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Electronic Comprehensive Validation Package (eCVP)

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COMPREHENSIVE VALIDATION PACKAGE

TO-15

INVENTORY SHEET

Work Order #: 1510223B

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Comments:

Completed by:

Vera Belitsky	Vera Belitsky / Document Control	11/10/15
(Signature)	(Print Name & Title)	(Date)

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WORK ORDER #: 1510223B

Work Order Summary

CLIENT:	Mr. Terry Taylor Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577	**BILL TO:**	Accounts Payable Anderson Mulholland & Associates, Inc. 2700 Westchester Avenue Suite 417 Purchase, NY 10577
PHONE:	(914) 251-0400	**P.O. #**	
FAX:		**PROJECT #**	BMS VI
DATE RECEIVED:	10/13/2015	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	10/16/2015		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
10A(cancelled)	B8SSV-2100915	TO-15		15 psi
11A	B8SSV-2101015	TO-15	5.1 "Hg	15 psi
12A	B8SSV-2D101015	TO-15	4.3 "Hg	15 psi
13A	Lab Blank	TO-15	NA	NA
14A	CCV	TO-15	NA	NA
15A	LCS	TO-15	NA	NA
15AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 10/16/15

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 Soil Gas
Anderson Mulholland & Associates, Inc.
Workorder# 1510223B

Three 1 Liter Summa Canister (100% Certified) samples were received on October 13, 2015. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

Receiving Notes

The Chain of Custody (COC) information for sample B42-2101015 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Sample B8SSV-2100915 was cancelled on 10/13/15 per client's request.

Analytical Notes

Dilution was performed on samples B8SSV-2101015 and B8SSV-2D101015 due to matrix interference.

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

Definition of Data Qualifying Flags

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)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
B8SSV-2101015	1510223B-11A	10/10/2015	10/13/2015	NA	6	10/16/2015	NA	Good
B8SSV-2D101015	1510223B-12A	10/10/2015	10/13/2015	NA	6	10/16/2015	NA	Good
Lab Blank	1510223B-13A	NA	NA	NA	NA	10/15/2015	NA	Good
CCV	1510223B-14A	NA	NA	NA	NA	10/15/2015	NA	Good
LCS	1510223B-15A	NA	NA	NA	NA	10/15/2015	NA	Good
LCSD	1510223B-15AA	NA	NA	NA	NA	10/15/2015	NA	Good

Sample Results and Raw Data

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

Client Sample ID: B8SSV-2101015

Lab ID#: 1510223B-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	40	35 J	100	89 J
Methylene Chloride	40	11 J	140	38 J
Methyl tert-butyl ether	40	240	150	850
Hexane	40	850	140	3000
cis-1,2-Dichloroethene	40	14 J	160	58 J
Cyclohexane	40	1900	140	6700
2,2,4-Trimethylpentane	40	210	190	960
Benzene	40	20 J	130	64 J
Heptane	40	2300	160	9400
Ethyl Benzene	40	50	180	220
m,p-Xylene	40	210	180	910
o-Xylene	40	34 J	180	150 J
Cumene	40	3300	200	16000
Propylbenzene	40	430	200	2100
4-Ethyltoluene	40	33 J	200	160 J
1,3,5-Trimethylbenzene	40	26 J	200	120 J
1,2,4-Trimethylbenzene	40	18 J	200	87 J

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Client Sample ID: B8SSV-2101015

Lab ID#: 1510223B-11A

EPA METHOD TO-15 GC/MS

File Name:	**14101541**	**Date of Collection:**	**10/10/15 1:15:00 PM**
Dil. Factor:	**8.10**	**Date of Analysis:**	**10/16/15 02:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	40	Not Detected	200	Not Detected
Freon 114	40	Not Detected	280	Not Detected
Chloromethane	160	Not Detected	330	Not Detected
Vinyl Chloride	40	35 J	100	89 J
1,3-Butadiene	40	Not Detected	90	Not Detected
Bromomethane	40	Not Detected	160	Not Detected
Chloroethane	160	Not Detected	430	Not Detected
Freon 11	40	Not Detected	230	Not Detected
Ethanol	160	Not Detected	300	Not Detected
Freon 113	40	Not Detected	310	Not Detected
1,1-Dichloroethene	40	Not Detected	160	Not Detected
Acetone	160	Not Detected	380	Not Detected
2-Propanol	160	Not Detected	400	Not Detected
Carbon Disulfide	40	Not Detected	130	Not Detected
3-Chloropropene	160	Not Detected	510	Not Detected
Methylene Chloride	40	11 J	140	38 J
Methyl tert-butyl ether	40	240	150	850
trans-1,2-Dichloroethene	40	Not Detected	160	Not Detected
Hexane	40	850	140	3000
1,1-Dichloroethane	40	Not Detected	160	Not Detected
2-Butanone (Methyl Ethyl Ketone)	160	Not Detected	480	Not Detected
cis-1,2-Dichloroethene	40	14 J	160	58 J
Tetrahydrofuran	40	Not Detected	120	Not Detected
Chloroform	40	Not Detected	200	Not Detected
1,1,1-Trichloroethane	40	Not Detected	220	Not Detected
Cyclohexane	40	1900	140	6700
Carbon Tetrachloride	40	Not Detected	250	Not Detected
2,2,4-Trimethylpentane	40	210	190	960
Benzene	40	20 J	130	64 J
1,2-Dichloroethane	40	Not Detected	