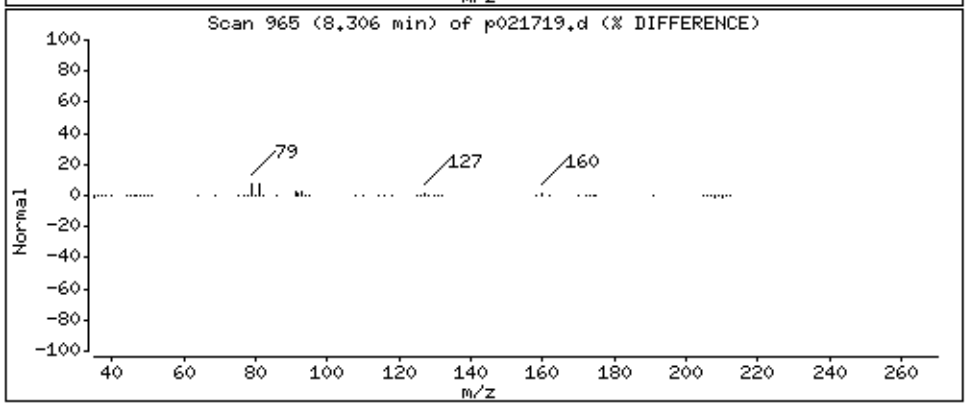












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

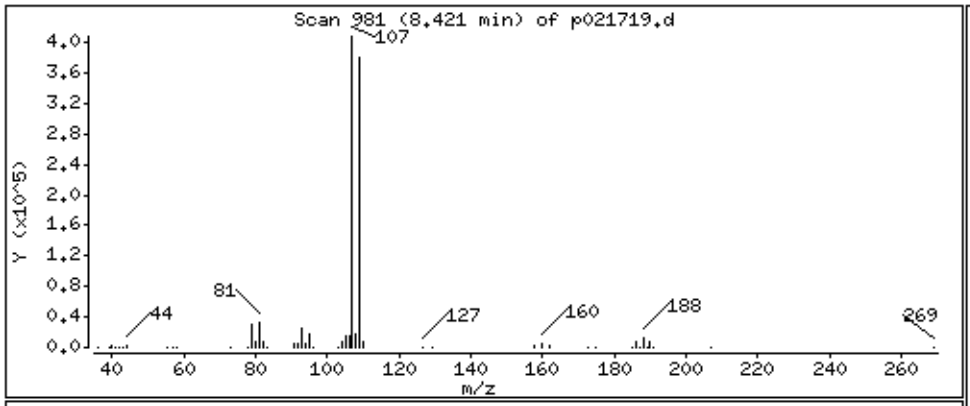
Operator: gd

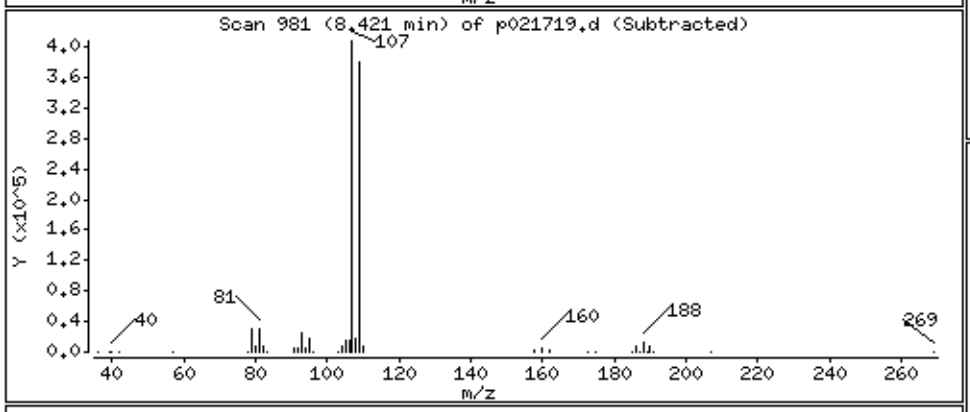
Column phase: RTX-624

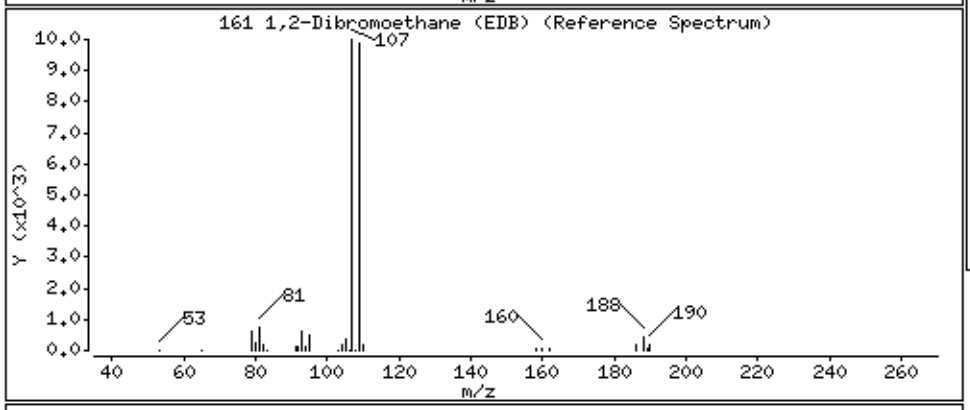
Column diameter: 0.25

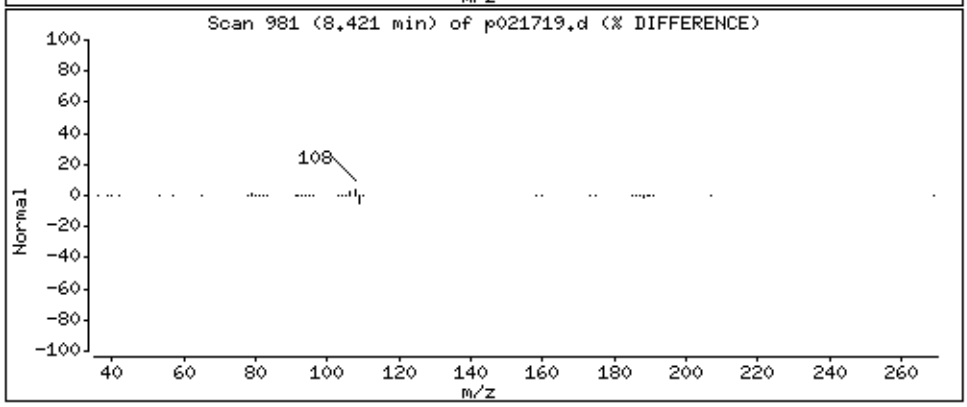
161 1,2-Dibromoethane (EDB)

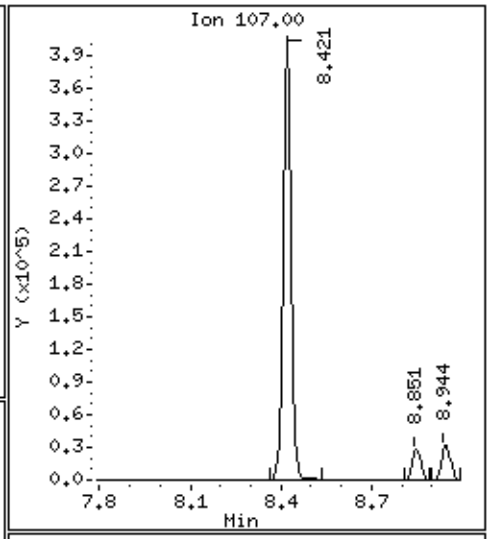
Concentration: 47.382 PPBV

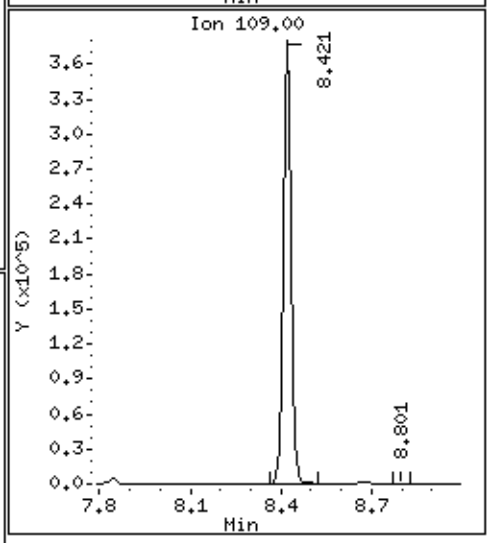












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

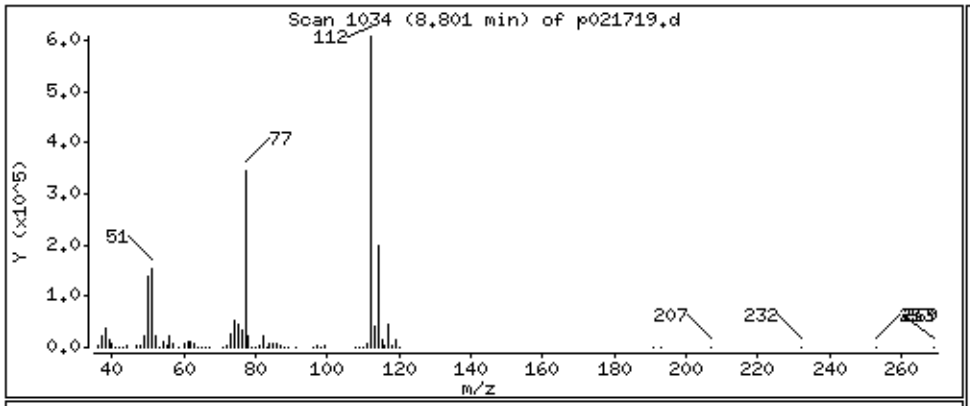
Operator: gd

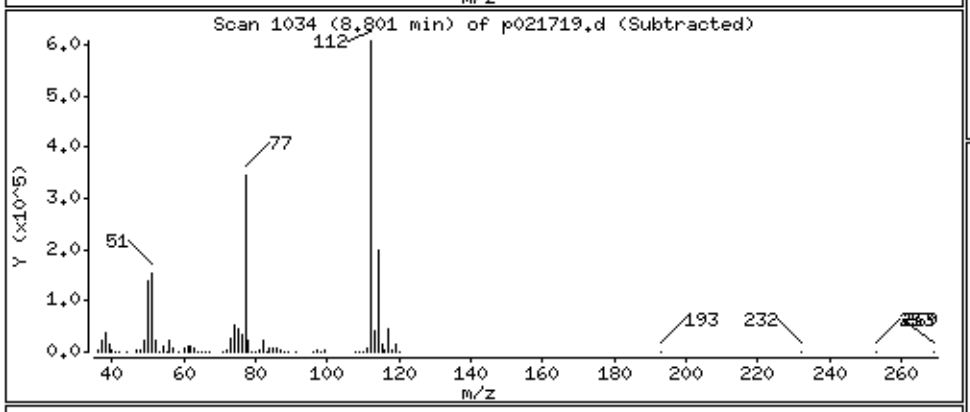
Column phase: RTX-624

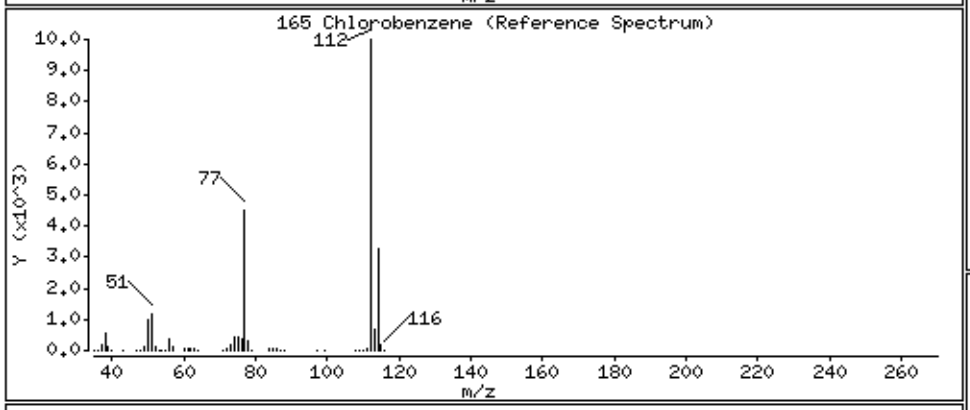
Column diameter: 0.25

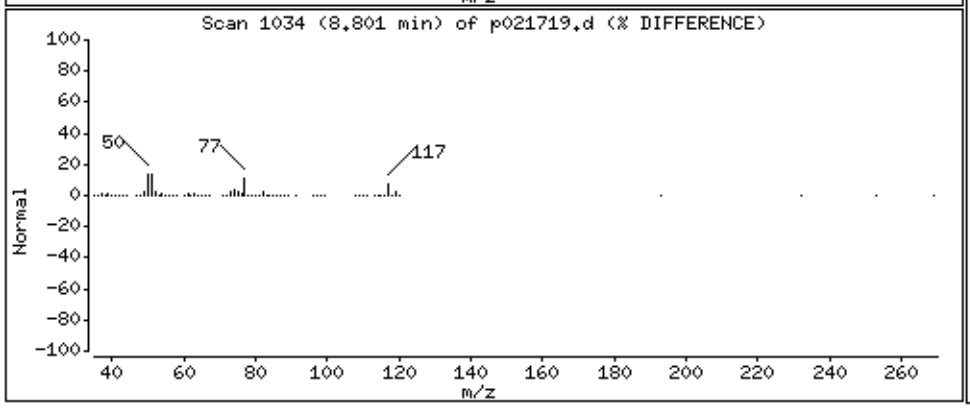
165 Chlorobenzene

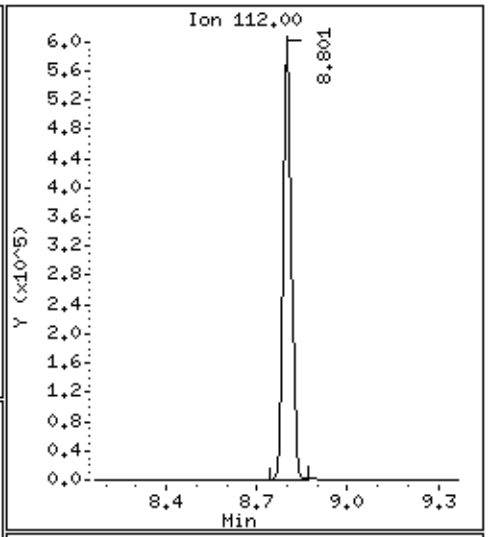
Concentration: 45.872 PPBV

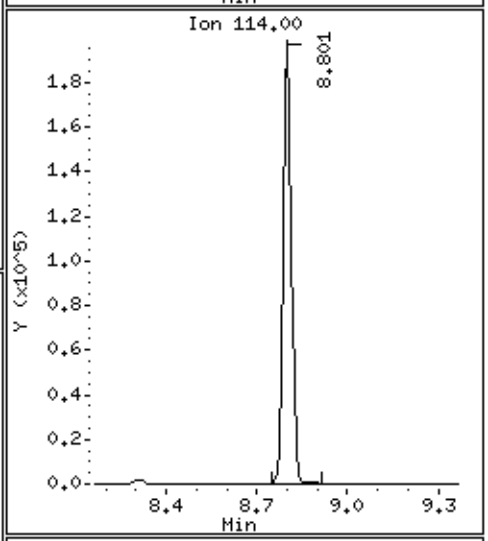


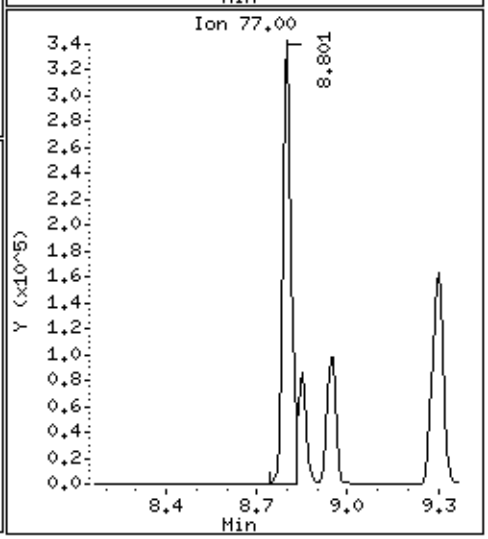












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

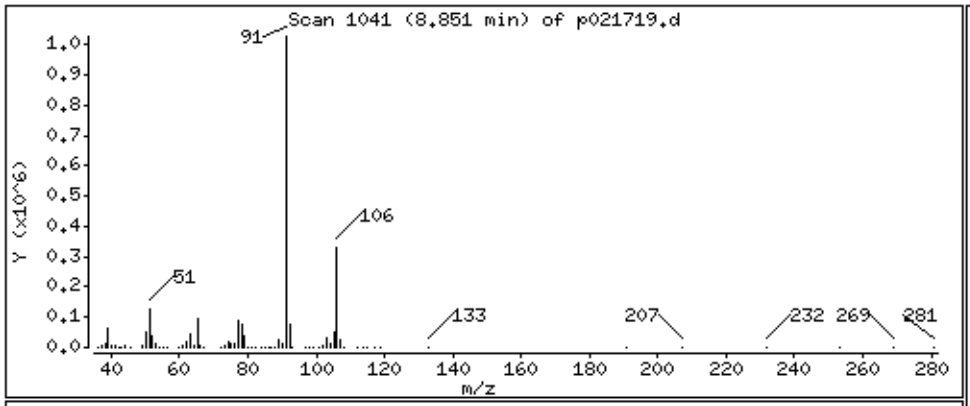
Operator: gd

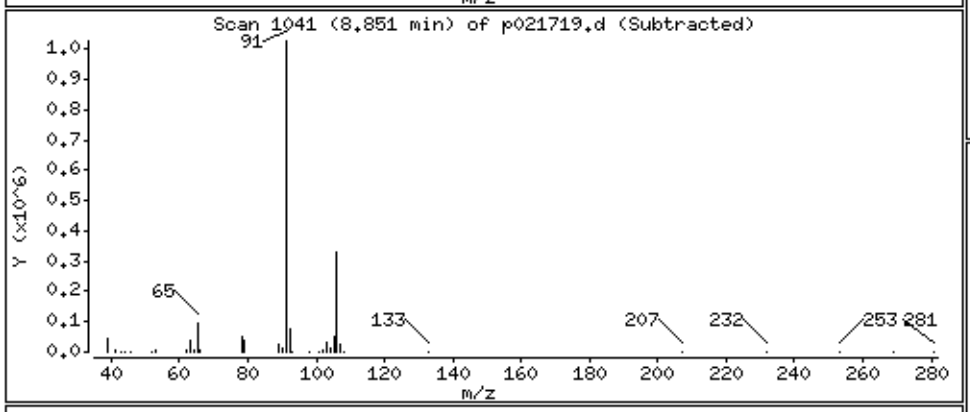
Column phase: RTX-624

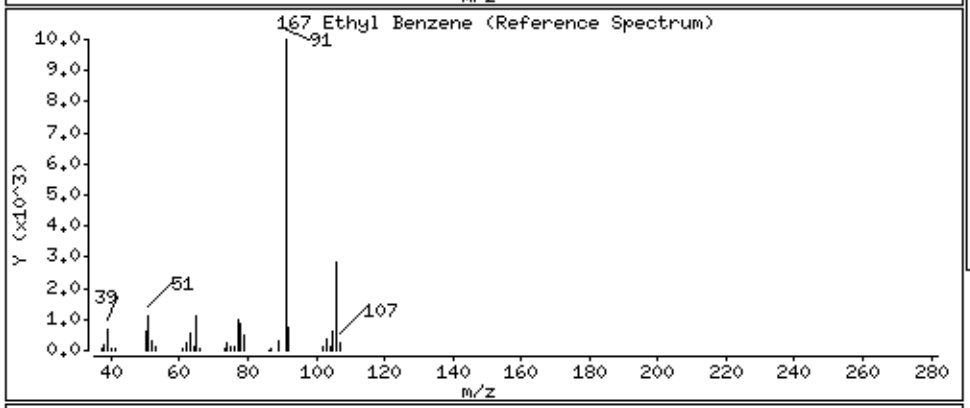
Column diameter: 0.25

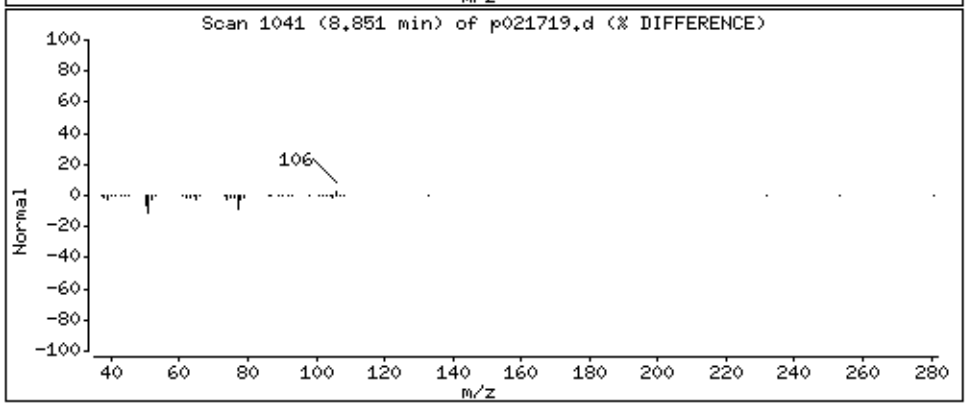
167 Ethyl Benzene

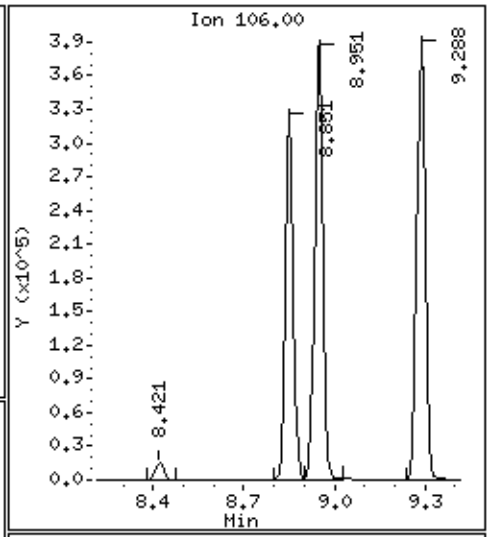
Concentration: 45.699 PPBV

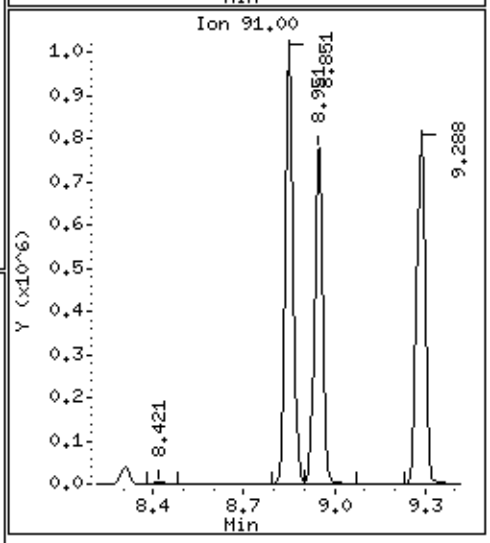












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

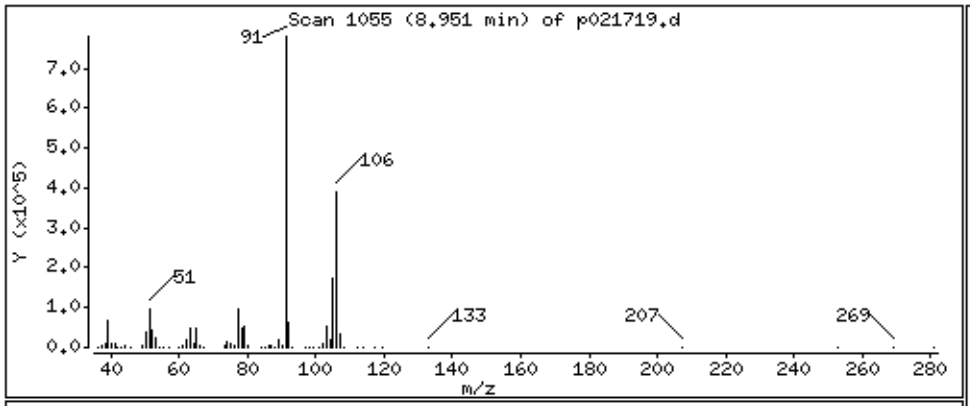
Operator: gd

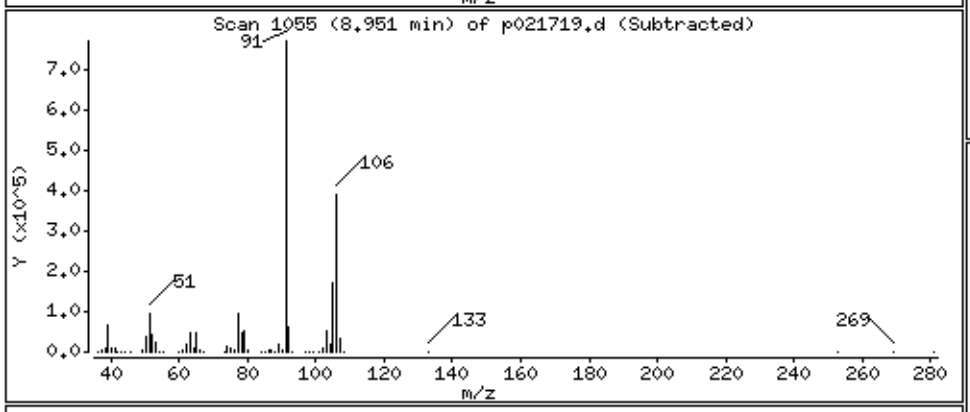
Column phase: RTX-624

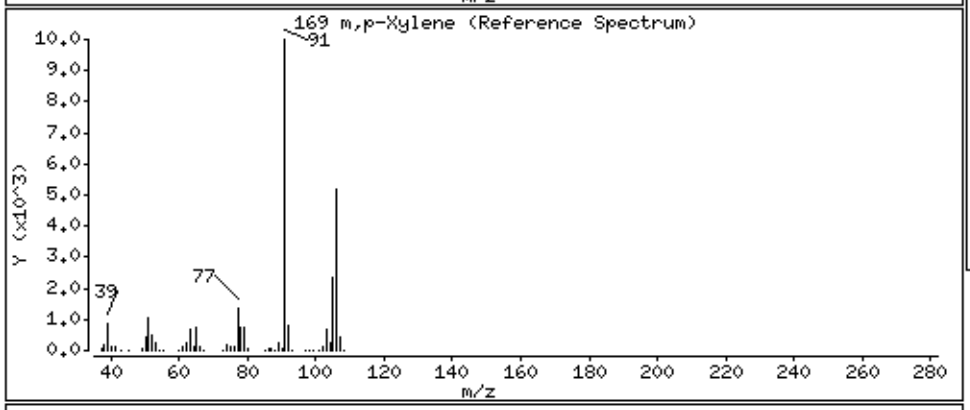
Column diameter: 0.25

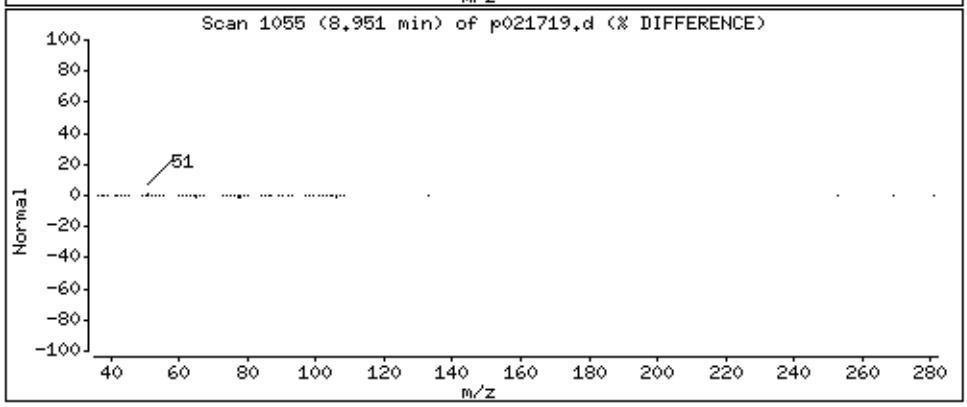
169 m,p-Xylene

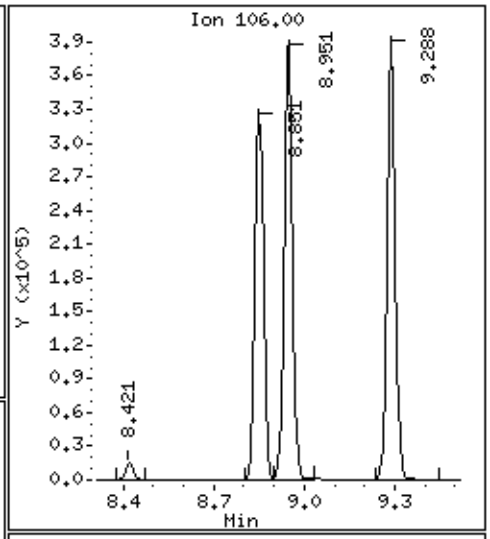
Concentration: 46.210 PPBV

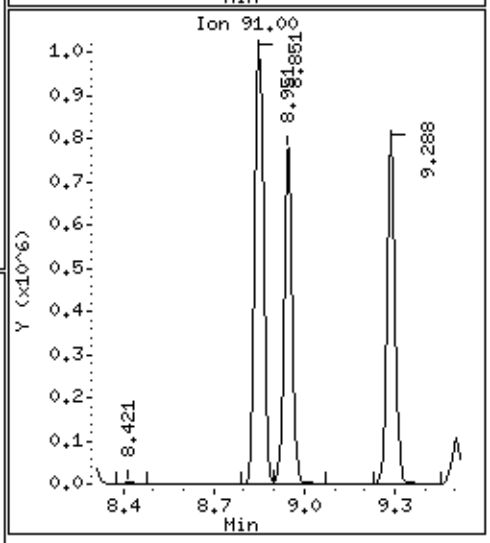












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

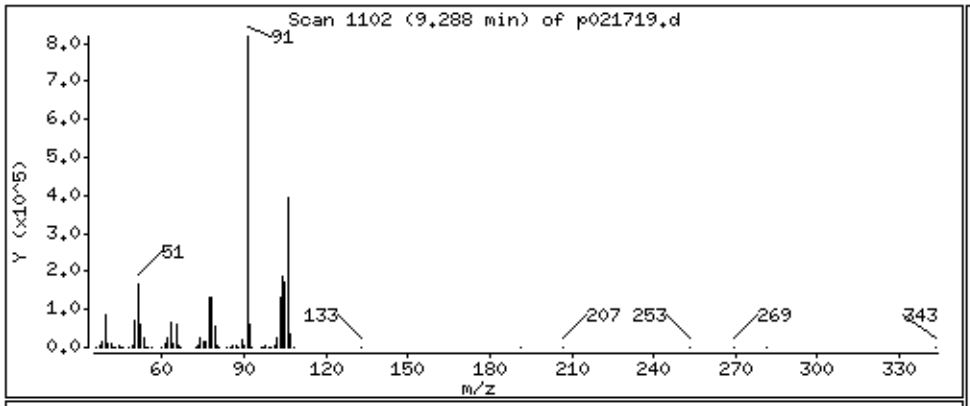
Operator: gd

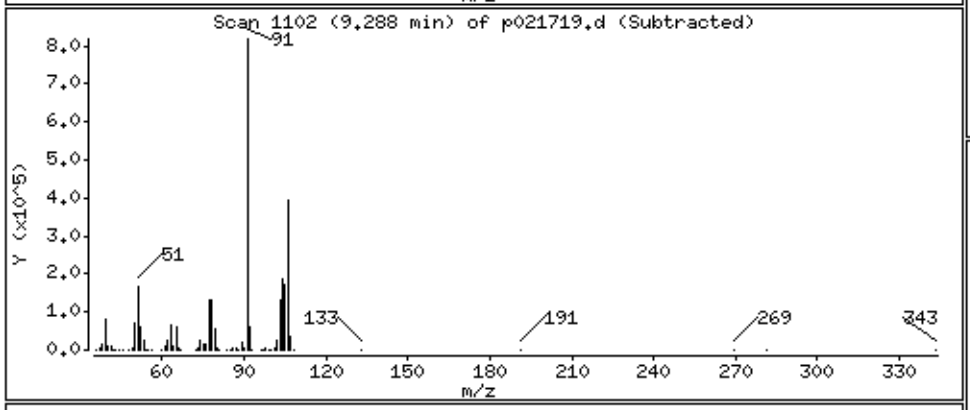
Column phase: RTX-624

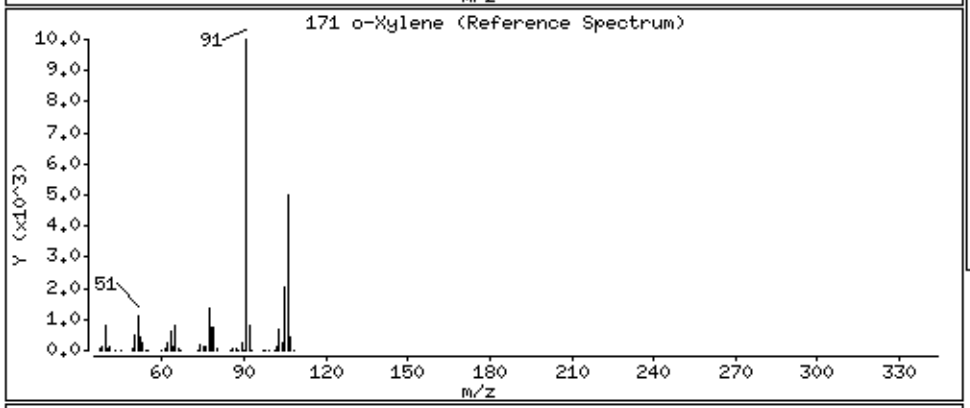
Column diameter: 0.25

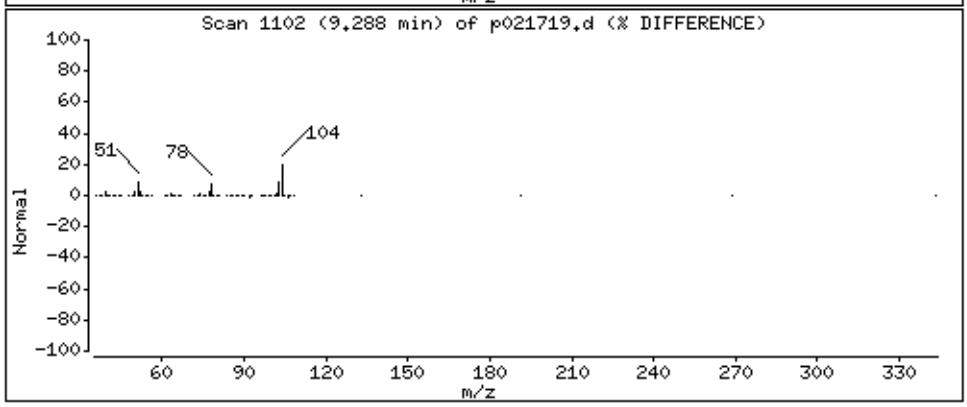
171 o-Xylene

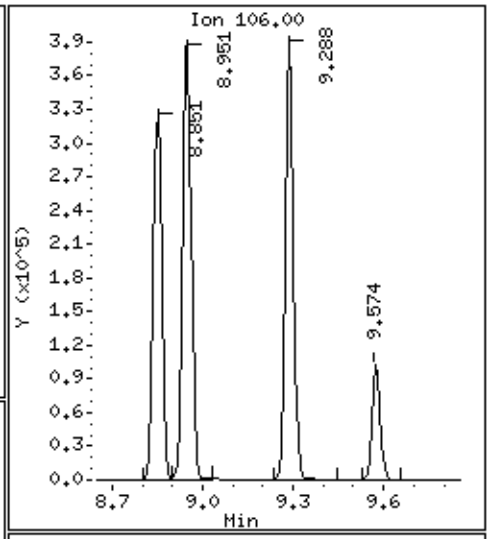
Concentration: 48.570 PPBV

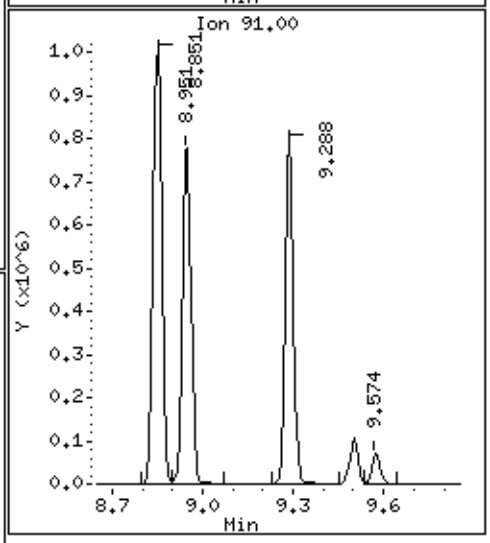












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

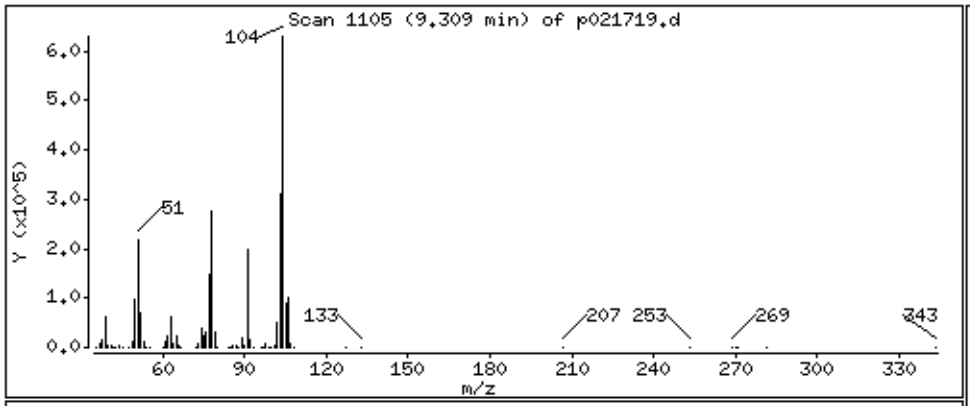
Operator: gd

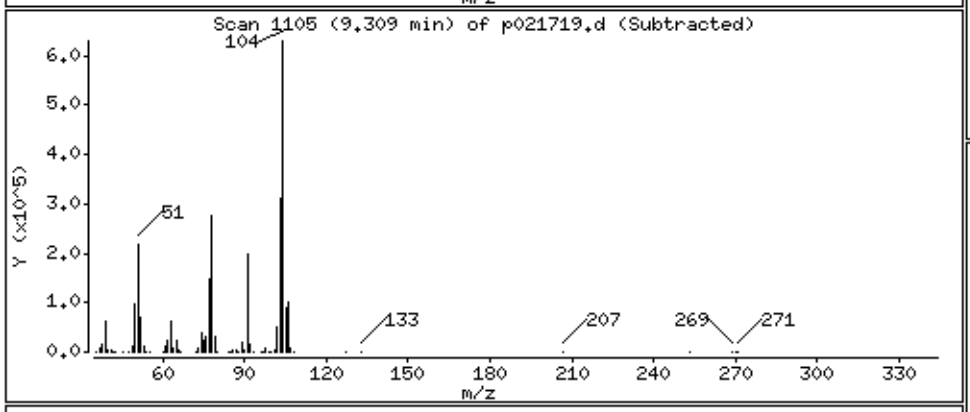
Column phase: RTX-624

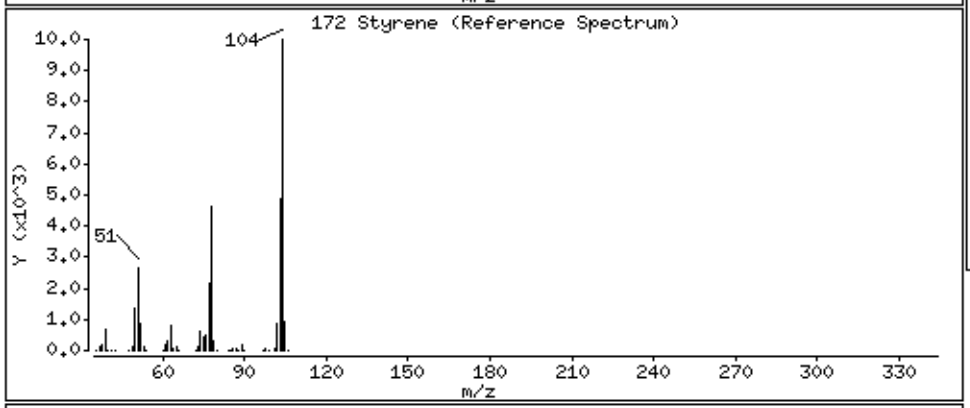
Column diameter: 0.25

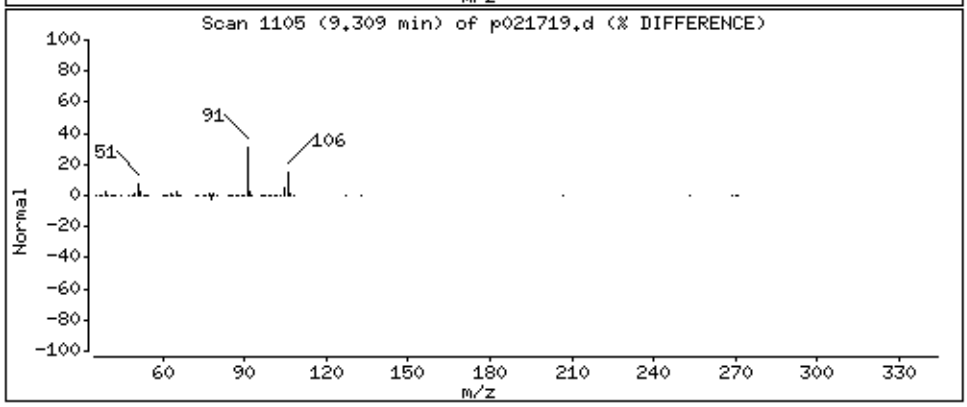
172 Styrene

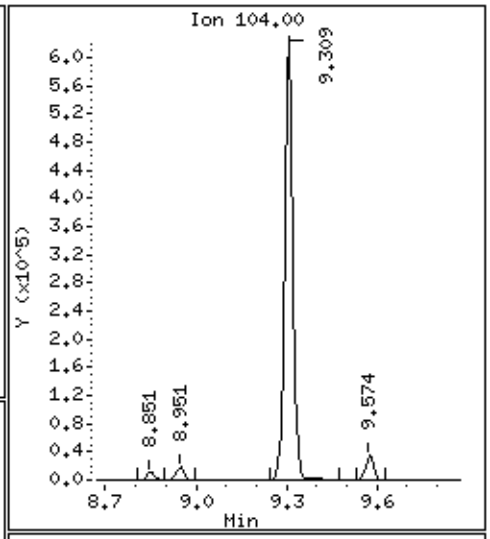
Concentration: 47.166 PPBV

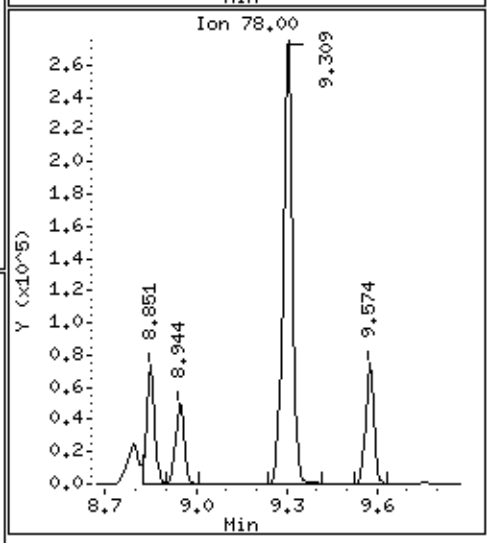












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

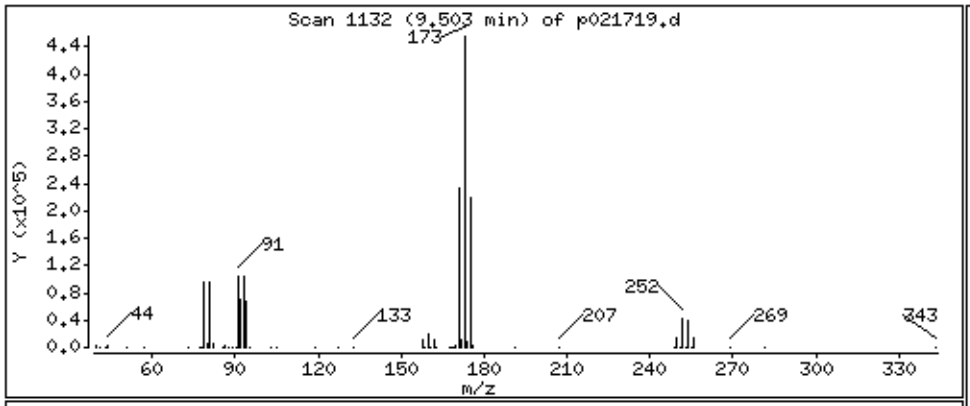
Operator: gd

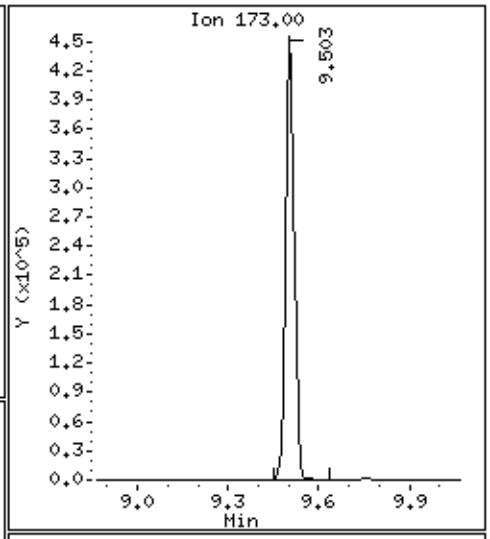
Column phase: RTX-624

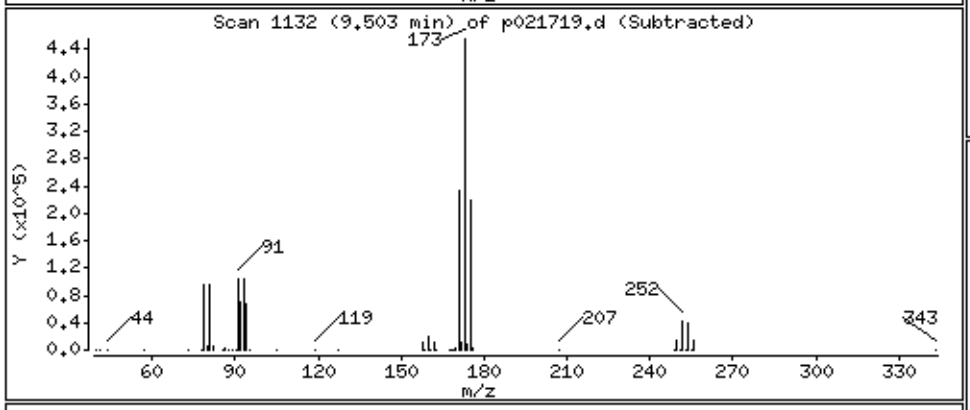
Column diameter: 0.25

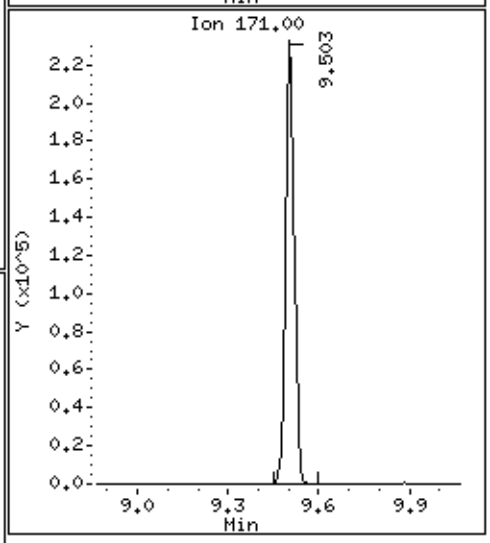
174 Bromoform

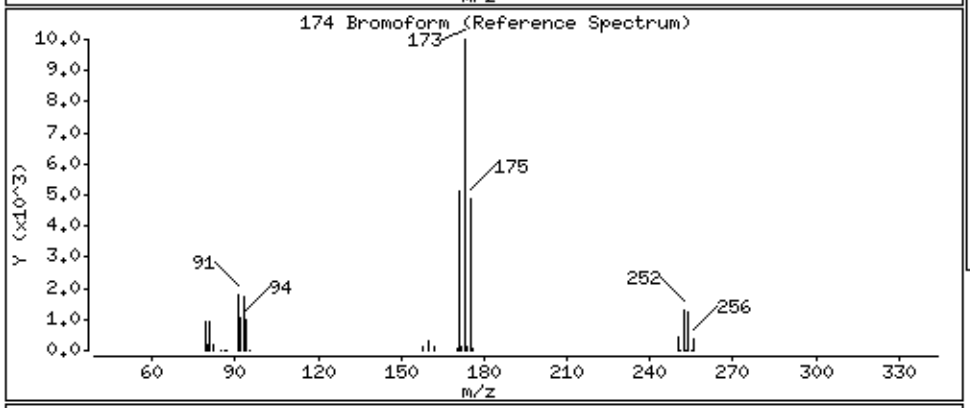
Concentration: 47.879 PPBV

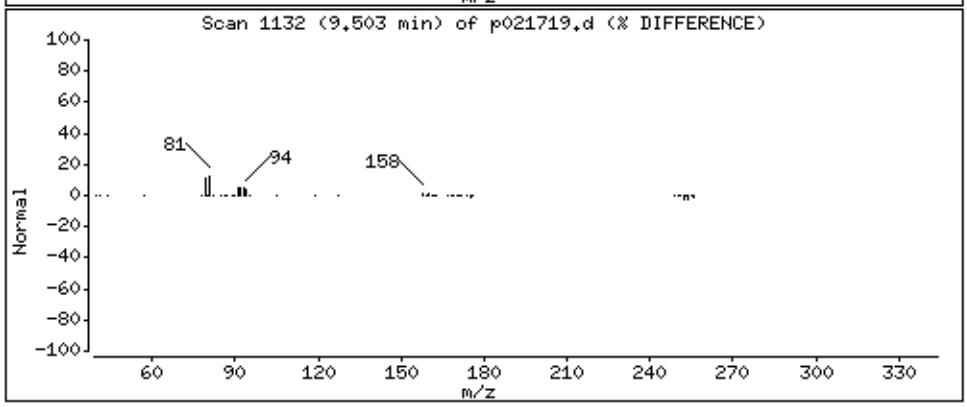












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

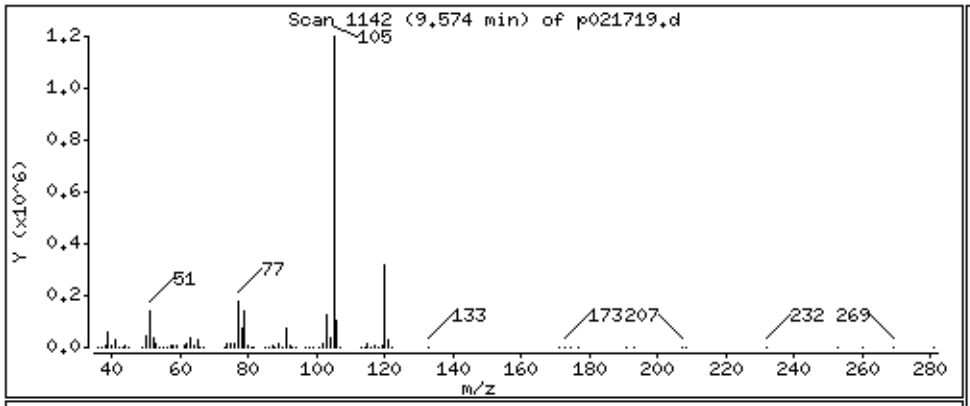
Operator: gd

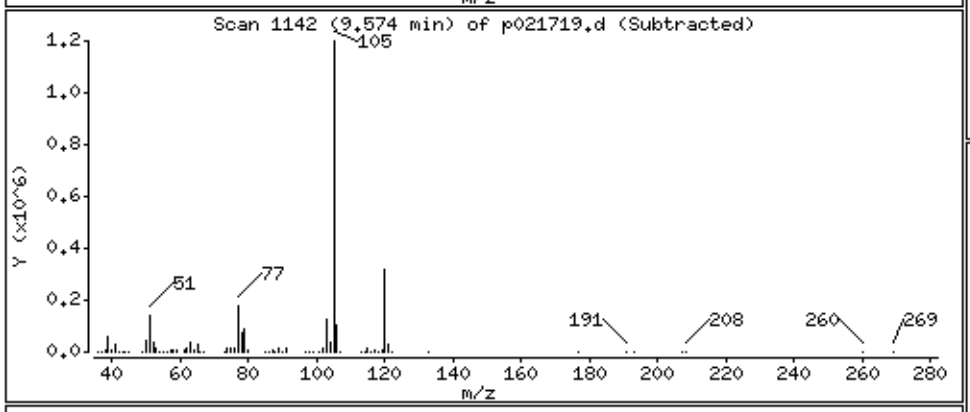
Column phase: RTX-624

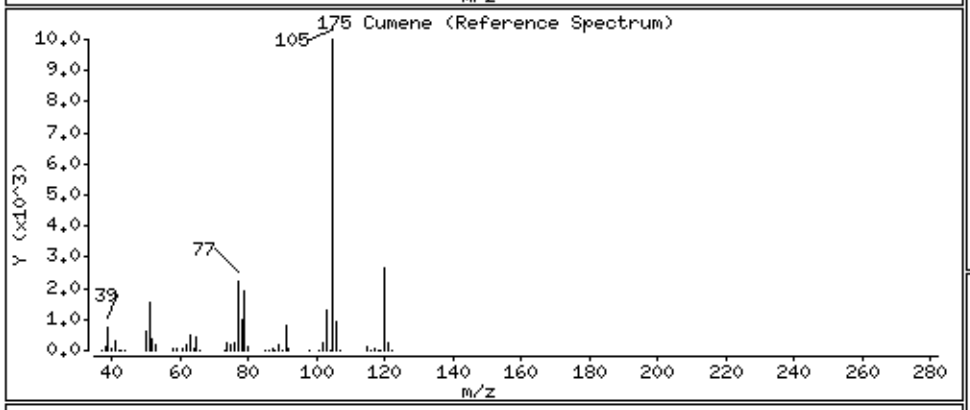
Column diameter: 0.25

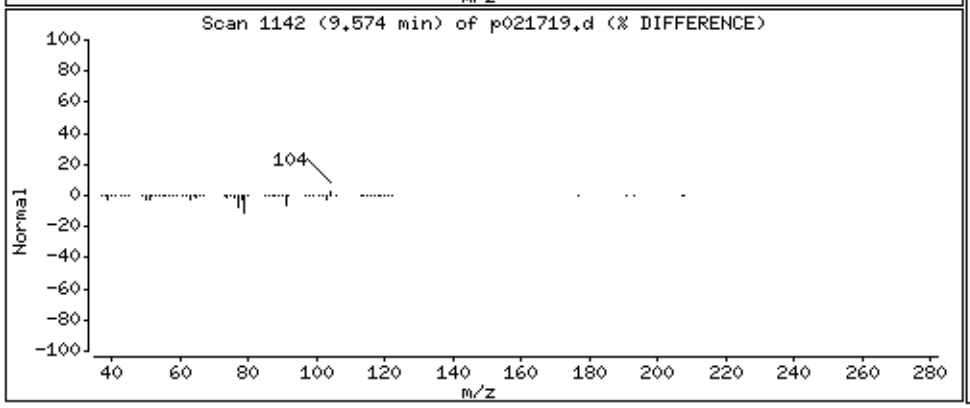
175 Cumene

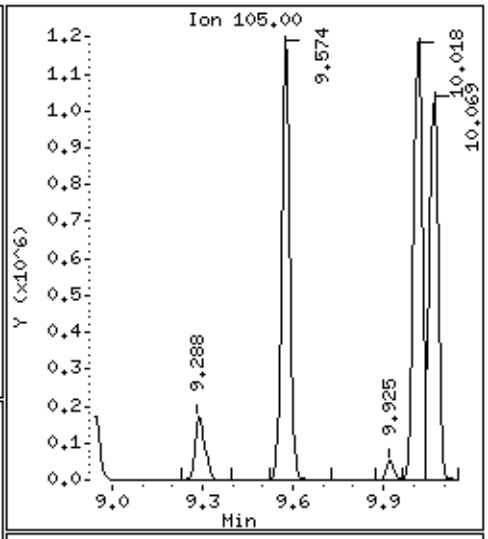
Concentration: 46.704 PPBV

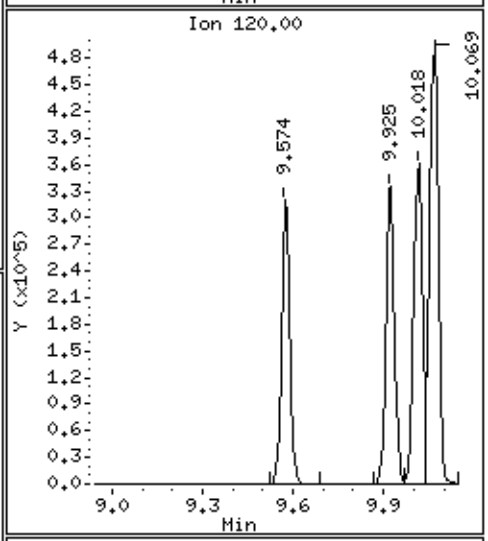


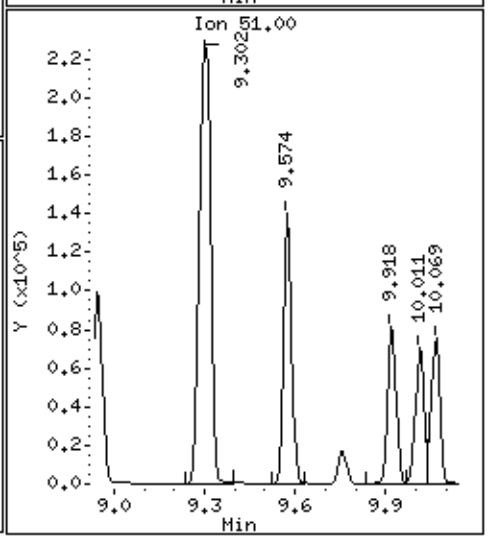












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

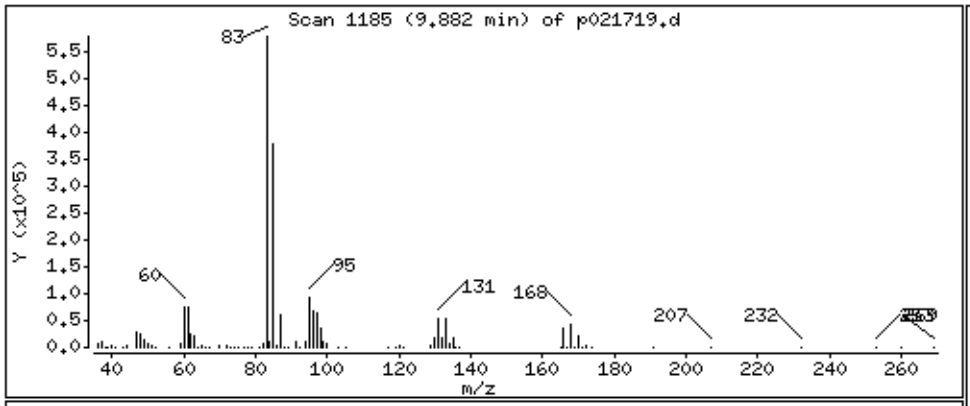
Operator: gd

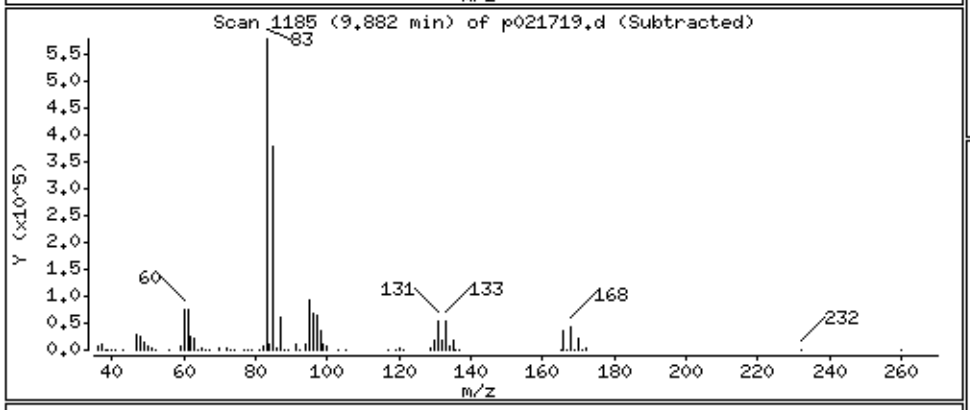
Column phase: RTX-624

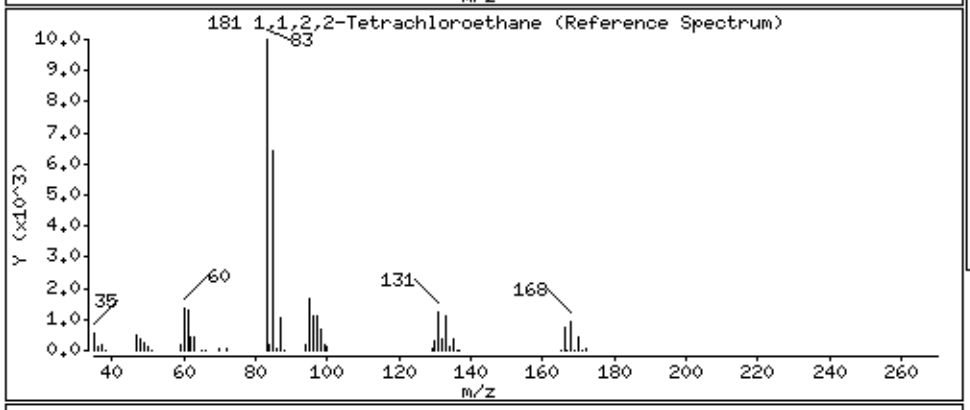
Column diameter: 0.25

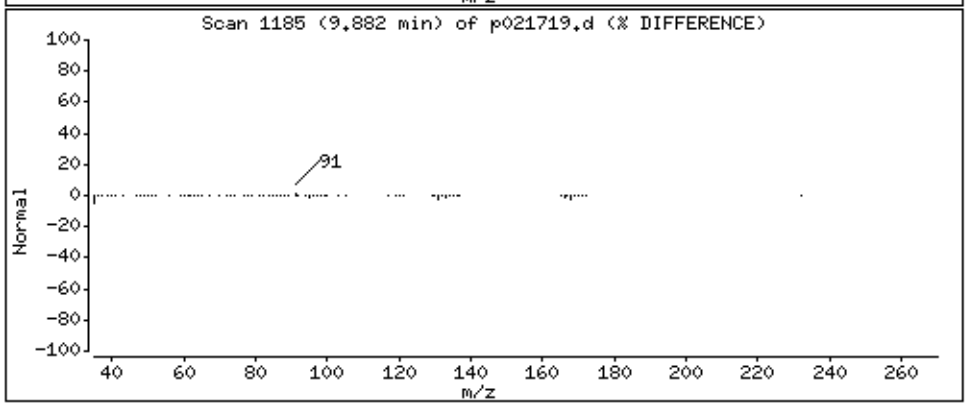
181 1,1,2,2-Tetrachloroethane

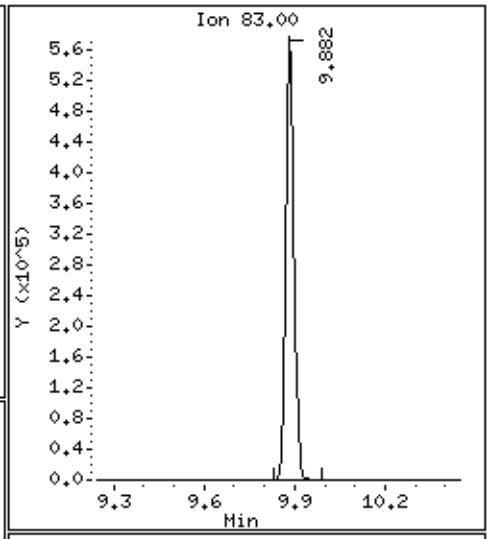
Concentration: 46.031 PPBV

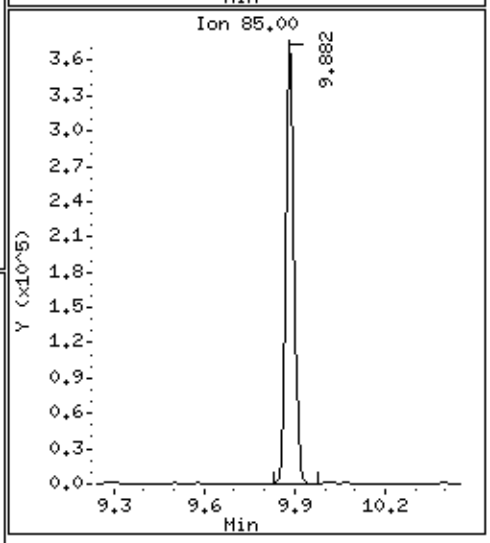












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

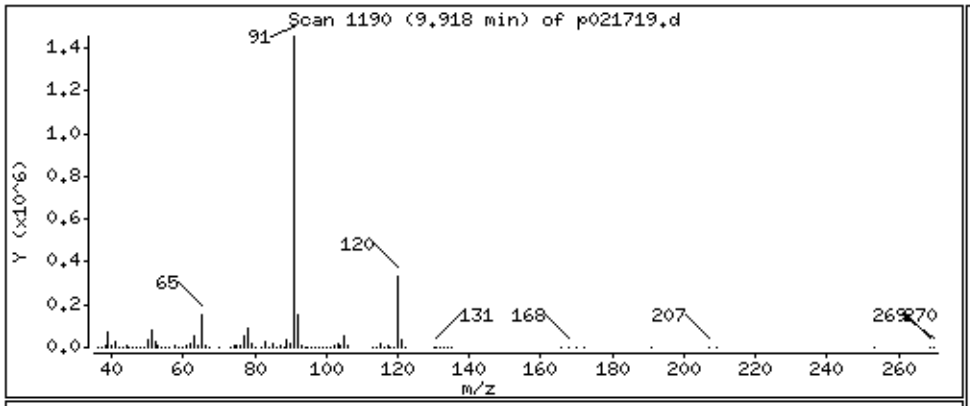
Operator: gd

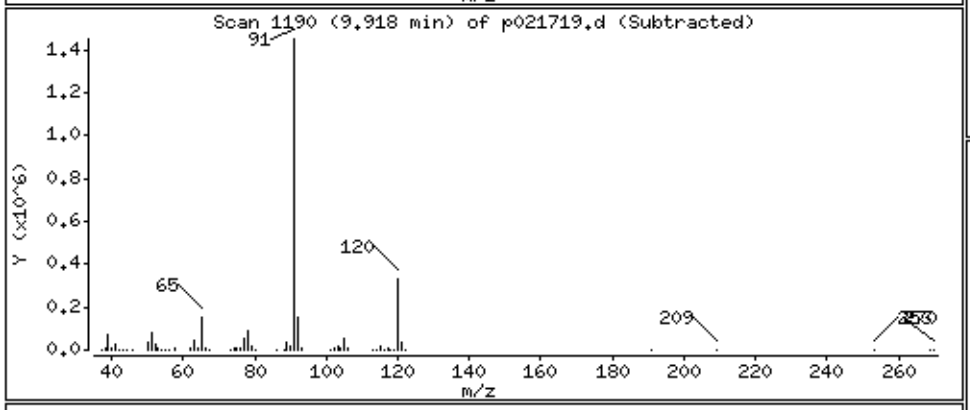
Column phase: RTX-624

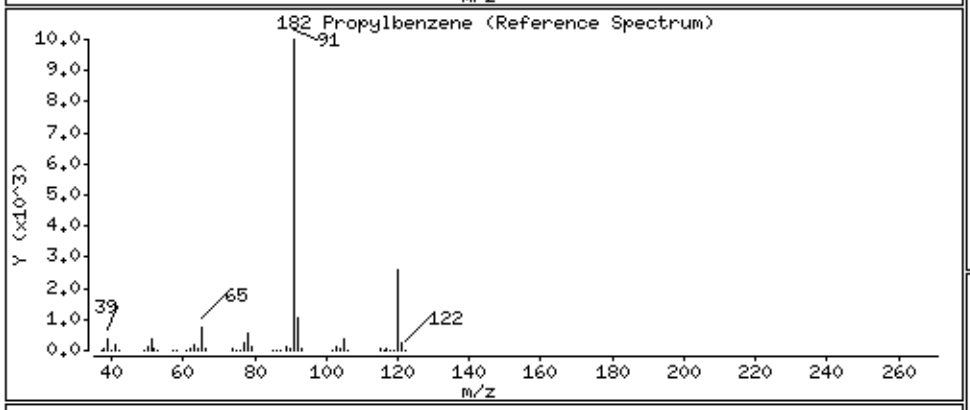
Column diameter: 0.25

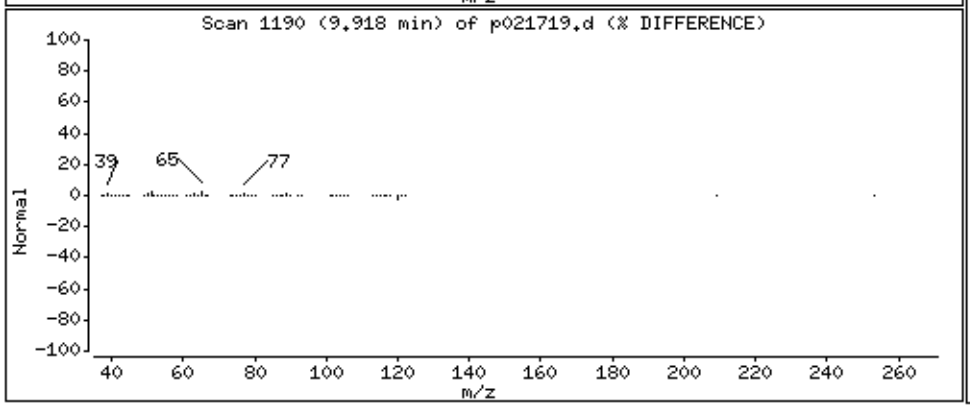
182 Propylbenzene

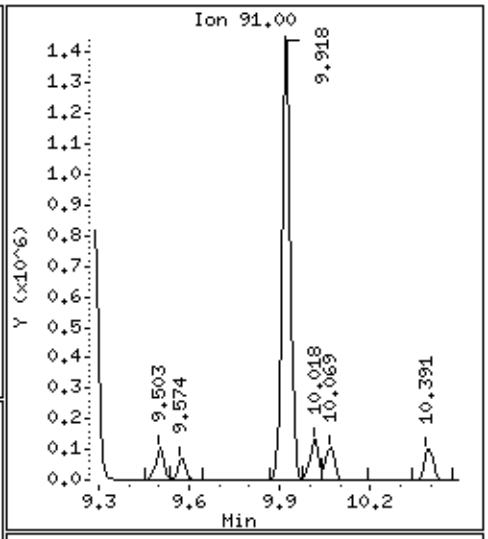
Concentration: 47.091 PPBV

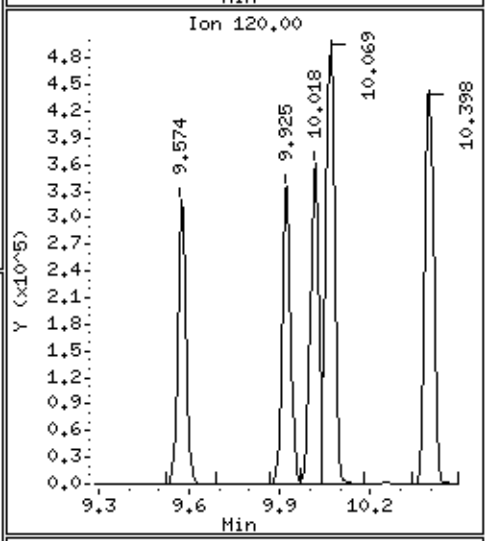


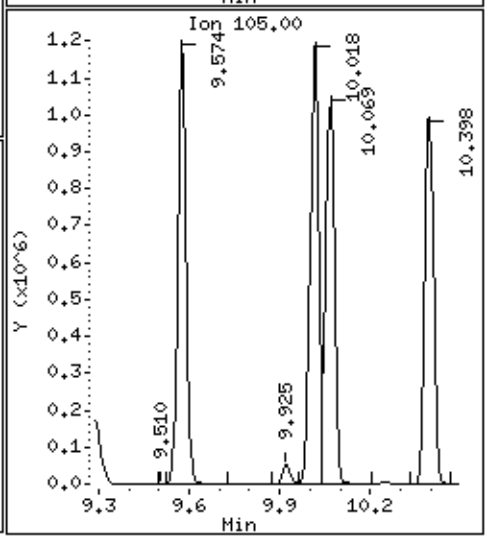












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

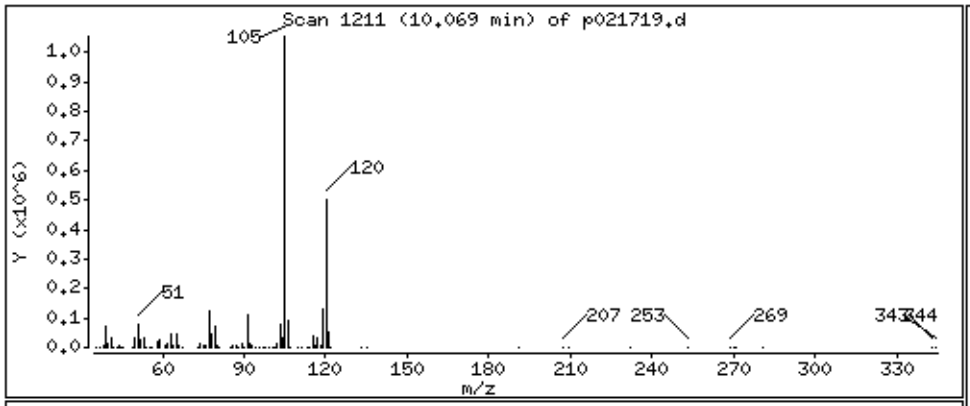
Operator: gd

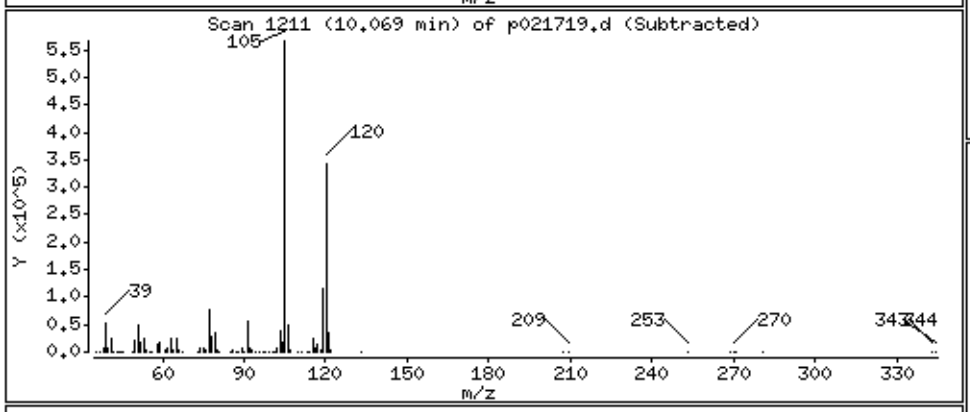
Column phase: RTX-624

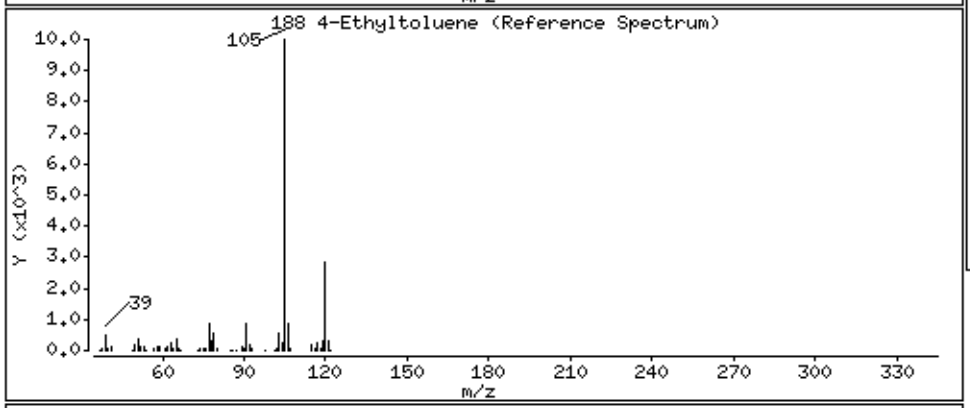
Column diameter: 0.25

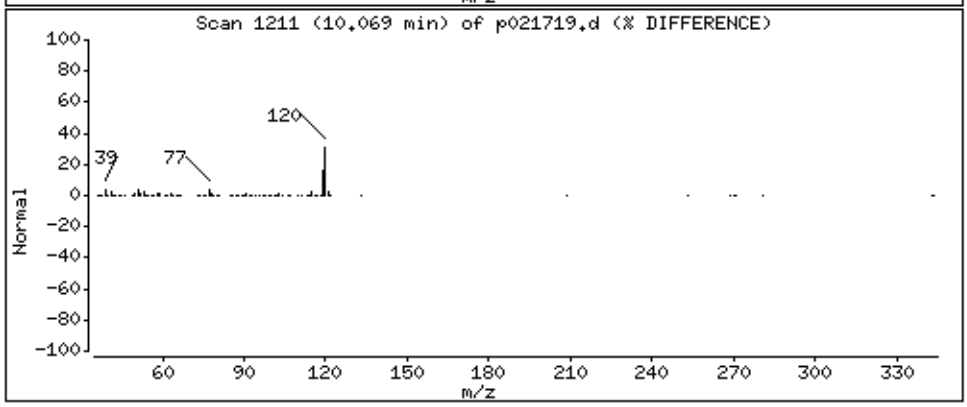
188 4-Ethyltoluene

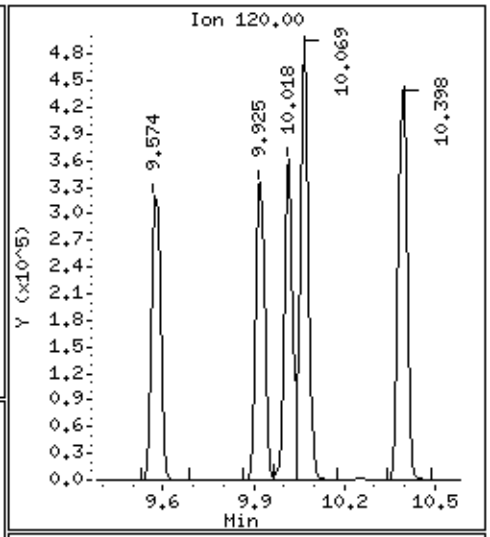
Concentration: 63.588 PPBV

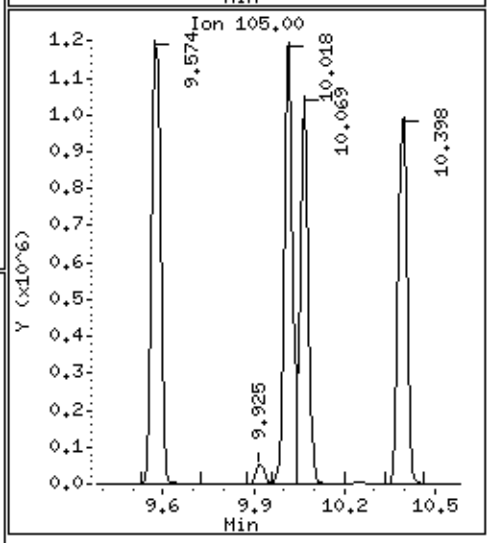












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

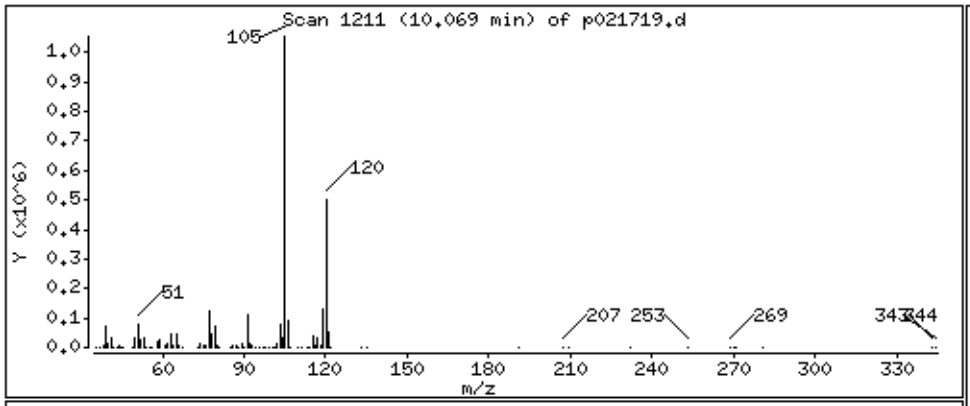
Operator: gd

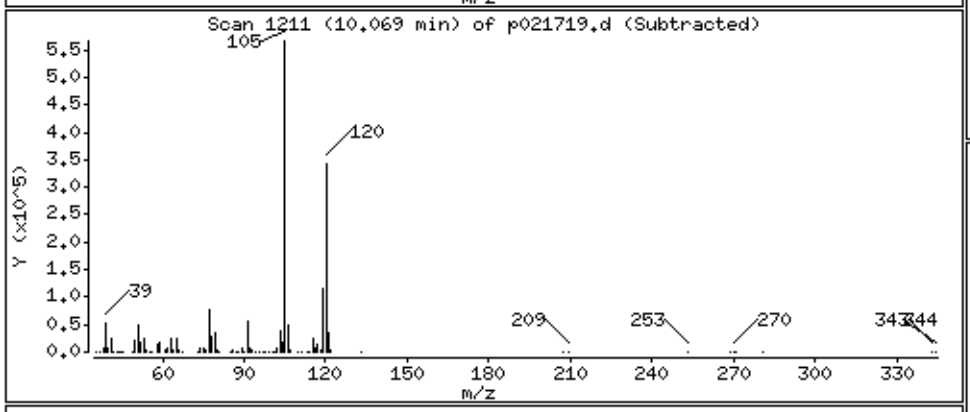
Column phase: RTX-624

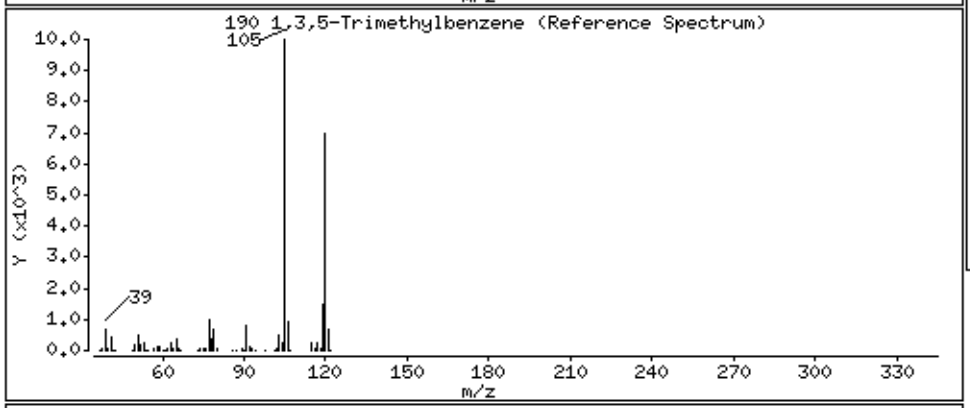
Column diameter: 0.25

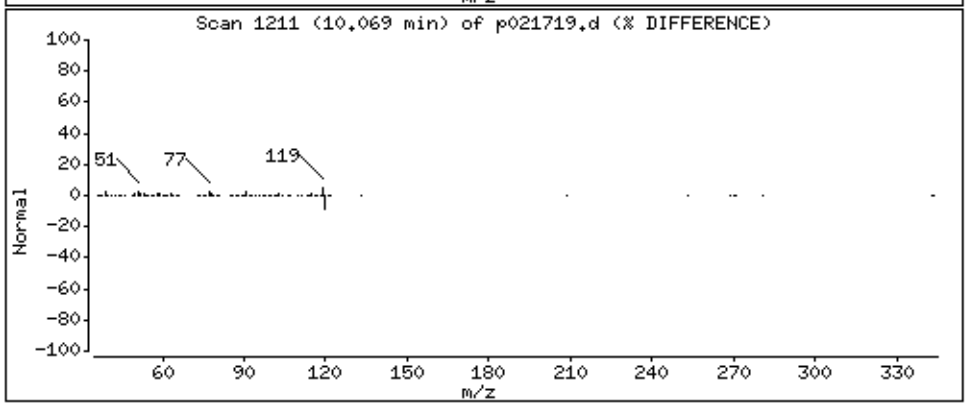
190 1,3,5-Trimethylbenzene

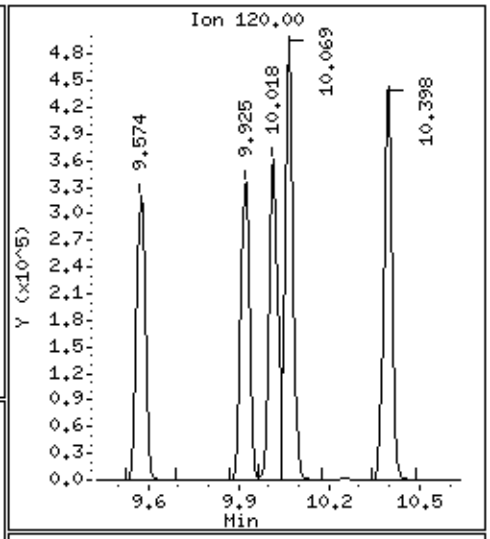
Concentration: 46.604 PPBV

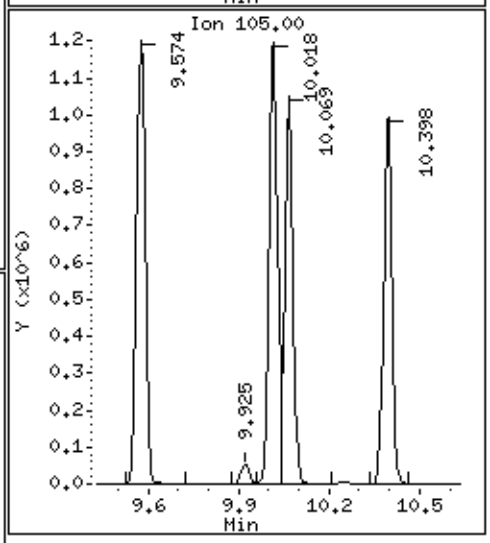












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

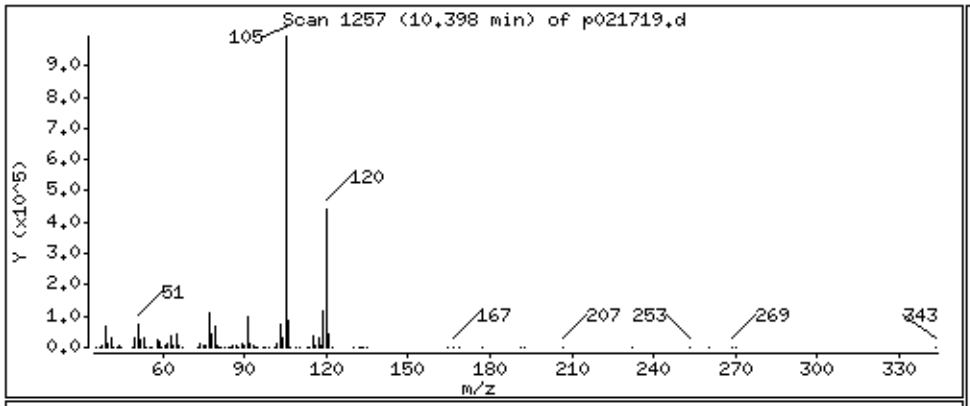
Operator: gd

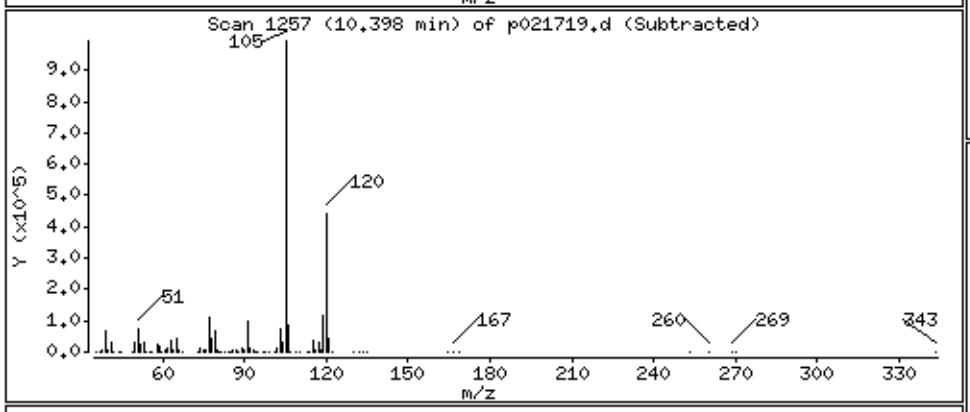
Column phase: RTX-624

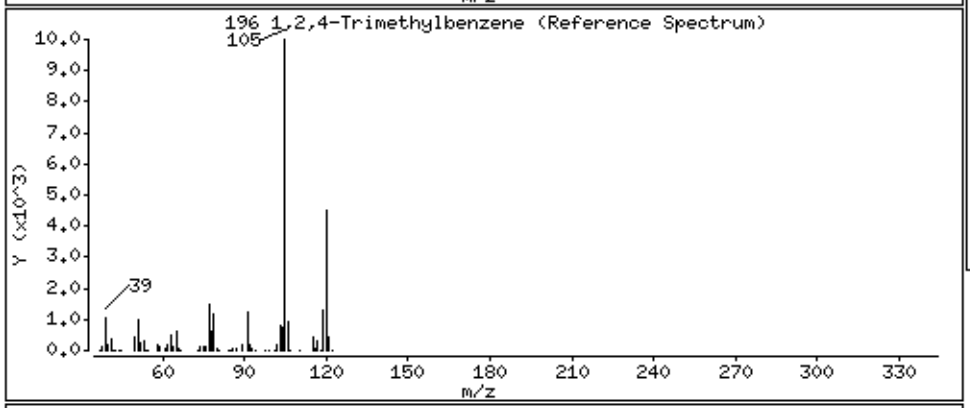
Column diameter: 0.25

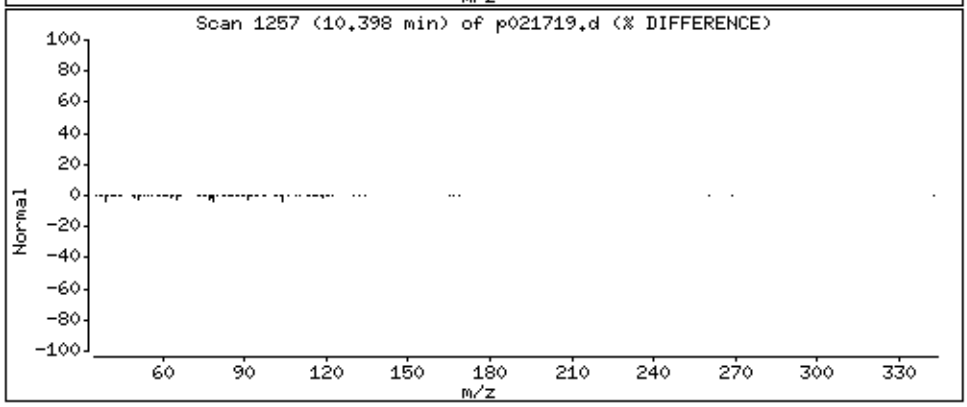
196 1,2,4-Trimethylbenzene

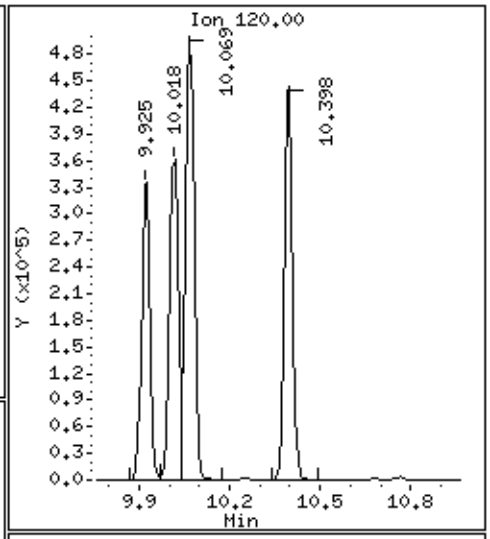
Concentration: 45.571 PPBV

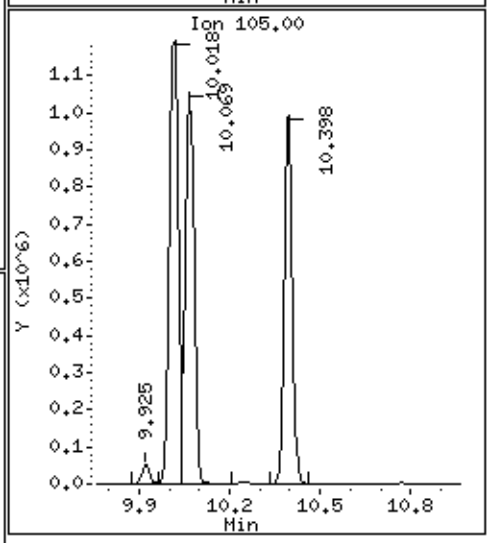












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

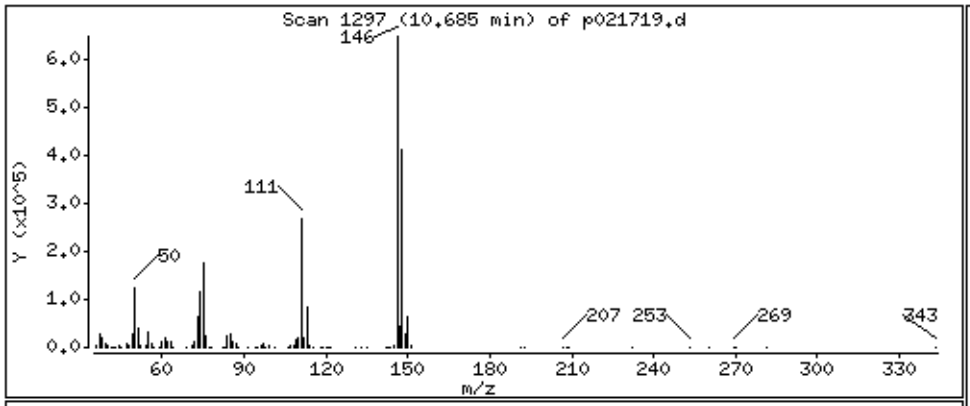
Operator: gd

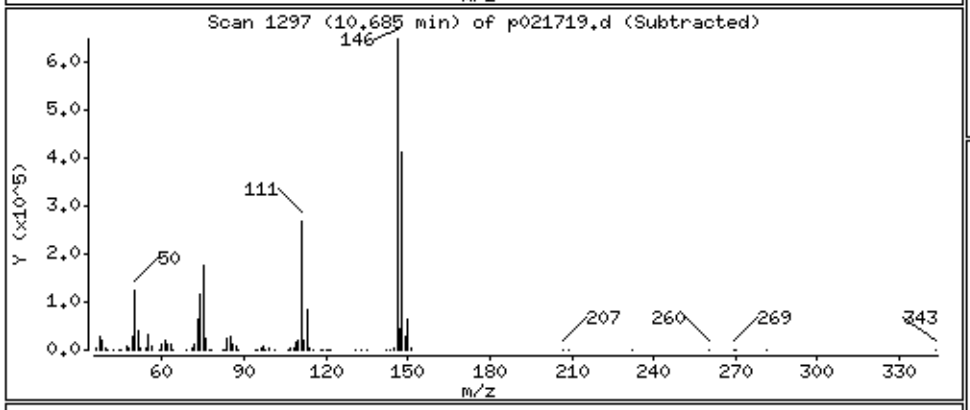
Column phase: RTX-624

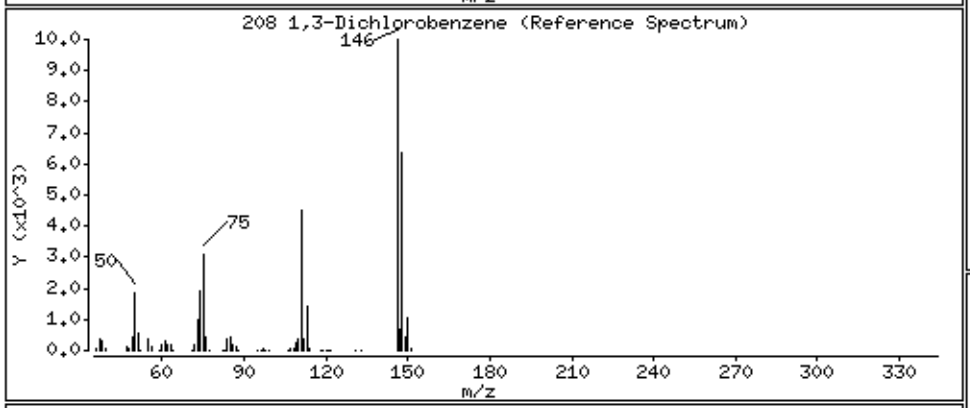
Column diameter: 0.25

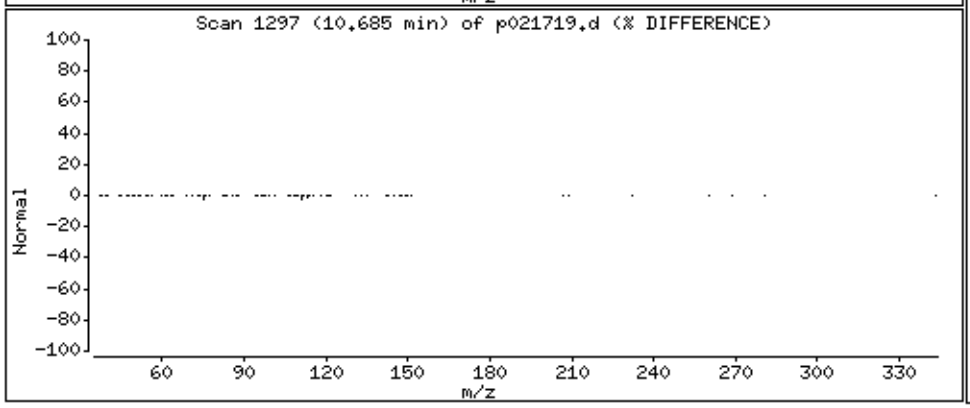
208 1,3-Dichlorobenzene

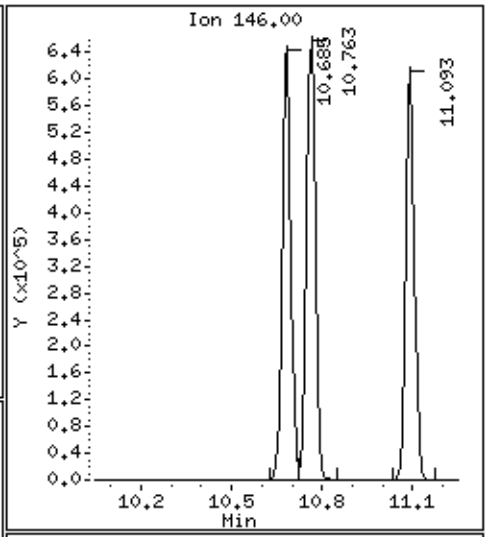
Concentration: 46.169 PPBV

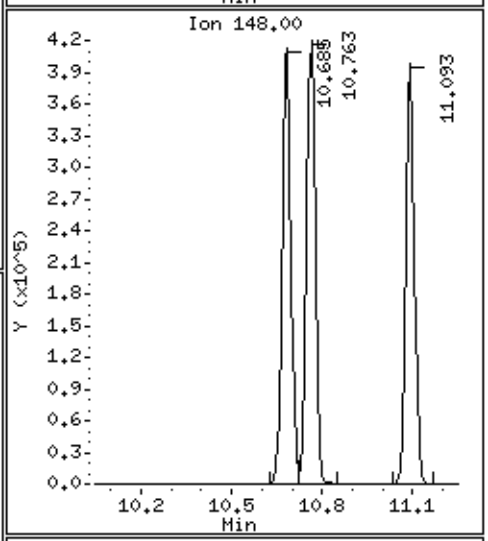


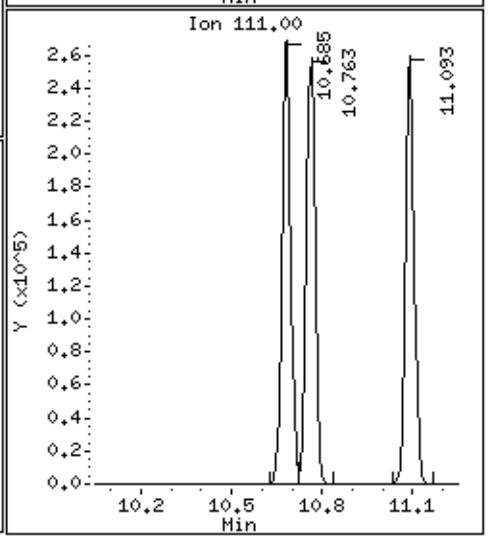












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

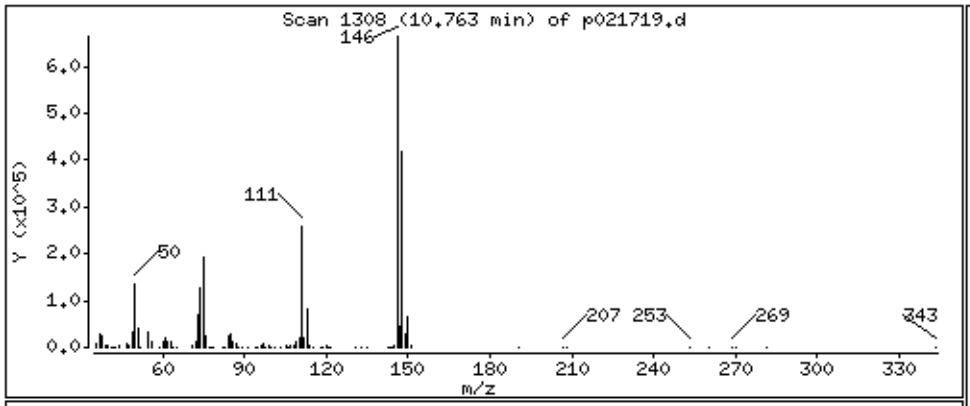
Operator: gd

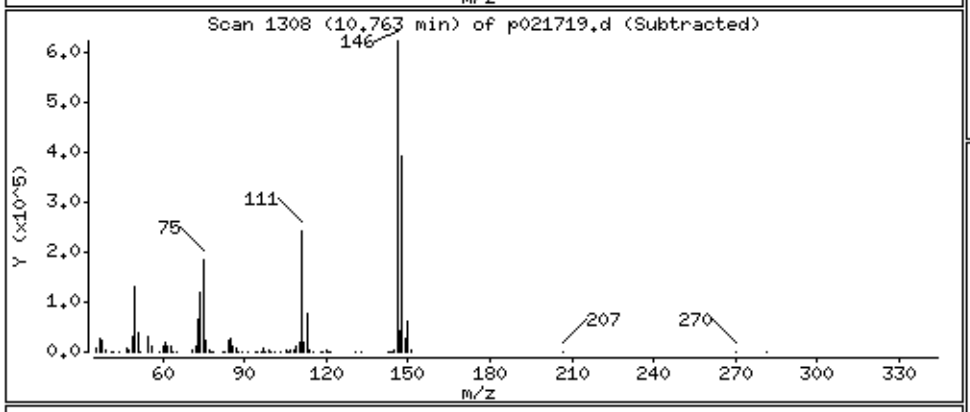
Column phase: RTX-624

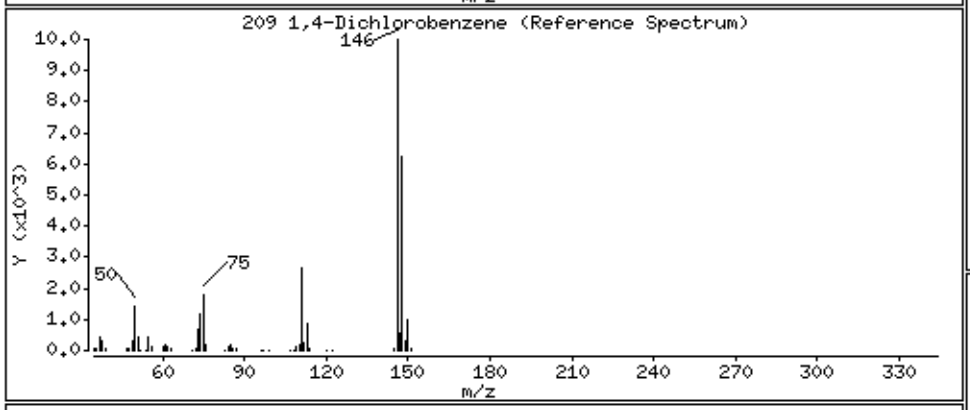
Column diameter: 0.25

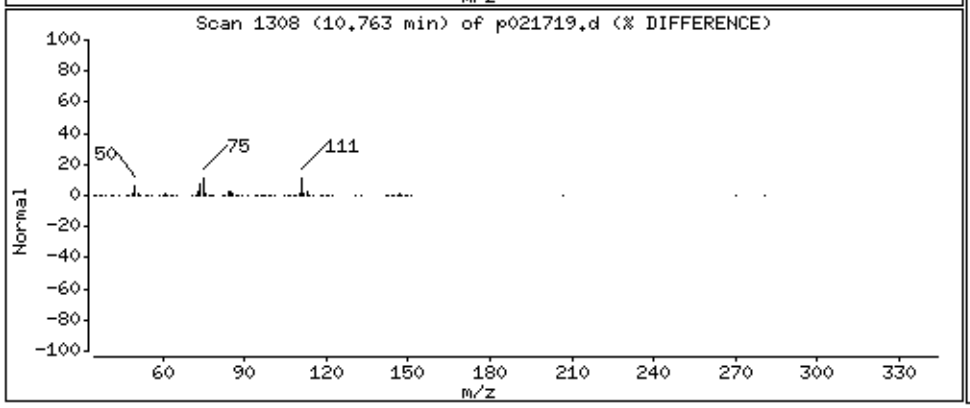
209 1,4-Dichlorobenzene

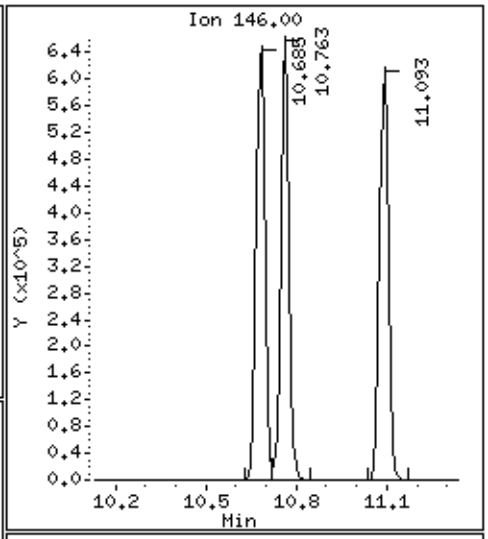
Concentration: 45.837 PPBV

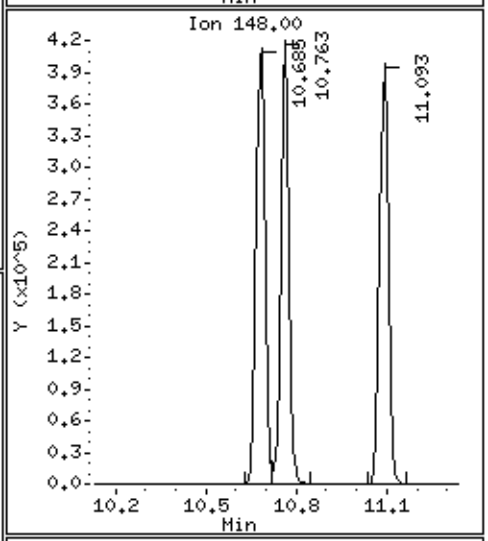


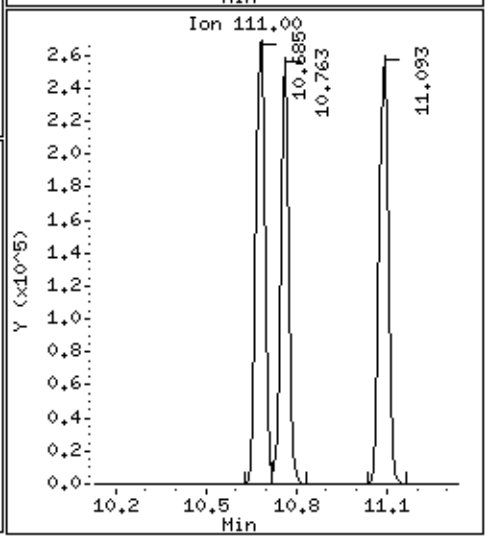












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

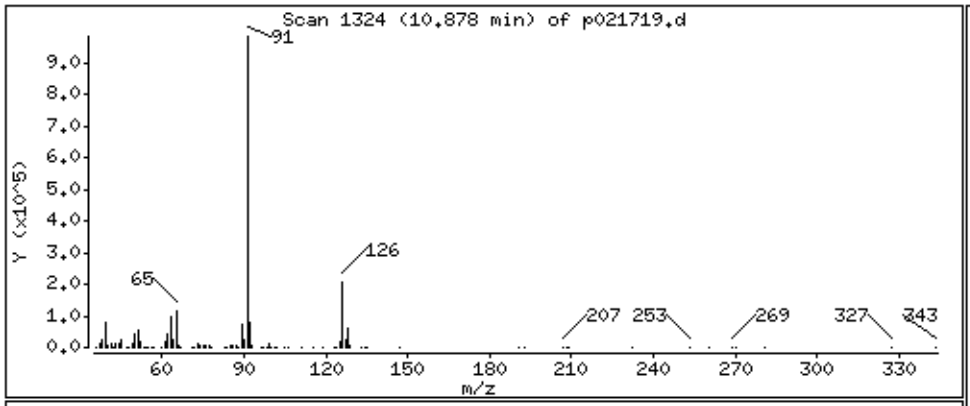
Operator: gd

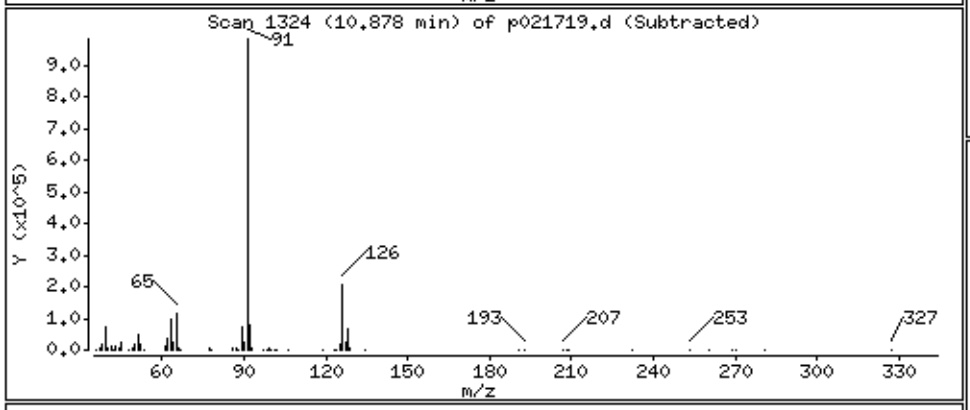
Column phase: RTX-624

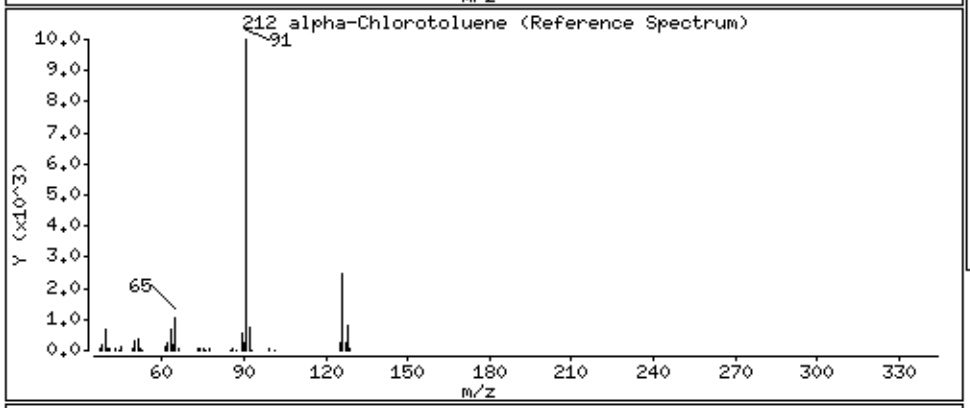
Column diameter: 0.25

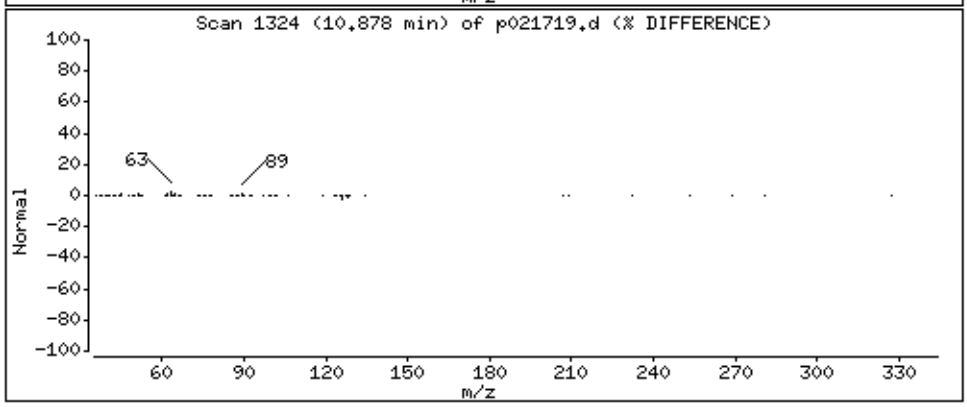
212 alpha-Chlorotoluene

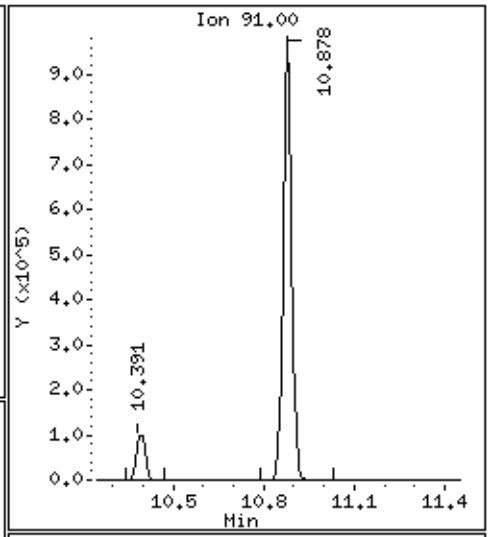
Concentration: 48.933 PPBV

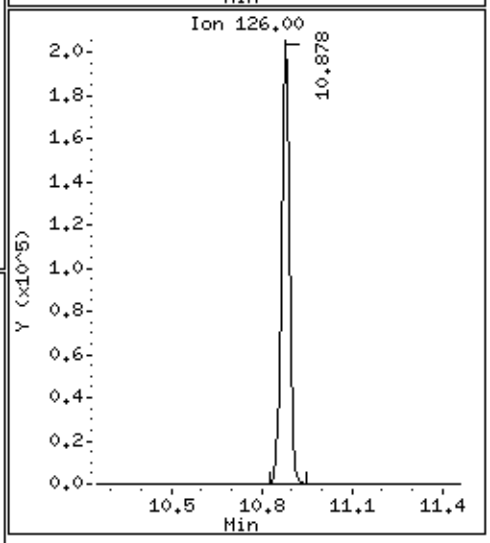












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

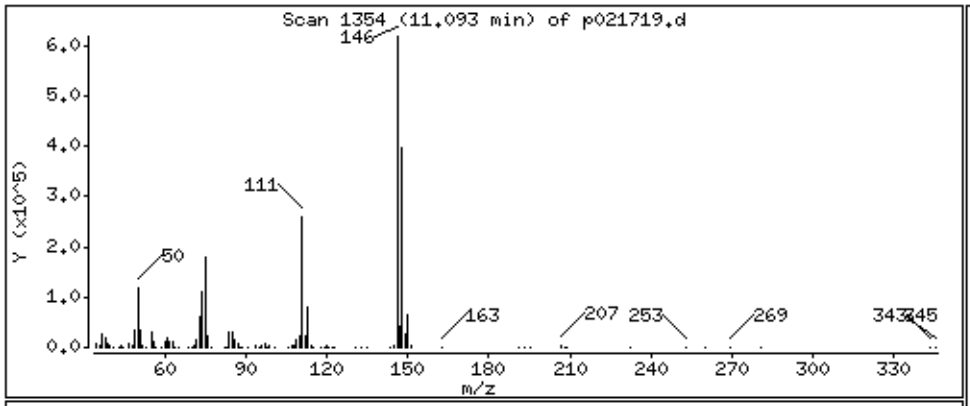
Operator: gd

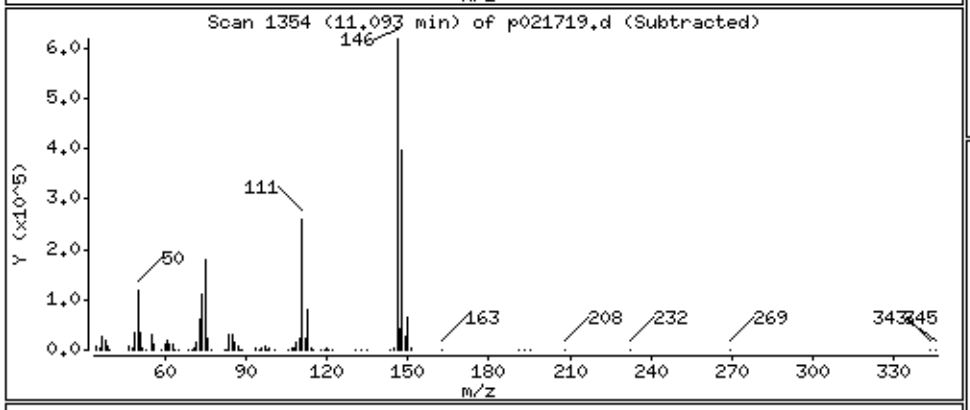
Column phase: RTX-624

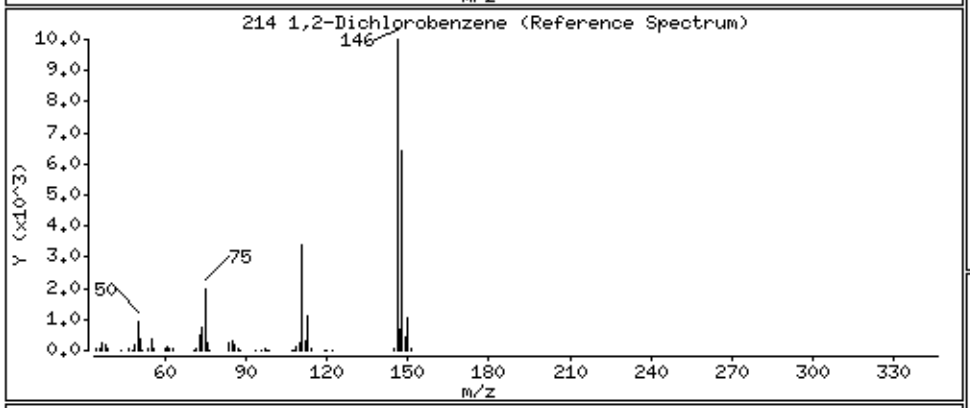
Column diameter: 0.25

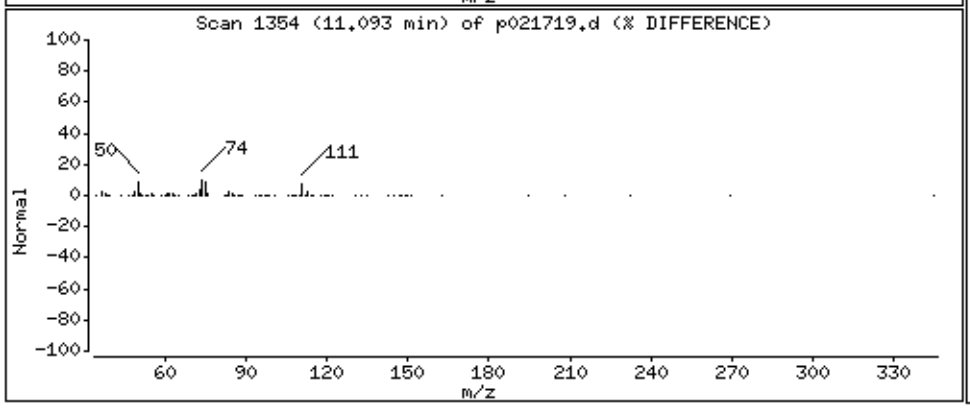
214 1,2-Dichlorobenzene

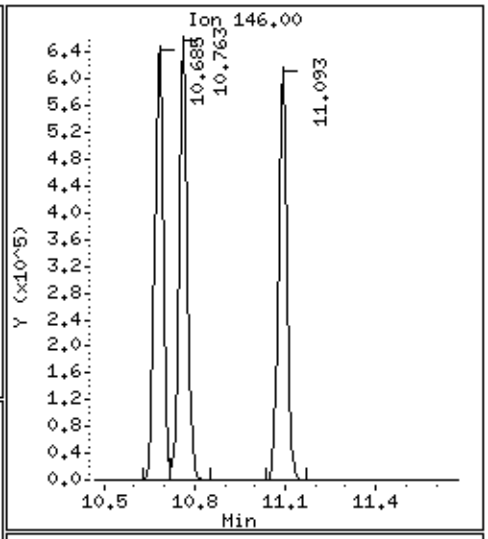
Concentration: 45.405 PPBV

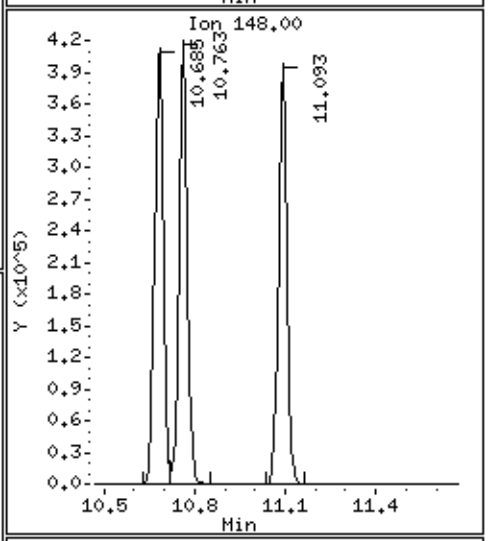


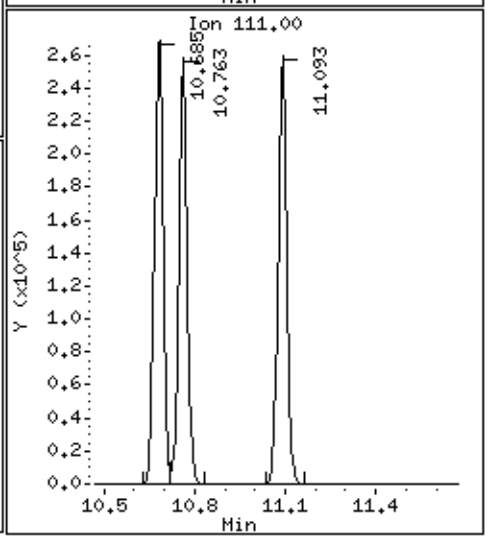












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

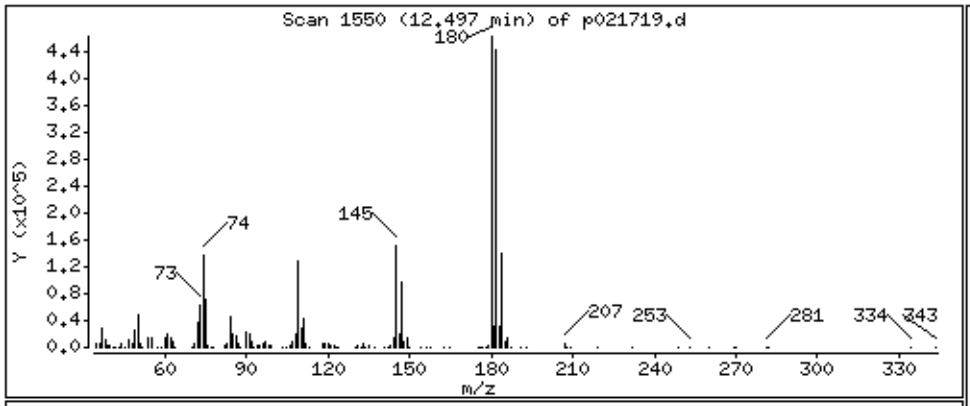
Operator: gd

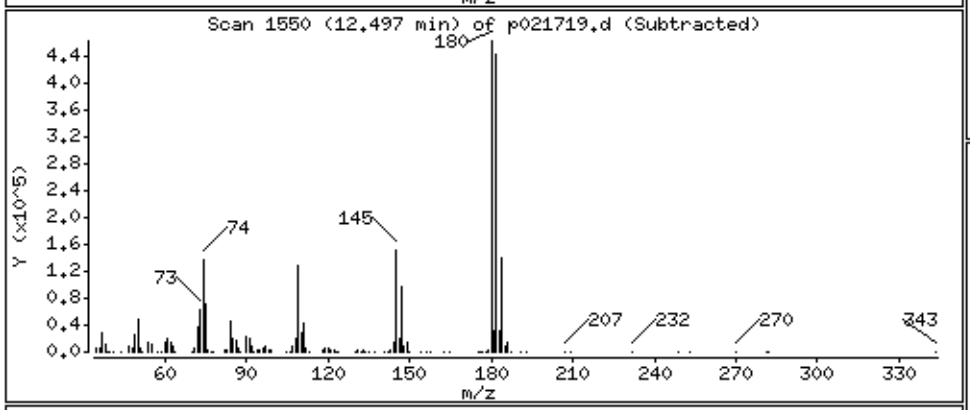
Column phase: RTX-624

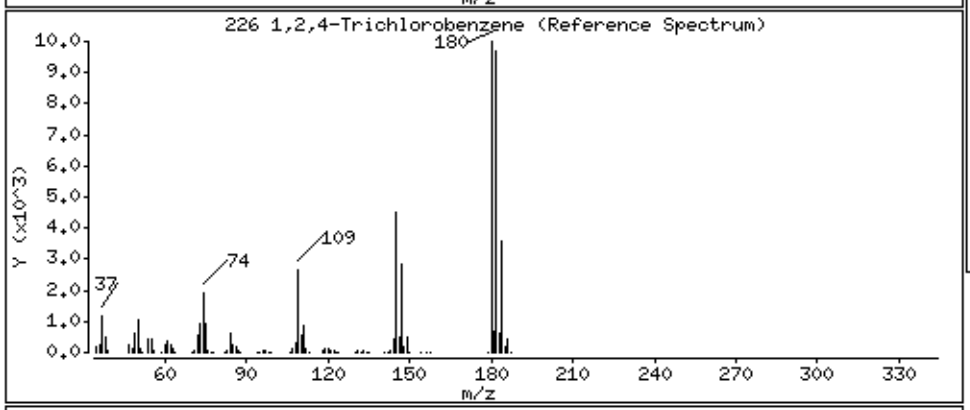
Column diameter: 0.25

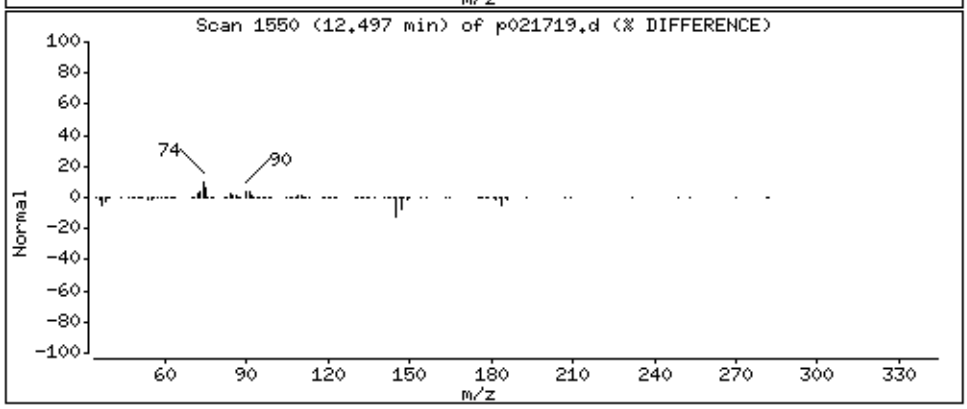
226 1,2,4-Trichlorobenzene

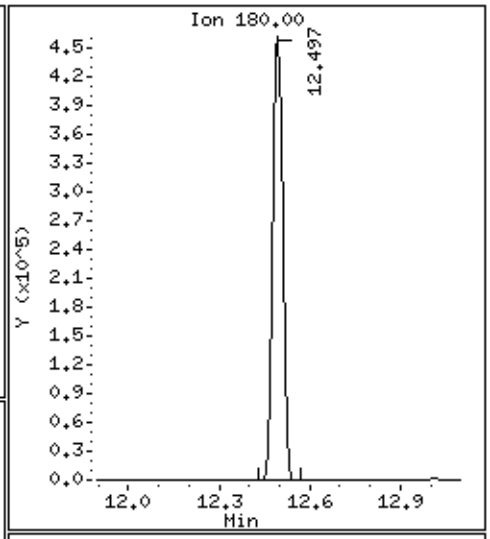
Concentration: 45.868 PPBV

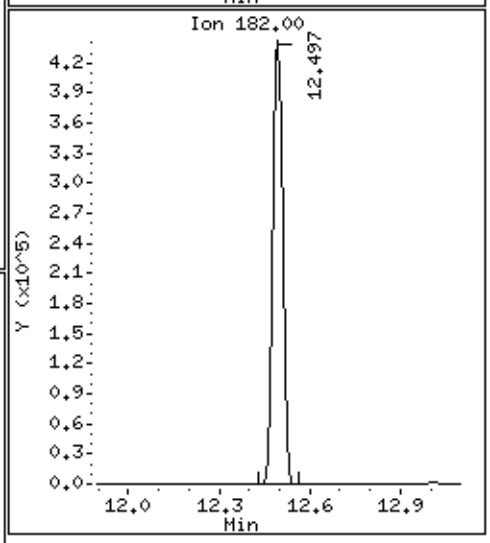












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

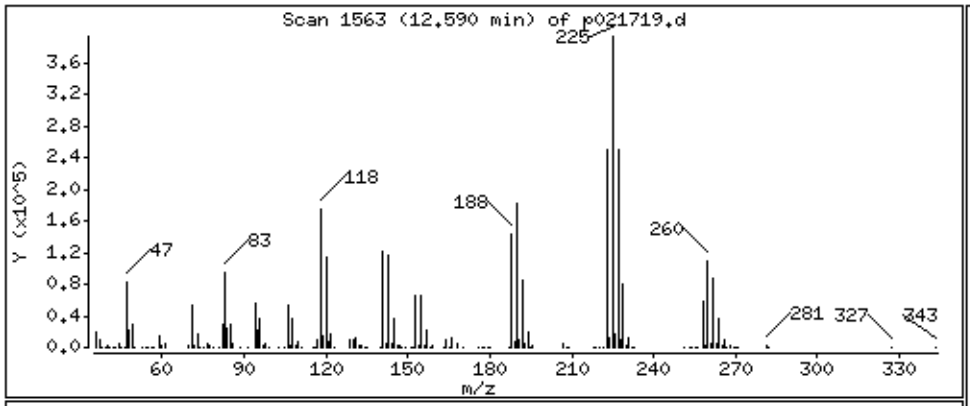
Operator: gd

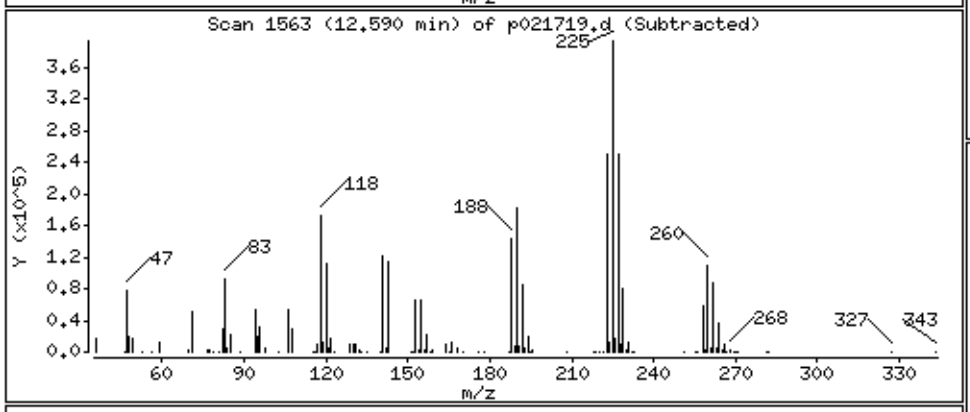
Column phase: RTX-624

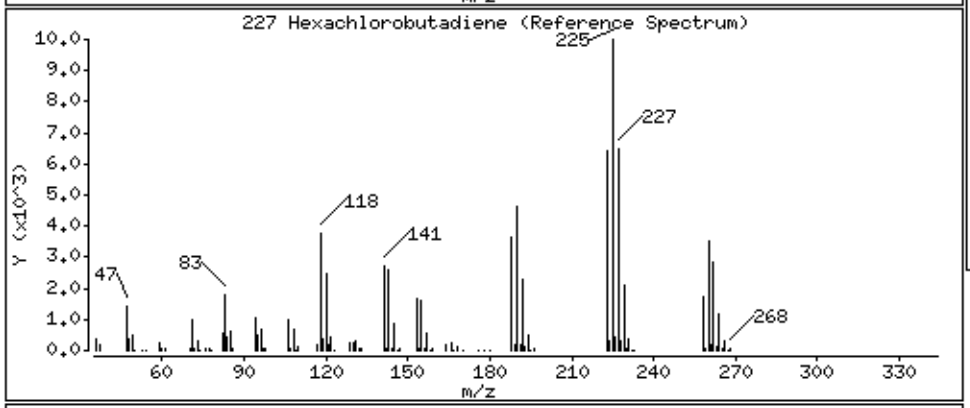
Column diameter: 0.25

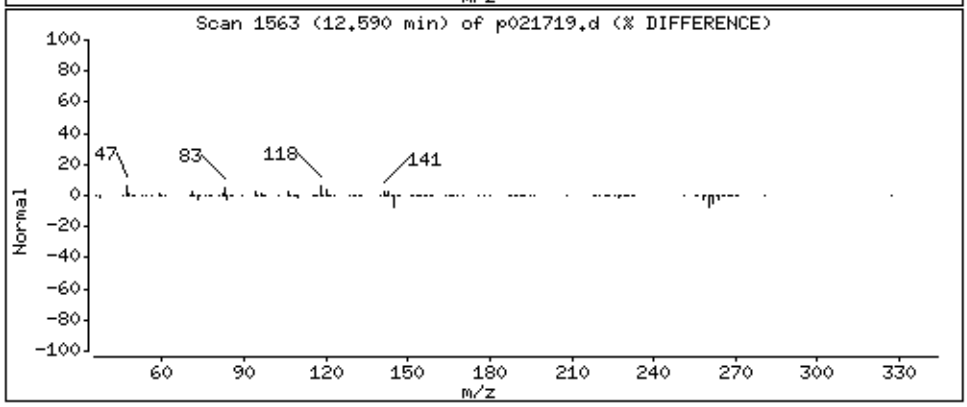
227 Hexachlorobutadiene

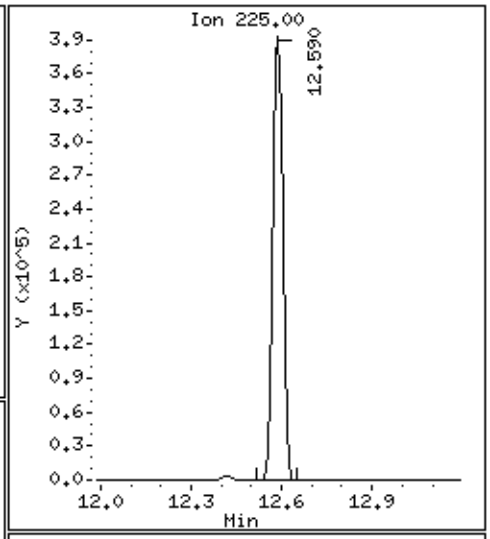
Concentration: 45.681 PPBV

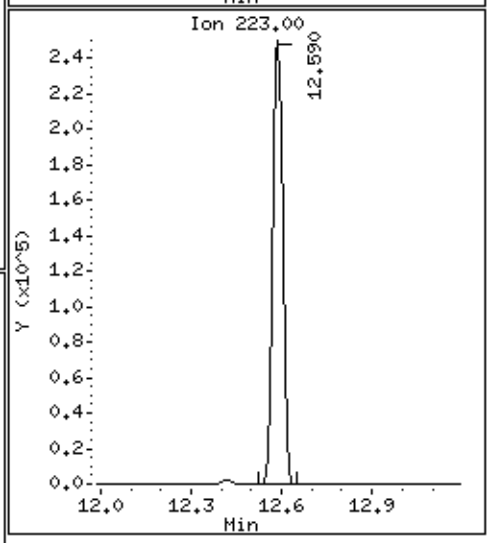












Data File: /chem/msdp.i/17feb15.b/p021719.d

Date : 17-FEB-2015 22:43

Client ID: ICV

Instrument: msdp.i

Sample Info: 50ml #2716-100

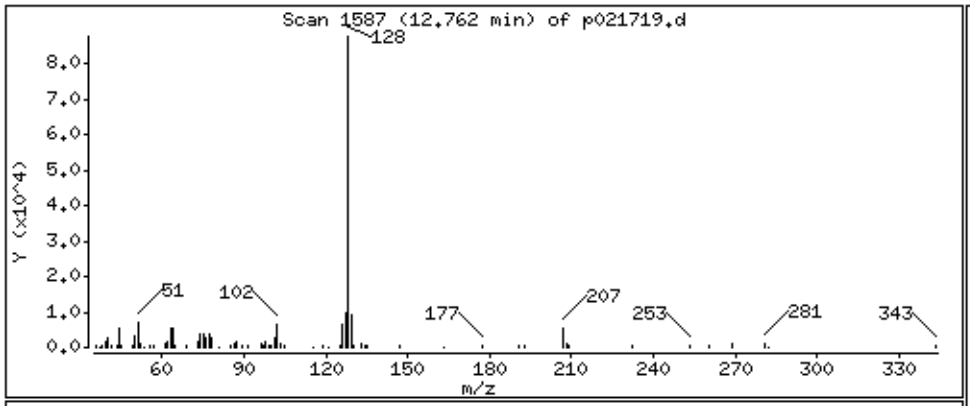
Operator: gd

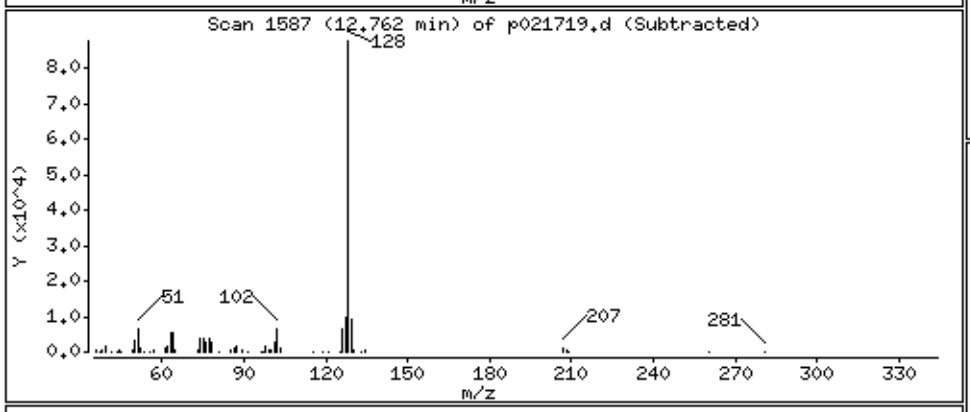
Column phase: RTX-624

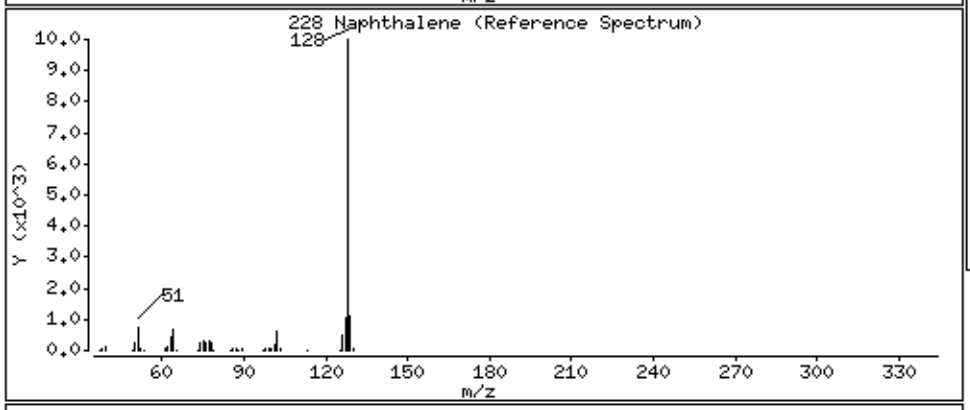
Column diameter: 0.25

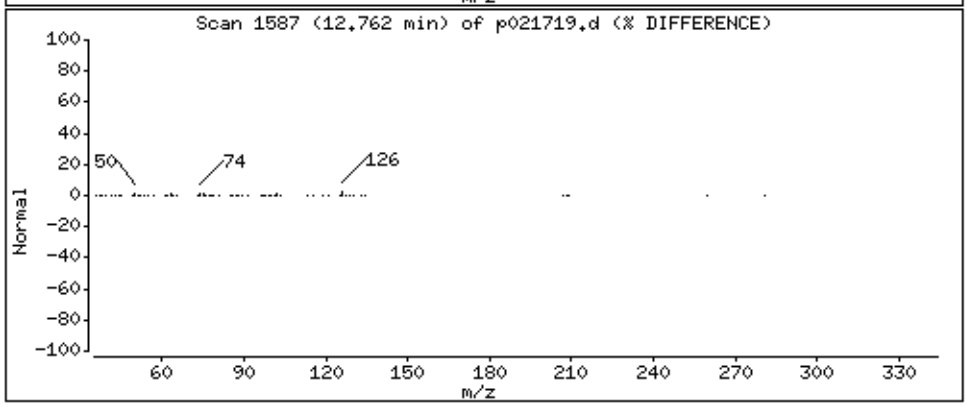
228 Naphthalene

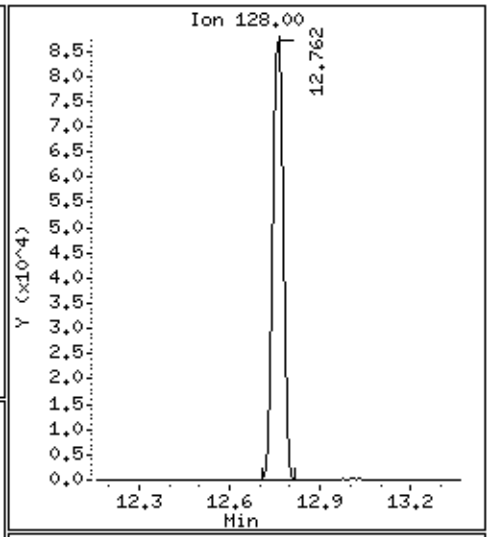
Concentration: 4.328 PPBV

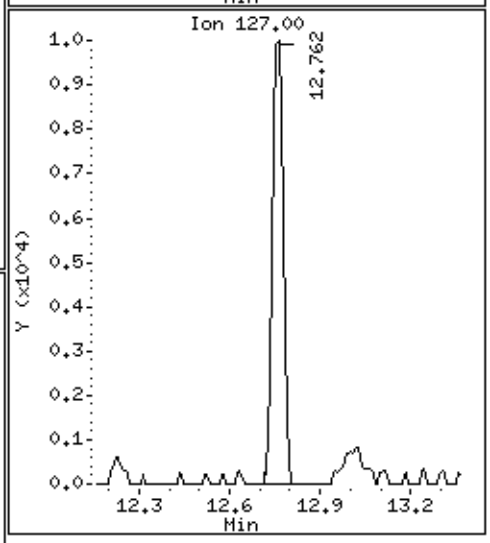












Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021710.d
Lab Smp Id: ICAL Level #2 Client Smp ID: ICAL Level #2
Inj Date : 17-FEB-2015 15:53
Operator : js Inst ID: msdp.i
Smp Info : 20ml #2716-58
Misc Info : 0.5ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 15:53 Cal File: p021710.d
Als bottle: 7 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
11 Freon 12					CAS #: 75-71-8		
1.501	1.501 (0.276)	85	10386	0.50000	0.6150	80.00- 120.00	100.00
1.501	1.501 (0.276)	87	2891			2.26- 62.26	27.84
15 Freon 114					CAS #: 76-14-2		
1.623	1.623 (0.298)	135	7981	0.50000	0.6561	80.00- 120.00	100.00
1.623	1.623 (0.298)	137	1916			1.88- 61.88	24.01
25 Vinyl Chloride					CAS #: 75-01-4		
1.817	1.817 (0.334)	62	4525	0.50000	0.6180	80.00- 120.00	100.00
1.824	1.824 (0.335)	64	2173			0.00- 59.41	48.02
26 1,3-Butadiene					CAS #: 106-99-0		
1.845	1.845 (0.339)	54	4022	0.50000	0.5952	80.00- 120.00	100.00
1.845	1.845 (0.339)	39	4432			59.70- 119.70	110.19
29 Bromomethane					CAS #: 74-83-9		
2.196	2.196 (0.404)	94	5091	0.50000	1.062	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
29 Bromomethane (continued)							
2.189	2.189 (0.402)	96	3179			63.82- 123.82	62.44
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	10673	0.50000	0.6453	80.00- 120.00	100.00
2.569	2.569 (0.472)	103	6160			33.91- 93.91	57.72
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.592)	151	6017	0.50000	0.6012	80.00- 120.00	100.00
3.213	3.213 (0.591)	153	4429			33.05- 93.05	73.61
3.221	3.221 (0.592)	101	8228			95.24- 155.24	136.75
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.596)	98	2198	0.50000	0.6002	80.00- 120.00	100.00
3.235	3.235 (0.595)	96	4590			130.75- 190.75	208.83
3.242	3.242 (0.596)	61	6581			284.15- 344.15	299.41
58 3-Chloropropene					CAS #: 107-05-1		
3.715	3.715 (0.683)	76	1558	0.50000	0.5688	80.00- 120.00	100.00(a)
3.722	3.722 (0.684)	41	7374			356.64- 416.64	473.30
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.717)	49	5972	0.50000	0.6210	80.00- 120.00	100.00(a)
3.901	3.901 (0.717)	84	3709			22.55- 82.55	62.11
3.894	3.894 (0.716)	51	1686			0.62- 60.62	28.23
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.759)	73	11137	0.50000	0.6509	80.00- 120.00	100.00
4.130	4.130 (0.759)	57	3188			0.85- 60.85	28.63
4.137	4.137 (0.760)	41	3054			0.00- 58.46	27.42
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.159	4.159 (0.764)	98	2160	0.50000	0.5730	80.00- 120.00	100.00
4.152	4.152 (0.763)	61	6361			252.16- 312.16	294.49
4.152	4.152 (0.763)	96	4035			127.62- 187.62	186.81
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.803)	57	9940	0.50000	0.7267	80.00- 120.00	100.00
4.374	4.374 (0.804)	43	5644			34.48- 94.48	56.78
4.374	4.374 (0.804)	86	595			0.00- 41.87	5.99
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.639	4.639 (0.853)	63	7885	0.50000	0.5996	80.00- 120.00	100.00
4.639	4.639 (0.853)	65	2059			0.00- 58.87	26.11
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.959)	98	2355	0.50000	0.5624	80.00- 120.00	100.00

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

   91 cis-1,2-Dichloroethene (continued)
  5.212   5.212 (0.958)    96      3418                   130.68- 190.68   145.14
  5.219   5.219 (0.959)    61      6675                   218.42- 278.42   283.44
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.448   5.448 (1.001)    42      6642 0.50000   0.6585  80.00- 120.00   100.00
  5.455   5.455 (1.003)    71      2009                     0.00-  59.69    30.25
  5.448   5.448 (1.001)    72      1286                     0.00-  59.70    19.36
-------------------------------------------------------------------------------
*  98 Bromochloromethane                            CAS #: 74-97-5
  5.441   5.441 (1.000)   130    117958 25.0000           80.00- 120.00   100.00
  5.441   5.441 (1.000)   128     91576                   48.50- 108.50    77.63
  5.441   5.441 (1.000)    49    220481                  157.33- 217.33   186.91
-------------------------------------------------------------------------------
  100 Chloroform                                    CAS #: 67-66-3
  5.506   5.506 (1.012)    83      8775 0.50000   0.6447  80.00- 120.00   100.00
  5.506   5.506 (1.012)    85      5913                   34.76-  94.76    67.38
-------------------------------------------------------------------------------
  102 Cyclohexane                                   CAS #: 110-82-7
  5.613   5.613 (1.032)    84      4827 0.50000   0.5570  80.00- 120.00   100.00
  5.613   5.613 (1.032)    56     11232                  133.05- 193.05   232.69
  5.613   5.613 (1.032)    41      5598                   49.59- 109.59   115.97
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                         CAS #: 71-55-6
  5.627   5.627 (1.034)    97      7914 0.50000   0.5553  80.00- 120.00   100.00
  5.627   5.627 (1.034)    99      5277                   34.17-  94.17    66.68
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                          CAS #: 56-23-5
  5.749   5.749 (1.057)   119      8240 0.50000   0.5592  80.00- 120.00   100.00
  5.749   5.749 (1.057)   117      7842                   75.20- 135.20    95.17
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                        CAS #: 540-84-1
  5.943   5.943 (1.092)    57     28278 0.50000   0.6358  80.00- 120.00   100.00
  5.943   5.943 (1.092)    56      9355                    3.38-  63.38    33.08
  5.943   5.943 (1.092)    41      8105                    0.00-  53.72    28.66
-------------------------------------------------------------------------------
  116 Benzene                                       CAS #: 71-43-2
  5.957   5.957 (0.942)    78     13912 0.50000   0.6748  80.00- 120.00   100.00
  5.957   5.957 (0.942)    77      2903                    0.00-  52.99    20.87
-------------------------------------------------------------------------------
$ 117 1,2-Dichloroethane-d4                         CAS #: 17060-07-0
  5.971   5.971 (1.097)    65    176008 25.0000   23.950  80.00- 120.00   100.00
  5.971   5.971 (1.097)    67     90116                   27.69-  87.69    51.20
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                            CAS #: 107-06-2
  6.036   6.036 (0.955)    62      5905 0.50000   0.5693  80.00- 120.00   100.00
```

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

  120 1,2-Dichloroethane (continued)
  6.036   6.036 (0.955)    64      1699                     0.03-  60.03    28.77
-------------------------------------------------------------------------------
  121 Heptane                                      CAS #: 142-82-5
  6.107   6.107 (0.966)    71      6803 0.50000   0.8343  80.00- 120.00   100.00
  6.107   6.107 (0.966)    43     12452                  198.64- 258.64   183.04
  6.107   6.107 (0.966)    57      7423                   94.82- 154.82   109.11
-------------------------------------------------------------------------------
* 123 1,4-Difluorobenzene                          CAS #: 540-36-3
  6.322   6.322 (1.000)   114    537184 25.0000           80.00- 120.00   100.00
  6.322   6.322 (1.000)    88     85427                    0.00-  45.39    15.90
-------------------------------------------------------------------------------
  125 Trichloroethene                              CAS #: 79-01-6
  6.516   6.516 (1.031)    95      6297 0.50000   0.6441  80.00- 120.00   100.00
  6.516   6.516 (1.031)   130      5795                   72.98- 132.98    92.03
  6.516   6.516 (1.031)    97      4072                   33.56-  93.56    64.67
-------------------------------------------------------------------------------
  127 Methylcyclohexane                            CAS #: 108-87-2
  6.616   6.616 (1.046)    83      7802 0.50000   0.6025  80.00- 120.00   100.00(a)
  6.623   6.623 (1.048)    98      4362                   16.64-  76.64    55.91
  6.616   6.616 (1.046)    55     10555                   81.85- 141.85   135.29
-------------------------------------------------------------------------------
  132 1,2-Dichloropropane                          CAS #: 78-87-5
  6.745   6.745 (1.067)    63      5412 0.50000   0.5720  80.00- 120.00   100.00
  6.745   6.745 (1.067)    62      3629                   41.08- 101.08    67.05
  6.745   6.745 (1.067)    41      6045                   22.96-  82.96   111.70
-------------------------------------------------------------------------------
  138 Bromodichloromethane                         CAS #: 75-27-4
  6.967   6.967 (1.102)    83      9734 0.50000   0.6066  80.00- 120.00   100.00
  6.967   6.967 (1.102)    85      5672                   34.26-  94.26    58.27
-------------------------------------------------------------------------------
  144 cis-1,3-Dichloropropene                      CAS #: 10061-01-5
  7.339   7.339 (1.161)    75      7227 0.50000   0.5330  80.00- 120.00   100.00
  7.339   7.339 (1.161)    77      3456                    2.22-  62.22    47.82
  7.346   7.346 (1.162)    39      5756                   27.77-  87.77    79.65
-------------------------------------------------------------------------------
  145 4-Methyl-2-pentanone                         CAS #: 108-10-1
  7.447   7.447 (1.178)    58      5784 0.50000   0.6341  80.00- 120.00   100.00
  7.454   7.454 (1.179)    43     14693                  224.74- 284.74   254.03
  7.454   7.454 (1.179)    85      1609                    3.81-  63.81    27.82
-------------------------------------------------------------------------------
$ 146 Toluene-d8                                   CAS #: 2037-26-5
  7.526   7.526 (1.190)    98    586916 25.0000   24.546  80.00- 120.00   100.00
  7.518   7.518 (1.189)    70     63622                    0.00-  41.30    10.84
  7.526   7.526 (1.190)   100    382005                   36.42-  96.42    65.09
-------------------------------------------------------------------------------
```

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

  147 Toluene                                        CAS #: 108-88-3
  7.576   7.576 (1.198)    91     18184 0.50000   0.6360  80.00- 120.00   100.00
  7.576   7.576 (1.198)    92     10338                   28.71-  88.71    56.85
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                      CAS #: 10061-02-6
  7.812   7.812 (0.893)    75      7383 0.50000   0.5948  80.00- 120.00   100.00
  7.812   7.812 (0.893)    77      2805                    1.83-  61.83    37.99
  7.812   7.812 (0.893)    39      4261                   23.84-  83.84    57.71
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                          CAS #: 79-00-5
  7.970   7.970 (0.912)    97      6406 0.50000   0.6498  80.00- 120.00   100.00
  7.970   7.970 (0.912)    99      3976                   31.26-  91.26    62.07
  7.970   7.970 (0.912)    83      5086                   55.61- 115.61    79.39
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.013   8.013 (0.916)   166      8995 0.50000   0.6784  80.00- 120.00   100.00
  8.013   8.013 (0.916)   129      5351                   46.18- 106.18    59.49
  8.013   8.013 (0.916)   131      5254                   43.79- 103.79    58.41
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  8.134   8.134 (0.930)    58      7022 0.50000   0.5873  80.00- 120.00   100.00(a)
  8.134   8.134 (0.930)    43     12057                  148.17- 208.17   171.70
  8.134   8.134 (0.930)   100       494                    0.00-  45.64     7.04
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  8.278   8.278 (0.947)   129     10322 0.50000   0.5894  80.00- 120.00   100.00
  8.278   8.278 (0.947)   127      7597                   47.19- 107.19    73.60
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  8.392   8.392 (0.960)   107      9175 0.50000   0.6122  80.00- 120.00   100.00
  8.392   8.392 (0.960)   109      8992                   63.97- 123.97    98.01
-------------------------------------------------------------------------------
* 163 Chlorobenzene-d5                               CAS #: 3114-55-4
  8.743   8.743 (1.000)   117    536424 25.0000           80.00- 120.00   100.00
  8.743   8.743 (1.000)    82    294567                   24.18-  84.18    54.91
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  8.772   8.772 (1.003)   112     13423 0.50000   0.5831  80.00- 120.00   100.00
  8.765   8.765 (1.002)   114      5147                    2.01-  62.01    38.34
  8.765   8.765 (1.002)    77     13418                   28.41-  88.41    99.96
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  8.822   8.822 (1.009)   106      7243 0.50000   0.5911  80.00- 120.00   100.00
  8.822   8.822 (1.009)    91     22451                  279.43- 339.43   309.97
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
  8.915   8.915 (1.020)   106      9370 0.50000   0.6222  80.00- 120.00   100.00
```

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

  169 m,p-Xylene (continued)
  8.915   8.915 (1.020)    91     19660                   168.86- 228.86   209.82
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.259   9.259 (1.059)   106      8210 0.50000   0.5844  80.00- 120.00   100.00
  9.259   9.259 (1.059)    91     19677                   184.06- 244.06   239.67
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.281   9.281 (1.061)   104     14440 0.50000   0.6138  80.00- 120.00   100.00
  9.281   9.281 (1.061)    78      7183                    19.31-  79.31    49.74
-------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.481   9.481 (1.084)   173      9733 0.50000   0.5727  80.00- 120.00   100.00
  9.481   9.481 (1.084)   171      4986                    21.41-  81.41    51.23
-------------------------------------------------------------------------------
  175 Cumene                                       CAS #: 98-82-8
  9.553   9.553 (1.093)   105     27837 0.50000   0.6166  80.00- 120.00   100.00
  9.560   9.560 (1.093)   120      7647                     0.00-  56.55    27.47
  9.553   9.553 (1.093)    51      3083                     0.00-  41.64    11.08
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                         CAS #: 460-00-4
  9.746   9.746 (1.115)   174    338179 25.0000   25.360  80.00- 120.00   100.00
  9.739   9.739 (1.114)    95    444956                   101.88- 161.88   131.57
  9.746   9.746 (1.115)   176    318133                    68.14- 128.14    94.07
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                    CAS #: 79-34-5
  9.868   9.868 (1.129)    83     13625 0.50000   0.6108  80.00- 120.00   100.00
  9.868   9.868 (1.129)    85      8265                    34.71-  94.71    60.66
-------------------------------------------------------------------------------
  182 Propylbenzene                                CAS #: 103-65-1
  9.911   9.911 (1.134)    91     33897 0.50000   0.6253  80.00- 120.00   100.00
  9.904   9.904 (1.133)   120      8103                     0.00-  53.35    23.90
  9.911   9.911 (1.134)   105      1348                     0.00-  33.65     3.98
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                               CAS #: 622-96-8
 10.004  10.004 (1.144)   120      8170 0.50000   0.5918  80.00- 120.00   100.00
 10.004  10.004 (1.144)   105     30573                   299.74- 359.74   374.21
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                       CAS #: 108-67-8
 10.054  10.054 (1.150)   120     11247 0.50000   0.5970  80.00- 120.00   100.00
 10.054  10.054 (1.150)   105     22999                   181.68- 241.68   204.49
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                       CAS #: 95-63-6
 10.391  10.391 (1.188)   120     10344 0.50000   0.5975  80.00- 120.00   100.00
 10.391  10.391 (1.188)   105     22506                   188.33- 248.33   217.58
-------------------------------------------------------------------------------
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.677	10.677 (1.221)	146	14551	0.50000	0.5755	80.00- 120.00	100.00
10.677	10.677 (1.221)	148	9532			33.11- 93.11	65.51
10.677	10.677 (1.221)	111	6729			10.85- 70.85	46.24
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.763	10.763 (1.231)	146	15342	0.50000	0.5969	80.00- 120.00	100.00
10.763	10.763 (1.231)	148	9502			33.69- 93.69	61.93
10.756	10.756 (1.230)	111	6039			9.80- 69.80	39.36
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.878	10.878 (1.244)	91	19788	0.50000	0.5595	80.00- 120.00	100.00
10.878	10.878 (1.244)	126	4836			0.00- 51.03	24.44
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.093	11.093 (1.269)	146	15574	0.50000	0.6286	80.00- 120.00	100.00
11.093	11.093 (1.269)	148	9129			33.72- 93.72	58.62
11.093	11.093 (1.269)	111	7168			12.82- 72.82	46.03

QC Flag Legend

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

Report Date: 23-Feb-2015 08:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021710.d
Lab Smp Id: ICAL Level #2
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 0.5ppbv(5.0ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	117958	-8.21
123 1,4-Difluorobenze	592591	355555	829627	537184	-9.35
163 Chlorobenzene-d5	606914	364148	849680	536424	-11.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.32	5.99	6.65	6.32	0.00
163 Chlorobenzene-d5	8.74	8.41	9.07	8.74	0.00

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

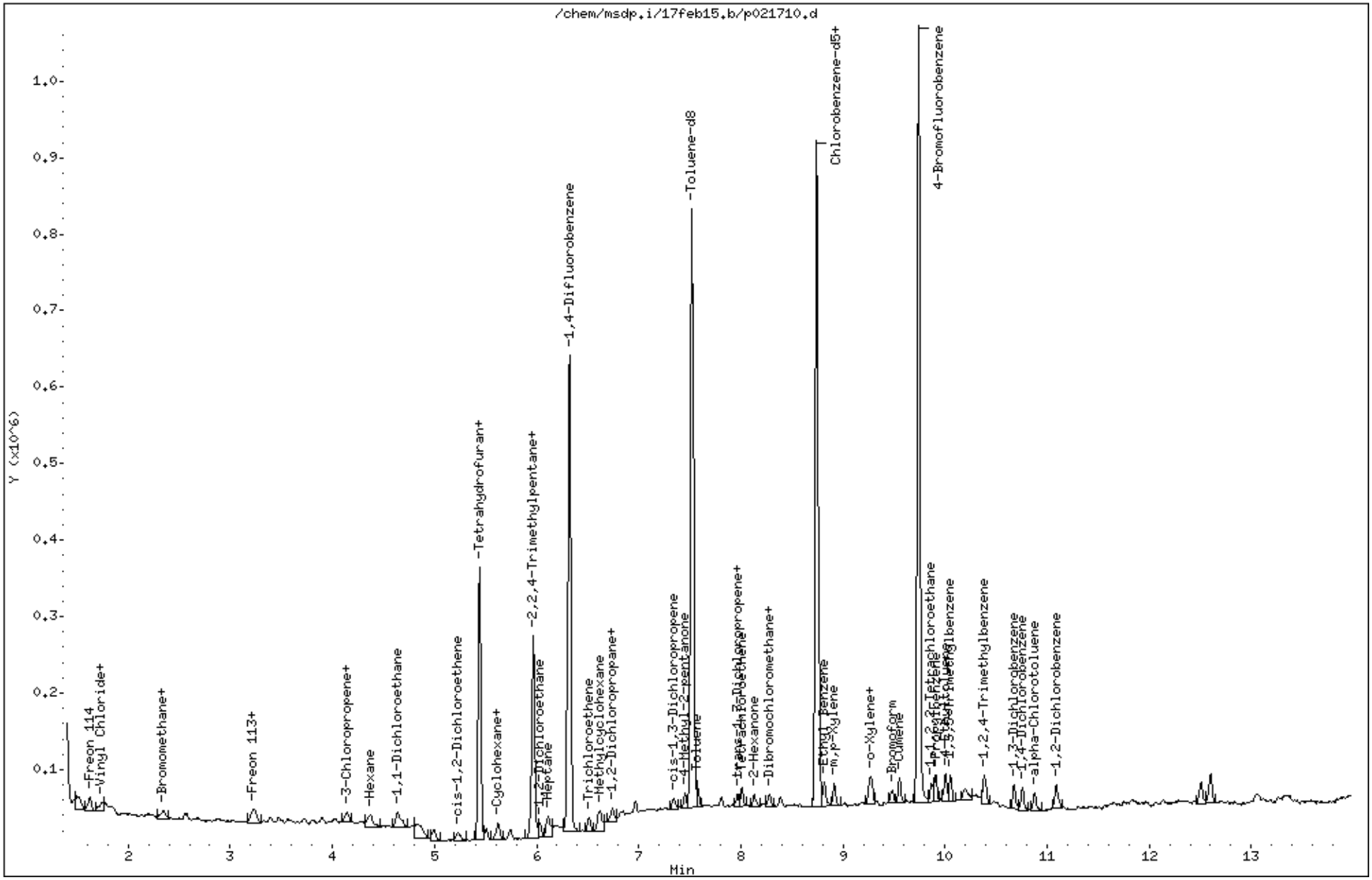
Data File: /chem/msdp.i/17feb15.b/p021710.d
Date : 17-FEB-2015 15:53
Client ID: ICAL Level #2
Sample Info: 20ml #2716-58

Instrument: msdp.i

Operator: js

Column phase: RTX-624

Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021711.d
Lab Smp Id: ICAL Level #3 Client Smp ID: ICAL Level #3
Inj Date : 17-FEB-2015 16:17
Operator : js Inst ID: msdp.i
Smp Info : 80ml #2716-58
Misc Info : 2.0ppbv(5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 16:17 Cal File: p021711.d
Als bottle: 8 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	
5.434	5.434 (1.000)	130	129677	25.0000		80.00- 120.00	100.00
5.434	5.434 (1.000)	128	98059			48.50- 108.50	75.62
5.434	5.434 (1.000)	49	240015			157.33- 217.33	185.09
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.315	6.315 (1.000)	114	593797	25.0000		80.00- 120.00	100.00
6.315	6.315 (1.000)	88	92767			0.00- 45.39	15.62
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.743	8.743 (1.000)	117	603913	25.0000		80.00- 120.00	100.00
8.743	8.743 (1.000)	82	349014			24.18- 84.18	57.79
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.964	5.964 (1.098)	65	198908	25.0000	24.620	80.00- 120.00	100.00
5.964	5.964 (1.098)	67	104262			27.69- 87.69	52.42

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		
7.518	7.518 (1.191)	98	658690	25.0000	24.921	80.00- 120.00	100.00
7.518	7.518 (1.191)	70	69963			0.00- 41.30	10.62
7.518	7.518 (1.191)	100	428751			36.42- 96.42	65.09
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.725	9.725 (1.112)	174	375301	25.0000	24.999	80.00- 120.00	100.00
9.725	9.725 (1.112)	95	488390			101.88- 161.88	130.13
9.725	9.725 (1.112)	176	357440			68.14- 128.14	95.24
9 Propylene					CAS #: 115-07-1		
1.480	1.480 (0.272)	41	13374	2.00000	1.981	80.00- 120.00	100.00(a)
1.473	1.473 (0.271)	42	9527			36.99- 96.99	71.24
1.473	1.473 (0.271)	39	11637			38.39- 98.39	87.01
11 Freon 12					CAS #: 75-71-8		
1.508	1.508 (0.278)	85	34189	2.00000	1.841	80.00- 120.00	100.00(a)
1.508	1.508 (0.278)	87	10799			2.26- 62.26	31.59
15 Freon 114					CAS #: 76-14-2		
1.623	1.623 (0.299)	135	22530	2.00000	1.685	80.00- 120.00	100.00(a)
1.623	1.623 (0.299)	137	6572			1.88- 61.88	29.17
17 Chloromethane					CAS #: 74-87-3		
1.709	1.709 (0.315)	50	15513	2.00000	2.066	80.00- 120.00	100.00
1.709	1.709 (0.315)	52	6280			2.05- 62.05	40.48
23 Butane					CAS #: 106-97-8		
1.788	1.788 (0.329)	58	2847	2.00000	1.664	80.00- 120.00	100.00(a)
1.788	1.788 (0.329)	43	27033			755.09- 815.09	949.53
25 Vinyl Chloride					CAS #: 75-01-4		
1.824	1.824 (0.336)	62	13332	2.00000	1.656	80.00- 120.00	100.00(a)
1.816	1.816 (0.334)	64	6066			0.00- 59.41	45.50
26 1,3-Butadiene					CAS #: 106-99-0		
1.852	1.852 (0.341)	54	13403	2.00000	1.804	80.00- 120.00	100.00(a)
1.852	1.852 (0.341)	39	13363			59.70- 119.70	99.70
29 Bromomethane					CAS #: 74-83-9		
2.203	2.203 (0.405)	94	10482	2.00000	1.988	80.00- 120.00	100.00(a)
2.203	2.203 (0.405)	96	10424			63.82- 123.82	99.45
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.427)	64	7104	2.00000	1.960	80.00- 120.00	100.00(a)
2.318	2.318 (0.427)	66	2455			0.16- 60.16	34.56

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

   30 Chloroethane (continued)
  2.318   2.318 (0.427)    49      2578                     3.29-  63.29    36.29
-------------------------------------------------------------------------------
   31 Isopentane                                    CAS #: 78-78-4
  2.347   2.347 (0.432)    43     20717 2.00000    2.069  80.00- 120.00   100.00
  2.347   2.347 (0.432)    57     12241                    36.45-  96.45    59.09
-------------------------------------------------------------------------------
   35 Freon 11                                      CAS #: 75-69-4
  2.569   2.569 (0.473)   101     33189 2.00000    1.825  80.00- 120.00   100.00(a)
  2.576   2.576 (0.474)   103     20811                    33.91-  93.91    62.70
-------------------------------------------------------------------------------
   42 Ethanol                                       CAS #: 64-17-5
  2.898   2.898 (0.533)    45      7543 2.00000    2.135  80.00- 120.00   100.00
  2.905   2.905 (0.535)    43      1271                     0.00-  47.60    16.85
  2.898   2.898 (0.533)    46      3011                     8.33-  68.33    39.92
-------------------------------------------------------------------------------
   49 Freon 113                                     CAS #: 76-13-1
  3.220   3.220 (0.593)   151     19523 2.00000    1.774  80.00- 120.00   100.00(a)
  3.220   3.220 (0.593)   153     13810                    33.05-  93.05    70.74
  3.228   3.228 (0.594)   101     24815                    95.24- 155.24   127.11
-------------------------------------------------------------------------------
   50 1,1-Dichloroethene                            CAS #: 75-35-4
  3.249   3.249 (0.598)    98      7386 2.00000    1.834  80.00- 120.00   100.00(a)
  3.249   3.249 (0.598)    96     11663                   130.75- 190.75   157.91
  3.249   3.249 (0.598)    61     23807                   284.15- 344.15   322.33
-------------------------------------------------------------------------------
   52 Acetone                                       CAS #: 67-64-1
  3.400   3.400 (0.626)    58      7788 2.00000    1.942  80.00- 120.00   100.00(a)
  3.400   3.400 (0.626)    43     28528                   265.43- 325.43   366.31
-------------------------------------------------------------------------------
   56 Carbon Disulfide                              CAS #: 75-15-0
  3.485   3.485 (0.641)    76     33160 2.00000    1.923  80.00- 120.00   100.00(a)
-------------------------------------------------------------------------------
   57 2-Propanol                                    CAS #: 67-63-0
  3.571   3.571 (0.657)    45     31676 2.00000    2.134  80.00- 120.00   100.00
  3.579   3.579 (0.659)    43      6504                     0.00-  46.95    20.53
  3.586   3.586 (0.660)    59       465                     0.00-  33.74     1.47
-------------------------------------------------------------------------------
   58 3-Chloropropene                               CAS #: 107-05-1
  3.729   3.729 (0.686)    76      5101 2.00000    1.694  80.00- 120.00   100.00(a)
  3.729   3.729 (0.686)    41     23665                   356.64- 416.64   463.93
-------------------------------------------------------------------------------
   66 Methylene Chloride                            CAS #: 75-09-2
  3.908   3.908 (0.719)    49     19919 2.00000    1.884  80.00- 120.00   100.00(a)
  3.908   3.908 (0.719)    84     10758                    22.55-  82.55    54.01
  3.908   3.908 (0.719)    51      6223                     0.62-  60.62    31.24
-------------------------------------------------------------------------------
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```
                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.030   4.030 (0.742)    59     31417 2.00000    1.882  80.00- 120.00   100.00(a)
  4.030   4.030 (0.742)    41      8919                     0.00-  50.19    28.39
  4.030   4.030 (0.742)    57      3705                     0.00-  40.22    11.79
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.137   4.137 (0.761)    73     34795 2.00000    1.850  80.00- 120.00   100.00(a)
  4.137   4.137 (0.761)    57     10717                     0.85-  60.85    30.80
  4.137   4.137 (0.761)    41      8910                     0.00-  58.46    25.61
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.159   4.159 (0.765)    98      8186 2.00000    1.975  80.00- 120.00   100.00(a)
  4.159   4.159 (0.765)    61     21907                   252.16- 312.16   267.62
  4.152   4.152 (0.764)    96     11960                   127.62- 187.62   146.10
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.374   4.374 (0.805)    57     27991 2.00000    1.861  80.00- 120.00   100.00(a)
  4.374   4.374 (0.805)    43     17649                    34.48-  94.48    63.05
  4.374   4.374 (0.805)    86      2810                     0.00-  41.87    10.04
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.639   4.639 (0.854)    63     26708 2.00000    1.847  80.00- 120.00   100.00(a)
  4.639   4.639 (0.854)    65      7507                     0.00-  58.87    28.11
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.854)    45     55245 2.00000    1.852  80.00- 120.00   100.00(a)
  4.639   4.639 (0.854)    87     11253                     0.00-  49.60    20.37
  4.646   4.646 (0.855)    59      6166                     0.00-  41.10    11.16
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.863)    86      3782 2.00000    2.094  80.00- 120.00   100.00
  4.682   4.682 (0.862)    43     51638                  2032.08-2092.08  1365.36
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.990   4.990 (0.918)    59     51609 2.00000    1.909  80.00- 120.00   100.00(a)
  4.990   4.990 (0.918)    87     15592                     1.52-  61.52    30.21
  4.990   4.990 (0.918)    41      8613                     0.00-  47.53    16.69
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.212   5.212 (0.959)    98      8374 2.00000    1.819  80.00- 120.00   100.00(a)
  5.212   5.212 (0.959)    96     13100                   130.68- 190.68   156.44
  5.212   5.212 (0.959)    61     22302                   218.42- 278.42   266.32
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.240   5.240 (0.964)    72      7616 2.00000    2.175  80.00- 120.00   100.00
  5.240   5.240 (0.964)    43     35978                   505.18- 565.18   472.40
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   92 2-Butanone (continued)
  5.233   5.233 (0.963)    57      2037                    13.03-  73.03    26.75
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.441   5.441 (1.001)    42     20944 2.00000    1.889  80.00- 120.00   100.00(a)
  5.441   5.441 (1.001)    71      6774                     0.00-  59.69    32.34
  5.434   5.434 (1.000)    72      6004                     0.00-  59.70    28.67
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.498   5.498 (1.012)    83     26645 2.00000    1.781  80.00- 120.00   100.00(a)
  5.498   5.498 (1.012)    85     17863                    34.76-  94.76    67.04
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.613   5.613 (1.033)    84     17379 2.00000    1.824  80.00- 120.00   100.00(a)
  5.606   5.606 (1.032)    56     32138                   133.05- 193.05   184.92
  5.613   5.613 (1.033)    41     15436                    49.59- 109.59    88.82
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.627   5.627 (1.036)    97     28327 2.00000    1.808  80.00- 120.00   100.00(a)
  5.627   5.627 (1.036)    99     18028                    34.17-  94.17    63.64
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.742   5.742 (1.057)   119     29794 2.00000    1.839  80.00- 120.00   100.00(a)
  5.742   5.742 (1.057)   117     30703                    75.20- 135.20   103.05
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.942   5.942 (1.094)    57     89633 2.00000    1.833  80.00- 120.00   100.00(a)
  5.935   5.935 (1.092)    56     30187                     3.38-  63.38    33.68
  5.942   5.942 (1.094)    41     22499                     0.00-  53.72    25.10
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.950   5.950 (0.942)    78     40668 2.00000    1.784  80.00- 120.00   100.00(a)
  5.950   5.950 (0.942)    77     10344                     0.00-  52.99    25.44
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.021   6.021 (0.953)    87      9433 2.00000    1.814  80.00- 120.00   100.00(a)
  6.021   6.021 (0.953)    73     39751                   374.74- 434.74   421.40
  6.021   6.021 (0.953)    55     14995                   108.16- 168.16   158.96
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.036   6.036 (0.956)    62     20313 2.00000    1.772  80.00- 120.00   100.00(a)
  6.036   6.036 (0.956)    64      6370                     0.03-  60.03    31.36
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.107   6.107 (0.967)    71     15587 2.00000    1.729  80.00- 120.00   100.00(a)
  6.107   6.107 (0.967)    43     37581                   198.64- 258.64   241.10
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.107	6.107 (0.967)	57	20213			94.82- 154.82	129.68
125 Trichloroethene					CAS #: 79-01-6		
6.508	6.508 (1.031)	95	19807	2.00000	1.833	80.00- 120.00	100.00(a)
6.515	6.515 (1.032)	130	19152			72.98- 132.98	96.69
6.515	6.515 (1.032)	97	13051			33.56- 93.56	65.89
127 Methylcyclohexane					CAS #: 108-87-2		
6.616	6.616 (1.048)	83	27290	2.00000	1.906	80.00- 120.00	100.00(a)
6.616	6.616 (1.048)	98	11746			16.64- 76.64	43.04
6.616	6.616 (1.048)	55	30117			81.85- 141.85	110.36
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.737	6.737 (1.067)	63	19596	2.00000	1.874	80.00- 120.00	100.00(a)
6.745	6.745 (1.068)	62	13468			41.08- 101.08	68.73
6.745	6.745 (1.068)	41	10324			22.96- 82.96	52.68
136 1,4-Dioxane					CAS #: 123-91-1		
6.831	6.831 (1.082)	88	11695	2.00000	2.078	80.00- 120.00	100.00
6.831	6.831 (1.082)	58	9637			59.66- 119.66	82.40
6.831	6.831 (1.082)	57	3369			0.00- 57.34	28.81
138 Bromodichloromethane					CAS #: 75-27-4		
6.967	6.967 (1.103)	83	32842	2.00000	1.852	80.00- 120.00	100.00(a)
6.967	6.967 (1.103)	85	20706			34.26- 94.26	63.05
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.339	7.339 (1.162)	75	27084	2.00000	1.807	80.00- 120.00	100.00(a)
7.339	7.339 (1.162)	77	9544			2.22- 62.22	35.24
7.339	7.339 (1.162)	39	17400			27.77- 87.77	64.24
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.447	7.447 (1.179)	58	19868	2.00000	1.970	80.00- 120.00	100.00(a)
7.447	7.447 (1.179)	43	44498			224.74- 284.74	223.97
7.454	7.454 (1.180)	85	6099			3.81- 63.81	30.70
147 Toluene					CAS #: 108-88-3		
7.576	7.576 (1.200)	91	55960	2.00000	1.771	80.00- 120.00	100.00(a)
7.576	7.576 (1.200)	92	33236			28.71- 88.71	59.39
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.812	7.812 (0.893)	75	27079	2.00000	1.938	80.00- 120.00	100.00(a)
7.812	7.812 (0.893)	77	10035			1.83- 61.83	37.06
7.812	7.812 (0.893)	39	14114			23.84- 83.84	52.12

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

  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.962   7.962 (0.911)    97     19466 2.00000    1.754  80.00- 120.00   100.00(a)
  7.962   7.962 (0.911)    99     12304                   31.26-  91.26    63.21
  7.962   7.962 (0.911)    83     18421                   55.61- 115.61    94.63
-------------------------------------------------------------------------------
  156 Tetrachloroethene                            CAS #: 127-18-4
  8.013   8.013 (0.916)   166     25197 2.00000    1.688  80.00- 120.00   100.00(a)
  8.013   8.013 (0.916)   129     20762                   46.18- 106.18    82.40
  8.013   8.013 (0.916)   131     19728                   43.79- 103.79    78.30
-------------------------------------------------------------------------------
  158 2-Hexanone                                   CAS #: 591-78-6
  8.134   8.134 (0.930)    58     23753 2.00000    1.765  80.00- 120.00   100.00(a)
  8.134   8.134 (0.930)    43     46062                  148.17- 208.17   193.92
  8.134   8.134 (0.930)   100      4234                    0.00-  45.64    17.83
-------------------------------------------------------------------------------
  160 Dibromochloromethane                         CAS #: 124-48-1
  8.278   8.278 (0.947)   129     35059 2.00000    1.778  80.00- 120.00   100.00(a)
  8.278   8.278 (0.947)   127     26931                   47.19- 107.19    76.82
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                      CAS #: 106-93-4
  8.392   8.392 (0.960)   107     29298 2.00000    1.736  80.00- 120.00   100.00(a)
  8.392   8.392 (0.960)   109     30433                   63.97- 123.97   103.87
-------------------------------------------------------------------------------
  165 Chlorobenzene                                CAS #: 108-90-7
  8.765   8.765 (1.002)   112     48496 2.00000    1.871  80.00- 120.00   100.00(a)
  8.772   8.772 (1.003)   114     14345                    2.01-  62.01    29.58
  8.765   8.765 (1.002)    77     33330                   28.41-  88.41    68.73
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                CAS #: 100-41-4
  8.815   8.815 (1.008)   106     26450 2.00000    1.917  80.00- 120.00   100.00(a)
  8.815   8.815 (1.008)    91     79831                  279.43- 339.43   301.82
-------------------------------------------------------------------------------
  169 m,p-Xylene                                   CAS #: 108-38-3
  8.915   8.915 (1.020)   106     30686 2.00000    1.810  80.00- 120.00   100.00(a)
  8.915   8.915 (1.020)    91     64142                  168.86- 228.86   209.03
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.252   9.252 (1.058)   106     28353 2.00000    1.793  80.00- 120.00   100.00(a)
  9.252   9.252 (1.058)    91     65703                  184.06- 244.06   231.73
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.273   9.273 (1.061)   104     45970 2.00000    1.736  80.00- 120.00   100.00(a)
  9.273   9.273 (1.061)    78     22950                   19.31-  79.31    49.92
-------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.467   9.467 (1.083)   173     33749 2.00000    1.764  80.00- 120.00   100.00(a)
```

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

  174 Bromoform (continued)
  9.467   9.467 (1.083)   171     18749                    21.41-  81.41    55.55
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.545   9.545 (1.092)   105     93548 2.00000    1.840  80.00- 120.00   100.00(a)
  9.545   9.545 (1.092)   120     23677                     0.00-  56.55    25.31
  9.545   9.545 (1.092)    51     12356                     0.00-  41.64    13.21
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.846   9.846 (1.126)    83     46421 2.00000    1.849  80.00- 120.00   100.00(a)
  9.853   9.853 (1.127)    85     31854                    34.71-  94.71    68.62
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.889   9.889 (1.131)    91    109299 2.00000    1.791  80.00- 120.00   100.00(a)
  9.889   9.889 (1.131)   120     27173                     0.00-  53.35    24.86
  9.889   9.889 (1.131)   105      4022                     0.00-  33.65     3.68
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
  9.982   9.982 (1.142)   120     29034 2.00000    1.868  80.00- 120.00   100.00(a)
  9.982   9.982 (1.142)   105     91405                   299.74- 359.74   314.82
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.033  10.033 (1.147)   120     38763 2.00000    1.828  80.00- 120.00   100.00(a)
 10.033  10.033 (1.147)   105     82622                   181.68- 241.68   213.15
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.362  10.362 (1.185)   120     37395 2.00000    1.919  80.00- 120.00   100.00(a)
 10.362  10.362 (1.185)   105     79631                   188.33- 248.33   212.95
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.649  10.649 (1.218)   146     53340 2.00000    1.874  80.00- 120.00   100.00(a)
 10.649  10.649 (1.218)   148     34621                    33.11-  93.11    64.91
 10.649  10.649 (1.218)   111     20963                    10.85-  70.85    39.30
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.727  10.727 (1.227)   146     54396 2.00000    1.880  80.00- 120.00   100.00(a)
 10.727  10.727 (1.227)   148     36135                    33.69-  93.69    66.43
 10.727  10.727 (1.227)   111     19800                     9.80-  69.80    36.40
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.842  10.842 (1.240)    91     70986 2.00000    1.783  80.00- 120.00   100.00(a)
 10.849  10.849 (1.241)   126     15575                     0.00-  51.03    21.94
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.064  11.064 (1.265)   146     51072 2.00000    1.831  80.00- 120.00   100.00(a)
 11.064  11.064 (1.265)   148     33583                    33.72-  93.72    65.76
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.057	11.057 (1.265)	111	23331			12.82- 72.82	45.68
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.489	12.489 (1.428)	180	43775	2.00000	1.939	80.00- 120.00	100.00(a)
12.489	12.489 (1.428)	182	41794			65.12- 125.12	95.47
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.583	12.583 (1.439)	225	39200	2.00000	2.024	80.00- 120.00	100.00
12.583	12.583 (1.439)	223	24748			32.73- 92.73	63.13
228 Naphthalene					CAS #: 91-20-3		
12.754	12.754 (1.459)	128	7791	0.20000	0.1646	80.00- 120.00	100.00(a)
12.754	12.754 (1.459)	127	1845			0.00- 42.37	23.68

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: msdp.i
Lab File ID: p021711.d
Lab Smp Id: ICAL Level #3
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 2.0ppbv(5.0ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #3
Level: LOW
Sample Type: AIR

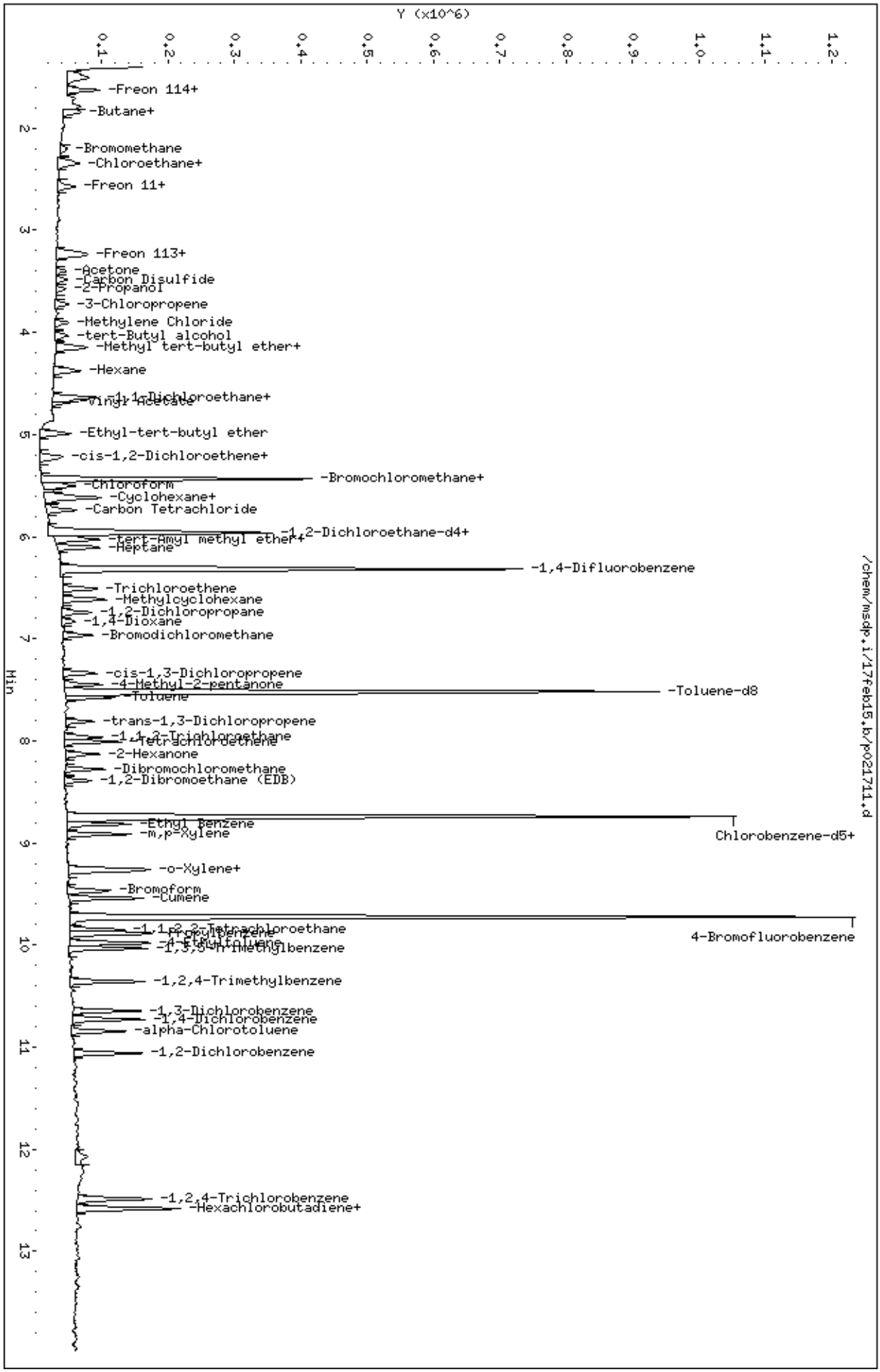
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	129677	0.91
123 1,4-Difluorobenze	592591	355555	829627	593797	0.20
163 Chlorobenzene-d5	606914	364148	849680	603913	-0.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.43	-0.13
123 1,4-Difluorobenze	6.32	5.99	6.65	6.31	-0.11
163 Chlorobenzene-d5	8.74	8.41	9.07	8.74	0.00

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

Data File: /chem/msdp.i/17feb15.b/p021711.d
Date : 17-FEB-2015 16:17
Client ID: ICAL Level #3
Sample Info: 80ml #2716-58
Column phase: RTX-624

Instrument: msdp.i
Operator: js
Column diameter: 0.25



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021712.d
Lab Smp Id: ICAL Level #4 Client Smp ID: ICAL Level #4
Inj Date : 17-FEB-2015 16:40
Operator : js Inst ID: msdp.i
Smp Info : 200ml #2716-58
Misc Info : 5.0ppbv (5.0ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 16:40 Cal File: p021712.d
Als bottle: 2 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	
5.456	5.456 (1.000)	130	127734	25.0000		80.00- 120.00	100.00
5.456	5.456 (1.000)	128	98155			48.50- 108.50	76.84
5.456	5.456 (1.000)	49	238382			157.33- 217.33	186.62
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.344 (1.000)	114	587564	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	93065			0.00- 45.39	15.84
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	609849	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	340160			24.18- 84.18	55.78
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	198841	25.0000	24.986	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	104777			27.69- 87.69	52.69

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		
7.554	7.554 (1.191)	98	665330	25.0000	25.439	80.00- 120.00	100.00
7.547	7.547 (1.190)	70	69163			0.00- 41.30	10.40
7.554	7.554 (1.191)	100	434081			36.42- 96.42	65.24
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.761	9.761 (1.112)	174	377767	25.0000	24.918	80.00- 120.00	100.00
9.761	9.761 (1.112)	95	487374			101.88- 161.88	129.01
9.761	9.761 (1.112)	176	362356			68.14- 128.14	95.92
9 Propylene					CAS #: 115-07-1		
1.480	1.480 (0.271)	41	30608	5.00000	4.602	80.00- 120.00	100.00
1.480	1.480 (0.271)	42	23447			36.99- 96.99	76.60
1.480	1.480 (0.271)	39	20972			38.39- 98.39	68.52
11 Freon 12					CAS #: 75-71-8		
1.516	1.516 (0.278)	85	83296	5.00000	4.554	80.00- 120.00	100.00
1.509	1.509 (0.277)	87	26077			2.26- 62.26	31.31
15 Freon 114					CAS #: 76-14-2		
1.631	1.631 (0.299)	135	58683	5.00000	4.455	80.00- 120.00	100.00
1.631	1.631 (0.299)	137	18021			1.88- 61.88	30.71
17 Chloromethane					CAS #: 74-87-3		
1.716	1.716 (0.315)	50	35813	5.00000	4.843	80.00- 120.00	100.00
1.716	1.716 (0.315)	52	12134			2.05- 62.05	33.88
23 Butane					CAS #: 106-97-8		
1.795	1.795 (0.329)	58	8015	5.00000	4.757	80.00- 120.00	100.00
1.788	1.788 (0.328)	43	69207			755.09- 815.09	863.47
25 Vinyl Chloride					CAS #: 75-01-4		
1.824	1.824 (0.334)	62	36834	5.00000	4.646	80.00- 120.00	100.00
1.824	1.824 (0.334)	64	11639			0.00- 59.41	31.60
26 1,3-Butadiene					CAS #: 106-99-0		
1.853	1.853 (0.340)	54	31930	5.00000	4.363	80.00- 120.00	100.00
1.853	1.853 (0.340)	39	30209			59.70- 119.70	94.61
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	23049	5.00000	4.439	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	22179			63.82- 123.82	96.23
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	18293	5.00000	5.123	80.00- 120.00	100.00
2.325	2.325 (0.426)	66	5135			0.16- 60.16	28.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.325	2.325 (0.426)	49	4926			3.29- 63.29	26.93
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	47135	5.00000	4.780	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	31795			36.45- 96.45	67.46
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	78733	5.00000	4.396	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	53234			33.91- 93.91	67.61
42 Ethanol					CAS #: 64-17-5		
2.906	2.906 (0.533)	45	17306	5.00000	4.973	80.00- 120.00	100.00
2.898	2.898 (0.531)	43	7429			0.00- 47.60	42.93
2.906	2.906 (0.533)	46	6267			8.33- 68.33	36.21
49 Freon 113					CAS #: 76-13-1		
3.228	3.228 (0.592)	151	49467	5.00000	4.564	80.00- 120.00	100.00
3.221	3.221 (0.590)	153	30998			33.05- 93.05	62.66
3.228	3.228 (0.592)	101	63062			95.24- 155.24	127.48
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	17893	5.00000	4.512	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	29499			130.75- 190.75	164.86
3.249	3.249 (0.596)	61	54807			284.15- 344.15	306.30
52 Acetone					CAS #: 67-64-1		
3.400	3.400 (0.623)	58	19196	5.00000	4.860	80.00- 120.00	100.00
3.400	3.400 (0.623)	43	62571			265.43- 325.43	325.96
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.639)	76	79625	5.00000	4.688	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.572	3.572 (0.655)	45	62495	5.00000	4.275	80.00- 120.00	100.00
3.572	3.572 (0.655)	43	11256			0.00- 46.95	18.01
3.572	3.572 (0.655)	59	2442			0.00- 33.74	3.91
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.684)	76	14955	5.00000	5.042	80.00- 120.00	100.00
3.729	3.729 (0.684)	41	52127			356.64- 416.64	348.56
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	46884	5.00000	4.502	80.00- 120.00	100.00
3.916	3.916 (0.718)	84	25867			22.55- 82.55	55.17
3.916	3.916 (0.718)	51	15473			0.62- 60.62	33.00

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

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.030   4.030 (0.739)    59     77134 5.00000    4.690  80.00- 120.00   100.00
  4.037   4.037 (0.740)    41     15339                    0.00-  50.19    19.89
  4.030   4.030 (0.739)    57      8342                    0.00-  40.22    10.81
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.138   4.138 (0.758)    73     83438 5.00000    4.504  80.00- 120.00   100.00
  4.130   4.130 (0.757)    57     25533                    0.85-  60.85    30.60
  4.138   4.138 (0.758)    41     23563                    0.00-  58.46    28.24
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.159   4.159 (0.762)    98     18041 5.00000    4.420  80.00- 120.00   100.00
  4.159   4.159 (0.762)    61     49968                  252.16- 312.16   276.97
  4.159   4.159 (0.762)    96     31068                  127.62- 187.62   172.21
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.374   4.374 (0.802)    57     62648 5.00000    4.230  80.00- 120.00   100.00
  4.374   4.374 (0.802)    43     39345                   34.48-  94.48    62.80
  4.381   4.381 (0.803)    86      7126                    0.00-  41.87    11.37
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.646   4.646 (0.852)    63     65227 5.00000    4.581  80.00- 120.00   100.00
  4.646   4.646 (0.852)    65     19019                    0.00-  58.87    29.16
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.646   4.646 (0.852)    45    140303 5.00000    4.776  80.00- 120.00   100.00
  4.646   4.646 (0.852)    87     26323                    0.00-  49.60    18.76
  4.646   4.646 (0.852)    59     15418                    0.00-  41.10    10.99
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.860)    86      7208 5.00000    4.051  80.00- 120.00   100.00
  4.689   4.689 (0.860)    43    133066                 2032.08-2092.08  1846.09
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.916)    59    123315 5.00000    4.631  80.00- 120.00   100.00
  5.004   5.004 (0.917)    87     40648                    1.52-  61.52    32.96
  4.997   4.997 (0.916)    41     22154                    0.00-  47.53    17.97
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.226   5.226 (0.958)    98     21419 5.00000    4.723  80.00- 120.00   100.00
  5.226   5.226 (0.958)    96     34486                  130.68- 190.68   161.01
  5.226   5.226 (0.958)    61     56357                  218.42- 278.42   263.12
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.255   5.255 (0.963)    72     15422 5.00000    4.471  80.00- 120.00   100.00
  5.248   5.248 (0.962)    43     84925                  505.18- 565.18   550.67
```

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

   92 2-Butanone (continued)
  5.248   5.248 (0.962)    57      6670                    13.03-  73.03    43.25
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.456   5.456 (1.000)    42     52244 5.00000    4.783  80.00- 120.00   100.00
  5.456   5.456 (1.000)    71     14437                    0.00-  59.69    27.63
  5.456   5.456 (1.000)    72     15159                    0.00-  59.70    29.02
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.520   5.520 (1.012)    83     68268 5.00000    4.632  80.00- 120.00   100.00
  5.520   5.520 (1.012)    85     45036                   34.76-  94.76    65.97
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.627   5.627 (1.032)    84     44499 5.00000    4.742  80.00- 120.00   100.00
  5.627   5.627 (1.032)    56     71514                  133.05- 193.05   160.71
  5.627   5.627 (1.032)    41     38335                   49.59- 109.59    86.15
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.642   5.642 (1.034)    97     75006 5.00000    4.860  80.00- 120.00   100.00
  5.642   5.642 (1.034)    99     45437                   34.17-  94.17    60.58
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.756   5.756 (1.055)   119     75041 5.00000    4.703  80.00- 120.00   100.00
  5.756   5.756 (1.055)   117     77541                   75.20- 135.20   103.33
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.957   5.957 (1.092)    57    217640 5.00000    4.518  80.00- 120.00   100.00
  5.957   5.957 (1.092)    56     75598                    3.38-  63.38    34.74
  5.957   5.957 (1.092)    41     53158                    0.00-  53.72    24.42
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.971   5.971 (0.941)    78    102828 5.00000    4.560  80.00- 120.00   100.00
  5.971   5.971 (0.941)    77     22308                    0.00-  52.99    21.69
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.043   6.043 (0.953)    87     25834 5.00000    5.019  80.00- 120.00   100.00
  6.043   6.043 (0.953)    73     99089                  374.74- 434.74   383.56
  6.043   6.043 (0.953)    55     33971                  108.16- 168.16   131.50
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.057   6.057 (0.955)    62     54312 5.00000    4.787  80.00- 120.00   100.00
  6.057   6.057 (0.955)    64     15352                    0.03-  60.03    28.27
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.129   6.129 (0.966)    71     38788 5.00000    4.349  80.00- 120.00   100.00
  6.129   6.129 (0.966)    43     96937                  198.64- 258.64   249.91
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.129	6.129 (0.966)	57	46006			94.82- 154.82	118.61
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	49332	5.00000	4.614	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	51179			72.98- 132.98	103.74
6.537	6.537 (1.030)	97	31890			33.56- 93.56	64.64
127 Methylcyclohexane					CAS #: 108-87-2		
6.645	6.645 (1.047)	83	61788	5.00000	4.362	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	30480			16.64- 76.64	49.33
6.645	6.645 (1.047)	55	70649			81.85- 141.85	114.34
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.766 (1.067)	63	45774	5.00000	4.423	80.00- 120.00	100.00
6.766	6.766 (1.067)	62	34499			41.08- 101.08	75.37
6.766	6.766 (1.067)	41	27417			22.96- 82.96	59.90
136 1,4-Dioxane					CAS #: 123-91-1		
6.860	6.860 (1.081)	88	24973	5.00000	4.485	80.00- 120.00	100.00
6.860	6.860 (1.081)	58	25417			59.66- 119.66	101.78
6.860	6.860 (1.081)	57	8164			0.00- 57.34	32.69
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	79678	5.00000	4.540	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	48777			34.26- 94.26	61.22
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	70450	5.00000	4.750	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	22466			2.22- 62.22	31.89
7.368	7.368 (1.161)	39	39654			27.77- 87.77	56.29
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.178)	58	43186	5.00000	4.328	80.00- 120.00	100.00
7.476	7.476 (1.178)	43	112022			224.74- 284.74	259.39
7.476	7.476 (1.178)	85	14425			3.81- 63.81	33.40
147 Toluene					CAS #: 108-88-3		
7.604	7.604 (1.199)	91	142360	5.00000	4.552	80.00- 120.00	100.00
7.604	7.604 (1.199)	92	85867			28.71- 88.71	60.32
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	62911	5.00000	4.458	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	24474			1.83- 61.83	38.90
7.841	7.841 (0.893)	39	36160			23.84- 83.84	57.48

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

  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.998   7.998 (0.911)    97     52676 5.00000    4.700  80.00- 120.00   100.00
  7.998   7.998 (0.911)    99     30167                   31.26-  91.26    57.27
  7.998   7.998 (0.911)    83     42692                   55.61- 115.61    81.05
-------------------------------------------------------------------------------
  156 Tetrachloroethene                            CAS #: 127-18-4
  8.041   8.041 (0.916)   166     70645 5.00000    4.686  80.00- 120.00   100.00
  8.041   8.041 (0.916)   129     51228                   46.18- 106.18    72.51
  8.041   8.041 (0.916)   131     49001                   43.79- 103.79    69.36
-------------------------------------------------------------------------------
  158 2-Hexanone                                   CAS #: 591-78-6
  8.163   8.163 (0.930)    58     61314 5.00000    4.511  80.00- 120.00   100.00
  8.163   8.163 (0.930)    43    113549                  148.17- 208.17   185.19
  8.163   8.163 (0.930)   100     10361                    0.00-  45.64    16.90
-------------------------------------------------------------------------------
  160 Dibromochloromethane                         CAS #: 124-48-1
  8.306   8.306 (0.946)   129     88616 5.00000    4.451  80.00- 120.00   100.00
  8.314   8.314 (0.947)   127     76139                   47.19- 107.19    85.92
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                      CAS #: 106-93-4
  8.421   8.421 (0.959)   107     78580 5.00000    4.612  80.00- 120.00   100.00
  8.421   8.421 (0.959)   109     72127                   63.97- 123.97    91.79
-------------------------------------------------------------------------------
  165 Chlorobenzene                                CAS #: 108-90-7
  8.801   8.801 (1.002)   112    121780 5.00000    4.653  80.00- 120.00   100.00
  8.801   8.801 (1.002)   114     37468                    2.01-  62.01    30.77
  8.801   8.801 (1.002)    77     74418                   28.41-  88.41    61.11
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                CAS #: 100-41-4
  8.851   8.851 (1.008)   106     62028 5.00000    4.452  80.00- 120.00   100.00
  8.851   8.851 (1.008)    91    194717                  279.43- 339.43   313.92
-------------------------------------------------------------------------------
  169 m,p-Xylene                                   CAS #: 108-38-3
  8.951   8.951 (1.020)   106     78034 5.00000    4.558  80.00- 120.00   100.00
  8.951   8.951 (1.020)    91    151359                  168.86- 228.86   193.97
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.288   9.288 (1.058)   106     73175 5.00000    4.582  80.00- 120.00   100.00
  9.288   9.288 (1.058)    91    156527                  184.06- 244.06   213.91
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.309   9.309 (1.060)   104    115899 5.00000    4.333  80.00- 120.00   100.00
  9.309   9.309 (1.060)    78     59841                   19.31-  79.31    51.63
-------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.503   9.503 (1.082)   173     85430 5.00000    4.422  80.00- 120.00   100.00
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  174 Bromoform (continued)
  9.510   9.510 (1.083)   171     44584                    21.41-  81.41    52.19
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.581   9.581 (1.091)   105    230654 5.00000    4.494  80.00- 120.00   100.00
  9.581   9.581 (1.091)   120     58636                     0.00-  56.55    25.42
  9.574   9.574 (1.091)    51     27528                     0.00-  41.64    11.93
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.882   9.882 (1.126)    83    114586 5.00000    4.519  80.00- 120.00   100.00
  9.882   9.882 (1.126)    85     76508                    34.71-  94.71    66.77
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.925   9.925 (1.131)    91    278903 5.00000    4.525  80.00- 120.00   100.00
  9.925   9.925 (1.131)   120     65168                     0.00-  53.35    23.37
  9.925   9.925 (1.131)   105      9829                     0.00-  33.65     3.52
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.018  10.018 (1.141)   120     69742 5.00000    4.443  80.00- 120.00   100.00
 10.018  10.018 (1.141)   105    249494                   299.74- 359.74   357.74
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.069  10.069 (1.147)   120     93700 5.00000    4.375  80.00- 120.00   100.00
 10.069  10.069 (1.147)   105    193994                   181.68- 241.68   207.04
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.398  10.398 (1.184)   120     89379 5.00000    4.541  80.00- 120.00   100.00
 10.398  10.398 (1.184)   105    203935                   188.33- 248.33   228.17
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.685  10.685 (1.217)   146    136884 5.00000    4.762  80.00- 120.00   100.00(H)
 10.685  10.685 (1.217)   148     83175                    33.11-  93.11    60.76
 10.685  10.685 (1.217)   111     54107                    10.85-  70.85    39.53
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.763  10.763 (1.226)   146    135145 5.00000    4.625  80.00- 120.00   100.00(H)
 10.763  10.763 (1.226)   148     83976                    33.69-  93.69    62.14
 10.763  10.763 (1.226)   111     54717                     9.80-  69.80    40.49
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.878  10.878 (1.239)    91    174667 5.00000    4.344  80.00- 120.00   100.00
 10.878  10.878 (1.239)   126     36658                     0.00-  51.03    20.99
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.093  11.093 (1.264)   146    129468 5.00000    4.597  80.00- 120.00   100.00
 11.093  11.093 (1.264)   148     83515                    33.72-  93.72    64.51
```

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

  214 1,2-Dichlorobenzene (continued)
 11.093  11.093 (1.264)   111     55864                   12.82-  72.82    43.15
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.497  12.497 (1.423)   180    114784 5.00000    5.034  80.00- 120.00   100.00
 12.497  12.497 (1.423)   182    107966                   65.12- 125.12    94.06
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.590  12.590 (1.434)   225     96521 5.00000    4.935  80.00- 120.00   100.00
 12.590  12.590 (1.434)   223     63803                   32.73-  92.73    66.10
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.762  12.762 (1.454)   128     20316 0.50000   0.4250  80.00- 120.00   100.00(a)
 12.762  12.762 (1.454)   127      3263                    0.00-  42.37    16.06
-------------------------------------------------------------------------------
```

QC Flag Legend

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

Report Date: 23-Feb-2015 08:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021712.d
Lab Smp Id: ICAL Level #4
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 5.0ppbv (5.0ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #4
Level: LOW
Sample Type: AIR

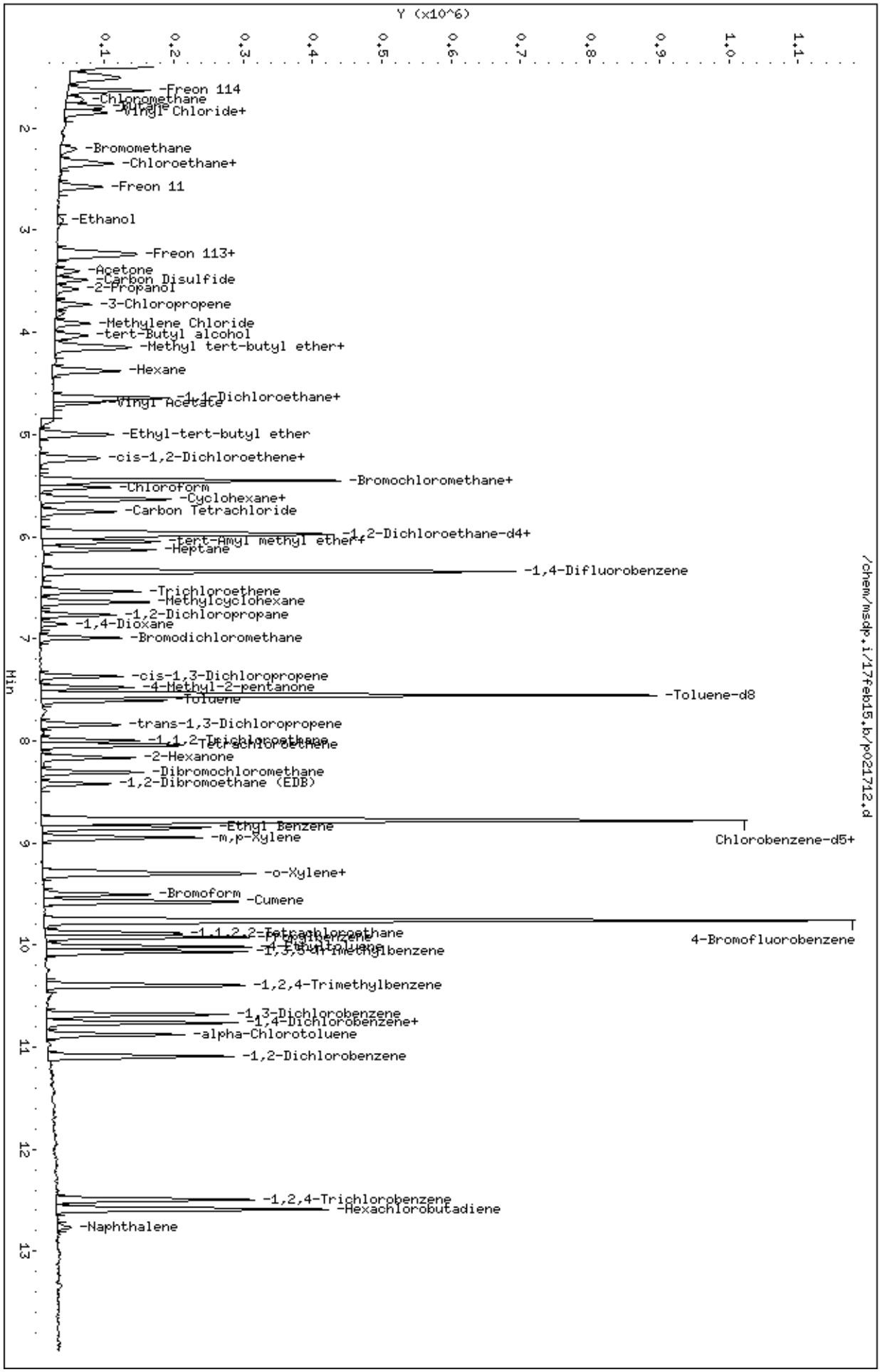
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	127734	-0.60
123 1,4-Difluorobenze	592591	355555	829627	587564	-0.85
163 Chlorobenzene-d5	606914	364148	849680	609849	0.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.46	0.27
123 1,4-Difluorobenze	6.32	5.99	6.65	6.34	0.34
163 Chlorobenzene-d5	8.74	8.41	9.07	8.78	0.41

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

Data File: /chem/msdp.i/17feb15.b/p021712.d
Date : 17-FEB-2015 16:40
Client ID: ICAL Level #4
Sample Info: 200ml #2716-58
Column phase: RTX-624

Instrument: msdp.i
Operator: js
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021713.d
Lab Smp Id: ICAL Level #5 Client Smp ID: ICAL Level #5
Inj Date : 17-FEB-2015 17:56
Operator : gd Inst ID: msdp.i
Smp Info : 20ml #2716-57
Misc Info : 20ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 17:56 Cal File: p021713.d
Als bottle: 3 Calibration Sample, Level: 5
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		
5.441	5.441 (1.000)	130	117449	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	87675			48.50- 108.50	74.65
5.441	5.441 (1.000)	49	215987			157.33- 217.33	183.90
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.322	6.322 (1.000)	114	530808	25.0000		80.00- 120.00	100.00
6.322	6.322 (1.000)	88	82998			0.00- 45.39	15.64
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.750	8.750 (1.000)	117	534821	25.0000		80.00- 120.00	100.00
8.750	8.750 (1.000)	82	298678			24.18- 84.18	55.85
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.971	5.971 (1.097)	65	178411	25.0000	24.382	80.00- 120.00	100.00
5.971	5.971 (1.097)	67	96857			27.69- 87.69	54.29

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	
7.526	7.526 (1.190)	98	583543	25.0000	24.698	80.00- 120.00	100.00
7.526	7.526 (1.190)	70	62102			0.00- 41.30	10.64
7.526	7.526 (1.190)	100	381156			36.42- 96.42	65.32
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.753	9.753 (1.115)	174	331667	25.0000	24.947	80.00- 120.00	100.00
9.753	9.753 (1.115)	95	435380			101.88- 161.88	131.27
9.753	9.753 (1.115)	176	321131			68.14- 128.14	96.82
9 Propylene						CAS #: 115-07-1	
1.473	1.473 (0.271)	41	158883	20.0000	25.981	80.00- 120.00	100.00
1.473	1.473 (0.271)	42	105262			36.99- 96.99	66.25
1.473	1.473 (0.271)	39	108271			38.39- 98.39	68.15
11 Freon 12						CAS #: 75-71-8	
1.501	1.501 (0.276)	85	420900	20.0000	25.029	80.00- 120.00	100.00
1.501	1.501 (0.276)	87	133650			2.26- 62.26	31.75
15 Freon 114						CAS #: 76-14-2	
1.623	1.623 (0.298)	135	304531	20.0000	25.142	80.00- 120.00	100.00
1.623	1.623 (0.298)	137	97511			1.88- 61.88	32.02
17 Chloromethane						CAS #: 74-87-3	
1.702	1.702 (0.313)	50	179298	20.0000	26.372	80.00- 120.00	100.00
1.702	1.702 (0.313)	52	58644			2.05- 62.05	32.71
23 Butane						CAS #: 106-97-8	
1.788	1.788 (0.329)	58	41195	20.0000	26.592	80.00- 120.00	100.00
1.788	1.788 (0.329)	43	319465			755.09- 815.09	775.49
25 Vinyl Chloride						CAS #: 75-01-4	
1.817	1.817 (0.334)	62	185309	20.0000	25.420	80.00- 120.00	100.00
1.817	1.817 (0.334)	64	54525			0.00- 59.41	29.42
26 1,3-Butadiene						CAS #: 106-99-0	
1.845	1.845 (0.339)	54	170671	20.0000	25.365	80.00- 120.00	100.00
1.845	1.845 (0.339)	39	148238			59.70- 119.70	86.86
29 Bromomethane						CAS #: 74-83-9	
2.196	2.196 (0.404)	94	131209	20.0000	27.480	80.00- 120.00	100.00
2.196	2.196 (0.404)	96	123455			63.82- 123.82	94.09
30 Chloroethane						CAS #: 75-00-3	
2.311	2.311 (0.425)	64	86179	20.0000	26.248	80.00- 120.00	100.00
2.311	2.311 (0.425)	66	25835			0.16- 60.16	29.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.311	2.311 (0.425)	49	27131			3.29- 63.29	31.48
31 Isopentane					CAS #: 78-78-4		
2.340	2.340 (0.430)	43	224327	20.0000	24.740	80.00- 120.00	100.00
2.340	2.340 (0.430)	57	158274			36.45- 96.45	70.56
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	407556	20.0000	24.748	80.00- 120.00	100.00
2.569	2.569 (0.472)	103	258509			33.91- 93.91	63.43
42 Ethanol					CAS #: 64-17-5		
2.884	2.884 (0.530)	45	77834	20.0000	24.325	80.00- 120.00	100.00
2.884	2.884 (0.530)	43	17316			0.00- 47.60	22.25
2.884	2.884 (0.530)	46	31374			8.33- 68.33	40.31
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.592)	151	247282	20.0000	24.815	80.00- 120.00	100.00
3.221	3.221 (0.592)	153	158059			33.05- 93.05	63.92
3.221	3.221 (0.592)	101	316950			95.24- 155.24	128.17
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.242	3.242 (0.596)	98	90366	20.0000	24.782	80.00- 120.00	100.00
3.242	3.242 (0.596)	96	145864			130.75- 190.75	161.41
3.242	3.242 (0.596)	61	277095			284.15- 344.15	306.64
52 Acetone					CAS #: 67-64-1		
3.385	3.385 (0.622)	58	92412	20.0000	25.447	80.00- 120.00	100.00
3.392	3.392 (0.623)	43	277640			265.43- 325.43	300.44
56 Carbon Disulfide					CAS #: 75-15-0		
3.478	3.478 (0.639)	76	395574	20.0000	25.331	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.564	3.564 (0.655)	45	332444	20.0000	24.734	80.00- 120.00	100.00
3.564	3.564 (0.655)	43	58791			0.00- 46.95	17.68
3.564	3.564 (0.655)	59	11715			0.00- 33.74	3.52
58 3-Chloropropene					CAS #: 107-05-1		
3.722	3.722 (0.684)	76	70131	20.0000	25.716	80.00- 120.00	100.00
3.722	3.722 (0.684)	41	248516			356.64- 416.64	354.36
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.717)	49	233723	20.0000	24.409	80.00- 120.00	100.00
3.901	3.901 (0.717)	84	122017			22.55- 82.55	52.21
3.901	3.901 (0.717)	51	72843			0.62- 60.62	31.17

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

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.023   4.023 (0.739)    59    376706 20.0000   24.913  80.00- 120.00   100.00
  4.023   4.023 (0.739)    41     77252                    0.00-  50.19    20.51
  4.023   4.023 (0.739)    57     37057                    0.00-  40.22     9.84
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.130   4.130 (0.759)    73    414705 20.0000   24.344  80.00- 120.00   100.00
  4.130   4.130 (0.759)    57    127473                    0.85-  60.85    30.74
  4.130   4.130 (0.759)    41    109944                    0.00-  58.46    26.51
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.152   4.152 (0.763)    98     91104 20.0000   24.274  80.00- 120.00   100.00
  4.152   4.152 (0.763)    61    250688                  252.16- 312.16   275.17
  4.152   4.152 (0.763)    96    147782                  127.62- 187.62   162.21
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.367   4.367 (0.803)    57    323752 20.0000   23.772  80.00- 120.00   100.00
  4.367   4.367 (0.803)    43    199492                   34.48-  94.48    61.62
  4.374   4.374 (0.804)    86     39140                    0.00-  41.87    12.09
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.639   4.639 (0.853)    63    324149 20.0000   24.757  80.00- 120.00   100.00
  4.639   4.639 (0.853)    65     90515                    0.00-  58.87    27.92
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.853)    45    688817 20.0000   25.503  80.00- 120.00   100.00
  4.639   4.639 (0.853)    87    135769                    0.00-  49.60    19.71
  4.639   4.639 (0.853)    59     75620                    0.00-  41.10    10.98
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.862)    86     40990 20.0000   25.056  80.00- 120.00   100.00
  4.682   4.682 (0.860)    43    572393                 2032.08-2092.08  1396.42
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.990   4.990 (0.917)    59    614734 20.0000   25.106  80.00- 120.00   100.00
  4.997   4.997 (0.918)    87    195146                    1.52-  61.52    31.74
  4.990   4.990 (0.917)    41    108028                    0.00-  47.53    17.57
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.219   5.219 (0.959)    98    102377 20.0000   24.554  80.00- 120.00   100.00
  5.219   5.219 (0.959)    96    161447                  130.68- 190.68   157.70
  5.219   5.219 (0.959)    61    247408                  218.42- 278.42   241.66
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.241   5.241 (0.963)    72     77993 20.0000   24.592  80.00- 120.00   100.00
  5.241   5.241 (0.963)    43    405543                  505.18- 565.18   519.97
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   92 2-Butanone (continued)
  5.241   5.241 (0.963)    57     34078                    13.03-  73.03    43.69
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.441   5.441 (1.000)    42    227221 20.0000   22.624  80.00- 120.00   100.00
  5.441   5.441 (1.000)    71     67622                     0.00-  59.69    29.76
  5.441   5.441 (1.000)    72     71404                     0.00-  59.70    31.42
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.506   5.506 (1.012)    83    318787 20.0000   23.522  80.00- 120.00   100.00
  5.506   5.506 (1.012)    85    209580                    34.76-  94.76    65.74
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.613   5.613 (1.032)    84    211890 20.0000   24.558  80.00- 120.00   100.00
  5.613   5.613 (1.032)    56    346435                   133.05- 193.05   163.50
  5.613   5.613 (1.032)    41    175122                    49.59- 109.59    82.65
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.627   5.627 (1.034)    97    350310 20.0000   24.685  80.00- 120.00   100.00
  5.627   5.627 (1.034)    99    223832                    34.17-  94.17    63.90
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.742   5.742 (1.055)   119    356357 20.0000   24.289  80.00- 120.00   100.00
  5.742   5.742 (1.055)   117    378548                    75.20- 135.20   106.23
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.943   5.943 (1.092)    57   1048117 20.0000   23.666  80.00- 120.00   100.00
  5.943   5.943 (1.092)    56    341078                     3.38-  63.38    32.54
  5.943   5.943 (1.092)    41    248261                     0.00-  53.72    23.69
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.957   5.957 (0.942)    78    476048 20.0000   23.367  80.00- 120.00   100.00
  5.957   5.957 (0.942)    77    112059                     0.00-  52.99    23.54
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.028   6.028 (0.954)    87    114471 20.0000   24.619  80.00- 120.00   100.00
  6.021   6.021 (0.952)    73    485069                   374.74- 434.74   423.75
  6.021   6.021 (0.952)    55    162710                   108.16- 168.16   142.14
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.036   6.036 (0.955)    62    251240 20.0000   24.512  80.00- 120.00   100.00
  6.036   6.036 (0.955)    64     75507                     0.03-  60.03    30.05
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.107   6.107 (0.966)    71    179461 20.0000   22.274  80.00- 120.00   100.00
  6.107   6.107 (0.966)    43    412508                   198.64- 258.64   229.86
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.107	6.107 (0.966)	57	221132			94.82- 154.82	123.22
125 Trichloroethene					CAS #: 79-01-6		
6.516	6.516 (1.031)	95	225980	20.0000	23.394	80.00- 120.00	100.00
6.516	6.516 (1.031)	130	230391			72.98- 132.98	101.95
6.516	6.516 (1.031)	97	142235			33.56- 93.56	62.94
127 Methylcyclohexane					CAS #: 108-87-2		
6.616	6.616 (1.046)	83	312695	20.0000	24.438	80.00- 120.00	100.00
6.616	6.616 (1.046)	98	149351			16.64- 76.64	47.76
6.616	6.616 (1.046)	55	346901			81.85- 141.85	110.94
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.745	6.745 (1.067)	63	228330	20.0000	24.420	80.00- 120.00	100.00
6.745	6.745 (1.067)	62	162600			41.08- 101.08	71.21
6.745	6.745 (1.067)	41	122513			22.96- 82.96	53.66
136 1,4-Dioxane					CAS #: 123-91-1		
6.831	6.831 (1.080)	88	120629	20.0000	23.982	80.00- 120.00	100.00
6.831	6.831 (1.080)	58	106353			59.66- 119.66	88.17
6.831	6.831 (1.080)	57	35758			0.00- 57.34	29.64
138 Bromodichloromethane					CAS #: 75-27-4		
6.967	6.967 (1.102)	83	374977	20.0000	23.649	80.00- 120.00	100.00
6.967	6.967 (1.102)	85	240836			34.26- 94.26	64.23
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.339	7.339 (1.161)	75	322942	20.0000	24.103	80.00- 120.00	100.00
7.339	7.339 (1.161)	77	104301			2.22- 62.22	32.30
7.339	7.339 (1.161)	39	188644			27.77- 87.77	58.41
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.447	7.447 (1.178)	58	203250	20.0000	22.549	80.00- 120.00	100.00
7.447	7.447 (1.178)	43	520489			224.74- 284.74	256.08
7.447	7.447 (1.178)	85	69224			3.81- 63.81	34.06
147 Toluene					CAS #: 108-88-3		
7.576	7.576 (1.198)	91	660344	20.0000	23.375	80.00- 120.00	100.00
7.576	7.576 (1.198)	92	385152			28.71- 88.71	58.33
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.812	7.812 (0.893)	75	287368	20.0000	23.219	80.00- 120.00	100.00
7.812	7.812 (0.893)	77	92399			1.83- 61.83	32.15
7.812	7.812 (0.893)	39	157125			23.84- 83.84	54.68

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

  155 1,1,2-Trichloroethane                          CAS #: 79-00-5
  7.970   7.970 (0.911)    97    229813 20.0000   23.381  80.00- 120.00   100.00
  7.970   7.970 (0.911)    99    141408                   31.26-  91.26    61.53
  7.962   7.962 (0.910)    83    195099                   55.61- 115.61    84.89
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.013   8.013 (0.916)   166    307307 20.0000   23.247  80.00- 120.00   100.00
  8.013   8.013 (0.916)   129    233393                   46.18- 106.18    75.95
  8.013   8.013 (0.916)   131    234374                   43.79- 103.79    76.27
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  8.134   8.134 (0.930)    58    281436 20.0000   23.611  80.00- 120.00   100.00
  8.134   8.134 (0.930)    43    505936                  148.17- 208.17   179.77
  8.134   8.134 (0.930)   100     45608                    0.00-  45.64    16.21
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  8.278   8.278 (0.946)   129    422262 20.0000   24.184  80.00- 120.00   100.00
  8.278   8.278 (0.946)   127    328390                   47.19- 107.19    77.77
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  8.392   8.392 (0.959)   107    358771 20.0000   24.011  80.00- 120.00   100.00
  8.392   8.392 (0.959)   109    330246                   63.97- 123.97    92.05
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  8.779   8.779 (1.003)   112    543108 20.0000   23.662  80.00- 120.00   100.00
  8.779   8.779 (1.003)   114    172063                    2.01-  62.01    31.68
  8.779   8.779 (1.003)    77    318994                   28.41-  88.41    58.73
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  8.829   8.829 (1.009)   106    295616 20.0000   24.197  80.00- 120.00   100.00
  8.829   8.829 (1.009)    91    898319                  279.43- 339.43   303.88
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
  8.930   8.930 (1.020)   106    351192 20.0000   23.388  80.00- 120.00   100.00
  8.930   8.930 (1.020)    91    721648                  168.86- 228.86   205.49
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
  9.273   9.273 (1.060)   106    343244 20.0000   24.505  80.00- 120.00   100.00
  9.273   9.273 (1.060)    91    724727                  184.06- 244.06   211.14
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
  9.295   9.295 (1.062)   104    572502 20.0000   24.407  80.00- 120.00   100.00
  9.295   9.295 (1.062)    78    275088                   19.31-  79.31    48.05
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
  9.495   9.495 (1.085)   173    415684 20.0000   24.534  80.00- 120.00   100.00
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  174 Bromoform (continued)
  9.495   9.495 (1.085)   171    210215                    21.41-  81.41    50.57
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.567   9.567 (1.093)   105   1063265 20.0000   23.621  80.00- 120.00   100.00
  9.567   9.567 (1.093)   120    291521                     0.00-  56.55    27.42
  9.567   9.567 (1.093)    51    129446                     0.00-  41.64    12.17
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.882   9.882 (1.129)    83    527950 20.0000   23.741  80.00- 120.00   100.00
  9.882   9.882 (1.129)    85    344636                    34.71-  94.71    65.28
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.918   9.918 (1.133)    91   1282058 20.0000   23.720  80.00- 120.00   100.00
  9.918   9.918 (1.133)   120    299064                     0.00-  53.35    23.33
  9.918   9.918 (1.133)   105     46835                     0.00-  33.65     3.65
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.011  10.011 (1.144)   120    335711 20.0000   24.389  80.00- 120.00   100.00
 10.011  10.011 (1.144)   105   1100497                   299.74- 359.74   327.81
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.068  10.068 (1.151)   120    447726 20.0000   23.838  80.00- 120.00   100.00
 10.068  10.068 (1.151)   105    949750                   181.68- 241.68   212.13
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.398  10.398 (1.188)   120    405856 20.0000   23.514  80.00- 120.00   100.00
 10.398  10.398 (1.188)   105    890218                   188.33- 248.33   219.34
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.684  10.684 (1.221)   146    581362 20.0000   23.061  80.00- 120.00   100.00
 10.684  10.684 (1.221)   148    365183                    33.11-  93.11    62.82
 10.684  10.684 (1.221)   111    241374                    10.85-  70.85    41.52
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.770  10.770 (1.231)   146    586246 20.0000   22.877  80.00- 120.00   100.00
 10.770  10.770 (1.231)   148    374431                    33.69-  93.69    63.87
 10.763  10.763 (1.230)   111    236745                     9.80-  69.80    40.38
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.885  10.885 (1.244)    91    823816 20.0000   23.362  80.00- 120.00   100.00
 10.885  10.885 (1.244)   126    169666                     0.00-  51.03    20.60
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.100  11.100 (1.268)   146    562001 20.0000   22.753  80.00- 120.00   100.00
 11.100  11.100 (1.268)   148    360247                    33.72-  93.72    64.10
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.100	11.100 (1.268)	111	246866			12.82- 72.82	43.93
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.511	12.511 (1.430)	180	399905	20.0000	20.000	80.00- 120.00	100.00
12.511	12.511 (1.430)	182	390367			65.12- 125.12	97.61
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.604	12.604 (1.440)	225	354053	20.0000	20.641	80.00- 120.00	100.00
12.604	12.604 (1.440)	223	226043			32.73- 92.73	63.84
228 Naphthalene					CAS #: 91-20-3		
12.776	12.776 (1.460)	128	87106	2.00000	2.078	80.00- 120.00	100.00
12.776	12.776 (1.460)	127	12313			0.00- 42.37	14.14

Report Date: 23-Feb-2015 08:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021713.d
Lab Smp Id: ICAL Level #5
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 20ppbv (200ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #5
Level: LOW
Sample Type: AIR

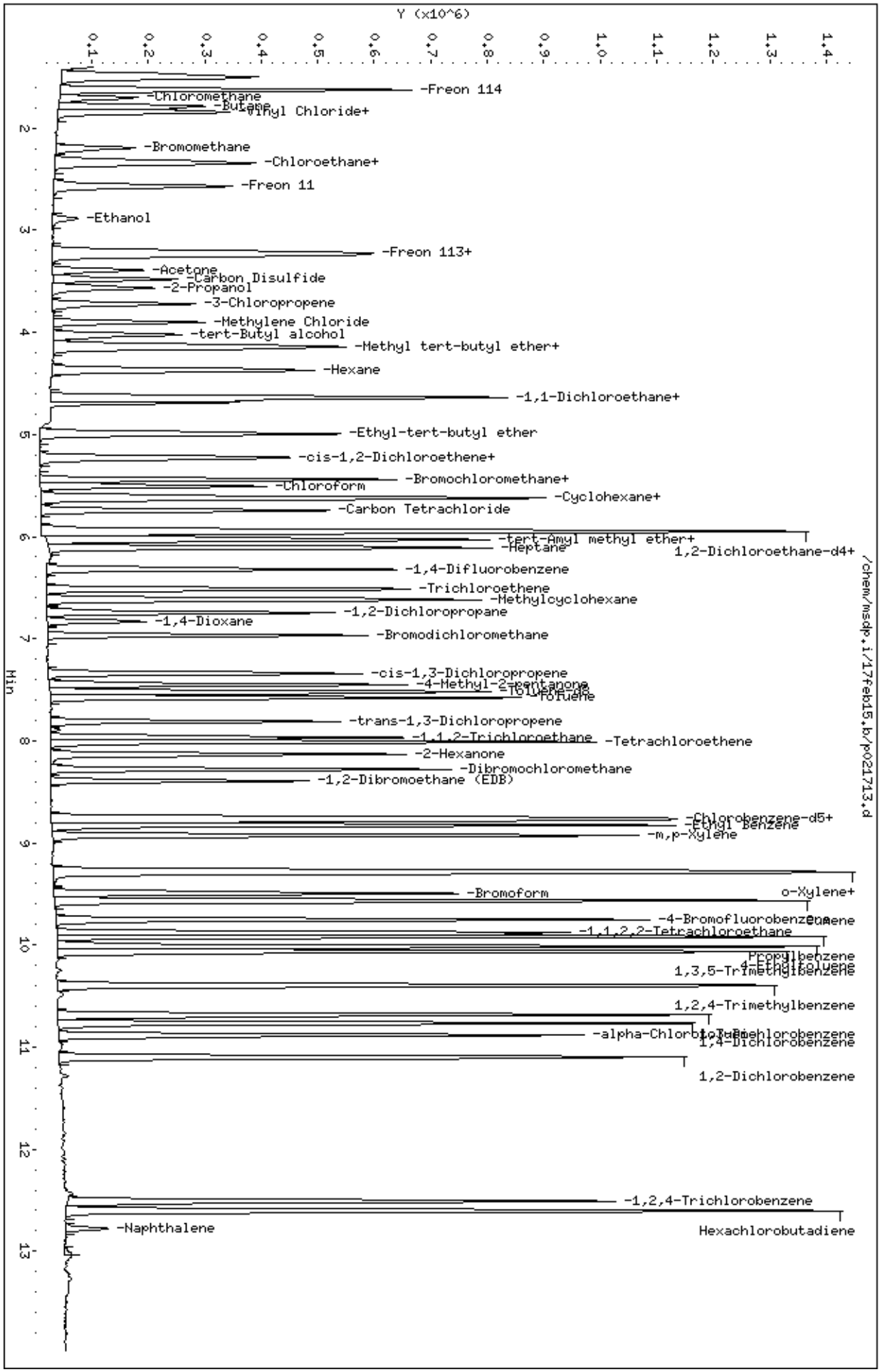
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	117449	-8.60
123 1,4-Difluorobenze	592591	355555	829627	530808	-10.43
163 Chlorobenzene-d5	606914	364148	849680	534821	-11.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.32	5.99	6.65	6.32	0.00
163 Chlorobenzene-d5	8.74	8.41	9.07	8.75	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/msdp.i/17feb15.b/p021713.d
Date : 17-FEB-2015 17:56
Client ID: ICAL Level #5
Sample Info: 20ml #2716-57
Column phase: RTX-624

Instrument: msdp.i
Operator: gd
Column diameter: 0.25



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021714.d
Lab Smp Id: ICAL Level #6 Client Smp ID: ICAL Level #6
Inj Date : 17-FEB-2015 18:19
Operator : gd Inst ID: msdp.i
Smp Info : 50ml #2716-57
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 07:58 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:19 Cal File: p021714.d
Als bottle: 4 Calibration Sample, Level: 6
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	
5.441	5.441 (1.000)	130	128502	25.0000		80.00- 120.00	100.00
5.441	5.441 (1.000)	128	100878			48.50- 108.50	78.50
5.441	5.441 (1.000)	49	240728			157.33- 217.33	187.33
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.322	6.322 (1.000)	114	592591	25.0000		80.00- 120.00	100.00
6.322	6.322 (1.000)	88	91213			0.00- 45.39	15.39
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.743	8.743 (1.000)	117	606914	25.0000		80.00- 120.00	100.00
8.743	8.743 (1.000)	82	328821			24.18- 84.18	54.18
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.971	5.971 (1.097)	65	198046	25.0000	24.738	80.00- 120.00	100.00
5.971	5.971 (1.097)	67	114251			27.69- 87.69	57.69

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	
7.525	7.525 (1.190)	98	652653	25.0000	24.743	80.00- 120.00	100.00
7.525	7.525 (1.190)	70	73755			0.00- 41.30	11.30
7.525	7.525 (1.190)	100	433500			36.42- 96.42	66.42
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.732	9.732 (1.113)	174	373329	25.0000	24.745	80.00- 120.00	100.00
9.732	9.732 (1.113)	95	492336			101.88- 161.88	131.88
9.732	9.732 (1.113)	176	366368			68.14- 128.14	98.14
9 Propylene						CAS #: 115-07-1	
1.473	1.473 (0.271)	41	314720	50.0000	47.037	80.00- 120.00	100.00
1.473	1.473 (0.271)	42	210834			36.99- 96.99	66.99
1.473	1.473 (0.271)	39	215230			38.39- 98.39	68.39
11 Freon 12						CAS #: 75-71-8	
1.508	1.508 (0.277)	85	833023	50.0000	45.276	80.00- 120.00	100.00
1.508	1.508 (0.277)	87	268767			2.26- 62.26	32.26
15 Freon 114						CAS #: 76-14-2	
1.623	1.623 (0.298)	135	600375	50.0000	45.304	80.00- 120.00	100.00
1.623	1.623 (0.298)	137	191415			1.88- 61.88	31.88
17 Chloromethane						CAS #: 74-87-3	
1.702	1.702 (0.313)	50	339635	50.0000	45.658	80.00- 120.00	100.00
1.702	1.702 (0.313)	52	108864			2.05- 62.05	32.05
23 Butane						CAS #: 106-97-8	
1.788	1.788 (0.329)	58	80906	50.0000	47.734	80.00- 120.00	100.00
1.788	1.788 (0.329)	43	635184			755.09- 815.09	785.09
25 Vinyl Chloride						CAS #: 75-01-4	
1.824	1.824 (0.335)	62	365334	50.0000	45.805	80.00- 120.00	100.00
1.824	1.824 (0.335)	64	107433			0.00- 59.41	29.41
26 1,3-Butadiene						CAS #: 106-99-0	
1.845	1.845 (0.339)	54	340323	50.0000	46.227	80.00- 120.00	100.00
1.845	1.845 (0.339)	39	305267			59.70- 119.70	89.70
29 Bromomethane						CAS #: 74-83-9	
2.196	2.196 (0.404)	94	243127	50.0000	46.540	80.00- 120.00	100.00
2.196	2.196 (0.404)	96	228106			63.82- 123.82	93.82
30 Chloroethane						CAS #: 75-00-3	
2.318	2.318 (0.426)	64	163408	50.0000	45.490	80.00- 120.00	100.00
2.318	2.318 (0.426)	66	49292			0.16- 60.16	30.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.426)	49	54400			3.29- 63.29	33.29
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.431)	43	461492	50.0000	46.518	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	306681			36.45- 96.45	66.45
35 Freon 11					CAS #: 75-69-4		
2.569	2.569 (0.472)	101	807412	50.0000	44.811	80.00- 120.00	100.00
2.576	2.576 (0.473)	103	516026			33.91- 93.91	63.91
42 Ethanol					CAS #: 64-17-5		
2.891	2.891 (0.531)	45	161710	50.0000	46.192	80.00- 120.00	100.00
2.891	2.891 (0.531)	43	28468			0.00- 47.60	17.60
2.891	2.891 (0.531)	46	61991			8.33- 68.33	38.33
49 Freon 113					CAS #: 76-13-1		
3.220	3.220 (0.592)	151	503180	50.0000	46.151	80.00- 120.00	100.00
3.220	3.220 (0.592)	153	317234			33.05- 93.05	63.05
3.220	3.220 (0.592)	101	630190			95.24- 155.24	125.24
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.597)	98	181135	50.0000	45.402	80.00- 120.00	100.00
3.249	3.249 (0.597)	96	291169			130.75- 190.75	160.75
3.249	3.249 (0.597)	61	569034			284.15- 344.15	314.15
52 Acetone					CAS #: 67-64-1		
3.392	3.392 (0.623)	58	191864	50.0000	48.288	80.00- 120.00	100.00
3.392	3.392 (0.623)	43	566816			265.43- 325.43	295.43
56 Carbon Disulfide					CAS #: 75-15-0		
3.478	3.478 (0.639)	76	812650	50.0000	47.564	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.564	3.564 (0.655)	45	698690	50.0000	47.512	80.00- 120.00	100.00
3.564	3.564 (0.655)	43	118421			0.00- 46.95	16.95
3.564	3.564 (0.655)	59	26149			0.00- 33.74	3.74
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.685)	76	132938	50.0000	44.553	80.00- 120.00	100.00
3.729	3.729 (0.685)	41	513986			356.64- 416.64	386.64
66 Methylene Chloride					CAS #: 75-09-2		
3.901	3.901 (0.717)	49	480507	50.0000	45.866	80.00- 120.00	100.00
3.908	3.908 (0.718)	84	252484			22.55- 82.55	52.55
3.901	3.901 (0.717)	51	147113			0.62- 60.62	30.62

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		
4.030	4.030 (0.741)	59	786407	50.0000	47.535	80.00- 120.00	100.00
4.030	4.030 (0.741)	41	158752			0.00- 50.19	20.19
4.030	4.030 (0.741)	57	80346			0.00- 40.22	10.22
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.759)	73	823129	50.0000	44.163	80.00- 120.00	100.00
4.130	4.130 (0.759)	57	253966			0.85- 60.85	30.85
4.130	4.130 (0.759)	41	234285			0.00- 58.46	28.46
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.159	4.159 (0.764)	98	189154	50.0000	46.063	80.00- 120.00	100.00
4.152	4.152 (0.763)	61	533708			252.16- 312.16	282.16
4.152	4.152 (0.763)	96	298151			127.62- 187.62	157.62
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.804)	57	643298	50.0000	43.172	80.00- 120.00	100.00
4.374	4.374 (0.804)	43	414785			34.48- 94.48	64.48
4.374	4.374 (0.804)	86	76390			0.00- 41.87	11.87
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.854)	63	668920	50.0000	46.695	80.00- 120.00	100.00
4.646	4.646 (0.854)	65	193144			0.00- 58.87	28.87
83 Isopropyl ether					CAS #: 108-20-3		
4.639	4.639 (0.853)	45	1408753	50.0000	47.672	80.00- 120.00	100.00
4.639	4.639 (0.853)	87	276157			0.00- 49.60	19.60
4.639	4.639 (0.853)	59	156395			0.00- 41.10	11.10
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.862)	86	86595	50.0000	48.379	80.00- 120.00	100.00
4.689	4.689 (0.862)	43	1785655			2032.08-2092.08	2062.08
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.997	4.997 (0.918)	59	1277187	50.0000	47.674	80.00- 120.00	100.00
4.997	4.997 (0.918)	87	402540			1.52- 61.52	31.52
4.997	4.997 (0.918)	41	223833			0.00- 47.53	17.53
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.219 (0.959)	98	212115	50.0000	46.497	80.00- 120.00	100.00
5.219	5.219 (0.959)	96	340816			130.68- 190.68	160.68
5.219	5.219 (0.959)	61	526942			218.42- 278.42	248.42
92 2-Butanone					CAS #: 78-93-3		
5.240	5.240 (0.963)	72	159558	50.0000	45.983	80.00- 120.00	100.00
5.240	5.240 (0.963)	43	853930			505.18- 565.18	535.18

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

   92 2-Butanone (continued)
  5.240   5.240 (0.963)    57     68661                    13.03-  73.03    43.03
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.441   5.441 (1.000)    42    481532 50.0000   43.822  80.00- 120.00   100.00
  5.441   5.441 (1.000)    71    142959                    0.00-  59.69    29.69
  5.441   5.441 (1.000)    72    142995                    0.00-  59.70    29.70
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.505   5.505 (1.012)    83    673528 50.0000   45.423  80.00- 120.00   100.00
  5.505   5.505 (1.012)    85    436170                   34.76-  94.76    64.76
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.620   5.620 (1.033)    84    445232 50.0000   47.164  80.00- 120.00   100.00
  5.620   5.620 (1.033)    56    725957                  133.05- 193.05   163.05
  5.613   5.613 (1.032)    41    354340                   49.59- 109.59    79.59
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.634   5.634 (1.036)    97    714817 50.0000   46.038  80.00- 120.00   100.00
  5.634   5.634 (1.036)    99    458709                   34.17-  94.17    64.17
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.749   5.749 (1.057)   119    736758 50.0000   45.898  80.00- 120.00   100.00
  5.749   5.749 (1.057)   117    775069                   75.20- 135.20   105.20
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.942   5.942 (1.092)    57   2181612 50.0000   45.023  80.00- 120.00   100.00
  5.942   5.942 (1.092)    56    728249                    3.38-  63.38    33.38
  5.942   5.942 (1.092)    41    517530                    0.00-  53.72    23.72
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.957   5.957 (0.942)    78   1012469 50.0000   44.516  80.00- 120.00   100.00
  5.957   5.957 (0.942)    77    232724                    0.00-  52.99    22.99
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.028   6.028 (0.954)    87    243613 50.0000   46.930  80.00- 120.00   100.00
  6.028   6.028 (0.954)    73    985990                  374.74- 434.74   404.74
  6.028   6.028 (0.954)    55    336587                  108.16- 168.16   138.16
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.036   6.036 (0.955)    62    530067 50.0000   46.324  80.00- 120.00   100.00
  6.036   6.036 (0.955)    64    159178                    0.03-  60.03    30.03
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.107   6.107 (0.966)    71    372117 50.0000   41.371  80.00- 120.00   100.00
  6.107   6.107 (0.966)    43    850811                  198.64- 258.64   228.64
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.107	6.107 (0.966)	57	464484			94.82- 154.82	124.82
125 Trichloroethene					CAS #: 79-01-6		
6.515	6.515 (1.031)	95	485295	50.0000	45.000	80.00- 120.00	100.00
6.515	6.515 (1.031)	130	499741			72.98- 132.98	102.98
6.515	6.515 (1.031)	97	308435			33.56- 93.56	63.56
127 Methylcyclohexane					CAS #: 108-87-2		
6.616	6.616 (1.046)	83	642933	50.0000	45.009	80.00- 120.00	100.00
6.623	6.623 (1.048)	98	299878			16.64- 76.64	46.64
6.616	6.616 (1.046)	55	719143			81.85- 141.85	111.85
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.745	6.745 (1.067)	63	490454	50.0000	46.986	80.00- 120.00	100.00
6.745	6.745 (1.067)	62	348625			41.08- 101.08	71.08
6.745	6.745 (1.067)	41	259738			22.96- 82.96	52.96
136 1,4-Dioxane					CAS #: 123-91-1		
6.831	6.831 (1.080)	88	266386	50.0000	47.437	80.00- 120.00	100.00
6.831	6.831 (1.080)	58	238848			59.66- 119.66	89.66
6.831	6.831 (1.080)	57	72841			0.00- 57.34	27.34
138 Bromodichloromethane					CAS #: 75-27-4		
6.967	6.967 (1.102)	83	806637	50.0000	45.570	80.00- 120.00	100.00
6.967	6.967 (1.102)	85	518319			34.26- 94.26	64.26
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.339	7.339 (1.161)	75	701341	50.0000	46.887	80.00- 120.00	100.00
7.339	7.339 (1.161)	77	225976			2.22- 62.22	32.22
7.339	7.339 (1.161)	39	405186			27.77- 87.77	57.77
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.447	7.447 (1.178)	58	450800	50.0000	44.799	80.00- 120.00	100.00
7.447	7.447 (1.178)	43	1148386			224.74- 284.74	254.74
7.447	7.447 (1.178)	85	152393			3.81- 63.81	33.81
147 Toluene					CAS #: 108-88-3		
7.576	7.576 (1.198)	91	1434683	50.0000	45.491	80.00- 120.00	100.00
7.576	7.576 (1.198)	92	842370			28.71- 88.71	58.71
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.812	7.812 (0.893)	75	642407	50.0000	45.740	80.00- 120.00	100.00
7.812	7.812 (0.893)	77	204488			1.83- 61.83	31.83
7.812	7.812 (0.893)	39	345845			23.84- 83.84	53.84

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

  155 1,1,2-Trichloroethane                          CAS #: 79-00-5
  7.970   7.970 (0.912)    97    502845 50.0000   45.082  80.00- 120.00   100.00
  7.970   7.970 (0.912)    99    308054                   31.26-  91.26    61.26
  7.962   7.962 (0.911)    83    430469                   55.61- 115.61    85.61
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.013   8.013 (0.916)   166    670054 50.0000   44.666  80.00- 120.00   100.00
  8.013   8.013 (0.916)   129    510442                   46.18- 106.18    76.18
  8.013   8.013 (0.916)   131    494447                   43.79- 103.79    73.79
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  8.134   8.134 (0.930)    58    635137 50.0000   46.955  80.00- 120.00   100.00
  8.134   8.134 (0.930)    43   1131622                  148.17- 208.17   178.17
  8.134   8.134 (0.930)   100     99312                    0.00-  45.64    15.64
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  8.278   8.278 (0.947)   129    929285 50.0000   46.900  80.00- 120.00   100.00
  8.278   8.278 (0.947)   127    717282                   47.19- 107.19    77.19
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  8.392   8.392 (0.960)   107    778671 50.0000   45.923  80.00- 120.00   100.00
  8.392   8.392 (0.960)   109    731735                   63.97- 123.97    93.97
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  8.765   8.765 (1.002)   112   1197623 50.0000   45.980  80.00- 120.00   100.00
  8.765   8.765 (1.002)   114    383359                    2.01-  62.01    32.01
  8.765   8.765 (1.002)    77    699581                   28.41-  88.41    58.41
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  8.815   8.815 (1.008)   106    627608 50.0000   45.269  80.00- 120.00   100.00
  8.815   8.815 (1.008)    91   1942009                  279.43- 339.43   309.43
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
  8.915   8.915 (1.020)   106    784608 50.0000   46.046  80.00- 120.00   100.00
  8.915   8.915 (1.020)    91   1560285                  168.86- 228.86   198.86
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
  9.252   9.252 (1.058)   106    735794 50.0000   46.291  80.00- 120.00   100.00
  9.252   9.252 (1.058)    91   1575062                  184.06- 244.06   214.06
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
  9.273   9.273 (1.061)   104   1243056 50.0000   46.698  80.00- 120.00   100.00
  9.273   9.273 (1.061)    78    612945                   19.31-  79.31    49.31
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
  9.474   9.474 (1.084)   173    904763 50.0000   47.056  80.00- 120.00   100.00
```

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

  174 Bromoform (continued)
  9.474   9.474 (1.084)   171    465135                    21.41-  81.41    51.41
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.545   9.545 (1.092)   105   2350252 50.0000   46.009  80.00- 120.00   100.00
  9.545   9.545 (1.092)   120    623945                     0.00-  56.55    26.55
  9.545   9.545 (1.092)    51    273587                     0.00-  41.64    11.64
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.861   9.861 (1.128)    83   1162712 50.0000   46.074  80.00- 120.00   100.00
  9.861   9.861 (1.128)    85    752368                    34.71-  94.71    64.71
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.896   9.896 (1.132)    91   2787471 50.0000   45.446  80.00- 120.00   100.00
  9.896   9.896 (1.132)   120    650860                     0.00-  53.35    23.35
  9.896   9.896 (1.132)   105    101610                     0.00-  33.65     3.65
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
  9.997   9.997 (1.143)   120    715058 50.0000   45.777  80.00- 120.00   100.00
  9.997   9.997 (1.143)   105   2357817                   299.74- 359.74   329.74
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.047  10.047 (1.149)   120    993130 50.0000   46.597  80.00- 120.00   100.00
 10.047  10.047 (1.149)   105   2102294                   181.68- 241.68   211.68
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.383  10.383 (1.188)   120    902756 50.0000   46.090  80.00- 120.00   100.00
 10.376  10.376 (1.187)   105   1970969                   188.33- 248.33   218.33
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.670  10.670 (1.220)   146   1327513 50.0000   46.403  80.00- 120.00   100.00
 10.670  10.670 (1.220)   148    837731                    33.11-  93.11    63.11
 10.670  10.670 (1.220)   111    542324                    10.85-  70.85    40.85
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.756  10.756 (1.230)   146   1326891 50.0000   45.629  80.00- 120.00   100.00
 10.756  10.756 (1.230)   148    845144                    33.69-  93.69    63.69
 10.749  10.749 (1.229)   111    528124                     9.80-  69.80    39.80
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.871  10.871 (1.243)    91   1925461 50.0000   48.116  80.00- 120.00   100.00
 10.871  10.871 (1.243)   126    404841                     0.00-  51.03    21.03
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.085  11.085 (1.268)   146   1268584 50.0000   45.259  80.00- 120.00   100.00
 11.085  11.085 (1.268)   148    808305                    33.72-  93.72    63.72
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.085	11.085 (1.268)	111	543183			12.82- 72.82	42.82
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.504	12.504 (1.430)	180	1083538	50.0000	47.754	80.00- 120.00	100.00
12.504	12.504 (1.430)	182	1030611			65.12- 125.12	95.12
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.597	12.597 (1.441)	225	929944	50.0000	47.774	80.00- 120.00	100.00
12.597	12.597 (1.441)	223	583352			32.73- 92.73	62.73
228 Naphthalene					CAS #: 91-20-3		
12.769	12.769 (1.460)	128	248788	5.00000	5.230	80.00- 120.00	100.00
12.769	12.769 (1.460)	127	30787			0.00- 42.37	12.37

Report Date: 23-Feb-2015 07:58

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021714.d
Lab Smp Id: ICAL Level #6
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #6
Level: LOW
Sample Type: AIR

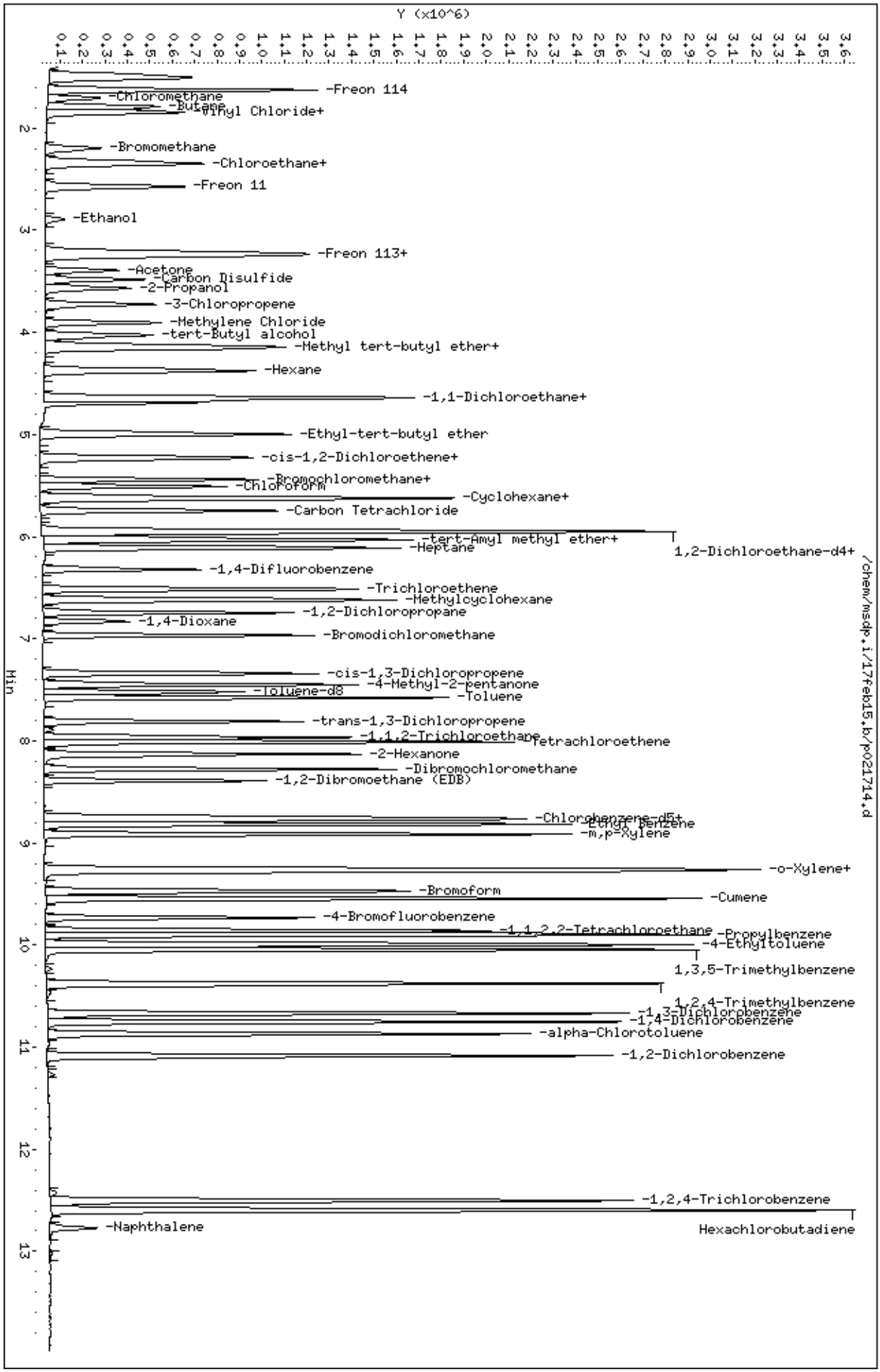
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	128502	0.00
123 1,4-Difluorobenze	592591	355555	829627	592591	0.00
163 Chlorobenzene-d5	606914	364148	849680	606914	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.44	0.00
123 1,4-Difluorobenze	6.32	5.99	6.65	6.32	0.00
163 Chlorobenzene-d5	8.74	8.41	9.07	8.74	0.00

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

Data File: /chem/msdp.i/17feb15.b/p021714.d
Date : 17-FEB-2015 18:19
Client ID: ICAL Level #6
Sample Info: 50ml #2716-57
Column phase: RTX-624

Instrument: msdp.i
Operator: gd
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021715.d
Lab Smp Id: ICAL Level #7 Client Smp ID: ICAL Level #7
Inj Date : 17-FEB-2015 18:43
Operator : gd Inst ID: msdp.i
Smp Info : 100ml #2716-57
Misc Info : 100ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 5 Calibration Sample, Level: 7
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	
5.434	5.434 (1.000)	130	126044	25.0000		80.00- 120.00	100.00
5.434	5.434 (1.000)	128	97599			48.50- 108.50	77.43
5.434	5.434 (1.000)	49	241731			157.33- 217.33	191.78
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.315	6.315 (1.000)	114	573714	25.0000		80.00- 120.00	100.00
6.315	6.315 (1.000)	88	93047			0.00- 45.39	16.22
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.743	8.743 (1.000)	117	589944	25.0000		80.00- 120.00	100.00
8.743	8.743 (1.000)	82	329223			24.18- 84.18	55.81
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.964	5.964 (1.098)	65	195417	25.0000	24.886	80.00- 120.00	100.00
5.964	5.964 (1.098)	67	131379			27.69- 87.69	67.23

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

$ 146 Toluene-d8                                      CAS #: 2037-26-5
  7.518   7.518 (1.191)    98    647802 25.0000   25.367  80.00- 120.00   100.00
  7.518   7.518 (1.191)    70     70274                     0.00-  41.30    10.85
  7.518   7.518 (1.191)   100    424762                    36.42-  96.42    65.57
-------------------------------------------------------------------------------
$ 177 4-Bromofluorobenzene                            CAS #: 460-00-4
  9.725   9.725 (1.112)   174    367630 25.0000   25.068  80.00- 120.00   100.00
  9.725   9.725 (1.112)    95    476324                   101.88- 161.88   129.57
  9.725   9.725 (1.112)   176    353011                    68.14- 128.14    96.02
-------------------------------------------------------------------------------
    9 Propylene                                       CAS #: 115-07-1
  1.473   1.473 (0.271)    41    612972 100.000   93.399  80.00- 120.00   100.00
  1.473   1.473 (0.271)    42    414493                    36.99-  96.99    67.62
  1.473   1.473 (0.271)    39    411753                    38.39-  98.39    67.17
-------------------------------------------------------------------------------
   11 Freon 12                                        CAS #: 75-71-8
  1.509   1.509 (0.278)    85   1601637 100.000   88.749  80.00- 120.00   100.00
  1.509   1.509 (0.278)    87    521819                     2.26-  62.26    32.58
-------------------------------------------------------------------------------
   15 Freon 114                                       CAS #: 76-14-2
  1.630   1.630 (0.300)   135   1168030 100.000   89.857  80.00- 120.00   100.00
  1.630   1.630 (0.300)   137    371010                     1.88-  61.88    31.76
-------------------------------------------------------------------------------
   17 Chloromethane                                   CAS #: 74-87-3
  1.709   1.709 (0.315)    50    648797 100.000   88.920  80.00- 120.00   100.00
  1.709   1.709 (0.315)    52    208457                     2.05-  62.05    32.13
-------------------------------------------------------------------------------
   23 Butane                                          CAS #: 106-97-8
  1.788   1.788 (0.329)    58    163362 100.000   98.261  80.00- 120.00   100.00
  1.788   1.788 (0.329)    43   1231845                   755.09- 815.09   754.06
-------------------------------------------------------------------------------
   25 Vinyl Chloride                                  CAS #: 75-01-4
  1.824   1.824 (0.336)    62    713929 100.000   91.257  80.00- 120.00   100.00
  1.824   1.824 (0.336)    64    203864                     0.00-  59.41    28.56
-------------------------------------------------------------------------------
   26 1,3-Butadiene                                   CAS #: 106-99-0
  1.852   1.852 (0.341)    54    667141 100.000   92.388  80.00- 120.00   100.00
  1.852   1.852 (0.341)    39    587141                    59.70- 119.70    88.01
-------------------------------------------------------------------------------
   29 Bromomethane                                    CAS #: 74-83-9
  2.203   2.203 (0.405)    94    471792 100.000   92.073  80.00- 120.00   100.00
  2.203   2.203 (0.405)    96    443312                    63.82- 123.82    93.96
-------------------------------------------------------------------------------
   30 Chloroethane                                    CAS #: 75-00-3
  2.318   2.318 (0.427)    64    311037 100.000   88.276  80.00- 120.00   100.00
  2.325   2.325 (0.428)    66     98693                     0.16-  60.16    31.73
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.427)	49	101754			3.29- 63.29	32.71
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.432)	43	895688	100.000	92.046	80.00- 120.00	100.00
2.347	2.347 (0.432)	57	614530			36.45- 96.45	68.61
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.474)	101	1580623	100.000	89.435	80.00- 120.00	100.00
2.576	2.576 (0.474)	103	1018778			33.91- 93.91	64.45
42 Ethanol					CAS #: 64-17-5		
2.898	2.898 (0.533)	45	308400	100.000	89.812	80.00- 120.00	100.00
2.891	2.891 (0.532)	43	59578			0.00- 47.60	19.32
2.898	2.898 (0.533)	46	126531			8.33- 68.33	41.03
49 Freon 113					CAS #: 76-13-1		
3.228	3.228 (0.594)	151	979036	100.000	91.547	80.00- 120.00	100.00
3.228	3.228 (0.594)	153	623453			33.05- 93.05	63.68
3.221	3.221 (0.593)	101	1223277			95.24- 155.24	124.95
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.598)	98	358756	100.000	91.678	80.00- 120.00	100.00
3.249	3.249 (0.598)	96	563043			130.75- 190.75	156.94
3.249	3.249 (0.598)	61	1109738			284.15- 344.15	309.33
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.624)	58	355355	100.000	91.180	80.00- 120.00	100.00
3.393	3.393 (0.624)	43	1103471			265.43- 325.43	310.53
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.641)	76	1580819	100.000	94.328	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.564	3.564 (0.656)	45	1376835	100.000	95.452	80.00- 120.00	100.00
3.564	3.564 (0.656)	43	230544			0.00- 46.95	16.74
3.564	3.564 (0.656)	59	51709			0.00- 33.74	3.76
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.686)	76	268652	100.000	91.792	80.00- 120.00	100.00
3.729	3.729 (0.686)	41	1008569			356.64- 416.64	375.42
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.719)	49	919845	100.000	89.516	80.00- 120.00	100.00
3.908	3.908 (0.719)	84	482987			22.55- 82.55	52.51
3.908	3.908 (0.719)	51	286161			0.62- 60.62	31.11

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		
4.030	4.030 (0.742)	59	1552861	100.000	95.694	80.00- 120.00	100.00
4.030	4.030 (0.742)	41	314012			0.00- 50.19	20.22
4.030	4.030 (0.742)	57	160724			0.00- 40.22	10.35
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.760)	73	1598778	100.000	87.452	80.00- 120.00	100.00
4.130	4.130 (0.760)	57	492505			0.85- 60.85	30.81
4.130	4.130 (0.760)	41	435354			0.00- 58.46	27.23
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.152	4.152 (0.764)	98	376904	100.000	93.574	80.00- 120.00	100.00
4.152	4.152 (0.764)	61	1005085			252.16- 312.16	266.67
4.152	4.152 (0.764)	96	578124			127.62- 187.62	153.39
78 Hexane					CAS #: 110-54-3		
4.367	4.367 (0.804)	57	1246505	100.000	85.285	80.00- 120.00	100.00
4.367	4.367 (0.804)	43	792845			34.48- 94.48	63.61
4.374	4.374 (0.805)	86	146935			0.00- 41.87	11.79
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.632	4.632 (0.852)	63	1257729	100.000	89.510	80.00- 120.00	100.00
4.639	4.639 (0.854)	65	359318			0.00- 58.87	28.57
83 Isopropyl ether					CAS #: 108-20-3		
4.632	4.632 (0.852)	45	2724603	100.000	93.998	80.00- 120.00	100.00
4.632	4.632 (0.852)	87	537708			0.00- 49.60	19.74
4.632	4.632 (0.852)	59	296395			0.00- 41.10	10.88
86 Vinyl Acetate					CAS #: 108-05-4		
4.682	4.682 (0.862)	86	166508	100.000	94.839	80.00- 120.00	100.00
4.675	4.675 (0.860)	43	2392302			2032.08-2092.08	1436.75
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.983	4.983 (0.917)	59	2480415	100.000	94.393	80.00- 120.00	100.00
4.983	4.983 (0.917)	87	788775			1.52- 61.52	31.80
4.983	4.983 (0.917)	41	423706			0.00- 47.53	17.08
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.205	5.205 (0.958)	98	415078	100.000	92.762	80.00- 120.00	100.00
5.205	5.205 (0.958)	96	662967			130.68- 190.68	159.72
5.205	5.205 (0.958)	61	1029081			218.42- 278.42	247.92
92 2-Butanone					CAS #: 78-93-3		
5.233	5.233 (0.963)	72	319841	100.000	93.973	80.00- 120.00	100.00
5.233	5.233 (0.963)	43	1687661			505.18- 565.18	527.66

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

   92 2-Butanone (continued)
  5.233   5.233 (0.963)    57    133157                    13.03-  73.03    41.63
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.427   5.427 (0.999)    42    960273 100.000   89.094  80.00- 120.00   100.00
  5.427   5.427 (0.999)    71    276036                    0.00-  59.69    28.75
  5.427   5.427 (0.999)    72    298454                    0.00-  59.70    31.08
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.498   5.498 (1.012)    83   1315475 100.000   90.447  80.00- 120.00   100.00
  5.498   5.498 (1.012)    85    847317                   34.76-  94.76    64.41
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.606   5.606 (1.032)    84    850425 100.000   91.843  80.00- 120.00   100.00
  5.606   5.606 (1.032)    56   1419360                  133.05- 193.05   166.90
  5.606   5.606 (1.032)    41    696453                   49.59- 109.59    81.89
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.620   5.620 (1.034)    97   1416100 100.000   92.983  80.00- 120.00   100.00
  5.620   5.620 (1.034)    99    906761                   34.17-  94.17    64.03
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.735   5.735 (1.055)   119   1487029 100.000   94.444  80.00- 120.00   100.00
  5.735   5.735 (1.055)   117   1531726                   75.20- 135.20   103.01
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.935   5.935 (1.092)    57   4302765 100.000   90.530  80.00- 120.00   100.00
  5.935   5.935 (1.092)    56   1417100                    3.38-  63.38    32.93
  5.935   5.935 (1.092)    41    995874                    0.00-  53.72    23.14
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.950   5.950 (0.942)    78   1961092 100.000   89.061  80.00- 120.00   100.00
  5.950   5.950 (0.942)    77    451312                    0.00-  52.99    23.01
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.021   6.021 (0.953)    87    478091 100.000   95.131  80.00- 120.00   100.00
  6.021   6.021 (0.953)    73   1947635                  374.74- 434.74   407.38
  6.021   6.021 (0.953)    55    660072                  108.16- 168.16   138.06
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.029   6.029 (0.955)    62   1024931 100.000   92.518  80.00- 120.00   100.00
  6.029   6.029 (0.955)    64    309578                    0.03-  60.03    30.20
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.100   6.100 (0.966)    71    723753 100.000   83.112  80.00- 120.00   100.00
  6.100   6.100 (0.966)    43   1644702                  198.64- 258.64   227.25
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.100	6.100 (0.966)	57	906629			94.82- 154.82	125.27
125 Trichloroethene					CAS #: 79-01-6		
6.508	6.508 (1.031)	95	940622	100.000	90.092	80.00- 120.00	100.00
6.508	6.508 (1.031)	130	953308			72.98- 132.98	101.35
6.508	6.508 (1.031)	97	604723			33.56- 93.56	64.29
127 Methylcyclohexane					CAS #: 108-87-2		
6.616	6.616 (1.048)	83	1264444	100.000	91.431	80.00- 120.00	100.00
6.616	6.616 (1.048)	98	590842			16.64- 76.64	46.73
6.616	6.616 (1.048)	55	1403166			81.85- 141.85	110.97
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.738	6.738 (1.067)	63	946483	100.000	93.657	80.00- 120.00	100.00
6.738	6.738 (1.067)	62	685754			41.08- 101.08	72.45
6.738	6.738 (1.067)	41	505485			22.96- 82.96	53.41
136 1,4-Dioxane					CAS #: 123-91-1		
6.824	6.824 (1.081)	88	513144	100.000	94.386	80.00- 120.00	100.00
6.824	6.824 (1.081)	58	461818			59.66- 119.66	90.00
6.824	6.824 (1.081)	57	151502			0.00- 57.34	29.52
138 Bromodichloromethane					CAS #: 75-27-4		
6.967	6.967 (1.103)	83	1585860	100.000	92.538	80.00- 120.00	100.00
6.967	6.967 (1.103)	85	1013751			34.26- 94.26	63.92
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.339	7.339 (1.162)	75	1399658	100.000	96.650	80.00- 120.00	100.00
7.339	7.339 (1.162)	77	442209			2.22- 62.22	31.59
7.339	7.339 (1.162)	39	794632			27.77- 87.77	56.77
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.447	7.447 (1.179)	58	893206	100.000	91.684	80.00- 120.00	100.00
7.447	7.447 (1.179)	43	2249925			224.74- 284.74	251.89
7.447	7.447 (1.179)	85	312064			3.81- 63.81	34.94
147 Toluene					CAS #: 108-88-3		
7.576	7.576 (1.200)	91	2816906	100.000	92.257	80.00- 120.00	100.00
7.576	7.576 (1.200)	92	1634989			28.71- 88.71	58.04
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.812	7.812 (0.893)	75	1286070	100.000	94.203	80.00- 120.00	100.00
7.812	7.812 (0.893)	77	406595			1.83- 61.83	31.62
7.812	7.812 (0.893)	39	692531			23.84- 83.84	53.85

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

  155 1,1,2-Trichloroethane                          CAS #: 79-00-5
  7.963   7.963 (0.911)    97    989993 100.000   91.311  80.00- 120.00   100.00
  7.963   7.963 (0.911)    99    609167                   31.26-  91.26    61.53
  7.963   7.963 (0.911)    83    839784                   55.61- 115.61    84.83
-------------------------------------------------------------------------------
  156 Tetrachloroethene                              CAS #: 127-18-4
  8.013   8.013 (0.916)   166   1311003 100.000   89.906  80.00- 120.00   100.00
  8.013   8.013 (0.916)   129   1016018                   46.18- 106.18    77.50
  8.013   8.013 (0.916)   131    979167                   43.79- 103.79    74.69
-------------------------------------------------------------------------------
  158 2-Hexanone                                     CAS #: 591-78-6
  8.134   8.134 (0.930)    58   1263887 100.000   96.126  80.00- 120.00   100.00
  8.127   8.127 (0.930)    43   2246206                  148.17- 208.17   177.72
  8.134   8.134 (0.930)   100    204613                    0.00-  45.64    16.19
-------------------------------------------------------------------------------
  160 Dibromochloromethane                           CAS #: 124-48-1
  8.278   8.278 (0.947)   129   1830721 100.000   95.052  80.00- 120.00   100.00
  8.278   8.278 (0.947)   127   1418347                   47.19- 107.19    77.47
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                        CAS #: 106-93-4
  8.392   8.392 (0.960)   107   1543737 100.000   93.663  80.00- 120.00   100.00
  8.392   8.392 (0.960)   109   1449601                   63.97- 123.97    93.90
-------------------------------------------------------------------------------
  165 Chlorobenzene                                  CAS #: 108-90-7
  8.765   8.765 (1.002)   112   2363245 100.000   93.341  80.00- 120.00   100.00
  8.765   8.765 (1.002)   114    753154                    2.01-  62.01    31.87
  8.765   8.765 (1.002)    77   1358452                   28.41-  88.41    57.48
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                  CAS #: 100-41-4
  8.815   8.815 (1.008)   106   1245307 100.000   92.407  80.00- 120.00   100.00
  8.815   8.815 (1.008)    91   3858112                  279.43- 339.43   309.81
-------------------------------------------------------------------------------
  169 m,p-Xylene                                     CAS #: 108-38-3
  8.915   8.915 (1.020)   106   1533824 100.000   92.604  80.00- 120.00   100.00
  8.915   8.915 (1.020)    91   3079531                  168.86- 228.86   200.77
-------------------------------------------------------------------------------
  171 o-Xylene                                       CAS #: 95-47-6
  9.252   9.252 (1.058)   106   1440503 100.000   93.233  80.00- 120.00   100.00
  9.252   9.252 (1.058)    91   3060620                  184.06- 244.06   212.47
-------------------------------------------------------------------------------
  172 Styrene                                        CAS #: 100-42-5
  9.273   9.273 (1.061)   104   2441849 100.000   94.373  80.00- 120.00   100.00
  9.273   9.273 (1.061)    78   1186272                   19.31-  79.31    48.58
-------------------------------------------------------------------------------
  174 Bromoform                                      CAS #: 75-25-2
  9.467   9.467 (1.083)   173   1798118 100.000   96.208  80.00- 120.00   100.00
```

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

  174 Bromoform (continued)
  9.467   9.467 (1.083)   171    926018                    21.41-  81.41    51.50
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.546   9.546 (1.092)   105   4560645 100.000   91.849  80.00- 120.00   100.00
  9.546   9.546 (1.092)   120   1229603                     0.00-  56.55    26.96
  9.538   9.538 (1.091)    51    526169                     0.00-  41.64    11.54
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.846   9.846 (1.126)    83   2260423 100.000   92.149  80.00- 120.00   100.00
  9.846   9.846 (1.126)    85   1459813                    34.71-  94.71    64.58
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.889   9.889 (1.131)    91   5492198 100.000   92.119  80.00- 120.00   100.00
  9.889   9.889 (1.131)   120   1286439                     0.00-  53.35    23.42
  9.889   9.889 (1.131)   105    199791                     0.00-  33.65     3.64
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
  9.982   9.982 (1.142)   120   1407661 100.000   92.709  80.00- 120.00   100.00
  9.982   9.982 (1.142)   105   4883285                   299.74- 359.74   346.91
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.033  10.033 (1.147)   120   1942748 100.000   93.774  80.00- 120.00   100.00
 10.033  10.033 (1.147)   105   3909807                   181.68- 241.68   201.25
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.362  10.362 (1.185)   120   1744682 100.000   91.637  80.00- 120.00   100.00
 10.362  10.362 (1.185)   105   3897418                   188.33- 248.33   223.39
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.649  10.649 (1.218)   146   2612709 100.000   93.954  80.00- 120.00   100.00
 10.649  10.649 (1.218)   148   1683229                    33.11-  93.11    64.42
 10.649  10.649 (1.218)   111   1088804                    10.85-  70.85    41.67
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.735  10.735 (1.228)   146   2666798 100.000   94.343  80.00- 120.00   100.00
 10.735  10.735 (1.228)   148   1694297                    33.69-  93.69    63.53
 10.735  10.735 (1.228)   111   1047441                     9.80-  69.80    39.28
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.849  10.849 (1.241)    91   3873649 100.000   99.585  80.00- 120.00   100.00
 10.856  10.856 (1.242)   126    803422                     0.00-  51.03    20.74
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.071  11.071 (1.266)   146   2552790 100.000   93.696  80.00- 120.00   100.00
 11.071  11.071 (1.266)   148   1611314                    33.72-  93.72    63.12
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.071	11.071 (1.266)	111	1064151			12.82- 72.82	41.69
226 1,2,4-Trichlorobenzene						CAS #: 120-82-1	
12.497	12.497 (1.429)	180	2212947	100.000	100.33	80.00- 120.00	100.00
12.497	12.497 (1.429)	182	2134485			65.12- 125.12	96.45
227 Hexachlorobutadiene						CAS #: 87-68-3	
12.590	12.590 (1.440)	225	1900715	100.000	100.46	80.00- 120.00	100.00
12.590	12.590 (1.440)	223	1200484			32.73- 92.73	63.16
228 Naphthalene						CAS #: 91-20-3	
12.762	12.762 (1.460)	128	505159	10.0000	10.924	80.00- 120.00	100.00
12.762	12.762 (1.460)	127	62552			0.00- 42.37	12.38

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021715.d
Lab Smp Id: ICAL Level #7
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #7
Level: LOW
Sample Type: AIR

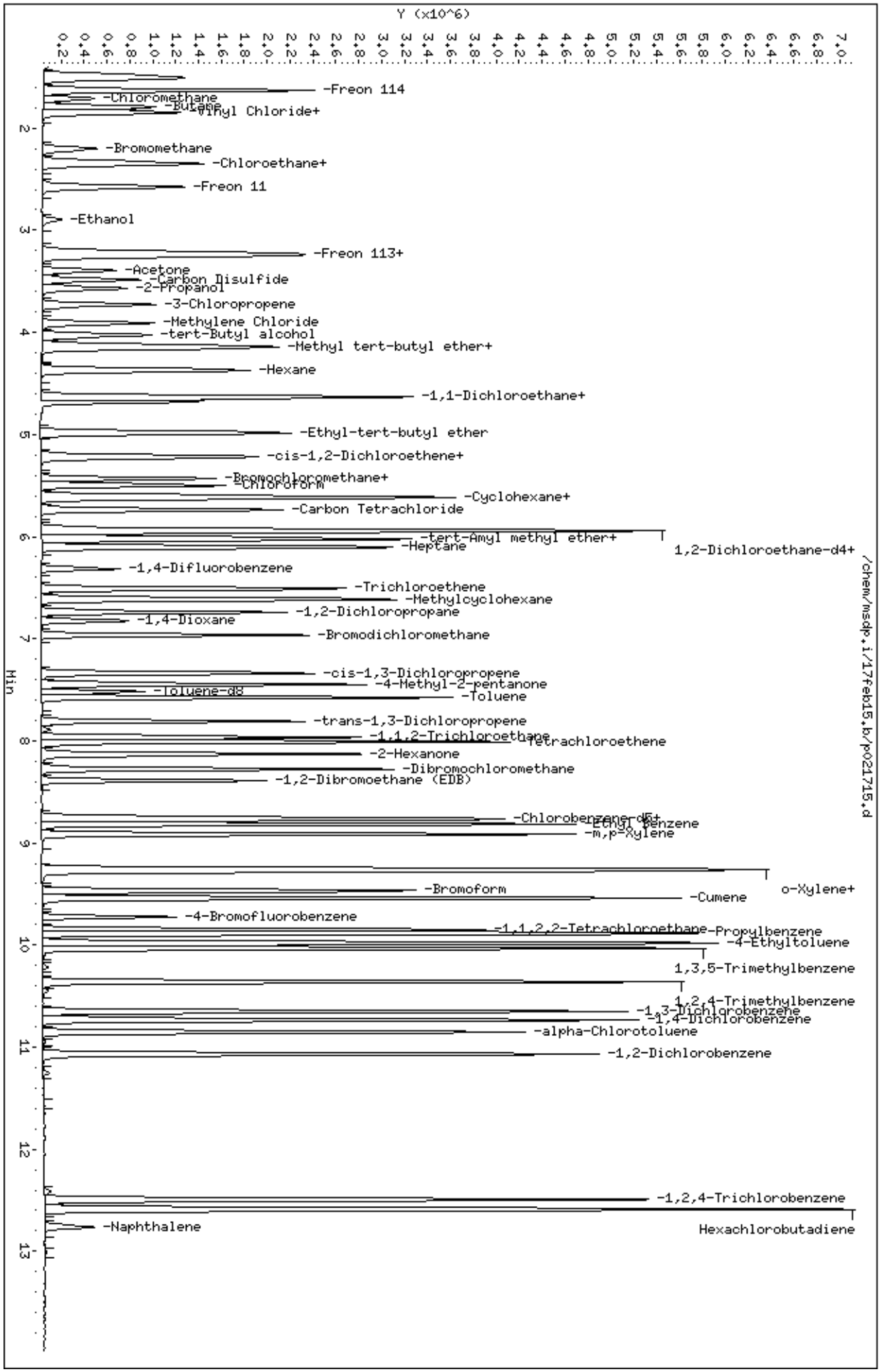
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	126044	-1.91
123 1,4-Difluorobenze	592591	355555	829627	573714	-3.19
163 Chlorobenzene-d5	606914	364148	849680	589944	-2.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.43	-0.13
123 1,4-Difluorobenze	6.32	5.99	6.65	6.32	-0.11
163 Chlorobenzene-d5	8.74	8.41	9.07	8.74	0.00

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

Data File: /chem/msdp.i/17feb15.b/p021715.d
Date : 17-FEB-2015 18:43
Client ID: ICAL Level #7
Sample Info: 100ml #2716-57
Column phase: RTX-624

Instrument: msdp.i
Operator: gd
Column diameter: 0.25



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/17feb15.b/p021716.d
Lab Smp Id: ICAL Level #8 Client Smp ID: ICAL Level #8
Inj Date : 17-FEB-2015 19:06
Operator : gd Inst ID: msdp.i
Smp Info : 200ml #2716-57
Misc Info : 200ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/17feb15.b/p15q0217a.m
Meth Date : 23-Feb-2015 08:00 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 19:06 Cal File: p021716.d
Als bottle: 6 Calibration Sample, Level: 8
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		
5.455	5.455 (1.000)	130	123273	25.0000		80.00- 120.00	100.00
5.455	5.455 (1.000)	128	97443			48.50- 108.50	79.05
5.455	5.455 (1.000)	49	231425			157.33- 217.33	187.73
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
6.344	6.344 (1.000)	114	552985	25.0000		80.00- 120.00	100.00
6.344	6.344 (1.000)	88	88544			0.00- 45.39	16.01
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
8.779	8.779 (1.000)	117	576368	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	319360			24.18- 84.18	55.41
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.986	5.986 (1.097)	65	210711	25.0000	27.436	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	156279			27.69- 87.69	74.17

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		
7.554	7.554 (1.191)	98	622416	25.0000	25.286	80.00- 120.00	100.00
7.554	7.554 (1.191)	70	68551			0.00- 41.30	11.01
7.554	7.554 (1.191)	100	418634			36.42- 96.42	67.26
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.760	9.760 (1.112)	174	357667	25.0000	24.963	80.00- 120.00	100.00
9.760	9.760 (1.112)	95	459494			101.88- 161.88	128.47
9.760	9.760 (1.112)	176	344571			68.14- 128.14	96.34
9 Propylene					CAS #: 115-07-1		
1.480	1.480 (0.271)	41	1175176	200.000	183.09	80.00- 120.00	100.00
1.480	1.480 (0.271)	42	812625			36.99- 96.99	69.15
1.480	1.480 (0.271)	39	797624			38.39- 98.39	67.87
11 Freon 12					CAS #: 75-71-8		
1.516	1.516 (0.278)	85	3155852	200.000	178.80	80.00- 120.00	100.00
1.516	1.516 (0.278)	87	1006777			2.26- 62.26	31.90
15 Freon 114					CAS #: 76-14-2		
1.630	1.630 (0.299)	135	2270058	200.000	178.56	80.00- 120.00	100.00
1.630	1.630 (0.299)	137	726830			1.88- 61.88	32.02
17 Chloromethane					CAS #: 74-87-3		
1.716	1.716 (0.315)	50	1251809	200.000	175.42	80.00- 120.00	100.00
1.716	1.716 (0.315)	52	391890			2.05- 62.05	31.31
23 Butane					CAS #: 106-97-8		
1.795	1.795 (0.329)	58	308755	200.000	189.89	80.00- 120.00	100.00
1.795	1.795 (0.329)	43	2394032			755.09- 815.09	775.38
25 Vinyl Chloride					CAS #: 75-01-4		
1.831	1.831 (0.336)	62	1387701	200.000	181.37	80.00- 120.00	100.00
1.831	1.831 (0.336)	64	400872			0.00- 59.41	28.89
26 1,3-Butadiene					CAS #: 106-99-0		
1.852	1.852 (0.340)	54	1297117	200.000	183.67	80.00- 120.00	100.00
1.852	1.852 (0.340)	39	1150794			59.70- 119.70	88.72
29 Bromomethane					CAS #: 74-83-9		
2.203	2.203 (0.404)	94	894597	200.000	178.51	80.00- 120.00	100.00
2.203	2.203 (0.404)	96	844937			63.82- 123.82	94.45
30 Chloroethane					CAS #: 75-00-3		
2.325	2.325 (0.426)	64	613752	200.000	178.11	80.00- 120.00	100.00
2.325	2.325 (0.426)	66	184545			0.16- 60.16	30.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.325	2.325 (0.426)	49	204647			3.29- 63.29	33.34
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	1753985	200.000	184.30	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	1201614			36.45- 96.45	68.51
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	3075342	200.000	177.92	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	1986561			33.91- 93.91	64.60
42 Ethanol					CAS #: 64-17-5		
2.898	2.898 (0.531)	45	604222	200.000	179.92	80.00- 120.00	100.00
2.898	2.898 (0.531)	43	112591			0.00- 47.60	18.63
2.898	2.898 (0.531)	46	243351			8.33- 68.33	40.28
49 Freon 113					CAS #: 76-13-1		
3.228	3.228 (0.592)	151	1920913	200.000	183.66	80.00- 120.00	100.00
3.228	3.228 (0.592)	153	1212599			33.05- 93.05	63.13
3.228	3.228 (0.592)	101	2393454			95.24- 155.24	124.60
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	701148	200.000	183.20	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	1098831			130.75- 190.75	156.72
3.249	3.249 (0.596)	61	2168850			284.15- 344.15	309.33
52 Acetone					CAS #: 67-64-1		
3.400	3.400 (0.623)	58	691315	200.000	181.37	80.00- 120.00	100.00
3.400	3.400 (0.623)	43	2087085			265.43- 325.43	301.90
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.639)	76	3079987	200.000	187.92	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.572	3.572 (0.655)	45	2641535	200.000	187.25	80.00- 120.00	100.00
3.572	3.572 (0.655)	43	448841			0.00- 46.95	16.99
3.572	3.572 (0.655)	59	105105			0.00- 33.74	3.98
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.684)	76	522183	200.000	182.43	80.00- 120.00	100.00
3.729	3.729 (0.684)	41	1931392			356.64- 416.64	369.87
66 Methylene Chloride					CAS #: 75-09-2		
3.915	3.915 (0.718)	49	1773836	200.000	176.50	80.00- 120.00	100.00
3.915	3.915 (0.718)	84	942070			22.55- 82.55	53.11
3.915	3.915 (0.718)	51	540354			0.62- 60.62	30.46

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

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.030   4.030 (0.739)    59   3071663 200.000   193.54  80.00- 120.00   100.00
  4.030   4.030 (0.739)    41    603826                    0.00-  50.19    19.66
  4.030   4.030 (0.739)    57    317700                    0.00-  40.22    10.34
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.130   4.130 (0.757)    73   3209211 200.000   179.49  80.00- 120.00   100.00
  4.130   4.130 (0.757)    57    988329                    0.85-  60.85    30.80
  4.130   4.130 (0.757)    41    859892                    0.00-  58.46    26.79
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.159   4.159 (0.762)    98    718208 200.000   182.32  80.00- 120.00   100.00
  4.159   4.159 (0.762)    61   1999418                  252.16- 312.16   278.39
  4.159   4.159 (0.762)    96   1149348                  127.62- 187.62   160.03
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.374   4.374 (0.802)    57   2473081 200.000   173.01  80.00- 120.00   100.00
  4.374   4.374 (0.802)    43   1548272                   34.48-  94.48    62.60
  4.374   4.374 (0.802)    86    288593                    0.00-  41.87    11.67
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.646   4.646 (0.852)    63   2457198 200.000   178.80  80.00- 120.00   100.00
  4.646   4.646 (0.852)    65    696532                    0.00-  58.87    28.35
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.850)    45   5385625 200.000   189.98  80.00- 120.00   100.00
  4.639   4.639 (0.850)    87   1040943                    0.00-  49.60    19.33
  4.639   4.639 (0.850)    59    575322                    0.00-  41.10    10.68
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.860)    86    334530 200.000   194.82  80.00- 120.00   100.00
  4.689   4.689 (0.860)    43   4859678                 2032.08-2092.08  1452.69
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.916)    59   4968679 200.000   193.33  80.00- 120.00   100.00
  4.997   4.997 (0.916)    87   1587707                    1.52-  61.52    31.95
  4.997   4.997 (0.916)    41    837905                    0.00-  47.53    16.86
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.226   5.226 (0.958)    98    819057 200.000   187.16  80.00- 120.00   100.00
  5.226   5.226 (0.958)    96   1302544                  130.68- 190.68   159.03
  5.226   5.226 (0.958)    61   2007535                  218.42- 278.42   245.10
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.248   5.248 (0.962)    72    618645 200.000   185.85  80.00- 120.00   100.00
  5.248   5.248 (0.962)    43   3273911                  505.18- 565.18   529.21
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

   92 2-Butanone (continued)
  5.248   5.248 (0.962)    57    271651                   13.03-  73.03    43.91
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.448   5.448 (0.999)    42   1862480 200.000   176.68  80.00- 120.00   100.00
  5.448   5.448 (0.999)    71    546987                    0.00-  59.69    29.37
  5.448   5.448 (0.999)    72    573572                    0.00-  59.70    30.80
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.520   5.520 (1.012)    83   2574198 200.000   180.97  80.00- 120.00   100.00
  5.520   5.520 (1.012)    85   1683517                   34.76-  94.76    65.40
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.627   5.627 (1.032)    84   1694866 200.000   187.15  80.00- 120.00   100.00
  5.627   5.627 (1.032)    56   2843730                  133.05- 193.05   167.78
  5.627   5.627 (1.032)    41   1361925                   49.59- 109.59    80.36
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.642   5.642 (1.034)    97   2766604 200.000   185.74  80.00- 120.00   100.00
  5.642   5.642 (1.034)    99   1777459                   34.17-  94.17    64.25
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.756   5.756 (1.055)   119   2908800 200.000   188.90  80.00- 120.00   100.00
  5.756   5.756 (1.055)   117   3027131                   75.20- 135.20   104.07
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.957   5.957 (1.092)    57   8545780 200.000   183.84  80.00- 120.00   100.00
  5.957   5.957 (1.092)    56   2774397                    3.38-  63.38    32.47
  5.957   5.957 (1.092)    41   1948181                    0.00-  53.72    22.80
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.971   5.971 (0.941)    78   3807643 200.000   179.40  80.00- 120.00   100.00
  5.971   5.971 (0.941)    77    869145                    0.00-  52.99    22.83
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.043   6.043 (0.953)    87    938338 200.000   193.71  80.00- 120.00   100.00
  6.043   6.043 (0.953)    73   3830892                  374.74- 434.74   408.26
  6.043   6.043 (0.953)    55   1283333                  108.16- 168.16   136.77
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.057   6.057 (0.955)    62   2009545 200.000   188.20  80.00- 120.00   100.00
  6.057   6.057 (0.955)    64    605305                    0.03-  60.03    30.12
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.129   6.129 (0.966)    71   1384094 200.000   164.90  80.00- 120.00   100.00
  6.129   6.129 (0.966)    43   3201169                  198.64- 258.64   231.28
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.129	6.129 (0.966)	57	1756424			94.82- 154.82	126.90
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	1815308	200.000	180.39	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	1868691			72.98- 132.98	102.94
6.537	6.537 (1.030)	97	1183249			33.56- 93.56	65.18
127 Methylcyclohexane					CAS #: 108-87-2		
6.637	6.637 (1.046)	83	2486593	200.000	186.54	80.00- 120.00	100.00
6.645	6.645 (1.047)	98	1172046			16.64- 76.64	47.13
6.637	6.637 (1.046)	55	2726416			81.85- 141.85	109.64
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.766 (1.067)	63	1826380	200.000	187.50	80.00- 120.00	100.00
6.766	6.766 (1.067)	62	1315569			41.08- 101.08	72.03
6.766	6.766 (1.067)	41	959174			22.96- 82.96	52.52
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.852 (1.080)	88	1018780	200.000	194.42	80.00- 120.00	100.00
6.852	6.852 (1.080)	58	901945			59.66- 119.66	88.53
6.852	6.852 (1.080)	57	286238			0.00- 57.34	28.10
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.103)	83	3084752	200.000	186.75	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	1966116			34.26- 94.26	63.74
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.161)	75	2711172	200.000	194.23	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	854153			2.22- 62.22	31.50
7.368	7.368 (1.161)	39	1486923			27.77- 87.77	54.84
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.475	7.475 (1.178)	58	1766648	200.000	188.14	80.00- 120.00	100.00
7.475	7.475 (1.178)	43	4387857			224.74- 284.74	248.37
7.475	7.475 (1.178)	85	598176			3.81- 63.81	33.86
147 Toluene					CAS #: 108-88-3		
7.604	7.604 (1.199)	91	5478882	200.000	186.17	80.00- 120.00	100.00
7.604	7.604 (1.199)	92	3149152			28.71- 88.71	57.48
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	2487224	200.000	186.48	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	774611			1.83- 61.83	31.14
7.841	7.841 (0.893)	39	1314755			23.84- 83.84	52.86

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

  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.998   7.998 (0.911)    97   1905932 200.000   179.93  80.00- 120.00   100.00
  7.998   7.998 (0.911)    99   1162637                   31.26-  91.26    61.00
  7.998   7.998 (0.911)    83   1628806                   55.61- 115.61    85.46
-------------------------------------------------------------------------------
  156 Tetrachloroethene                            CAS #: 127-18-4
  8.041   8.041 (0.916)   166   2584641 200.000   181.42  80.00- 120.00   100.00
  8.041   8.041 (0.916)   129   1974737                   46.18- 106.18    76.40
  8.041   8.041 (0.916)   131   1912273                   43.79- 103.79    73.99
-------------------------------------------------------------------------------
  158 2-Hexanone                                   CAS #: 591-78-6
  8.163   8.163 (0.930)    58   2465816 200.000   191.96  80.00- 120.00   100.00
  8.163   8.163 (0.930)    43   4389579                  148.17- 208.17   178.02
  8.163   8.163 (0.930)   100    400066                    0.00-  45.64    16.22
-------------------------------------------------------------------------------
  160 Dibromochloromethane                         CAS #: 124-48-1
  8.306   8.306 (0.946)   129   3553652 200.000   188.85  80.00- 120.00   100.00
  8.306   8.306 (0.946)   127   2774336                   47.19- 107.19    78.07
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                      CAS #: 106-93-4
  8.421   8.421 (0.959)   107   2992679 200.000   185.85  80.00- 120.00   100.00
  8.421   8.421 (0.959)   109   2841706                   63.97- 123.97    94.96
-------------------------------------------------------------------------------
  165 Chlorobenzene                                CAS #: 108-90-7
  8.801   8.801 (1.002)   112   4608616 200.000   186.31  80.00- 120.00   100.00
  8.801   8.801 (1.002)   114   1444884                    2.01-  62.01    31.35
  8.801   8.801 (1.002)    77   2561174                   28.41-  88.41    55.57
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                CAS #: 100-41-4
  8.851   8.851 (1.008)   106   2447278 200.000   185.88  80.00- 120.00   100.00
  8.851   8.851 (1.008)    91   7647675                  279.43- 339.43   312.50
-------------------------------------------------------------------------------
  169 m,p-Xylene                                   CAS #: 108-38-3
  8.951   8.951 (1.020)   106   2986898 200.000   184.58  80.00- 120.00   100.00
  8.951   8.951 (1.020)    91   6046797                  168.86- 228.86   202.44
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.288   9.288 (1.058)   106   2823307 200.000   187.04  80.00- 120.00   100.00
  9.288   9.288 (1.058)    91   6064526                  184.06- 244.06   214.80
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.309   9.309 (1.060)   104   4752710 200.000   188.01  80.00- 120.00   100.00
  9.309   9.309 (1.060)    78   2326196                   19.31-  79.31    48.94
-------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.503   9.503 (1.082)   173   3499772 200.000   191.67  80.00- 120.00   100.00
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                                          AMOUNTS
                                       CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  174 Bromoform (continued)
  9.503   9.503 (1.082)   171   1774496                    21.41-  81.41    50.70
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.574   9.574 (1.091)   105   9005863 200.000   185.64  80.00- 120.00   100.00
  9.581   9.581 (1.091)   120   2400056                     0.00-  56.55    26.65
  9.574   9.574 (1.091)    51   1029900                     0.00-  41.64    11.44
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.882   9.882 (1.126)    83   4410706 200.000   184.04  80.00- 120.00   100.00
  9.882   9.882 (1.126)    85   2821064                    34.71-  94.71    63.96
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.925   9.925 (1.131)    91  10867633 200.000   186.57  80.00- 120.00   100.00
  9.925   9.925 (1.131)   120   2523486                     0.00-  53.35    23.22
  9.925   9.925 (1.131)   105    397607                     0.00-  33.65     3.66
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.018  10.018 (1.141)   120   2764452 200.000   186.36  80.00- 120.00   100.00(H)
 10.018  10.018 (1.141)   105   9677763                   299.74- 359.74   350.08
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.068  10.068 (1.147)   120   3867560 200.000   191.08  80.00- 120.00   100.00
 10.068  10.068 (1.147)   105   7690278                   181.68- 241.68   198.84
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.398  10.398 (1.184)   120   3435453 200.000   184.69  80.00- 120.00   100.00
 10.398  10.398 (1.184)   105   7648961                   188.33- 248.33   222.65
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.685  10.685 (1.217)   146   5103409 200.000   187.84  80.00- 120.00   100.00
 10.685  10.685 (1.217)   148   3260730                    33.11-  93.11    63.89
 10.685  10.685 (1.217)   111   2090655                    10.85-  70.85    40.97
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.763  10.763 (1.226)   146   5199685 200.000   188.28  80.00- 120.00   100.00
 10.763  10.763 (1.226)   148   3314966                    33.69-  93.69    63.75
 10.763  10.763 (1.226)   111   2045709                     9.80-  69.80    39.34
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.878  10.878 (1.239)    91   7559830 200.000   198.93  80.00- 120.00   100.00
 10.878  10.878 (1.239)   126   1580589                     0.00-  51.03    20.91
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.093  11.093 (1.264)   146   4940083 200.000   185.59  80.00- 120.00   100.00
 11.093  11.093 (1.264)   148   3116461                    33.72-  93.72    63.09
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  214 1,2-Dichlorobenzene (continued)
 11.093  11.093 (1.264)   111   2099042                   12.82-  72.82    42.49
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.497  12.497 (1.423)   180   4590934 200.000   213.05  80.00- 120.00   100.00(A)
 12.497  12.497 (1.423)   182   4412462                   65.12- 125.12    96.11
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.590  12.590 (1.434)   225   3730578 200.000   201.81  80.00- 120.00   100.00(A)
 12.590  12.590 (1.434)   223   2380620                   32.73-  92.73    63.81
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.762  12.762 (1.454)   128   1038764 20.0000   22.993  80.00- 120.00   100.00
 12.762  12.762 (1.454)   127    129677                    0.00-  42.37    12.48
-------------------------------------------------------------------------------
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QC Flag Legend

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

Report Date: 23-Feb-2015 08:00

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p021716.d
Lab Smp Id: ICAL Level #8
Analysis Type: VOA
Quant Type: ISTD
Operator: gd
Method File: /chem/msdp.i/17feb15.b/p15q0217a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 17-FEB-2015
Calibration Time: 18:19
Client Smp ID: ICAL Level #8
Level: LOW
Sample Type: AIR

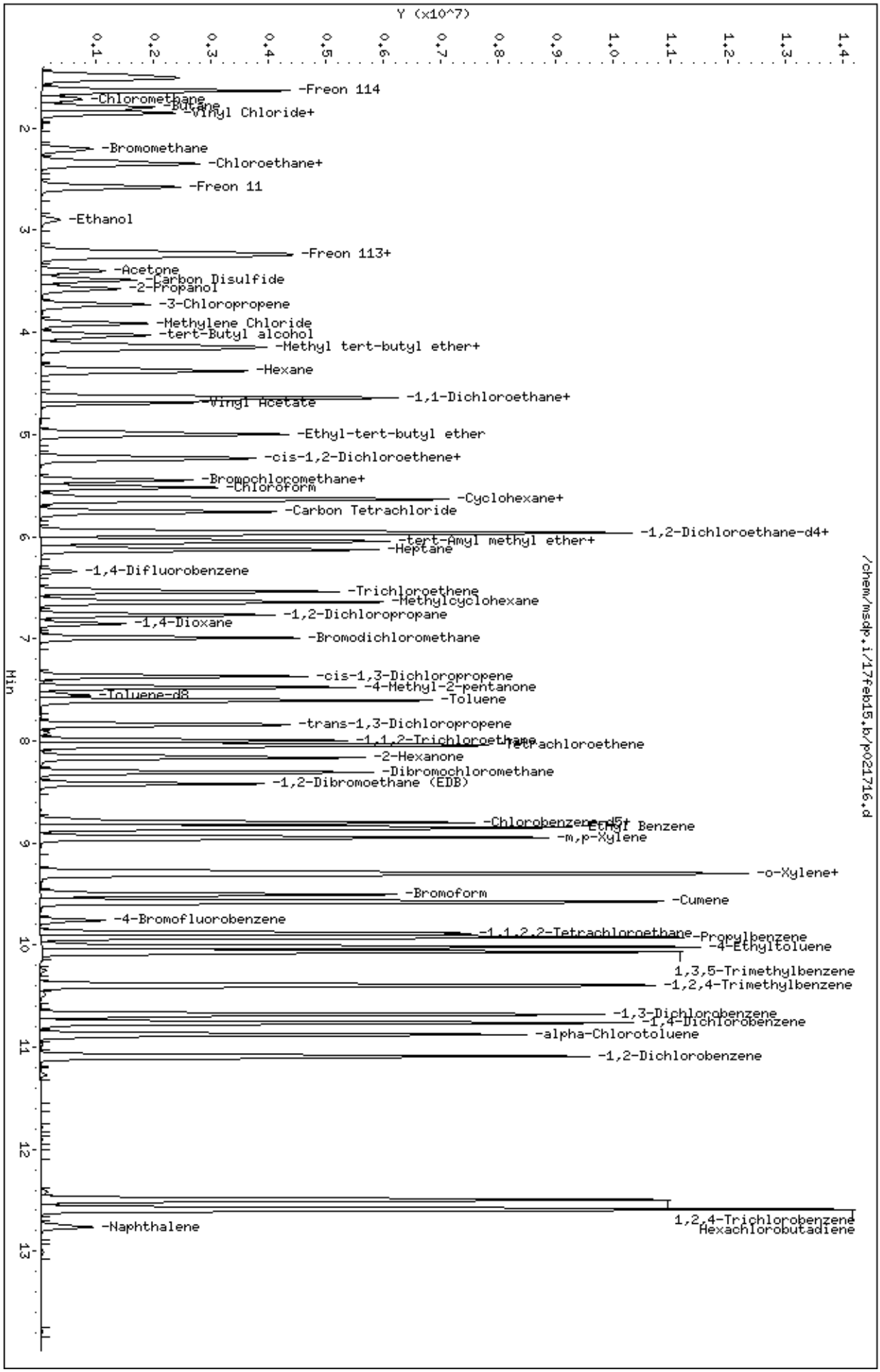
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128502	77101	179903	123273	-4.07
123 1,4-Difluorobenze	592591	355555	829627	552985	-6.68
163 Chlorobenzene-d5	606914	364148	849680	576368	-5.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.44	5.11	5.77	5.46	0.27
123 1,4-Difluorobenze	6.32	5.99	6.65	6.34	0.34
163 Chlorobenzene-d5	8.74	8.41	9.07	8.78	0.41

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

Data File: /chem/msdp.i/17feb15.b/p021716.d
Date : 17-FEB-2015 19:06
Client ID: ICAL Level #8
Sample Info: 200ml #2716-57
Column phase: RTX-624

Instrument: msdp.i
Operator: gd
Column diameter: 0.25



Page 1

Report Date : 20-Feb-2015 09:48

0.5 ppbv RL

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

2417-58 5.0ppbv = 20mL

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

MDL verification at 0.25 ppbv
(50mL of # 2714-65 [1.00 ppbv]

P022007

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	p021808	p021809	p021810	p021811	p021812	p021813	p021814	p021815
INJ.DATE:	18-FEB-2015	18-FEB-2015	18-FEB-2015	18-FEB-2015	18-FEB-2015	18-FEB-2015	18-FEB-2015	18-FEB-2015
INJ.TIME:	15:44	16:08	16:32	16:55	17:19	17:43	18:06	18:30

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	~~RL PPTV~~ RL 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	601.99	580.40	609.07	651.78	588.88	661.72	607.48	565.48	608.35	33.33	99.91	500	0.5
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
15 Freon 114	587.18	614.35	621.88	606.48	683.63	578.14	556.67	574.59	602.86	39.32	117.87	500	0.5
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Reviewer 1 Megan Dickerson Date: 2/23/15
Reviewer 2 [illegible] Date: 2/24/15

The ratio of the mean recovered conc and the MDL value is btwn 1+20 for all compounds.

$\bar{X}$ = ~~129.0251~~ 120.9421 PPTV
2/24/14

$\bar{X}$ = ~~0.1290251~~ 0.1209421 PPBV
2/24/14

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPbV
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
25 Vinyl Chloride	674.37	547.94	762.47	572.66	550.76	555.02	545.89	518.62	590.97	83.44	250.14	500	
26 1,3-Butadiene	745.66	545.65	621.89	688.13	592.87	569.72	663.31	547.44	621.84	72.05	216.02	500	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
35 Freon 11	661.28	578.82	594.64	568.94	546.87	577.47	624.38	542.38	586.85	39.75	119.16	500	
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL ppbv	RL PPTV	RL ppbv
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	687.59	592.83	574.15	589.50	604.75	687.22	580.89	549.92	608.36	51.34	153.91	500	0.5
50 1,1-Dichloroethene	643.82	570.75	542.90	569.43	637.47	564.03	570.59	500.27	574.91	46.97	140.81	500	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: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPBV
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	602.83	617.57	590.56	600.14	590.82	579.93	578.40	584.70	593.12	13.17	39.49	500	0.5
73 trans-1,2-Dichloroethe	573.49	621.06	664.64	606.14	619.33	786.23	738.62	516.16	640.71	87.35	261.87	500	0.5
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
78 Hexane	578.76	552.06	638.87	578.57	627.70	519.98	676.20	580.57	594.09	50.42	151.15	500	0.5
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
82 1,1-Dichloroethane	551.75	640.47	555.55	592.44	661.62	572.00	596.24	625.73	599.48	40.10	120.21	500	0.5
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL ~~PPbV~~ PPTV	RL PPbV
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
91 cis-1,2-Dichloroethene	622.39	657.41	727.89	647.47	590.47	679.32	665.97	638.86	653.72	40.64	121.84	500	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	654.42	681.94	607.25	672.92	702.13	771.49	611.76	592.27	661.77	59.23	177.57	500	0.5
100 Chloroform	675.67	616.11	645.87	615.64	671.38	625.45	603.36	622.95	634.55	26.89	80.63	500	0.5
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
102 Cyclohexane	536.63	557.00	755.45	751.22	545.93	640.67	573.36	508.52	608.60	97.07	291.02	500	0.5
103 1,1,1-Trichloroethane	579.26	580.00	594.28	619.47	687.17	619.23	570.36	595.51	605.66	37.52	112.48	500	0.5
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
106 Carbon Tetrachloride	577.39	639.60	568.85	680.72	690.66	676.77	635.83	569.91	629.97	51.67	154.89	500	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: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPbV
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
113 2,2,4-Trimethylpentane	630.75	616.66	647.57	659.17	628.08	679.62	654.88	613.31	641.25	22.95	68.81	500	0.5
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
116 Benzene	657.35	570.30	643.86	555.14	586.11	628.74	597.93	625.32	608.09	36.35	108.96	500	0.5
$ 117 1,2-Dichloroethane-d4	24680.00	24477.80	24569.22	25076.27	24793.82	25622.09	25138.82	23920.52	24784.82	508.51	1524.53		
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
120 1,2-Dichloroethane	600.41	625.27	657.26	633.77	630.27	651.61	612.02	543.23	619.23	35.95	107.77	500	0.5
121 Heptane	699.23	635.47	563.37	495.47	515.20	494.97	551.68	551.37	563.35	71.26	213.63	500	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	613.07	605.43	703.43	606.22	721.42	689.23	615.26	618.61	646.58	49.08	147.13	500	0.5
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
132 1,2-Dichloropropane	657.63	627.08	649.85	621.30	616.88	547.25	622.57	633.84	622.05	33.43	100.24	500	0.5
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPBV
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
138 Bromodichloromethane	645.94	613.00	652.19	656.02	600.23	576.10	557.48	609.56	613.82	36.03	108.01	500	0.5
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
144 cis-1,3-Dichloropropen	639.34	679.09	618.00	658.19	637.94	591.99	661.30	596.10	635.24	31.29	93.80	500	0.5
145 4-Methyl-2-pentanone	591.51	732.72	617.82	595.14	651.17	581.58	595.04	537.84	612.85	58.01	173.90	500	0.5
$ 146 Toluene-d8	24496.68	24647.95	25181.27	24551.25	25003.23	24631.86	25253.62	25238.41	24875.53	326.07	977.57	~	
147 Toluene	591.30	701.93	677.39	642.41	714.90	650.04	668.43	645.62	661.50	38.66	115.90	500	0.5
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
150 trans-1,3-Dichloroprop	673.18	689.58	634.94	685.47	666.85	702.94	656.04	626.58	666.95	26.63	79.83	500	0.5
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
155 1,1,2-Trichloroethane	586.79	591.56	705.11	656.00	540.36	604.30	603.71	576.81	608.08	50.76	152.17	500	0.5
156 Tetrachloroethene	538.12	613.87	582.59	576.75	660.11	574.50	677.47	543.77	595.90	50.93	152.69	500	0.5
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL ppbv
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
160 Dibromochloromethane	608.79	582.09	627.97	606.14	608.06	651.00	638.27	611.82	616.77	21.51	64.49	500	0.5
161 1,2-Dibromoethane (EDB	536.68	613.57	598.25	611.39	604.66	600.36	682.27	620.09	608.41	39.56	118.60	500	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	606.75	622.09	602.83	552.68	624.70	627.70	619.17	618.00	609.24	24.40	73.15	500	0.5
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
167 Ethyl Benzene	626.80	605.62	652.03	550.36	651.50	563.72	577.13	533.55	595.09	45.73	137.09	500	0.5
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
169 m,p-Xylene	565.31	579.91	633.34	573.91	568.38	557.63	600.08	553.63	579.03	26.25	78.70	500	0.5
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
171 o-Xylene	613.54	593.41	580.72	583.44	642.56	594.76	574.30	546.66	591.17	28.27	84.75	500	0.5
172 Styrene	597.26	531.10	611.15	567.72	573.34	545.10	551.54	588.87	570.76	27.46	82.33	500	0.5
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
174 Bromoform	611.90	595.21	615.86	591.06	633.02	620.16	642.00	553.17	607.80	27.94	83.75	500	0.5
175 Cumene	607.05	609.50	631.93	597.28	647.97	593.79	585.79	589.43	607.84	21.80	65.37	500	0.5
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 177 4-Bromofluorobenzene	25021.28	25101.25	25104.61	24817.28	25233.23	25063.72	25471.67	25607.06	25177.51	254.22	762.16		
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
181 1,1,2,2-Tetrachloroeth	616.20	592.03	632.47	643.74	609.17	597.01	619.85	609.11	614.95	17.22	51.63	500	0.5
182 Propylbenzene	641.52	623.64	619.35	593.74	614.38	640.65	606.51	590.55	616.29	19.14	57.37	500	0.5

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPBV
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	625.33	640.50	636.21	634.11	625.62	690.53	659.68	487.47	624.93	59.59	178.66	500	0.5
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
190 1,3,5-Trimethylbenzene	589.91	588.10	607.55	589.56	615.28	595.16	575.10	560.44	590.14	17.21	51.59	500	0.5
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
196 1,2,4-Trimethylbenzene	533.67	649.85	581.16	551.57	613.02	628.64	595.44	608.87	595.28	38.72	116.09	500	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: /chem1/msdp.i/18feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/18feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL PPTV	RL PPTV	RL PPBV
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
208 1,3-Dichlorobenzene	588.49	655.30	703.54	634.30	652.20	640.92	635.02	633.18	642.87	31.88	95.57	500	0.5
209 1,4-Dichlorobenzene	658.78	732.78	648.28	670.53	664.47	624.89	608.84	602.49	651.38	41.63	124.80	500	0.5
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
212 alpha-Chlorotoluene	727.03	619.14	671.28	596.28	626.63	603.32	630.46	552.04	628.27	52.30	156.81	500	0.5
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
214 1,2-Dichlorobenzene	677.93	678.99	640.30	665.19	642.69	608.77	580.34	631.30	640.69	34.24	102.66	500	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Report Date : 20-Feb-2015 15:41

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

2.0 ppbv RL

#2617-58 5.0 ppbv = 80mL

MDL verification at ~~0.25~~ 0.75 ppbv 2/23/15

050mL of #2716-65 [1.0 ppbv]

P022008

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
FILENAME:	p021907	p021908	p021909	p021910	p021911	p021912	p021913
INJ.DATE:	19-FEB-2015	19-FEB-2015	19-FEB-2015	19-FEB-2015	19-FEB-2015	19-FEB-2015	19-FEB-2015
INJ.TIME:	11:51	12:14	12:37	13:01	13:24	13:48	14:11

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL ppbv	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	1956.87	1894.66	1980.09	2501.23	1890.30	2285.67	2105.32	2087.74	229.29	720.65	2000
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	1974.60	2067.76	2161.82	2286.12	2017.71	2063.84	2047.12	2088.42	104.22	327.55	2000

ω 4/24/15

Reviewer 1 Meggy Dickerson Date: 2/23/15
Reviewer 2 [illegible] Date: 4/24/15

$\bar{X}$ = 357.9004 ppTV

$\bar{X}$ = 0.3579004 ppbv

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL PPTV	RL PPTV
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	2239.77	1747.98	1656.39	1853.92	1865.99	1983.53	2191.34	1934.13	217.90	684.86	2000
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	1748.15	1930.64	1850.15	2019.18	1678.29	1820.42	1713.16	1822.85	122.08	383.70	2000
30 Chloroethane	1980.62	2076.20	1953.60	2154.70	2149.71	1933.12	2245.35	2070.47	118.73	373.18	2000
31 Isopentane	2015.88	2072.01	2021.79	1789.40	1859.13	1828.23	1872.30	1922.68	111.11	349.21	2000
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: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL PPTV	RL PPTV
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	1884.47	2078.86	1993.70	2097.57	1830.81	1929.76	1958.73	1967.70	97.54	306.57	2000
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	1898.68	1900.41	1803.46	2168.99	2019.21	2095.79	1860.60	1963.88	133.68	420.14	2000
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	1842.77	1766.73	1930.26	1837.44	1739.08	1877.42	1742.09	1819.40	72.72	228.56	2000
57 2-Propanol	1666.57	1755.82	1695.58	1632.23	1749.94	1822.32	1588.55	1701.57	80.32	252.44	2000
58 3-Chloropropene	1639.13	1806.66	1879.26	1696.71	1753.77	1415.94	1687.87	1697.05	147.70	464.23	2000
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL PPTV	RL PPTV
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	1718.65	1855.46	1853.38	1763.03	1796.94	1862.88	1788.18	1805.50	54.47	171.19	2000
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	1686.05	1811.42	1603.67	1726.04	1701.80	1686.03	1758.91	1710.56	65.13	204.71	2000
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	1685.22	1821.33	1762.16	1721.58	1819.93	1836.01	1801.77	1778.29	57.16	179.67	2000
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	2155.27	1612.29	2098.63	1492.75	1680.55	1606.63	1718.44	1766.37	256.72	806.86	2000

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL PPTV	RL PPTV
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	1672.05	1850.40	1891.86	1774.98	1904.68	1743.99	1705.21	1791.88	91.83	288.62	2000
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
92 2-Butanone	1844.10	1431.47	1465.16	1638.21	1824.82	1661.64	1636.63	1643.15	158.26	497.43	2000
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	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: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	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	23983.24	24454.81	24868.77	24609.58	23949.32	25053.62	24663.39	24511.82	418.84	1316.40	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	1631.57	1870.95	1899.56	1796.43	1569.28	1803.10	1774.69	1763.65	121.08	380.56	2000
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	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	1686.63	1769.12	1781.08	1708.45	1846.39	1606.05	1747.70	1735.06	76.95	241.86	2000
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: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL ppbv	RL pptv
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	2002.60	1979.40	1848.03	1883.64	1749.25	1548.89	1613.36	1803.60	174.60	548.77	
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	25176.94	25506.48	25497.15	26057.91	25717.77	25574.59	24635.15	25452.28	447.34	1406.00	
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	1608.97	1674.94	1650.85	1747.97	1744.61	1668.54	1526.89	1660.39	77.03	242.10	200U

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL ppbv
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	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	25512.27	25549.07	25832.20	24958.33	25203.77	24595.77	25040.97	25241.77	419.45	1318.33
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
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Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL ppbv
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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Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	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	2224.48	2132.59	2183.47	2133.67	2183.10	2109.30	1940.89	2129.64	92.03	289.24	2000
227 Hexachlorobutadiene	1953.76	1992.36	2082.13	1918.38	1965.46	1927.44	1977.38	1973.84	54.44	171.11	2000
228 Naphthalene	183.04	190.01	196.26	182.20	179.84	180.93	148.33	180.09	15.18	47.71	2000
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL PETN
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: /chem1/msdp.i/19feb15.b/p15q0217a.m
Batch File: /chem1/msdp.i/19feb15.b
Inst ID: msdp.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	AVG CONC	STD DEV	MDL RPV
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Client Sample ID: CCV

Lab ID#: 1503058H-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/15 09:40 AM**	

Compound	**%Recovery**
2-Propanol	87

Container Type: NA - Not Applicable

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

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 09-MAR-2015 09:40
Lab File ID: p030902.d Init. Cal. Date(s): 17-FEB-2015 17-FEB-2015
Analysis Type: AIR Init. Cal. Times: 15:53 19:06
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/09mar15.b/p15q0217a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	%D / %DRIFT	MAX	CURVE TYPE
$ 117 1,2-Dichloroethane-d4	1.55752	1.57713	0.010	-1.25925	30.00000		Averaged
$ 146 Toluene-d8	1.11280	1.11123	0.010	0.14104	30.00000		Averaged
$ 177 4-Bromofluorobenzene	0.62147	0.62616	0.010	-0.75410	30.00000		Averaged
9 Propylene	1.30171	1.14999	0.010	11.65544	30.00000		Averaged
11 Freon 12	3.57946	3.10520	0.010	13.24947	30.00000		Averaged
15 Freon 114	2.57822	2.26083	0.010	12.31040	30.00000		Averaged
17 Chloromethane	1.44720	1.26592	0.010	12.52573	30.00000		Averaged
23 Butane	0.32975	0.31319	0.010	5.02377	30.00000		Averaged
25 Vinyl Chloride	1.55170	1.36098	0.010	12.29116	30.00000		Averaged
26 1,3-Butadiene	1.43226	1.25522	0.010	12.36096	30.00000		Averaged
29 Bromomethane	1.01633	0.93621	0.010	7.88362	30.00000		Averaged
30 Chloroethane	0.69885	0.61030	0.010	12.67136	30.00000		Averaged
31 Isopentane	1.93005	1.67921	0.010	12.99627	40.00000		Averaged
35 Freon 11	3.50541	3.03753	0.010	13.34749	30.00000		Averaged
42 Ethanol	0.68108	0.57389	0.010	15.73896	30.00000		Averaged
49 Freon 113	2.12115	1.90286	0.010	10.29114	30.00000		Averaged
50 1,1-Dichloroethene	0.77616	0.69624	0.010	10.29742	30.00000		Averaged
52 Acetone	0.77300	0.70895	0.010	8.28559	30.00000		Averaged
56 Carbon Disulfide	3.32398	3.10230	0.010	6.66926	30.00000		Averaged
57 2-Propanol	2.86097	2.49274	0.010	12.87100	30.00000		Averaged
58 3-Chloropropene	0.58050	0.52527	0.010	9.51462	30.00000		Averaged
66 Methylene Chloride	2.03814	1.76425	0.010	13.43798	30.00000		Averaged
71 tert-Butyl alcohol	3.21859	2.94114	0.010	8.62043	30.00000		Averaged
72 Methyl tert-butyl ether	3.62608	3.12491	0.010	13.82128	30.00000		Averaged
73 trans-1,2-Dichloroethene	0.79890	0.72291	0.010	9.51178	30.00000		Averaged
78 Hexane	2.89894	2.41662	0.010	16.63794	30.00000		Averaged
82 1,1-Dichloroethane	2.78699	2.50664	0.010	10.05896	30.00000		Averaged
83 Isopropyl ether	5.74914	5.11630	0.010	11.00764	30.00000		Averaged
86 Vinyl Acetate	0.34823	0.32044	0.010	7.98064	40.00000		Averaged
88 Ethyl-tert-butyl ether	5.21198	4.72586	0.010	9.32710	40.00000		Averaged
91 cis-1,2-Dichloroethene	0.88751	0.80628	0.010	9.15320	30.00000		Averaged
92 2-Butanone	0.67507	0.58665	0.010	13.09791	30.00000		Averaged
99 Tetrahydrofuran	2.13778	1.72405	0.010	19.35312	30.00000		Averaged
100 Chloroform	2.88474	2.49117	0.010	13.64303	30.00000		Averaged
102 Cyclohexane	1.83658	1.66942	0.010	9.10181	30.00000		Averaged
103 1,1,1-Trichloroethane	3.02070	2.70609	0.010	10.41509	30.00000		Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 09-MAR-2015 09:40
Lab File ID: p030902.d Init. Cal. Date(s): 17-FEB-2015 17-FEB-2015
Analysis Type: AIR Init. Cal. Times: 15:53 19:06
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/09mar15.b/p15q0217a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	3.12293	2.79359	0.010	10.54565	30.00000	Averaged
113 2,2,4-Trimethylpentane	9.42702	8.11989	0.010	13.86582	30.00000	Averaged
116 Benzene	0.95952	0.83366	0.010	13.11718	30.00000	Averaged
119 tert-Amyl methyl ether	0.21899	0.20419	0.010	6.76242	30.00000	Averaged
120 1,2-Dichloroethane	0.48274	0.44124	0.010	8.59752	30.00000	Averaged
121 Heptane	0.37946	0.30815	0.010	18.79396	30.00000	Averaged
125 Trichloroethene	0.45496	0.39022	0.010	14.23020	30.00000	Averaged
127 Methylcyclohexane	0.60263	0.54158	0.010	10.13087	30.00000	Averaged
132 1,2-Dichloropropane	0.44037	0.39715	0.010	9.81495	30.00000	Averaged
136 1,4-Dioxane	0.23691	0.20973	0.010	11.47234	30.00000	Averaged
138 Bromodichloromethane	0.74677	0.65159	0.010	12.74574	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.63105	0.56456	0.010	10.53587	30.00000	Averaged
145 4-Methyl-2-pentanone	0.42452	0.34817	0.010	17.98471	30.00000	Averaged
147 Toluene	1.33050	1.14295	0.010	14.09620	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.57854	0.51380	0.010	11.18961	30.00000	Averaged
155 1,1,2-Trichloroethane	0.45945	0.39769	0.010	13.44186	30.00000	Averaged
156 Tetrachloroethene	0.61793	0.53818	0.010	12.90570	30.00000	Averaged
158 2-Hexanone	0.55718	0.47076	0.010	15.51039	30.00000	Averaged
160 Dibromochloromethane	0.81619	0.72587	0.010	11.06592	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.69845	0.61597	0.010	11.80915	30.00000	Averaged
165 Chlorobenzene	1.07291	0.94319	0.010	12.09034	30.00000	Averaged
167 Ethyl Benzene	0.57108	0.49272	0.010	13.72212	30.00000	Averaged
169 m,p-Xylene	0.70190	0.61201	0.010	12.80598	30.00000	Averaged
171 o-Xylene	0.65475	0.57575	0.010	12.06570	30.00000	Averaged
172 Styrene	1.09648	0.92631	0.010	15.51995	30.00000	Averaged
174 Bromoform	0.79202	0.70395	0.010	11.11962	30.00000	Averaged
175 Cumene	2.10417	1.84779	0.010	12.18421	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	1.03951	0.90620	0.010	12.82445	30.00000	Averaged
182 Propylbenzene	2.52653	2.18862	0.010	13.37448	30.00000	Averaged
188 4-Ethyltoluene	0.64344	0.55981	0.010	12.99642	30.00000	Averaged
190 1,3,5-Trimethylbenzene	0.87794	0.77713	0.010	11.48247	30.00000	Averaged
196 1,2,4-Trimethylbenzene	0.80681	0.68829	0.010	14.68991	30.00000	Averaged
208 1,3-Dichlorobenzene	1.17844	1.04133	0.010	11.63485	30.00000	Averaged
209 1,4-Dichlorobenzene	1.19787	1.04449	0.010	12.80441	30.00000	Averaged
212 alpha-Chlorotoluene	1.64837	1.44874	0.010	12.11085	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdp.i Injection Date: 09-MAR-2015 09:40
Lab File ID: p030902.d Init. Cal. Date(s): 17-FEB-2015 17-FEB-2015
Analysis Type: AIR Init. Cal. Times: 15:53 19:06
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msdp.i/09mar15.b/p15q0217a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
214 1,2-Dichlorobenzene	1.15458	1.00400	0.010	13.04182	30.00000	Averaged
226 1,2,4-Trichlorobenzene	0.93465	0.87671	0.010	6.20002	30.00000	Averaged
227 Hexachlorobutadiene	0.80181	0.72678	0.010	9.35780	30.00000	Averaged
228 Naphthalene	1.95955	1.86029	0.010	5.06509	40.00000	Averaged

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030902.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 09-MAR-2015 09:40
Operator : js Inst ID: msdp.i
Smp Info : 50ml #2716-57
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /var/chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 10:10 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 2 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	
5.448	5.448 (1.000)	130	128772	25.0000		80.00- 120.00	100.00
5.448	5.448 (1.000)	128	98856			48.50- 108.50	76.77
5.448	5.448 (1.000)	49	227036			157.33- 217.33	176.31
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.337	6.337 (1.000)	114	577007	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	89174			0.00- 45.39	15.45
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.779	8.779 (1.000)	117	578664	25.0000		80.00- 120.00	100.00
8.779	8.779 (1.000)	82	324409			24.18- 84.18	56.06
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.099)	65	203090	25.0000	25.315	80.00- 120.00	100.00
5.986	5.986 (1.099)	67	115182			27.69- 87.69	56.71

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	
7.554	7.554 (1.192)	98	641189	25.0000	24.965	80.00- 120.00	100.00
7.554	7.554 (1.192)	70	66725			0.00- 41.30	10.41
7.554	7.554 (1.192)	100	419139			36.42- 96.42	65.37
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.761	9.761 (1.112)	174	362336	25.0000	25.188	80.00- 120.00	100.00
9.761	9.761 (1.112)	95	475776			101.88- 161.88	131.31
9.761	9.761 (1.112)	176	350968			68.14- 128.14	96.86
9 Propylene						CAS #: 115-07-1	
1.473	1.473 (0.270)	41	296173	50.0000	44.172	80.00- 120.00	100.00
1.473	1.473 (0.270)	42	201458			36.99- 96.99	68.02
1.473	1.473 (0.270)	39	194569			38.39- 98.39	65.69
11 Freon 12						CAS #: 75-71-8	
1.509	1.509 (0.277)	85	799726	50.0000	43.375	80.00- 120.00	100.00
1.509	1.509 (0.277)	87	262592			2.26- 62.26	32.84
15 Freon 114						CAS #: 76-14-2	
1.631	1.631 (0.299)	135	582263	50.0000	43.845	80.00- 120.00	100.00
1.631	1.631 (0.299)	137	179880			1.88- 61.88	30.89
17 Chloromethane						CAS #: 74-87-3	
1.709	1.709 (0.314)	50	326031	50.0000	43.737	80.00- 120.00	100.00
1.709	1.709 (0.314)	52	108030			2.05- 62.05	33.13
23 Butane						CAS #: 106-97-8	
1.788	1.788 (0.328)	58	80659	50.0000	47.488	80.00- 120.00	100.00
1.788	1.788 (0.328)	43	587974			755.09- 815.09	728.96
25 Vinyl Chloride						CAS #: 75-01-4	
1.824	1.824 (0.335)	62	350512	50.0000	43.854	80.00- 120.00	100.00
1.824	1.824 (0.335)	64	104354			0.00- 59.41	29.77
26 1,3-Butadiene						CAS #: 106-99-0	
1.853	1.853 (0.340)	54	323274	50.0000	43.820	80.00- 120.00	100.00
1.853	1.853 (0.340)	39	272420			59.70- 119.70	84.27
29 Bromomethane						CAS #: 74-83-9	
2.204	2.204 (0.404)	94	241114	50.0000	46.058	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	220993			63.82- 123.82	91.65
30 Chloroethane						CAS #: 75-00-3	
2.318	2.318 (0.425)	64	157179	50.0000	43.664	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	46943			0.16- 60.16	29.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	51767			3.29- 63.29	32.94
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.431)	43	432471	50.0000	43.502	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	307340			36.45- 96.45	71.07
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.473)	101	782297	50.0000	43.326	80.00- 120.00	100.00
2.576	2.576 (0.473)	103	507202			33.91- 93.91	64.83
42 Ethanol					CAS #: 64-17-5		
2.891	2.891 (0.531)	45	147801	50.0000	42.130	80.00- 120.00	100.00
2.891	2.891 (0.531)	43	28626			0.00- 47.60	19.37
2.898	2.898 (0.532)	46	58087			8.33- 68.33	39.30
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.591)	151	490070	50.0000	44.854	80.00- 120.00	100.00
3.221	3.221 (0.591)	153	312937			33.05- 93.05	63.86
3.221	3.221 (0.591)	101	605996			95.24- 155.24	123.65
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	179312	50.0000	44.851	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	283861			130.75- 190.75	158.31
3.249	3.249 (0.596)	61	543266			284.15- 344.15	302.97
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.623)	58	182587	50.0000	45.857	80.00- 120.00	100.00
3.393	3.393 (0.623)	43	544833			265.43- 325.43	298.40
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.640)	76	798978	50.0000	46.665	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.565	3.565 (0.654)	45	641989	50.0000	43.564	80.00- 120.00	100.00
3.565	3.565 (0.654)	43	114388			0.00- 46.95	17.82
3.565	3.565 (0.654)	59	24694			0.00- 33.74	3.85
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.684)	76	135280	50.0000	45.243	80.00- 120.00	100.00
3.729	3.729 (0.684)	41	472262			356.64- 416.64	349.10
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.717)	49	454373	50.0000	43.281	80.00- 120.00	100.00
3.908	3.908 (0.717)	84	244504			22.55- 82.55	53.81
3.908	3.908 (0.717)	51	139248			0.62- 60.62	30.65

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

   71 tert-Butyl alcohol                            CAS #: 75-65-0
  4.030   4.030 (0.740)    59    757472 50.0000   45.690  80.00- 120.00   100.00
  4.030   4.030 (0.740)    41    153261                    0.00-  50.19    20.23
  4.030   4.030 (0.740)    57     74097                    0.00-  40.22     9.78
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                       CAS #: 1634-04-4
  4.130   4.130 (0.758)    73    804801 50.0000   43.089  80.00- 120.00   100.00
  4.130   4.130 (0.758)    57    252361                    0.85-  60.85    31.36
  4.130   4.130 (0.758)    41    214266                    0.00-  58.46    26.62
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                      CAS #: 156-60-5
  4.159   4.159 (0.763)    98    186181 50.0000   45.244  80.00- 120.00   100.00
  4.152   4.152 (0.762)    61    507289                  252.16- 312.16   272.47
  4.159   4.159 (0.763)    96    294653                  127.62- 187.62   158.26
-------------------------------------------------------------------------------
   78 Hexane                                        CAS #: 110-54-3
  4.374   4.374 (0.803)    57    622386 50.0000   41.681  80.00- 120.00   100.00
  4.374   4.374 (0.803)    43    381807                   34.48-  94.48    61.35
  4.374   4.374 (0.803)    86     71848                    0.00-  41.87    11.54
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                            CAS #: 75-34-3
  4.646   4.646 (0.853)    63    645571 50.0000   44.970  80.00- 120.00   100.00
  4.646   4.646 (0.853)    65    180997                    0.00-  58.87    28.04
-------------------------------------------------------------------------------
   83 Isopropyl ether                               CAS #: 108-20-3
  4.639   4.639 (0.851)    45   1317672 50.0000   44.496  80.00- 120.00   100.00
  4.639   4.639 (0.851)    87    259114                    0.00-  49.60    19.66
  4.639   4.639 (0.851)    59    144366                    0.00-  41.10    10.96
-------------------------------------------------------------------------------
   86 Vinyl Acetate                                 CAS #: 108-05-4
  4.689   4.689 (0.861)    86     82527 50.0000   46.010  80.00- 120.00   100.00
  4.689   4.689 (0.861)    43   1155813                 2032.08-2092.08  1400.53
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                        CAS #: 637-92-3
  4.997   4.997 (0.917)    59   1217116 50.0000   45.336  80.00- 120.00   100.00
  4.997   4.997 (0.917)    87    397953                    1.52-  61.52    32.70
  4.997   4.997 (0.917)    41    204952                    0.00-  47.53    16.84
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                        CAS #: 156-59-2
  5.226   5.226 (0.959)    98    207652 50.0000   45.423  80.00- 120.00   100.00
  5.226   5.226 (0.959)    96    324214                  130.68- 190.68   156.13
  5.219   5.219 (0.958)    61    510499                  218.42- 278.42   245.84
-------------------------------------------------------------------------------
   92 2-Butanone                                    CAS #: 78-93-3
  5.248   5.248 (0.963)    72    151088 50.0000   43.451  80.00- 120.00   100.00
  5.248   5.248 (0.963)    43    788362                  505.18- 565.18   521.79
```

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

   92 2-Butanone (continued)
  5.248   5.248 (0.963)    57     65773                    13.03-  73.03    43.53
-------------------------------------------------------------------------------
   99 Tetrahydrofuran                                CAS #: 109-99-9
  5.448   5.448 (1.000)    42    444019 50.0000   40.323  80.00- 120.00   100.00
  5.448   5.448 (1.000)    71    134825                    0.00-  59.69    30.36
  5.448   5.448 (1.000)    72    144216                    0.00-  59.70    32.48
-------------------------------------------------------------------------------
  100 Chloroform                                     CAS #: 67-66-3
  5.513   5.513 (1.012)    83    641586 50.0000   43.178  80.00- 120.00   100.00
  5.513   5.513 (1.012)    85    422166                   34.76-  94.76    65.80
-------------------------------------------------------------------------------
  102 Cyclohexane                                    CAS #: 110-82-7
  5.628   5.628 (1.033)    84    429948 50.0000   45.449  80.00- 120.00   100.00
  5.628   5.628 (1.033)    56    692650                  133.05- 193.05   161.10
  5.628   5.628 (1.033)    41    333481                   49.59- 109.59    77.56
-------------------------------------------------------------------------------
  103 1,1,1-Trichloroethane                          CAS #: 71-55-6
  5.642   5.642 (1.035)    97    696938 50.0000   44.792  80.00- 120.00   100.00
  5.642   5.642 (1.035)    99    445026                   34.17-  94.17    63.85
-------------------------------------------------------------------------------
  106 Carbon Tetrachloride                           CAS #: 56-23-5
  5.756   5.756 (1.057)   119    719473 50.0000   44.727  80.00- 120.00   100.00
  5.756   5.756 (1.057)   117    752168                   75.20- 135.20   104.54
-------------------------------------------------------------------------------
  113 2,2,4-Trimethylpentane                         CAS #: 540-84-1
  5.957   5.957 (1.093)    57   2091229 50.0000   43.067  80.00- 120.00   100.00
  5.957   5.957 (1.093)    56    687820                    3.38-  63.38    32.89
  5.957   5.957 (1.093)    41    475313                    0.00-  53.72    22.73
-------------------------------------------------------------------------------
  116 Benzene                                        CAS #: 71-43-2
  5.971   5.971 (0.942)    78    962050 50.0000   43.441  80.00- 120.00   100.00
  5.971   5.971 (0.942)    77    224350                    0.00-  52.99    23.32
-------------------------------------------------------------------------------
  119 tert-Amyl methyl ether                         CAS #: 994-05-8
  6.043   6.043 (0.954)    87    235633 50.0000   46.619  80.00- 120.00   100.00
  6.043   6.043 (0.954)    73    959622                  374.74- 434.74   407.25
  6.043   6.043 (0.954)    55    320119                  108.16- 168.16   135.85
-------------------------------------------------------------------------------
  120 1,2-Dichloroethane                             CAS #: 107-06-2
  6.057   6.057 (0.956)    62    509192 50.0000   45.701  80.00- 120.00   100.00
  6.057   6.057 (0.956)    64    149507                    0.03-  60.03    29.36
-------------------------------------------------------------------------------
  121 Heptane                                        CAS #: 142-82-5
  6.129   6.129 (0.967)    71    355606 50.0000   40.603  80.00- 120.00   100.00
  6.129   6.129 (0.967)    43    779293                  198.64- 258.64   219.15
```

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
6.129	6.129 (0.967)	57	432558			94.82- 154.82	121.64
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.032)	95	450318	50.0000	42.885	80.00- 120.00	100.00
6.537	6.537 (1.032)	130	456869			72.98- 132.98	101.45
6.537	6.537 (1.032)	97	286082			33.56- 93.56	63.53
127 Methylcyclohexane					CAS #: 108-87-2		
6.637	6.637 (1.047)	83	624986	50.0000	44.934	80.00- 120.00	100.00
6.637	6.637 (1.047)	98	294785			16.64- 76.64	47.17
6.637	6.637 (1.047)	55	667134			81.85- 141.85	106.74
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.766 (1.068)	63	458312	50.0000	45.092	80.00- 120.00	100.00
6.766	6.766 (1.068)	62	329358			41.08- 101.08	71.86
6.766	6.766 (1.068)	41	233672			22.96- 82.96	50.99
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.852 (1.081)	88	242028	50.0000	44.264	80.00- 120.00	100.00
6.852	6.852 (1.081)	58	218665			59.66- 119.66	90.35
6.852	6.852 (1.081)	57	72918			0.00- 57.34	30.13
138 Bromodichloromethane					CAS #: 75-27-4		
6.996	6.996 (1.104)	83	751943	50.0000	43.627	80.00- 120.00	100.00
6.996	6.996 (1.104)	85	477952			34.26- 94.26	63.56
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.368	7.368 (1.163)	75	651513	50.0000	44.732	80.00- 120.00	100.00
7.368	7.368 (1.163)	77	211021			2.22- 62.22	32.39
7.368	7.368 (1.163)	39	343034			27.77- 87.77	52.65
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.476	7.476 (1.180)	58	401798	50.0000	41.008	80.00- 120.00	100.00
7.476	7.476 (1.180)	43	992905			224.74- 284.74	247.12
7.476	7.476 (1.180)	85	136694			3.81- 63.81	34.02
147 Toluene					CAS #: 108-88-3		
7.604	7.604 (1.200)	91	1318982	50.0000	42.952	80.00- 120.00	100.00
7.604	7.604 (1.200)	92	767366			28.71- 88.71	58.18
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
7.841	7.841 (0.893)	75	594635	50.0000	44.405	80.00- 120.00	100.00
7.841	7.841 (0.893)	77	186754			1.83- 61.83	31.41
7.841	7.841 (0.893)	39	303335			23.84- 83.84	51.01

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

  155 1,1,2-Trichloroethane                        CAS #: 79-00-5
  7.998   7.998 (0.911)    97    460261 50.0000   43.279  80.00- 120.00   100.00
  7.998   7.998 (0.911)    99    283795                   31.26-  91.26    61.66
  7.998   7.998 (0.911)    83    393432                   55.61- 115.61    85.48
-------------------------------------------------------------------------------
  156 Tetrachloroethene                            CAS #: 127-18-4
  8.041   8.041 (0.916)   166    622856 50.0000   43.547  80.00- 120.00   100.00
  8.041   8.041 (0.916)   129    468872                   46.18- 106.18    75.28
  8.041   8.041 (0.916)   131    463007                   43.79- 103.79    74.34
-------------------------------------------------------------------------------
  158 2-Hexanone                                   CAS #: 591-78-6
  8.163   8.163 (0.930)    58    544824 50.0000   42.245  80.00- 120.00   100.00
  8.163   8.163 (0.930)    43    971229                  148.17- 208.17   178.26
  8.163   8.163 (0.930)   100     92198                    0.00-  45.64    16.92
-------------------------------------------------------------------------------
  160 Dibromochloromethane                         CAS #: 124-48-1
  8.306   8.306 (0.946)   129    840070 50.0000   44.467  80.00- 120.00   100.00
  8.306   8.306 (0.946)   127    656522                   47.19- 107.19    78.15
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                      CAS #: 106-93-4
  8.421   8.421 (0.959)   107    712876 50.0000   44.095  80.00- 120.00   100.00
  8.421   8.421 (0.959)   109    673047                   63.97- 123.97    94.41
-------------------------------------------------------------------------------
  165 Chlorobenzene                                CAS #: 108-90-7
  8.801   8.801 (1.002)   112   1091582 50.0000   43.955  80.00- 120.00   100.00
  8.801   8.801 (1.002)   114    342622                    2.01-  62.01    31.39
  8.801   8.801 (1.002)    77    608494                   28.41-  88.41    55.74
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                CAS #: 100-41-4
  8.851   8.851 (1.008)   106    570238 50.0000   43.139  80.00- 120.00   100.00
  8.851   8.851 (1.008)    91   1783337                  279.43- 339.43   312.74
-------------------------------------------------------------------------------
  169 m,p-Xylene                                   CAS #: 108-38-3
  8.951   8.951 (1.020)   106    708300 50.0000   43.597  80.00- 120.00   100.00
  8.951   8.951 (1.020)    91   1414657                  168.86- 228.86   199.73
-------------------------------------------------------------------------------
  171 o-Xylene                                     CAS #: 95-47-6
  9.288   9.288 (1.058)   106    666327 50.0000   43.967  80.00- 120.00   100.00
  9.288   9.288 (1.058)    91   1422833                  184.06- 244.06   213.53
-------------------------------------------------------------------------------
  172 Styrene                                      CAS #: 100-42-5
  9.309   9.309 (1.060)   104   1072040 50.0000   42.240  80.00- 120.00   100.00
  9.309   9.309 (1.060)    78    529013                   19.31-  79.31    49.35
-------------------------------------------------------------------------------
  174 Bromoform                                    CAS #: 75-25-2
  9.503   9.503 (1.082)   173    814697 50.0000   44.440  80.00- 120.00   100.00
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                                        AMOUNTS
                                     CAL-AMT   ON-COL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  174 Bromoform (continued)
  9.503   9.503 (1.082)   171    424007                    21.41-  81.41    52.04
-------------------------------------------------------------------------------
  175 Cumene                                        CAS #: 98-82-8
  9.574   9.574 (1.091)   105   2138502 50.0000   43.908  80.00- 120.00   100.00
  9.581   9.581 (1.091)   120    564273                     0.00-  56.55    26.39
  9.574   9.574 (1.091)    51    247556                     0.00-  41.64    11.58
-------------------------------------------------------------------------------
  181 1,1,2,2-Tetrachloroethane                     CAS #: 79-34-5
  9.882   9.882 (1.126)    83   1048771 50.0000   43.588  80.00- 120.00   100.00
  9.890   9.890 (1.126)    85    681575                    34.71-  94.71    64.99
-------------------------------------------------------------------------------
  182 Propylbenzene                                 CAS #: 103-65-1
  9.925   9.925 (1.131)    91   2532955 50.0000   43.313  80.00- 120.00   100.00
  9.925   9.925 (1.131)   120    593906                     0.00-  53.35    23.45
  9.925   9.925 (1.131)   105     93175                     0.00-  33.65     3.68
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                                CAS #: 622-96-8
 10.018  10.018 (1.141)   120    647889 50.0000   43.502  80.00- 120.00   100.00
 10.018  10.018 (1.141)   105   2116200                   299.74- 359.74   326.63
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                        CAS #: 108-67-8
 10.069  10.069 (1.147)   120    899392 50.0000   44.259  80.00- 120.00   100.00(H)
 10.069  10.069 (1.147)   105   1919346                   181.68- 241.68   213.40
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                        CAS #: 95-63-6
 10.398  10.398 (1.184)   120    796580 50.0000   42.655  80.00- 120.00   100.00
 10.398  10.398 (1.184)   105   1786075                   188.33- 248.33   224.22
-------------------------------------------------------------------------------
  208 1,3-Dichlorobenzene                           CAS #: 541-73-1
 10.685  10.685 (1.217)   146   1205156 50.0000   44.182  80.00- 120.00   100.00
 10.685  10.685 (1.217)   148    771451                    33.11-  93.11    64.01
 10.685  10.685 (1.217)   111    499630                    10.85-  70.85    41.46
-------------------------------------------------------------------------------
  209 1,4-Dichlorobenzene                           CAS #: 106-46-7
 10.763  10.763 (1.226)   146   1208816 50.0000   43.598  80.00- 120.00   100.00
 10.763  10.763 (1.226)   148    767211                    33.69-  93.69    63.47
 10.763  10.763 (1.226)   111    473240                     9.80-  69.80    39.15
-------------------------------------------------------------------------------
  212 alpha-Chlorotoluene                           CAS #: 100-44-7
 10.878  10.878 (1.239)    91   1676663 50.0000   43.944  80.00- 120.00   100.00
 10.878  10.878 (1.239)   126    354652                     0.00-  51.03    21.15
-------------------------------------------------------------------------------
  214 1,2-Dichlorobenzene                           CAS #: 95-50-1
 11.093  11.093 (1.264)   146   1161957 50.0000   43.479  80.00- 120.00   100.00
 11.093  11.093 (1.264)   148    735597                    33.72-  93.72    63.31
```

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

  214 1,2-Dichlorobenzene (continued)
 11.093  11.093 (1.264)   111    494261                   12.82-  72.82    42.54
-------------------------------------------------------------------------------
  226 1,2,4-Trichlorobenzene                        CAS #: 120-82-1
 12.497  12.497 (1.423)   180   1014636 50.0000   46.900  80.00- 120.00   100.00
 12.497  12.497 (1.423)   182    962893                   65.12- 125.12    94.90
-------------------------------------------------------------------------------
  227 Hexachlorobutadiene                           CAS #: 87-68-3
 12.590  12.590 (1.434)   225    841126 50.0000   45.321  80.00- 120.00   100.00
 12.590  12.590 (1.434)   223    531887                   32.73-  92.73    63.24
-------------------------------------------------------------------------------
  228 Naphthalene                                   CAS #: 91-20-3
 12.762  12.762 (1.454)   128    215297 5.00000    4.747  80.00- 120.00   100.00
 12.762  12.762 (1.454)   127     25593                    0.00-  42.37    11.89
-------------------------------------------------------------------------------
```

QC Flag Legend

H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030902.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /var/chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 09-MAR-2015
Calibration Time: 09:40
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

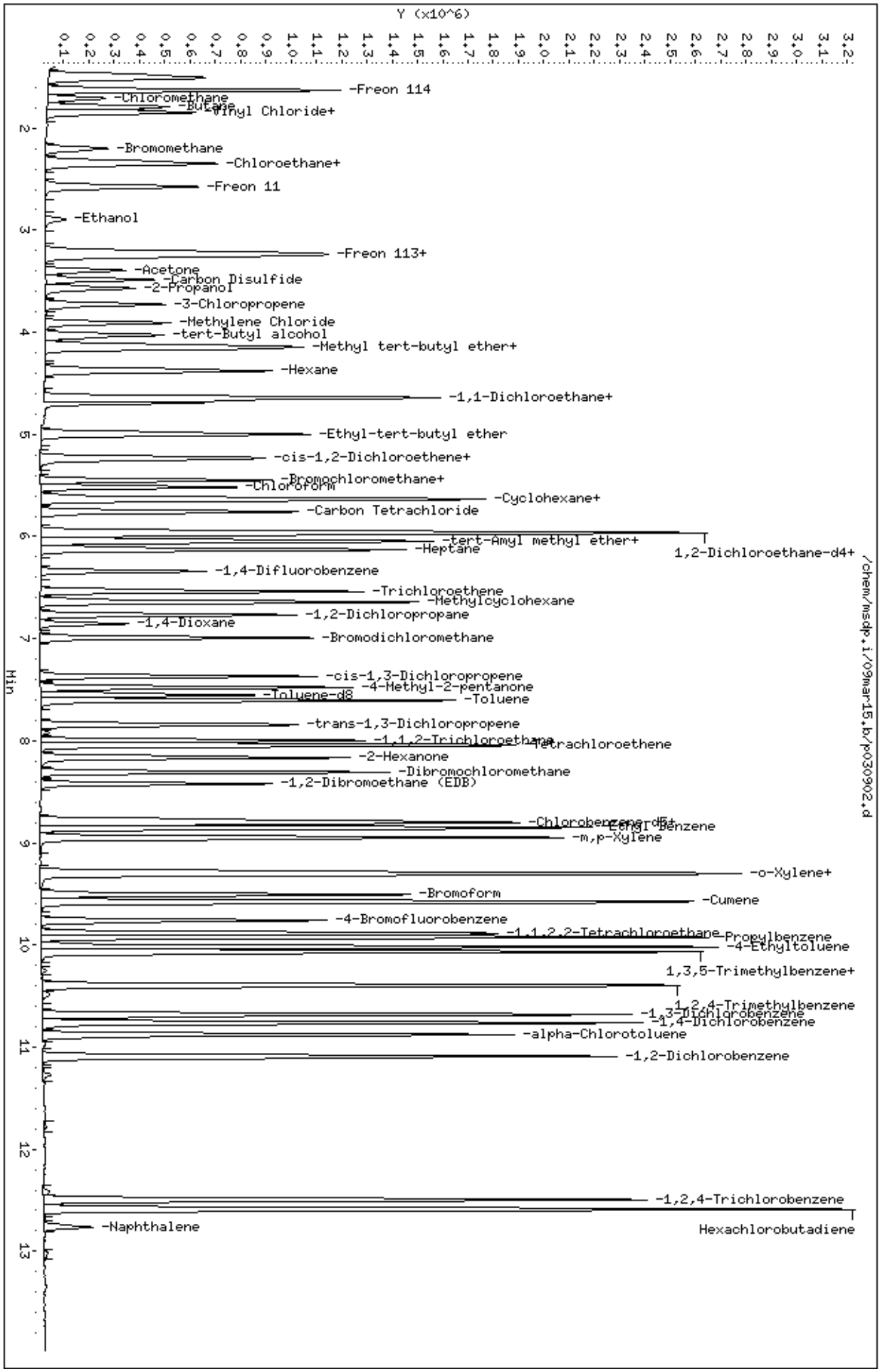
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	128772	0.00
123 1,4-Difluorobenze	577007	346204	807810	577007	0.00
163 Chlorobenzene-d5	578664	347198	810130	578664	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.45	0.00
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.00
163 Chlorobenzene-d5	8.78	8.45	9.11	8.78	0.00

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

Data File: /chem/msdp.i/09mar15.b/p030902.d
Date : 09-MAR-2015 09:40
Client ID: CCV
Sample Info: 50ml #2716-57
Column phase: RTX-624

Instrument: msdp.i
Operator: js
Column diameter: 0.25



eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1503058H-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/15 10:58 AM**	

Compound	**%Recovery**	**Method Limits**
2-Propanol	99	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 09-Mar-2015 11:48

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	46.624	93.25	70-130
11 Freon 12	50.000	48.571	97.14	70-130
15 Freon 114	50.000	50.662	101.32	70-130
17 Chloromethane	50.000	49.540	99.08	70-130
23 Butane	50.000	52.529	105.06	70-130
25 Vinyl Chloride	50.000	50.490	100.98	70-130
26 1,3-Butadiene	50.000	47.767	95.53	70-130
29 Bromomethane	50.000	50.707	101.41	70-130
30 Chloroethane	50.000	48.018	96.04	70-130
31 Isopentane	50.000	48.687	97.37	70-130
35 Freon 11	50.000	48.197	96.39	70-130
42 Ethanol	50.000	48.340	96.68	70-130
49 Freon 113	50.000	47.607	95.21	70-130
50 1,1-Dichloroethene	50.000	48.206	96.41	70-130
52 Acetone	50.000	47.316	94.63	70-130
56 Carbon Disulfide	50.000	43.093	86.19	70-130
57 2-Propanol	50.000	49.671	99.34	70-130
58 3-Chloropropene	50.000	45.748	91.50	70-130
66 Methylene Chloride	50.000	46.628	93.26	70-130
72 Methyl tert-butyl	50.000	46.504	93.01	70-130
73 trans-1,2-Dichloro	50.000	41.138	82.28	70-130
78 Hexane	50.000	44.748	89.50	70-130
82 1,1-Dichloroethane	50.000	47.398	94.80	70-130
86 Vinyl Acetate	50.000	47.792	95.58	70-130
91 cis-1,2-Dichloroet	50.000	52.284	104.57	70-130
92 2-Butanone	50.000	45.277	90.55	70-130
99 Tetrahydrofuran	50.000	42.583	85.17	70-130
100 Chloroform	50.000	45.764	91.53	70-130
103 1,1,1-Trichloroeth	50.000	47.477	94.95	70-130
106 Carbon Tetrachlori	50.000	47.035	94.07	70-130
102 Cyclohexane	50.000	48.010	96.02	70-130
113 2,2,4-Trimethylpen	50.000	46.643	93.29	70-130
116 Benzene	50.000	44.825	89.65	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	47.169	94.34	70-130
121 Heptane	50.000	41.039	82.08	70-130
125 Trichloroethene	50.000	45.572	91.14	70-130
127 Methylcyclohexane	50.000	45.931	91.86	70-130
132 1,2-Dichloropropan	50.000	47.928	95.86	70-130
136 1,4-Dioxane	50.000	45.492	90.98	70-130
138 Bromodichlorometha	50.000	46.550	93.10	70-130
144 cis-1,3-Dichloropr	50.000	44.814	89.63	70-130
145 4-Methyl-2-pentano	50.000	44.795	89.59	70-130
147 Toluene	50.000	45.420	90.84	70-130
150 trans-1,3-Dichloro	50.000	44.916	89.83	70-130
155 1,1,2-Trichloroeth	50.000	44.076	88.15	70-130
156 Tetrachloroethene	50.000	44.692	89.38	70-130
158 2-Hexanone	50.000	45.856	91.71	70-130
160 Dibromochlorometha	50.000	47.204	94.41	70-130
161 1,2-Dibromoethane	50.000	45.870	91.74	70-130
165 Chlorobenzene	50.000	45.447	90.89	70-130
167 Ethyl Benzene	50.000	44.823	89.65	70-130
169 m,p-Xylene	50.000	45.955	91.91	70-130
171 o-Xylene	50.000	47.380	94.76	70-130
172 Styrene	50.000	45.993	91.99	70-130
174 Bromoform	50.000	48.399	96.80	70-130
175 Cumene	50.000	46.031	92.06	70-130
181 1,1,2,2-Tetrachlor	50.000	46.080	92.16	70-130
182 Propylbenzene	50.000	46.250	92.50	70-130
188 4-Ethyltoluene	50.000	47.162	94.32	70-130
190 1,3,5-Trimethylben	50.000	46.912	93.82	70-130
196 1,2,4-Trimethylben	50.000	45.518	91.04	70-130
208 1,3-Dichlorobenzen	50.000	46.413	92.83	70-130
209 1,4-Dichlorobenzen	50.000	46.471	92.94	70-130
212 alpha-Chlorotoluen	50.000	49.097	98.19	70-130
214 1,2-Dichlorobenzen	50.000	45.745	91.49	70-130
226 1,2,4-Trichloroben	50.000	48.723	97.45	70-130
227 Hexachlorobutadien	50.000	47.560	95.12	70-130
228 Naphthalene	5.000	4.302	86.03	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.136	100.54	70-130
$ 146 Toluene-d8	25.000	24.927	99.71	70-130
$ 177 4-Bromofluorobenze	25.000	25.408	101.63	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030904.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 09-MAR-2015 10:58
Operator : js Inst ID: msdp.i
Smp Info : 50ml #2716-100
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 2 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	
5.441	5.448 (1.000)	130	112401	25.0000		80.00- 120.00	100.00
5.441	5.448 (1.000)	128	87929			48.50- 108.50	78.23
5.441	5.448 (1.000)	49	208271			157.33- 217.33	185.29
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.322	6.337 (1.000)	114	517425	25.0000		80.00- 120.00	100.00
6.322	6.337 (1.000)	88	79304			0.00- 45.39	15.33
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.751	8.779 (1.000)	117	539482	25.0000		80.00- 120.00	100.00
8.751	8.779 (1.000)	82	298346			24.18- 84.18	55.30
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.971	5.986 (1.097)	65	176018	25.1359	25.136	80.00- 120.00	100.00
5.971	5.986 (1.097)	67	100820			27.69- 87.69	57.28

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5	
7.519	7.554 (1.189)	98	574102	24.9266	24.927	80.00- 120.00	100.00
7.519	7.554 (1.189)	70	61084			0.00- 41.30	10.64
7.519	7.554 (1.189)	100	377265			36.42- 96.42	65.71
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4	
9.753	9.761 (1.115)	174	340741	25.4077	25.408	80.00- 120.00	100.00
9.753	9.761 (1.115)	95	441904			101.88- 161.88	129.69
9.753	9.761 (1.115)	176	327292			68.14- 128.14	96.05
9 Propylene						CAS #: 115-07-1	
1.473	1.473 (0.271)	41	272871	46.6244	46.624	80.00- 120.00	100.00
1.473	1.473 (0.271)	42	189037			36.99- 96.99	69.28
1.473	1.473 (0.271)	39	189818			38.39- 98.39	69.56
11 Freon 12						CAS #: 75-71-8	
1.509	1.509 (0.277)	85	781678	48.5713	48.571	80.00- 120.00	100.00
1.509	1.509 (0.277)	87	252682			2.26- 62.26	32.33
15 Freon 114						CAS #: 76-14-2	
1.630	1.631 (0.300)	135	587267	50.6624	50.662	80.00- 120.00	100.00
1.630	1.631 (0.300)	137	186279			1.88- 61.88	31.72
17 Chloromethane						CAS #: 74-87-3	
1.709	1.709 (0.314)	50	322341	49.5403	49.540	80.00- 120.00	100.00
1.709	1.709 (0.314)	52	106578			2.05- 62.05	33.06
23 Butane						CAS #: 106-97-8	
1.788	1.788 (0.329)	58	77878	52.5289	52.529	80.00- 120.00	100.00
1.788	1.788 (0.329)	43	584255			755.09- 815.09	750.22
25 Vinyl Chloride						CAS #: 75-01-4	
1.824	1.824 (0.335)	62	352248	50.4906	50.490	80.00- 120.00	100.00
1.824	1.824 (0.335)	64	105013			0.00- 59.41	29.81
26 1,3-Butadiene						CAS #: 106-99-0	
1.853	1.853 (0.340)	54	307596	47.7671	47.767	80.00- 120.00	100.00
1.853	1.853 (0.340)	39	260732			59.70- 119.70	84.76
29 Bromomethane						CAS #: 74-83-9	
2.196	2.204 (0.404)	94	231704	50.7072	50.707	80.00- 120.00	100.00
2.196	2.204 (0.404)	96	218865			63.82- 123.82	94.46
30 Chloroethane						CAS #: 75-00-3	
2.318	2.318 (0.426)	64	150876	48.0179	48.018	80.00- 120.00	100.00
2.318	2.318 (0.426)	66	45843			0.16- 60.16	30.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.426)	49	49990			3.29- 63.29	33.13
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.431)	43	422485	48.6870	48.687	80.00- 120.00	100.00
2.347	2.347 (0.431)	57	292312			36.45- 96.45	69.19
35 Freon 11					CAS #: 75-69-4		
2.569	2.576 (0.472)	101	759608	48.1970	48.197	80.00- 120.00	100.00
2.569	2.576 (0.472)	103	496310			33.91- 93.91	65.34
42 Ethanol					CAS #: 64-17-5		
2.891	2.891 (0.531)	45	148025	48.3399	48.340	80.00- 120.00	100.00
2.891	2.891 (0.531)	43	29202			0.00- 47.60	19.73
2.891	2.891 (0.531)	46	59215			8.33- 68.33	40.00
49 Freon 113					CAS #: 76-13-1		
3.221	3.221 (0.592)	151	454015	47.6068	47.607	80.00- 120.00	100.00
3.221	3.221 (0.592)	153	290431			33.05- 93.05	63.97
3.221	3.221 (0.592)	101	574311			95.24- 155.24	126.50
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.597)	98	168222	48.2058	48.206	80.00- 120.00	100.00
3.249	3.249 (0.597)	96	261773			130.75- 190.75	155.61
3.249	3.249 (0.597)	61	513221			284.15- 344.15	305.09
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.623)	58	164444	47.3159	47.316	80.00- 120.00	100.00
3.393	3.393 (0.623)	43	484850			265.43- 325.43	294.84
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.641)	76	644015	43.0930	43.093	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.564	3.565 (0.655)	45	638918	49.6708	49.671	80.00- 120.00	100.00
3.564	3.565 (0.655)	43	109077			0.00- 46.95	17.07
3.564	3.565 (0.655)	59	25639			0.00- 33.74	4.01
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.685)	76	119400	45.7478	45.748	80.00- 120.00	100.00
3.729	3.729 (0.685)	41	427035			356.64- 416.64	357.65
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.718)	49	427280	46.6282	46.628	80.00- 120.00	100.00
3.908	3.908 (0.718)	84	233611			22.55- 82.55	54.67
3.908	3.908 (0.718)	51	133378			0.62- 60.62	31.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.130	4.130 (0.759)	73	758151	46.5038	46.504	80.00- 120.00	100.00
4.130	4.130 (0.759)	57	224256			0.85- 60.85	29.58
4.130	4.130 (0.759)	41	197193			0.00- 58.46	26.01
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.159	4.159 (0.764)	98	147763	41.1380	41.138	80.00- 120.00	100.00
4.152	4.159 (0.763)	61	414811			252.16- 312.16	280.73
4.159	4.159 (0.764)	96	235596			127.62- 187.62	159.44
78 Hexane					CAS #: 110-54-3		
4.374	4.374 (0.804)	57	583241	44.7484	44.748	80.00- 120.00	100.00
4.374	4.374 (0.804)	43	362709			34.48- 94.48	62.19
4.374	4.374 (0.804)	86	70447			0.00- 41.87	12.08
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.854)	63	593911	47.3976	47.398	80.00- 120.00	100.00
4.646	4.646 (0.854)	65	168248			0.00- 58.87	28.33
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.862)	86	74825	47.7916	47.792	80.00- 120.00	100.00
4.689	4.689 (0.862)	43	1030184			2032.08-2092.08	1376.79
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.219	5.226 (0.959)	98	208629	52.2841	52.284	80.00- 120.00	100.00
5.219	5.226 (0.959)	96	331999			130.68- 190.68	159.13
5.219	5.226 (0.959)	61	511030			218.42- 278.42	244.95
92 2-Butanone					CAS #: 78-93-3		
5.241	5.248 (0.963)	72	137421	45.2767	45.277	80.00- 120.00	100.00
5.241	5.248 (0.963)	43	716008			505.18- 565.18	521.03
5.241	5.248 (0.963)	57	59665			13.03- 73.03	43.42
99 Tetrahydrofuran					CAS #: 109-99-9		
5.441	5.448 (1.000)	42	409290	42.5832	42.583	80.00- 120.00	100.00
5.441	5.448 (1.000)	71	120597			0.00- 59.69	29.46
5.441	5.448 (1.000)	72	133505			0.00- 59.70	32.62
100 Chloroform					CAS #: 67-66-3		
5.506	5.513 (1.012)	83	593556	45.7642	45.764	80.00- 120.00	100.00
5.506	5.513 (1.012)	85	378088			34.76- 94.76	63.70
102 Cyclohexane					CAS #: 110-82-7		
5.620	5.628 (1.033)	84	396436	48.0102	48.010	80.00- 120.00	100.00
5.613	5.628 (1.032)	56	647032			133.05- 193.05	163.21
5.613	5.628 (1.032)	41	312502			49.59- 109.59	78.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.635	5.642 (1.036)	97	644799	47.4773	47.477	80.00- 120.00	100.00
5.635	5.642 (1.036)	99	413101			34.17- 94.17	64.07
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.742	5.756 (1.055)	119	660410	47.0351	47.035	80.00- 120.00	100.00
5.749	5.756 (1.057)	117	693589			75.20- 135.20	105.02
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.943	5.957 (1.092)	57	1976915	46.6426	46.643	80.00- 120.00	100.00
5.943	5.957 (1.092)	56	650884			3.38- 63.38	32.92
5.943	5.957 (1.092)	41	452748			0.00- 53.72	22.90
116 Benzene					CAS #: 71-43-2		
5.957	5.971 (0.942)	78	890178	44.8246	44.825	80.00- 120.00	100.00
5.957	5.971 (0.942)	77	207182			0.00- 52.99	23.27
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.036	6.057 (0.955)	62	471274	47.1687	47.169	80.00- 120.00	100.00
6.036	6.057 (0.955)	64	141924			0.03- 60.03	30.11
121 Heptane					CAS #: 142-82-5		
6.107	6.129 (0.966)	71	322307	41.0386	41.039	80.00- 120.00	100.00
6.107	6.129 (0.966)	43	715820			198.64- 258.64	222.09
6.107	6.129 (0.966)	57	400149			94.82- 154.82	124.15
125 Trichloroethene					CAS #: 79-01-6		
6.516	6.537 (1.031)	95	429123	45.5723	45.572	80.00- 120.00	100.00
6.516	6.537 (1.031)	130	437416			72.98- 132.98	101.93
6.516	6.537 (1.031)	97	272260			33.56- 93.56	63.45
127 Methylcyclohexane					CAS #: 108-87-2		
6.616	6.637 (1.046)	83	572873	45.9306	45.931	80.00- 120.00	100.00
6.616	6.637 (1.046)	98	269511			16.64- 76.64	47.05
6.616	6.637 (1.046)	55	638762			81.85- 141.85	111.50
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.745	6.766 (1.067)	63	436833	47.9283	47.928	80.00- 120.00	100.00
6.745	6.766 (1.067)	62	309230			41.08- 101.08	70.79
6.745	6.766 (1.067)	41	224698			22.96- 82.96	51.44
136 1,4-Dioxane					CAS #: 123-91-1		
6.831	6.852 (1.080)	88	223059	45.4922	45.492	80.00- 120.00	100.00
6.831	6.852 (1.080)	58	199811			59.66- 119.66	89.58
6.831	6.852 (1.080)	57	64875			0.00- 57.34	29.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane						CAS #: 75-27-4	
6.967	6.996 (1.102)	83	719474	46.5501	46.550	80.00- 120.00	100.00
6.967	6.996 (1.102)	85	465597			34.26- 94.26	64.71
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.339	7.368 (1.161)	75	585307	44.8140	44.814	80.00- 120.00	100.00
7.339	7.368 (1.161)	77	184817			2.22- 62.22	31.58
7.339	7.368 (1.161)	39	311843			27.77- 87.77	53.28
145 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.447	7.476 (1.178)	58	393583	44.7947	44.795	80.00- 120.00	100.00
7.447	7.476 (1.178)	43	967020			224.74- 284.74	245.70
7.447	7.476 (1.178)	85	134018			3.81- 63.81	34.05
147 Toluene						CAS #: 108-88-3	
7.576	7.604 (1.198)	91	1250757	45.4203	45.420	80.00- 120.00	100.00
7.576	7.604 (1.198)	92	728633			28.71- 88.71	58.26
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.812	7.841 (0.893)	75	560744	44.9156	44.916	80.00- 120.00	100.00
7.812	7.841 (0.893)	77	178842			1.83- 61.83	31.89
7.812	7.841 (0.893)	39	291230			23.84- 83.84	51.94
155 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.963	7.998 (0.910)	97	436998	44.0761	44.076	80.00- 120.00	100.00
7.963	7.998 (0.910)	99	268320			31.26- 91.26	61.40
7.963	7.998 (0.910)	83	375459			55.61- 115.61	85.92
156 Tetrachloroethene						CAS #: 127-18-4	
8.013	8.041 (0.916)	166	595950	44.6922	44.692	80.00- 120.00	100.00
8.013	8.041 (0.916)	129	459947			46.18- 106.18	77.18
8.013	8.041 (0.916)	131	441182			43.79- 103.79	74.03
158 2-Hexanone						CAS #: 591-78-6	
8.135	8.163 (0.930)	58	551348	45.8556	45.856	80.00- 120.00	100.00
8.135	8.163 (0.930)	43	960521			148.17- 208.17	174.21
8.135	8.163 (0.930)	100	87192			0.00- 45.64	15.81
160 Dibromochloromethane						CAS #: 124-48-1	
8.278	8.306 (0.946)	129	831402	47.2045	47.204	80.00- 120.00	100.00
8.278	8.306 (0.946)	127	643024			47.19- 107.19	77.34
161 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.392	8.421 (0.959)	107	691355	45.8701	45.870	80.00- 120.00	100.00
8.392	8.421 (0.959)	109	660749			63.97- 123.97	95.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.779	8.801 (1.003)	112	1052225	45.4473	45.447	80.00- 120.00	100.00
8.779	8.801 (1.003)	114	332333			2.01- 62.01	31.58
8.779	8.801 (1.003)	77	594025			28.41- 88.41	56.45
167 Ethyl Benzene					CAS #: 100-41-4		
8.829	8.851 (1.009)	106	552386	44.8235	44.823	80.00- 120.00	100.00
8.829	8.851 (1.009)	91	1750684			279.43- 339.43	316.93
169 m,p-Xylene					CAS #: 108-38-3		
8.930	8.951 (1.020)	106	696056	45.9550	45.955	80.00- 120.00	100.00
8.930	8.951 (1.020)	91	1396782			168.86- 228.86	200.67
171 o-Xylene					CAS #: 95-47-6		
9.273	9.288 (1.060)	106	669425	47.3797	47.380	80.00- 120.00	100.00
9.273	9.288 (1.060)	91	1414816			184.06- 244.06	211.35
172 Styrene					CAS #: 100-42-5		
9.295	9.309 (1.062)	104	1088243	45.9927	45.993	80.00- 120.00	100.00
9.295	9.309 (1.062)	78	524192			19.31- 79.31	48.17
174 Bromoform					CAS #: 75-25-2		
9.495	9.503 (1.085)	173	827192	48.3989	48.399	80.00- 120.00	100.00
9.495	9.503 (1.085)	171	417197			21.41- 81.41	50.44
175 Cumene					CAS #: 98-82-8		
9.567	9.574 (1.093)	105	2090113	46.0312	46.031	80.00- 120.00	100.00
9.567	9.574 (1.093)	120	559608			0.00- 56.55	26.77
9.567	9.574 (1.093)	51	237790			0.00- 41.64	11.38
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.882	9.882 (1.129)	83	1033660	46.0799	46.080	80.00- 120.00	100.00
9.882	9.882 (1.129)	85	675212			34.71- 94.71	65.32
182 Propylbenzene					CAS #: 103-65-1		
9.918	9.925 (1.133)	91	2521583	46.2499	46.250	80.00- 120.00	100.00
9.918	9.925 (1.133)	120	588621			0.00- 53.35	23.34
9.918	9.925 (1.133)	105	90887			0.00- 33.65	3.60
188 4-Ethyltoluene					CAS #: 622-96-8		
10.011	10.018 (1.144)	120	654845	47.1623	47.162	80.00- 120.00	100.00
10.011	10.018 (1.144)	105	2127125			299.74- 359.74	324.83
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.069	10.069 (1.151)	120	888755	46.9118	46.912	80.00- 120.00	100.00
10.069	10.069 (1.151)	105	1849784			181.68- 241.68	208.13

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.398	10.398 (1.188)	120	792480	45.5175	45.518	80.00- 120.00	100.00
10.398	10.398 (1.188)	105	1757145			188.33- 248.33	221.73
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.685	10.685 (1.221)	146	1180277	46.4132	46.413	80.00- 120.00	100.00
10.685	10.685 (1.221)	148	754449			33.11- 93.11	63.92
10.685	10.685 (1.221)	111	482491			10.85- 70.85	40.88
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.771	10.763 (1.231)	146	1201229	46.4707	46.471	80.00- 120.00	100.00
10.771	10.763 (1.231)	148	769805			33.69- 93.69	64.08
10.771	10.763 (1.231)	111	470142			9.80- 69.80	39.14
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.885	10.878 (1.244)	91	1746417	49.0972	49.097	80.00- 120.00	100.00
10.885	10.878 (1.244)	126	370489			0.00- 51.03	21.21
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.100	11.093 (1.268)	146	1139730	45.7448	45.745	80.00- 120.00	100.00
11.100	11.093 (1.268)	148	744162			33.72- 93.72	65.29
11.100	11.093 (1.268)	111	497409			12.82- 72.82	43.64
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.511	12.497 (1.430)	180	982696	48.7227	48.723	80.00- 120.00	100.00
12.511	12.497 (1.430)	182	943457			65.12- 125.12	96.01
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.604	12.590 (1.440)	225	822911	47.5600	47.560	80.00- 120.00	100.00
12.604	12.590 (1.440)	223	521952			32.73- 92.73	63.43
228 Naphthalene					CAS #: 91-20-3		
12.776	12.762 (1.460)	128	181897	4.30163	4.302	80.00- 120.00	100.00
12.783	12.762 (1.461)	127	24457			0.00- 42.37	13.45

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030904.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 09-MAR-2015
Calibration Time: 09:40
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

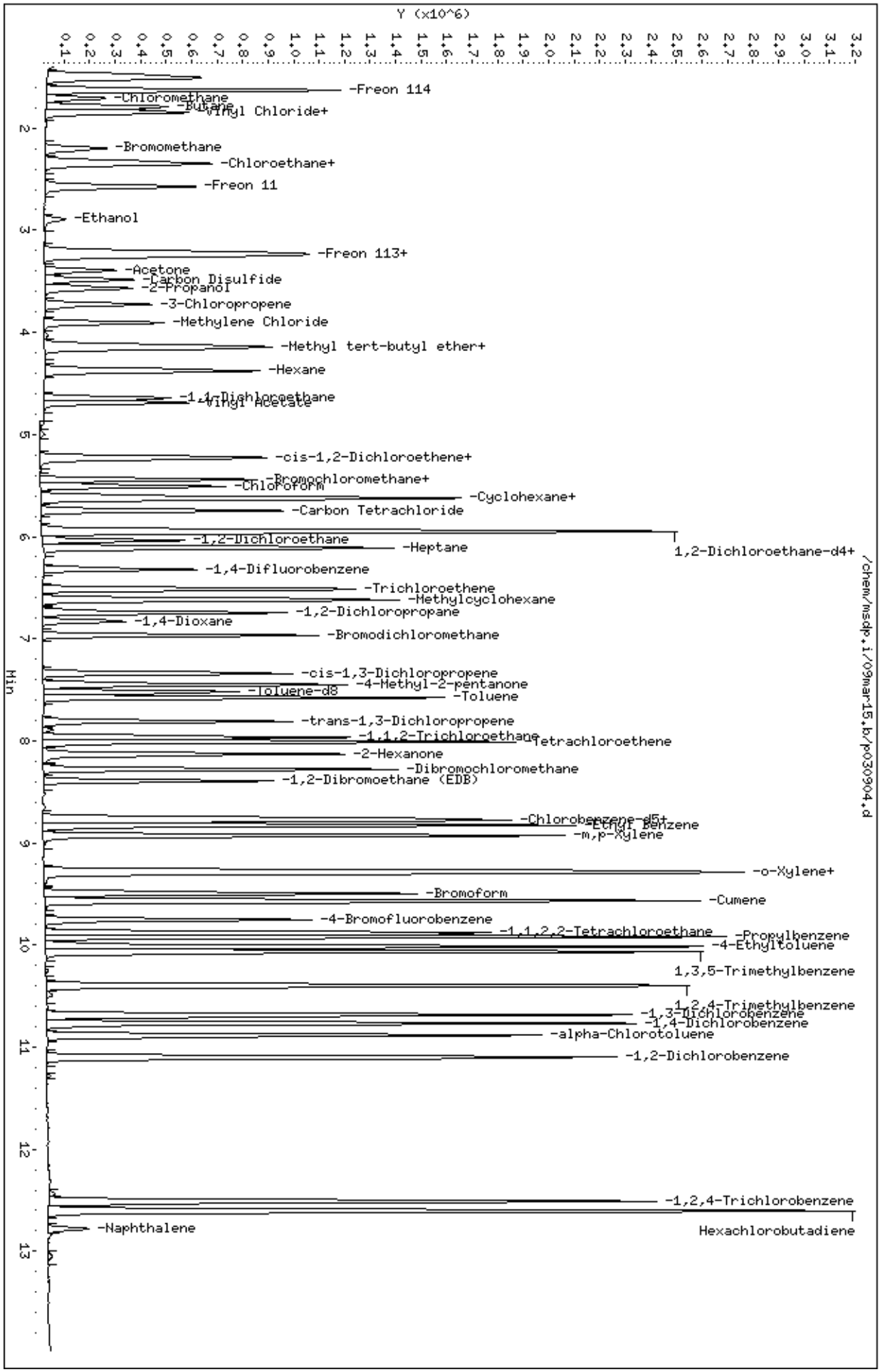
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	112401	-12.71
123 1,4-Difluorobenze	577007	346204	807810	517425	-10.33
163 Chlorobenzene-d5	578664	347198	810130	539482	-6.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.44	-0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.32	-0.23
163 Chlorobenzene-d5	8.78	8.45	9.11	8.75	-0.33

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

Data File: /chem/msdp.i/09mar15.b/p030904.d
Date : 09-MAR-2015 10:58
Client ID: LCS
Sample Info: 50ml #2716-100
Column phase: RTX-624

Instrument: msdp.i
Operator: js
Column diameter: 0.25



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Client Sample ID: LCSD

Lab ID#: 1503058H-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p030905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/9/15 11:21 AM**	

Compound	**%Recovery**	**Method Limits**
2-Propanol	95	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 09-Mar-2015 11:48

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 09mar15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: js
Data Type: MS DATA
SampleType: LCSD
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	50.000	43.843	87.69	70-130
11 Freon 12	50.000	45.521	91.04	70-130
15 Freon 114	50.000	46.561	93.12	70-130
17 Chloromethane	50.000	44.248	88.50	70-130
23 Butane	50.000	49.557	99.11	70-130
25 Vinyl Chloride	50.000	45.837	91.67	70-130
26 1,3-Butadiene	50.000	44.339	88.68	70-130
29 Bromomethane	50.000	46.585	93.17	70-130
30 Chloroethane	50.000	43.388	86.78	70-130
31 Isopentane	50.000	44.648	89.30	70-130
35 Freon 11	50.000	45.996	91.99	70-130
42 Ethanol	50.000	45.552	91.10	70-130
49 Freon 113	50.000	44.710	89.42	70-130
50 1,1-Dichloroethene	50.000	44.013	88.03	70-130
52 Acetone	50.000	46.113	92.23	70-130
56 Carbon Disulfide	50.000	40.614	81.23	70-130
57 2-Propanol	50.000	47.542	95.08	70-130
58 3-Chloropropene	50.000	41.217	82.43	70-130
66 Methylene Chloride	50.000	44.415	88.83	70-130
72 Methyl tert-butyl	50.000	42.770	85.54	70-130
73 trans-1,2-Dichloro	50.000	40.195	80.39	70-130
78 Hexane	50.000	42.153	84.31	70-130
82 1,1-Dichloroethane	50.000	44.828	89.66	70-130
86 Vinyl Acetate	50.000	45.200	90.40	70-130
91 cis-1,2-Dichloroet	50.000	50.151	100.30	70-130
92 2-Butanone	50.000	46.252	92.50	70-130
99 Tetrahydrofuran	50.000	42.039	84.08	70-130
100 Chloroform	50.000	44.744	89.49	70-130
103 1,1,1-Trichloroeth	50.000	46.759	93.52	70-130
106 Carbon Tetrachlori	50.000	46.839	93.68	70-130
102 Cyclohexane	50.000	45.665	91.33	70-130
113 2,2,4-Trimethylpen	50.000	45.953	91.91	70-130
116 Benzene	50.000	44.797	89.59	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	50.000	46.792	93.58	70-130
121 Heptane	50.000	41.704	83.41	70-130
125 Trichloroethene	50.000	45.601	91.20	70-130
127 Methylcyclohexane	50.000	45.820	91.64	70-130
132 1,2-Dichloropropan	50.000	47.002	94.00	70-130
136 1,4-Dioxane	50.000	46.265	92.53	70-130
138 Bromodichlorometha	50.000	46.077	92.15	70-130
144 cis-1,3-Dichloropr	50.000	44.252	88.50	70-130
145 4-Methyl-2-pentano	50.000	44.452	88.91	70-130
147 Toluene	50.000	45.489	90.98	70-130
150 trans-1,3-Dichloro	50.000	45.365	90.73	70-130
155 1,1,2-Trichloroeth	50.000	44.697	89.39	70-130
156 Tetrachloroethene	50.000	46.473	92.95	70-130
158 2-Hexanone	50.000	46.318	92.64	70-130
160 Dibromochlorometha	50.000	46.255	92.51	70-130
161 1,2-Dibromoethane	50.000	45.731	91.46	70-130
165 Chlorobenzene	50.000	45.121	90.24	70-130
167 Ethyl Benzene	50.000	43.590	87.18	70-130
169 m,p-Xylene	50.000	45.124	90.25	70-130
171 o-Xylene	50.000	46.450	92.90	70-130
172 Styrene	50.000	44.468	88.94	70-130
174 Bromoform	50.000	47.067	94.13	70-130
175 Cumene	50.000	45.090	90.18	70-130
181 1,1,2,2-Tetrachlor	50.000	45.390	90.78	70-130
182 Propylbenzene	50.000	45.766	91.53	70-130
188 4-Ethyltoluene	50.000	47.732	95.47	70-130
190 1,3,5-Trimethylben	50.000	45.898	91.80	70-130
196 1,2,4-Trimethylben	50.000	46.046	92.09	70-130
208 1,3-Dichlorobenzen	50.000	47.006	94.01	70-130
209 1,4-Dichlorobenzen	50.000	46.389	92.78	70-130
212 alpha-Chlorotoluen	50.000	48.956	97.91	70-130
214 1,2-Dichlorobenzen	50.000	45.961	91.92	70-130
226 1,2,4-Trichloroben	50.000	50.046	100.09	70-130
227 Hexachlorobutadien	50.000	48.902	97.80	70-130
228 Naphthalene	5.000	4.533	90.66	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	25.000	25.359	101.44	70-130
$ 146 Toluene-d8	25.000	25.007	100.03	70-130
$ 177 4-Bromofluorobenze	25.000	25.468	101.87	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msdp.i/09mar15.b/p030905.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 09-MAR-2015 11:21
Operator : js Inst ID: msdp.i
Smp Info : 50ml #2716-100
Misc Info : 50ppbv (200ppbv)
Comment : STANDARD LEVEL - GC/MS
Method : /chem/msdp.i/09mar15.b/p15q0217a.m
Meth Date : 09-Mar-2015 11:11 jscarbro Quant Type: ISTD
Cal Date : 17-FEB-2015 18:43 Cal File: p021715.d
Als bottle: 2 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	
5.456	5.448 (1.000)	130	110810	25.0000		80.00- 120.00	100.00
5.456	5.448 (1.000)	128	82959			48.50- 108.50	74.87
5.448	5.448 (1.000)	49	203940			157.33- 217.33	184.04
* 123 1,4-Difluorobenzene						CAS #: 540-36-3	
6.344	6.337 (1.000)	114	505191	25.0000		80.00- 120.00	100.00
6.337	6.337 (1.000)	88	76463			0.00- 45.39	15.14
* 163 Chlorobenzene-d5						CAS #: 3114-55-4	
8.765	8.779 (1.000)	117	519933	25.0000		80.00- 120.00	100.00
8.765	8.779 (1.000)	82	287879			24.18- 84.18	55.37
$ 117 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
5.986	5.986 (1.097)	65	175065	25.3588	25.359	80.00- 120.00	100.00
5.986	5.986 (1.097)	67	97172			27.69- 87.69	55.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.547	7.554 (1.190)	98	562346	25.0075	25.007	80.00- 120.00	100.00
7.547	7.554 (1.190)	70	59860			0.00- 41.30	10.64
7.547	7.554 (1.190)	100	367836			36.42- 96.42	65.41
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
9.739	9.761 (1.111)	174	329173	25.4680	25.468	80.00- 120.00	100.00
9.739	9.761 (1.111)	95	415675			101.88- 161.88	126.28
9.739	9.761 (1.111)	176	317048			68.14- 128.14	96.32
9 Propylene					CAS #: 115-07-1		
1.473	1.473 (0.270)	41	252963	43.8434	43.843	80.00- 120.00	100.00
1.473	1.473 (0.270)	42	170950			36.99- 96.99	67.58
1.473	1.473 (0.270)	39	168425			38.39- 98.39	66.58
11 Freon 12					CAS #: 75-71-8		
1.509	1.509 (0.277)	85	722225	45.5214	45.521	80.00- 120.00	100.00
1.509	1.509 (0.277)	87	236570			2.26- 62.26	32.76
15 Freon 114					CAS #: 76-14-2		
1.631	1.631 (0.299)	135	532085	46.5610	46.561	80.00- 120.00	100.00
1.631	1.631 (0.299)	137	166525			1.88- 61.88	31.30
17 Chloromethane					CAS #: 74-87-3		
1.709	1.709 (0.313)	50	283831	44.2480	44.248	80.00- 120.00	100.00
1.709	1.709 (0.313)	52	97120			2.05- 62.05	34.22
23 Butane					CAS #: 106-97-8		
1.788	1.788 (0.328)	58	72432	49.5570	49.557	80.00- 120.00	100.00
1.788	1.788 (0.328)	43	536888			755.09- 815.09	741.23
25 Vinyl Chloride					CAS #: 75-01-4		
1.824	1.824 (0.334)	62	315258	45.8373	45.837	80.00- 120.00	100.00
1.824	1.824 (0.334)	64	90401			0.00- 59.41	28.68
26 1,3-Butadiene					CAS #: 106-99-0		
1.853	1.853 (0.340)	54	281479	44.3389	44.339	80.00- 120.00	100.00
1.853	1.853 (0.340)	39	239858			59.70- 119.70	85.21
29 Bromomethane					CAS #: 74-83-9		
2.204	2.204 (0.404)	94	209854	46.5848	46.585	80.00- 120.00	100.00
2.204	2.204 (0.404)	96	198298			63.82- 123.82	94.49
30 Chloroethane					CAS #: 75-00-3		
2.318	2.318 (0.425)	64	134400	43.3884	43.388	80.00- 120.00	100.00
2.318	2.318 (0.425)	66	43052			0.16- 60.16	32.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
2.318	2.318 (0.425)	49	46517			3.29- 63.29	34.61
31 Isopentane					CAS #: 78-78-4		
2.347	2.347 (0.430)	43	381948	44.6475	44.648	80.00- 120.00	100.00
2.347	2.347 (0.430)	57	264866			36.45- 96.45	69.35
35 Freon 11					CAS #: 75-69-4		
2.576	2.576 (0.472)	101	714656	45.9959	45.996	80.00- 120.00	100.00
2.576	2.576 (0.472)	103	455537			33.91- 93.91	63.74
42 Ethanol					CAS #: 64-17-5		
2.898	2.891 (0.531)	45	137514	45.5521	45.552	80.00- 120.00	100.00
2.898	2.891 (0.531)	43	26483			0.00- 47.60	19.26
2.898	2.891 (0.531)	46	53427			8.33- 68.33	38.85
49 Freon 113					CAS #: 76-13-1		
3.228	3.221 (0.592)	151	420357	44.7103	44.710	80.00- 120.00	100.00
3.228	3.221 (0.592)	153	266542			33.05- 93.05	63.41
3.228	3.221 (0.592)	101	523011			95.24- 155.24	124.42
50 1,1-Dichloroethene					CAS #: 75-35-4		
3.249	3.249 (0.596)	98	151418	44.0135	44.013	80.00- 120.00	100.00
3.249	3.249 (0.596)	96	243961			130.75- 190.75	161.12
3.249	3.249 (0.596)	61	484171			284.15- 344.15	319.76
52 Acetone					CAS #: 67-64-1		
3.393	3.393 (0.622)	58	157996	46.1133	46.113	80.00- 120.00	100.00
3.393	3.393 (0.622)	43	458494			265.43- 325.43	290.19
56 Carbon Disulfide					CAS #: 75-15-0		
3.486	3.486 (0.639)	76	598368	40.6135	40.614	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
3.572	3.565 (0.655)	45	602880	47.5421	47.542	80.00- 120.00	100.00
3.572	3.565 (0.655)	43	103748			0.00- 46.95	17.21
3.565	3.565 (0.653)	59	22879			0.00- 33.74	3.79
58 3-Chloropropene					CAS #: 107-05-1		
3.729	3.729 (0.684)	76	106053	41.2174	41.217	80.00- 120.00	100.00
3.729	3.729 (0.684)	41	390323			356.64- 416.64	368.05
66 Methylene Chloride					CAS #: 75-09-2		
3.908	3.908 (0.716)	49	401236	44.4148	44.415	80.00- 120.00	100.00
3.908	3.908 (0.716)	84	209373			22.55- 82.55	52.18
3.908	3.908 (0.716)	51	124505			0.62- 60.62	31.03

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
4.138	4.130 (0.758)	73	687410	42.7701	42.770	80.00- 120.00	100.00
4.138	4.130 (0.758)	57	212401			0.85- 60.85	30.90
4.138	4.130 (0.758)	41	183561			0.00- 58.46	26.70
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.159	4.159 (0.762)	98	142331	40.1947	40.195	80.00- 120.00	100.00
4.159	4.159 (0.762)	61	382693			252.16- 312.16	268.88
4.159	4.159 (0.762)	96	219423			127.62- 187.62	154.16
78 Hexane					CAS #: 110-54-3		
4.381	4.374 (0.803)	57	541639	42.1532	42.153	80.00- 120.00	100.00
4.374	4.374 (0.802)	43	334155			34.48- 94.48	61.69
4.381	4.374 (0.803)	86	63917			0.00- 41.87	11.80
82 1,1-Dichloroethane					CAS #: 75-34-3		
4.646	4.646 (0.852)	63	553756	44.8275	44.828	80.00- 120.00	100.00
4.646	4.646 (0.852)	65	160003			0.00- 58.87	28.89
86 Vinyl Acetate					CAS #: 108-05-4		
4.689	4.689 (0.860)	86	69766	45.2001	45.200	80.00- 120.00	100.00
4.689	4.689 (0.860)	43	959182			2032.08-2092.08	1374.86
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
5.226	5.226 (0.958)	98	197285	50.1511	50.151	80.00- 120.00	100.00
5.226	5.226 (0.958)	96	311937			130.68- 190.68	158.11
5.226	5.226 (0.958)	61	497593			218.42- 278.42	252.22
92 2-Butanone					CAS #: 78-93-3		
5.248	5.248 (0.962)	72	138393	46.2516	46.252	80.00- 120.00	100.00
5.248	5.248 (0.962)	43	690732			505.18- 565.18	499.11
5.248	5.248 (0.962)	57	57826			13.03- 73.03	41.78
99 Tetrahydrofuran					CAS #: 109-99-9		
5.448	5.448 (0.999)	42	398343	42.0393	42.039	80.00- 120.00	100.00
5.448	5.448 (0.999)	71	118515			0.00- 59.69	29.75
5.448	5.448 (0.999)	72	122598			0.00- 59.70	30.78
100 Chloroform					CAS #: 67-66-3		
5.520	5.513 (1.012)	83	572113	44.7442	44.744	80.00- 120.00	100.00
5.520	5.513 (1.012)	85	374985			34.76- 94.76	65.54
102 Cyclohexane					CAS #: 110-82-7		
5.627	5.628 (1.032)	84	371733	45.6649	45.665	80.00- 120.00	100.00
5.627	5.628 (1.032)	56	626860			133.05- 193.05	168.63
5.627	5.628 (1.032)	41	297587			49.59- 109.59	80.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
5.642	5.642 (1.034)	97	626054	46.7590	46.759	80.00- 120.00	100.00
5.642	5.642 (1.034)	99	397344			34.17- 94.17	63.47
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.756	5.756 (1.055)	119	648349	46.8391	46.839	80.00- 120.00	100.00
5.756	5.756 (1.055)	117	667071			75.20- 135.20	102.89
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.957	5.957 (1.092)	57	1920132	45.9534	45.953	80.00- 120.00	100.00
5.957	5.957 (1.092)	56	630163			3.38- 63.38	32.82
5.957	5.957 (1.092)	41	431634			0.00- 53.72	22.48
116 Benzene					CAS #: 71-43-2		
5.971	5.971 (0.941)	78	868594	44.7970	44.797	80.00- 120.00	100.00
5.971	5.971 (0.941)	77	202610			0.00- 52.99	23.33
120 1,2-Dichloroethane					CAS #: 107-06-2		
6.057	6.057 (0.955)	62	456452	46.7915	46.792	80.00- 120.00	100.00
6.057	6.057 (0.955)	64	138865			0.03- 60.03	30.42
121 Heptane					CAS #: 142-82-5		
6.129	6.129 (0.966)	71	319792	41.7044	41.704	80.00- 120.00	100.00
6.129	6.129 (0.966)	43	708234			198.64- 258.64	221.47
6.129	6.129 (0.966)	57	396287			94.82- 154.82	123.92
125 Trichloroethene					CAS #: 79-01-6		
6.537	6.537 (1.030)	95	419240	45.6009	45.601	80.00- 120.00	100.00
6.537	6.537 (1.030)	130	424530			72.98- 132.98	101.26
6.537	6.537 (1.030)	97	269019			33.56- 93.56	64.17
127 Methylcyclohexane					CAS #: 108-87-2		
6.637	6.637 (1.046)	83	557976	45.8196	45.820	80.00- 120.00	100.00
6.645	6.637 (1.047)	98	262364			16.64- 76.64	47.02
6.637	6.637 (1.046)	55	611563			81.85- 141.85	109.60
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.766	6.766 (1.067)	63	418257	47.0015	47.002	80.00- 120.00	100.00
6.766	6.766 (1.067)	62	304741			41.08- 101.08	72.86
6.766	6.766 (1.067)	41	219012			22.96- 82.96	52.36
136 1,4-Dioxane					CAS #: 123-91-1		
6.852	6.852 (1.080)	88	221485	46.2651	46.265	80.00- 120.00	100.00
6.852	6.852 (1.080)	58	193944			59.66- 119.66	87.57
6.852	6.852 (1.080)	57	64649			0.00- 57.34	29.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
138 Bromodichloromethane						CAS #: 75-27-4	
6.996	6.996 (1.103)	83	695327	46.0772	46.077	80.00- 120.00	100.00
6.996	6.996 (1.103)	85	448369			34.26- 94.26	64.48
144 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
7.368	7.368 (1.161)	75	564306	44.2523	44.252	80.00- 120.00	100.00
7.368	7.368 (1.161)	77	174731			2.22- 62.22	30.96
7.368	7.368 (1.161)	39	304712			27.77- 87.77	54.00
145 4-Methyl-2-pentanone						CAS #: 108-10-1	
7.476	7.476 (1.178)	58	381342	44.4526	44.452	80.00- 120.00	100.00
7.476	7.476 (1.178)	43	930396			224.74- 284.74	243.98
7.476	7.476 (1.178)	85	129887			3.81- 63.81	34.06
147 Toluene						CAS #: 108-88-3	
7.604	7.604 (1.199)	91	1223023	45.4887	45.489	80.00- 120.00	100.00
7.604	7.604 (1.199)	92	707627			28.71- 88.71	57.86
150 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
7.841	7.841 (0.895)	75	545837	45.3655	45.365	80.00- 120.00	100.00
7.841	7.841 (0.895)	77	172419			1.83- 61.83	31.59
7.841	7.841 (0.895)	39	278671			23.84- 83.84	51.05
155 1,1,2-Trichloroethane						CAS #: 79-00-5	
7.998	7.998 (0.913)	97	427099	44.6973	44.697	80.00- 120.00	100.00
7.998	7.998 (0.913)	99	261769			31.26- 91.26	61.29
7.998	7.998 (0.913)	83	358949			55.61- 115.61	84.04
156 Tetrachloroethene						CAS #: 127-18-4	
8.041	8.041 (0.917)	166	597244	46.4732	46.473	80.00- 120.00	100.00
8.041	8.041 (0.917)	129	446737			46.18- 106.18	74.80
8.041	8.041 (0.917)	131	426183			43.79- 103.79	71.36
158 2-Hexanone						CAS #: 591-78-6	
8.163	8.163 (0.931)	58	536723	46.3176	46.318	80.00- 120.00	100.00
8.163	8.163 (0.931)	43	950260			148.17- 208.17	177.05
8.163	8.163 (0.931)	100	82796			0.00- 45.64	15.43
160 Dibromochloromethane						CAS #: 124-48-1	
8.306	8.306 (0.948)	129	785163	46.2553	46.255	80.00- 120.00	100.00
8.306	8.306 (0.948)	127	612807			47.19- 107.19	78.05
161 1,2-Dibromoethane (EDB)						CAS #: 106-93-4	
8.421	8.421 (0.961)	107	664281	45.7310	45.731	80.00- 120.00	100.00
8.421	8.421 (0.961)	109	628909			63.97- 123.97	94.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
165 Chlorobenzene					CAS #: 108-90-7		
8.794	8.801 (1.003)	112	1006822	45.1213	45.121	80.00- 120.00	100.00
8.794	8.801 (1.003)	114	326328			2.01- 62.01	32.41
8.794	8.801 (1.003)	77	568844			28.41- 88.41	56.50
167 Ethyl Benzene					CAS #: 100-41-4		
8.844	8.851 (1.009)	106	517721	43.5901	43.590	80.00- 120.00	100.00
8.844	8.851 (1.009)	91	1655198			279.43- 339.43	319.71
169 m,p-Xylene					CAS #: 108-38-3		
8.937	8.951 (1.020)	106	658704	45.1241	45.124	80.00- 120.00	100.00
8.937	8.951 (1.020)	91	1323637			168.86- 228.86	200.95
171 o-Xylene					CAS #: 95-47-6		
9.273	9.288 (1.058)	106	632513	46.4504	46.450	80.00- 120.00	100.00
9.273	9.288 (1.058)	91	1327255			184.06- 244.06	209.84
172 Styrene					CAS #: 100-42-5		
9.295	9.309 (1.060)	104	1014047	44.4683	44.468	80.00- 120.00	100.00
9.288	9.309 (1.060)	78	498973			19.31- 79.31	49.21
174 Bromoform					CAS #: 75-25-2		
9.488	9.503 (1.083)	173	775273	47.0667	47.067	80.00- 120.00	100.00
9.488	9.503 (1.083)	171	398803			21.41- 81.41	51.44
175 Cumene					CAS #: 98-82-8		
9.560	9.574 (1.091)	105	1973167	45.0895	45.090	80.00- 120.00	100.00
9.560	9.574 (1.091)	120	527416			0.00- 56.55	26.73
9.553	9.574 (1.090)	51	232448			0.00- 41.64	11.78
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
9.861	9.882 (1.125)	83	981283	45.3897	45.390	80.00- 120.00	100.00
9.861	9.882 (1.125)	85	634630			34.71- 94.71	64.67
182 Propylbenzene					CAS #: 103-65-1		
9.897	9.925 (1.129)	91	2404764	45.7657	45.766	80.00- 120.00	100.00
9.897	9.925 (1.129)	120	570272			0.00- 53.35	23.71
9.897	9.925 (1.129)	105	89783			0.00- 33.65	3.73
188 4-Ethyltoluene					CAS #: 622-96-8		
9.990	10.018 (1.140)	120	638747	47.7325	47.732	80.00- 120.00	100.00(H)
9.990	10.018 (1.140)	105	2066334			299.74- 359.74	323.50
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
10.040	10.069 (1.145)	120	838046	45.8984	45.898	80.00- 120.00	100.00
10.040	10.069 (1.145)	105	1759696			181.68- 241.68	209.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
10.369	10.398 (1.183)	120	772624	46.0456	46.046	80.00- 120.00	100.00
10.369	10.398 (1.183)	105	1684648			188.33- 248.33	218.04
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
10.649	10.685 (1.215)	146	1152038	47.0060	47.006	80.00- 120.00	100.00
10.649	10.685 (1.215)	148	727726			33.11- 93.11	63.17
10.649	10.685 (1.215)	111	471297			10.85- 70.85	40.91
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
10.735	10.763 (1.225)	146	1155658	46.3888	46.389	80.00- 120.00	100.00
10.735	10.763 (1.225)	148	738912			33.69- 93.69	63.94
10.728	10.763 (1.224)	111	454815			9.80- 69.80	39.36
212 alpha-Chlorotoluene					CAS #: 100-44-7		
10.849	10.878 (1.238)	91	1678303	48.9563	48.956	80.00- 120.00	100.00
10.849	10.878 (1.238)	126	362321			0.00- 51.03	21.59
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.057	11.093 (1.262)	146	1103627	45.9612	45.961	80.00- 120.00	100.00
11.057	11.093 (1.262)	148	708924			33.72- 93.72	64.24
11.057	11.093 (1.262)	111	465570			12.82- 72.82	42.19
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.454	12.497 (1.421)	180	972801	50.0456	50.046	80.00- 120.00	100.00
12.454	12.497 (1.421)	182	921080			65.12- 125.12	94.68
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.540	12.590 (1.431)	225	815466	48.9017	48.902	80.00- 120.00	100.00
12.540	12.590 (1.431)	223	507434			32.73- 92.73	62.23
228 Naphthalene					CAS #: 91-20-3		
12.712	12.762 (1.450)	128	184727	4.53281	4.533	80.00- 120.00	100.00
12.712	12.762 (1.450)	127	23571			0.00- 42.37	12.76

QC Flag Legend

H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdp.i
Lab File ID: p030905.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: js
Method File: /chem/msdp.i/09mar15.b/p15q0217a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 09-MAR-2015
Calibration Time: 09:40
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

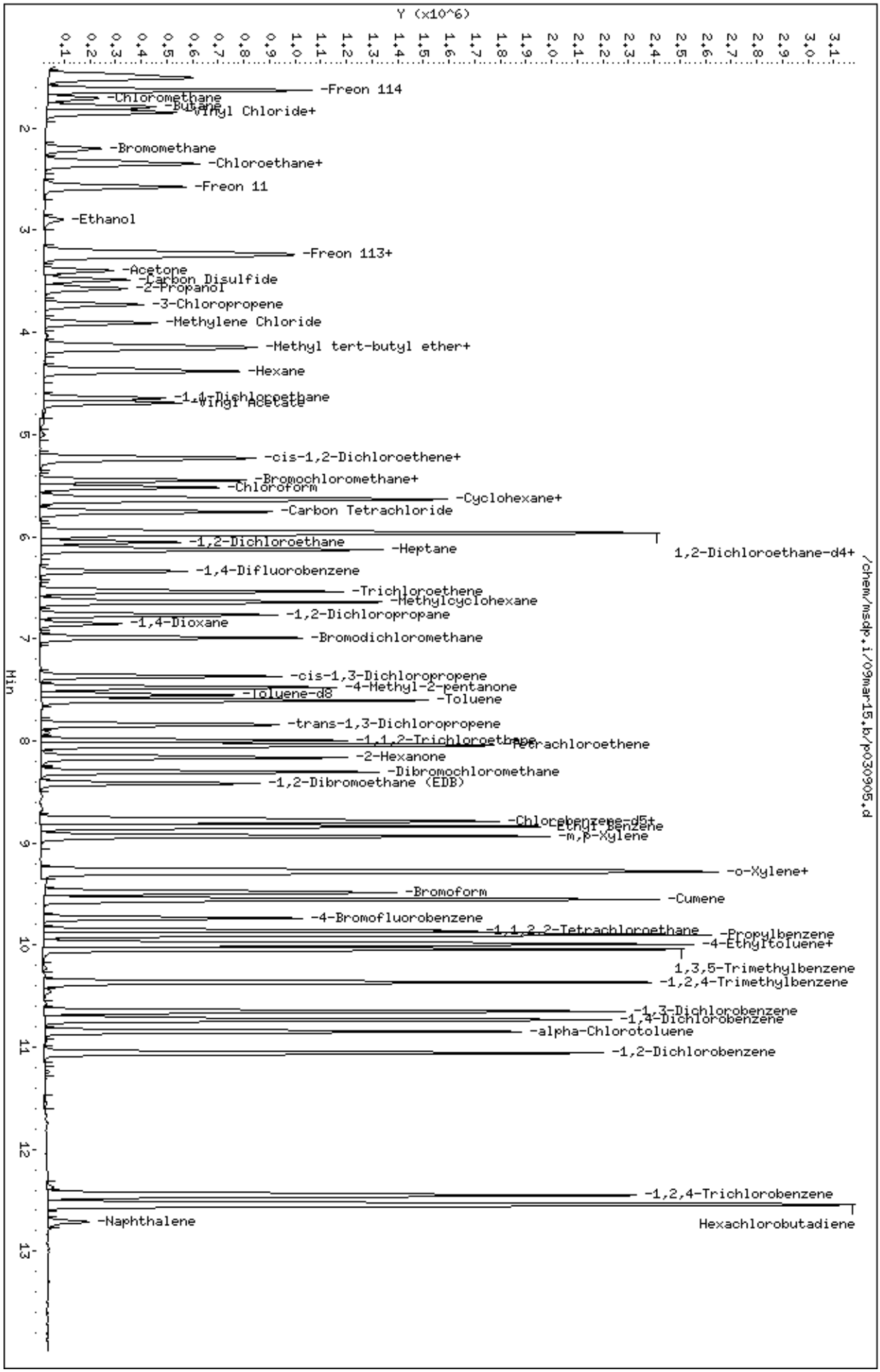
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	128772	77263	180281	110810	-13.95
123 1,4-Difluorobenze	577007	346204	807810	505191	-12.45
163 Chlorobenzene-d5	578664	347198	810130	519933	-10.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	5.45	5.12	5.78	5.46	0.13
123 1,4-Difluorobenze	6.34	6.01	6.67	6.34	0.11
163 Chlorobenzene-d5	8.78	8.45	9.11	8.76	-0.16

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

Data File: /chem/msdp.i/09mar15.b/p030905.d
Date : 09-MAR-2015 11:21
Client ID: LCSD
Sample Info: 50ml #2716-100
Column phase: RTX-624

Instrument: msdp.i
Operator: js
Column diameter: 0.25



MSDP

BFB verification of 176/174 ratio:(163264 /169600)*100= 96.26%			
IS/Surr Std#	2716-156	Exp. Date:	6/6/2015
BCM	128,772		
1,4-DFB	577,007		
CB-d5	578,664		

Method TO-15/TO-14			
SOP# 6			
Vacuum:	NA		
Please check all standards			
Surrogate# NA		Exp. Date:	NA
Surrogate# NA		Exp. Date:	NA

Verified CCV vs ICAL mid-point(-40%): js

Method: P15Q0217a

Use	File #	Enter/Scan Sample IDs	Canister#	Cart Pos.	Pressure	ml	DF	Verify Load	Loaded Init	Date Analyzed	Time Analyzed	Review Init	Comments
√	P030901	BFB	2716-156	NA	36ng	50ml	1.00	js	js	3/9/15	0855	js	
√	P030902	CCV	2716-57	NA	50ppbv (200ppbv)	50ml	1.00	js	js	3/9/15	0940	js	exp. 5/6/15; 0 out
X	P030903	LCS	2716-100	NA	50ppbv (200ppbv)	50ml	1.00	js	js	3/9/15	1013	js	exp. 5/16/15; can not open
√	P030904	LCS	2716-100	NA	50ppbv (200ppbv)	50ml	1.00	js	js	3/9/15	1058	js	exp. 5/16/15; 0 out
X	P030905	LCSD	2716-100	NA	50ppbv (200ppbv)	50ml	1.00	js	js	3/9/15	1121	js	exp. 5/16/15
√	P030906	Lab blank	34342	NA	Humid	200ml	1.00	js	js	3/9/15	1145	js	
√	P030907	1503058-01A	SH34188	NA	0.8 Hg->4.9 psi	200ml	1.37	js	js	3/9/15	1220	js	
√	P030908	1503058-03A	34011	NA	4.9 Hg->4.9 psi	50ml	6.37	js	js	3/9/15	1243	js	dil TC
√	P030909	1503058-04A	35132	NA	5.5 Hg->4.9 psi	50ml	6.53	js	js	3/9/15	1307	js	dil TC
√	P030910	1503058-02A	94305	NA	4.3 Hg->5 psi	30ml	10.4	js	js	3/9/15	1333	js	dil TC

3/9/15

3/9/15

Eurofins Air Toxics Inc.

Data file : /chem/msdp.i/17feb15.b/p021709a.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 17-FEB-2015 15:01
Operator : js Inst ID: msdp.i
Smp Info : 50ml #36041
Misc Info : Humid
Comment :
Method : /chem/msdp.i/17feb15.b/bfb30.m
Meth Date : 05-Feb-2015 22:17 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 2 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	1.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.761	9.898	-0.137	95	217002			100.00- 100.00	100.00
9.761	9.898	-0.137	50	48416			8.00- 40.00	22.31
9.761	9.898	-0.137	75	102872			30.00- 66.00	47.41
9.761	9.898	-0.137	96	13586			5.00- 9.00	6.26
9.761	9.898	-0.137	173	1608			0.00- 1.99	0.99
9.761	9.898	-0.137	174	162944			50.01- 120.00	75.09
9.761	9.898	-0.137	175	11455			4.00- 9.00	7.03
9.761	9.898	-0.137	176	157589			93.00- 101.00	96.71
9.761	9.898	-0.137	177	10586			5.00- 9.00	6.72

Data File: /chem/msdp.i/17feb15.b/p021709a.d

Date : 17-FEB-2015 15:01

Client ID: BFB

Instrument: msdp.i

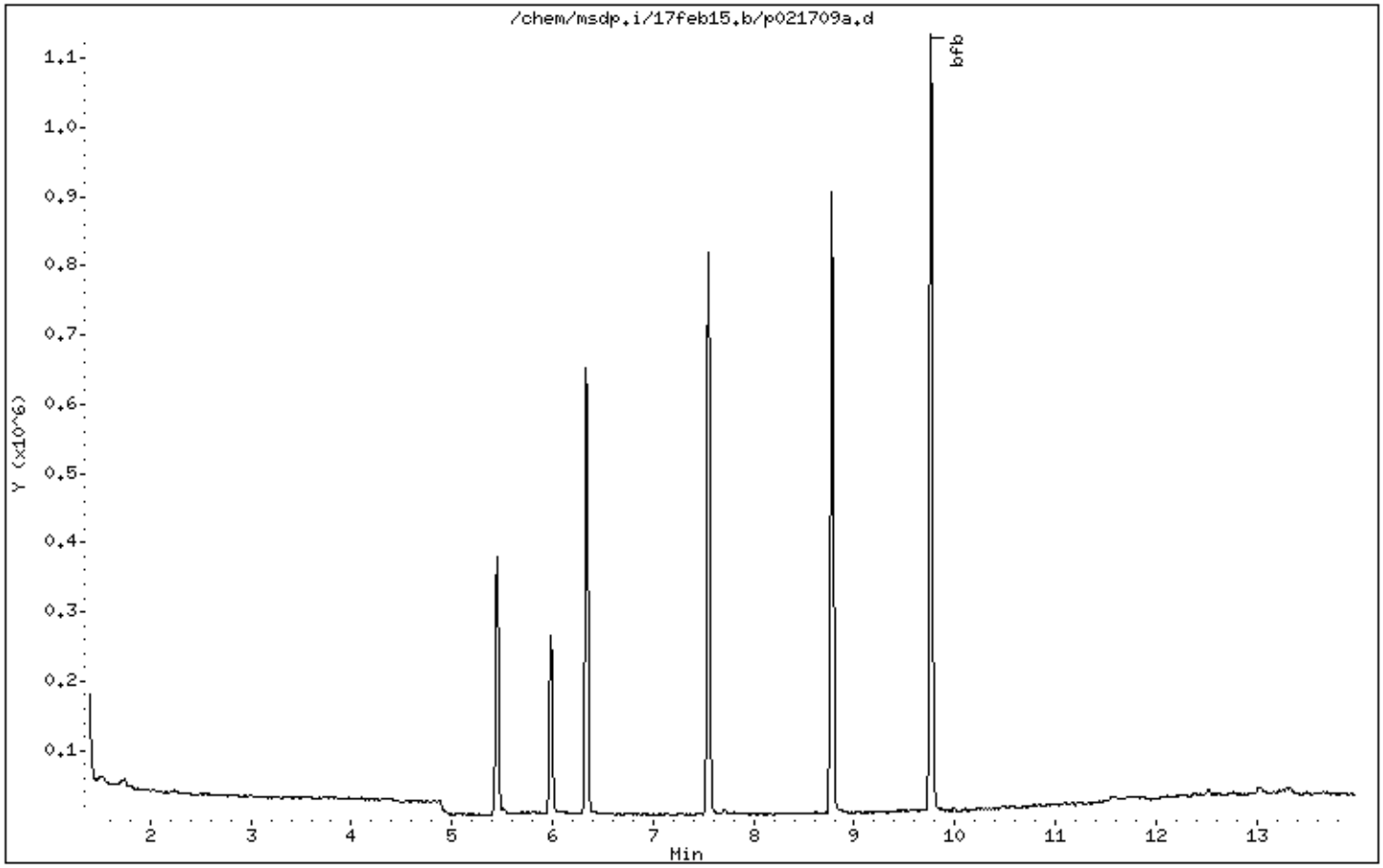
Sample Info: 50ml #36041

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00



Data File: /chem/msdp.i/17feb15.b/p021709a.d

Date : 17-FEB-2015 15:01

Client ID: BFB

Instrument: msdp.i

Sample Info: 50ml #36041

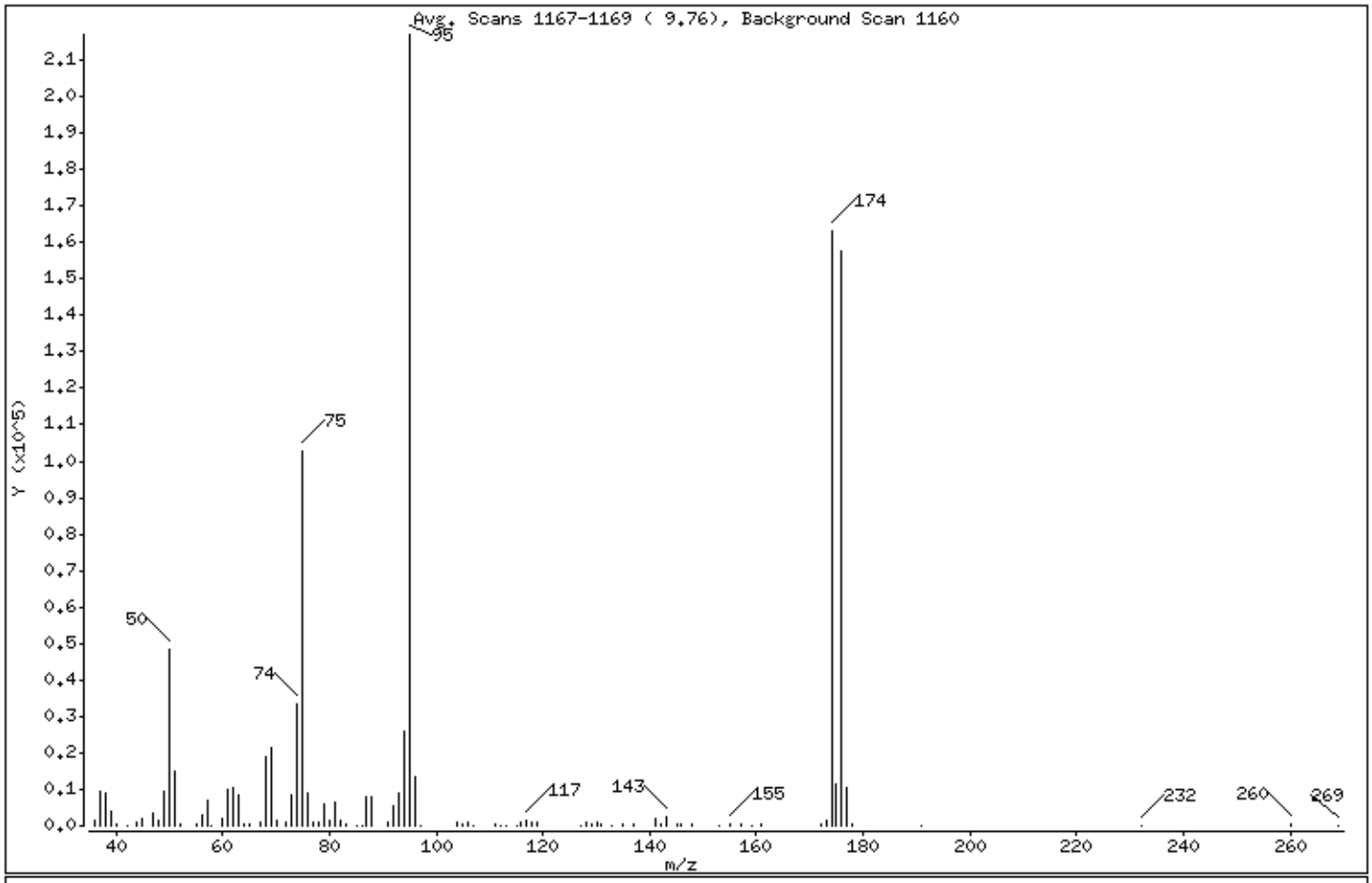
Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.31
75	30.00 - 66.00% of mass 95	47.41
96	5.00 - 9.00% of mass 95	6.26
173	Less than 1.99% of mass 174	0.74 (0.99)
174	50.01 - 120.00% of mass 95	75.09
175	4.00 - 9.00% of mass 174	5.28 (7.03)
176	93.00 - 101.00% of mass 174	72.62 (96.71)
177	5.00 - 9.00% of mass 176	4.88 (6.72)

Data File: /chem/msdp.i/17feb15.b/p021709a.d

Date : 17-FEB-2015 15:01

Client ID: BFB

Instrument: msdp.i

Sample Info: 50ml #36041

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00

Data File: p021709a.d
Spectrum: Avg. Scans 1167-1169 (9.76), Background Scan 1160
Location of Maximum: 95.00
Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1661	67.00	803	95.00	216960	142.00	272
37.00	9627	68.00	19192	96.00	13586	143.00	2628
38.00	8737	69.00	21528	97.00	241	145.00	281
39.00	3967	70.00	1323	104.00	1137	146.00	263
40.00	312	72.00	1075	105.00	359	148.00	464
42.00	156	73.00	8593	106.00	985	153.00	159
44.00	764	74.00	33368	107.00	245	155.00	484
45.00	1877	75.00	102872	111.00	310	157.00	319
47.00	3387	76.00	8833	112.00	242	159.00	67
48.00	1421	77.00	1048	113.00	235	161.00	332
49.00	9672	78.00	754	115.00	233	172.00	584
50.00	48416	79.00	5893	116.00	851	173.00	1608
51.00	14780	80.00	1480	117.00	1515	174.00	162944
52.00	705	81.00	6315	118.00	843	175.00	11455
55.00	493	82.00	1413	119.00	1165	176.00	157568
56.00	3114	83.00	290	127.00	76	177.00	10586
57.00	6834	85.00	68	128.00	873	178.00	444
58.00	162	86.00	83	129.00	466	191.00	195
60.00	2196	87.00	8217	130.00	817	232.00	98
61.00	10002	88.00	7899	131.00	337	260.00	357
62.00	10226	91.00	802	133.00	135	269.00	79
63.00	8350	92.00	5681	135.00	376		
64.00	697	93.00	8879	137.00	410		
65.00	284	94.00	25824	141.00	1866		

Eurofins Air Toxics Inc.

Data file : /var/chem/msdp.i/09mar15.b/p030901.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 09-MAR-2015 08:55
Operator : js Inst ID: msdp.i
Smp Info : 1.0ml 2716-156;BFB Tune Check
Misc Info : 36ng
Comment :
Method : /var/chem/msdp.i/09mar15.b/bfb30.m
Meth Date : 09-Mar-2015 09:18 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 12 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		
9.761	9.898	-0.137	95	223573			100.00- 100.00	100.00
9.761	9.898	-0.137	50	49237			8.00- 40.00	22.02
9.761	9.898	-0.137	75	109933			30.00- 66.00	49.17
9.761	9.898	-0.137	96	14645			5.00- 9.00	6.55
9.761	9.898	-0.137	173	1600			0.00- 1.99	0.94
9.761	9.898	-0.137	174	169600			50.01- 120.00	75.86
9.761	9.898	-0.137	175	12248			4.00- 9.00	7.22
9.761	9.898	-0.137	176	163264			93.00- 101.00	96.26
9.761	9.898	-0.137	177	10282			5.00- 9.00	6.30

Data File: /var/chem/msdp.i/09mar15.b/p030901.d

Date : 09-MAR-2015 08:55

Client ID: BFB

Instrument: msdp.i

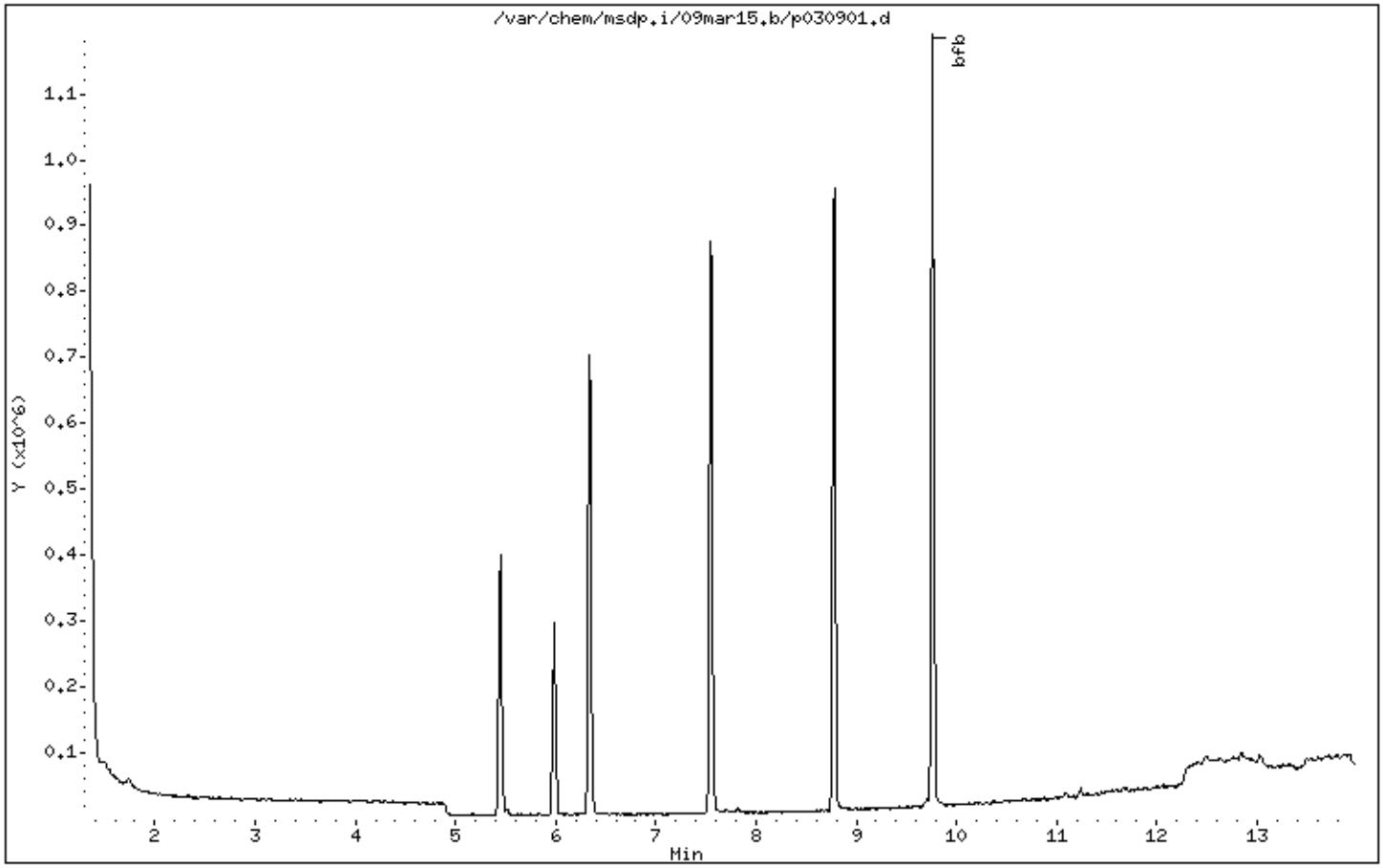
Sample Info: 1.0ml 2716-156;BFB Tune Check

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00



Data File: /var/chem/msdp.i/09mar15.b/p030901.d

Date : 09-MAR-2015 08:55

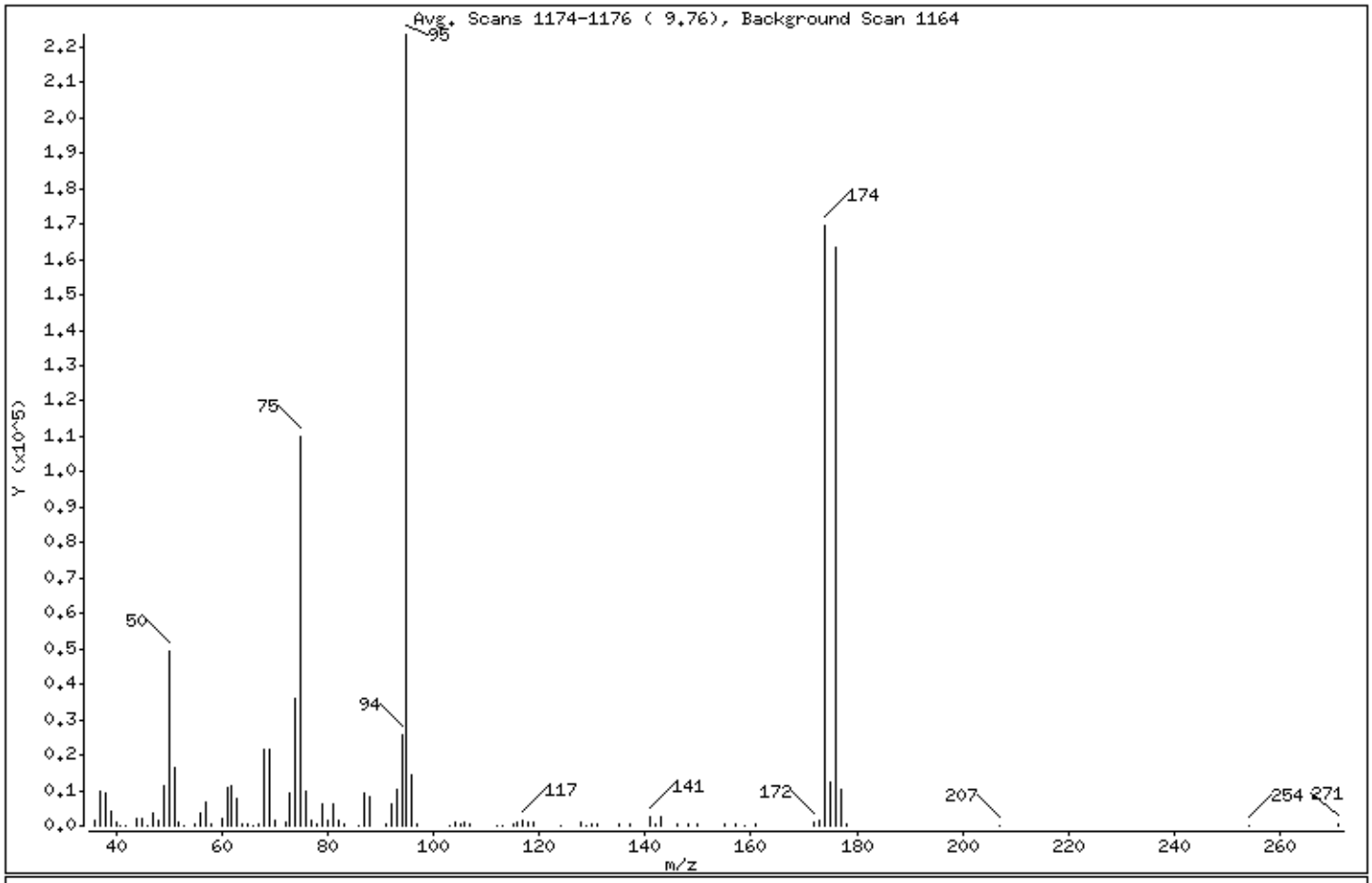
Client ID: BFB Instrument: msdp.i

Sample Info: 1.0ml 2716-156;BFB Tune Check

Volume Injected (uL): 1.0 Operator: js

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.02
75	30.00 - 66.00% of mass 95	49.17
96	5.00 - 9.00% of mass 95	6.55
173	Less than 1.99% of mass 174	0.72 (0.94)
174	50.01 - 120.00% of mass 95	75.86
175	4.00 - 9.00% of mass 174	5.48 (7.22)
176	93.00 - 101.00% of mass 174	73.02 (96.26)
177	5.00 - 9.00% of mass 176	4.60 (6.30)

Data File: /var/chem/msdp.i/09mar15.b/p030901.d

Date : 09-MAR-2015 08:55

Client ID: BFB

Instrument: msdp.i

Sample Info: 1.0ml 2716-156;BFB Tune Check

Volume Injected (uL): 1.0

Operator: js

Column phase:

Column diameter: 2.00

Data File: p030901.d
Spectrum: Avg. Scans 1174-1176 (9.76), Background Scan 1164
Location of Maximum: 95.00
Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1751	63.00	7603	92.00	6192	137.00	400
37.00	9868	64.00	766	93.00	10060	141.00	2483
38.00	9247	65.00	760	94.00	25736	142.00	268
39.00	4060	66.00	74	95.00	223552	143.00	2444
40.00	882	67.00	467	96.00	14645	146.00	332
41.00	252	68.00	21800	97.00	382	148.00	572
42.00	98	69.00	21520	103.00	53	150.00	266
44.00	1978	70.00	1552	104.00	972	155.00	382
45.00	2101	72.00	1109	105.00	420	157.00	371
46.00	172	73.00	9401	106.00	955	159.00	213
47.00	3527	74.00	35824	107.00	356	161.00	317
48.00	1451	75.00	109928	112.00	170	172.00	808
49.00	11112	76.00	9747	113.00	169	173.00	1600
50.00	49232	77.00	1327	115.00	304	174.00	169600
51.00	16488	78.00	654	116.00	983	175.00	12248
52.00	773	79.00	5967	117.00	1626	176.00	163264
53.00	210	80.00	1628	118.00	909	177.00	10282
55.00	586	81.00	6216	119.00	1136	178.00	410
56.00	3506	82.00	1478	124.00	167	207.00	66
57.00	6711	83.00	301	128.00	894	254.00	69
58.00	499	86.00	150	129.00	236	271.00	265
60.00	2203	87.00	9007	130.00	595		
61.00	10818	88.00	8211	131.00	306		
62.00	11442	91.00	635	135.00	375		

Shipping/ Receiving Documents

eurofins | Air Toxics

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

Thank you for choosing Eurofins Air Toxics, Inc. (EATL). We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for accuracy.

For corrections call: **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) Terry Taylor
Company: AMAT Email:
Address: 2700 Westchester Ave City: Purchase State: NY Zip: 10577
Phone: 914-394-251-0400 Fax:

Project Info:
P.O. #:
Project #:
Project Name:

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	Final	Receipt	Final (psi)
01A	B6-AA-2	34188	3/2/15	0938	see below	30"	0"		
02A	B6-1IA	94305	3/2/15	1205		30"	5"		
03A	B6-2IA	34011	3/2/15	1208		30"	6"		
04A	B6-2IADup	35132	3/2/15	1208		30"	6"		
	B6-1SS	36415	3/2/15	1635		30"	5"		
	B6-2SS	33398	3/2/15	1508		30"	4"		
	B6-2SSDup	12379	3/2/15	1508		30"	6"		
	B6-AA-3	35142	3/3/15	0945	Hold For Analysis	30"	5"		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/3/15 1100	[signature]	3-4-15 1200
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Analyze for: Acetone, Benzene, Ethylbenzene, Isopropy Alcohol, Methanol, MIBK, Toluene, Xylene, and Methanol. Report to MDL

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	773032321463	NA	Good	Yes No (None)	1503058

Form 1293 rev.11

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 1503058H

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: 03/09/15 2:00 pm
Date Completed: 3/9/15
Date Received: 3/4/15
PO#:
Project#:

Total $: $ 560.00
Logged By: MS

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	B6-AA-2	TO-15	3/2/2015	0.8 "Hg	$135.00
02A	B6-1IA	TO-15	3/2/2015	4.3 "Hg	$135.00
03A	B6-2IA	TO-15	3/2/2015	4.9 "Hg	$135.00
04A	B6-2IADup	TO-15	3/2/2015	5.5 "Hg	$135.00
05A	Lab Blank	TO-15	NA	NA	$0.00
06A	CCV	TO-15	NA	NA	$0.00
07A	LCS	TO-15	NA	NA	$0.00
07AA	LCSD	TO-15	NA	NA	$0.00

Misc. ChargeseCVP (4) @ $5.00 each. $20.00

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

REMARKS: A 50% surcharge is applied for a 72 hour turnaround time.

TERMS:

Reporting Method: TO-15 (Sh)-2-Propanol only

Other Records

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7\text{psi} + \text{Final Pressure (psi)}}{14.7\text{psi} - [\text{Init. Pressure ("Hg)})*(14.7\text{psi}/30\text{"Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7\text{psi} + \text{Final Pressure (psi)}}{14.7\text{psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
0.0	1.34	2.02
0.2	1.35	2.03
0.4	1.36	2.05
0.5	1.36	2.05
0.6	1.37	2.06
0.8	1.38	2.08
1.0	1.39	2.09
1.2	1.40	2.10
1.4	1.40	2.12
1.5	1.41	2.13
1.6	1.42	2.13
1.8	1.42	2.15
2.0	1.44	2.16
2.2	1.45	2.18
2.4	1.46	2.20
2.5	1.46	2.20
2.6	1.47	2.21
2.8	1.48	2.23
3.0	1.49	2.24
3.2	1.50	2.26
3.4	1.51	2.28
3.5	1.52	2.29
3.6	1.52	2.30
3.8	1.53	2.31
4.0	1.55	2.33
4.2	1.56	2.35
4.4	1.57	2.37
4.5	1.58	2.38
4.6	1.58	2.39
4.8	1.60	2.40
5.0	1.61	2.42
5.2	1.62	2.44
5.4	1.63	2.46
5.5	1.64	2.47
5.6	1.65	2.48
5.8	1.66	2.50
6.0	1.68	2.52
6.2	1.69	2.55
6.4	1.70	2.57
6.5	1.71	2.58
6.6	1.72	2.59
6.8	1.73	2.61
7.0	1.75	2.64
7.2	1.76	2.66
7.4	1.78	2.68
7.5	1.79	2.69
7.6	1.79	2.70

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
7.7	1.80	2.72
7.8	1.81	2.73
8.0	1.83	2.76
8.2	1.84	2.78
8.4	1.86	2.81
8.5	1.87	2.82
8.6	1.88	2.83
8.8	1.90	2.86
9.0	1.91	2.89
9.2	1.93	2.91
9.4	1.95	2.94
9.5	1.96	2.96
9.6	1.97	2.97
9.8	1.99	3.00
10.0	2.01	3.03
10.2	2.03	3.06
10.4	2.05	3.09
10.5	2.06	3.11
10.6	2.07	3.12
10.8	2.09	3.16
11.0	2.12	3.19
11.2	2.14	3.22
11.4	2.16	3.26
11.5	2.17	3.28
11.6	2.18	3.29
11.8	2.21	3.33
12.0	2.23	3.37
12.2	2.26	3.40
12.4	2.28	3.44
12.5	2.30	3.46
12.6	2.31	3.48
12.8	2.34	3.52
13.0	2.36	3.56
13.2	2.39	3.61
13.4	2.42	3.65
13.5	2.44	3.67
13.6	2.45	3.70
13.8	2.48	3.74
14.0	2.51	3.79
14.2	2.54	3.84
14.4	2.58	3.88
14.5	2.59	3.91
14.6	2.61	3.94
14.8	2.64	3.99
15.0	2.68	4.04
15.2	2.72	4.10
15.4	2.75	4.15

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
15.5	2.77	4.18
15.6	2.79	4.21
15.8	2.83	4.27
16.0	2.87	4.33
16.2	2.91	4.39
16.4	2.96	4.46
16.5	2.98	4.49
16.6	3.00	4.52
16.8	3.05	4.59
17.0	3.09	4.66
17.2	3.14	4.74
17.4	3.19	4.81
17.5	3.22	4.85
17.6	3.24	4.89
17.8	3.30	4.97
18.0	3.35	5.05
18.2	3.41	5.14
18.4	3.47	5.22
18.5	3.50	5.27
18.6	3.53	5.32
18.8	3.59	5.41
19.0	3.65	5.51
19.2	3.72	5.61
19.4	3.79	5.72
19.5	3.83	5.77
19.6	3.87	5.83
19.8	3.94	5.94
20.0	4.02	6.06
20.2	4.10	6.18
20.4	4.19	6.31
20.5	4.23	6.38
20.6	4.28	6.45
20.8	4.37	6.59
21.0	4.47	6.73
21.2	4.57	6.89
21.4	4.67	7.05
21.5	4.73	7.13
21.6	4.79	7.22
21.8	4.90	7.39
22.0	5.03	7.58
22.4	5.29	7.98

Initial Vacuum (" of Hg)	5 psi Final Pressure Dilution Factor	15 psi Final Pressure Dilution Factor
22.5	5.36	8.08
22.6	5.43	8.19
22.8	5.58	8.42
23.0	5.74	8.66
23.2	5.91	8.91
23.4	6.09	9.18
23.5	6.19	9.32
23.6	6.28	9.47
23.8	6.48	9.78
24.0	6.70	10.10
24.2	6.93	10.45
24.4	7.18	10.82
24.5	7.31	11.02
24.6	7.45	11.22
24.8	7.73	11.66
25.0	8.04	12.12
25.2	8.38	12.63
25.4	8.74	13.18
25.5	8.93	13.47
25.6	9.14	13.78
25.8	9.57	14.43
26.0	10.05	15.15
26.2	10.58	15.95
26.4	11.17	16.84
26.5	11.49	17.32
26.6	11.82	17.83
26.8	12.56	18.94
27.0	13.40	20.20
27.2	14.36	21.65
27.4	15.46	23.31
27.5	16.08	24.24
27.6	16.75	25.26
27.8	18.27	27.55
28.0	20.10	30.31
28.2	22.34	33.67
28.4	25.13	37.88
28.5	26.80	40.41
28.6	28.72	43.29
28.8	33.50	50.51
29.0	40.20	60.61

Compound List

TO-15 (Sh)-2-Propanol only

CAS Number	Compound	Detection Limit ppbv	Type
67-63-0	2-Propanol	2.0	
17060-07-0	1,2-Dichloroethane-d4		
2037-26-5	Toluene-d8		
460-00-4	4-Bromofluorobenzene		

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 12/30/14
Workorder # 1503058H	Form F1.27	Revision #10	Revision date: 12/30/14	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: MDP 3/9/15	S2:	S3:	S4:
✓				■	Daily QC and ICAL met Criteria				
✓				■	Lumen QC and ICAL evaluation report initialed and in folder				
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:

2 prep only; J flag; Post QC

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
					Initials/Date	A1: 3/9/15	A2:	A3:	A4:
✓					Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
NA					a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg of instrument				
NA					Manual integrations/Bag or Can Dilution Forms/Re-pressurization Forms/Bag-Can Transfer Forms present (circle all that apply)				
✓				■	12/24 Hr clock time & Hold Time met for all samples				
					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: O1A full load O2A & O4A dil TC PPD ok, O2A

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/instrument/ Date	D1: 3/9/15	D2:	D3:	D4:
NA					■	CAR # (If applicable)				
✓					■	Spectra Verified (documentation of spectral defense included if applicable)				
NA					■	TICs resemble reference spectra/ TICs between sample dups. are consistent (if applicable)				
✓					■	Lab Narrative is correct				
NA					■	TPH/NMOC calculations complete and included in folder				

Special notes: J flag MDL; O2A–O4A Dil TC

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: UB 3/9/15	3rd Tier: (needed only for DOD or per client request)	
NA		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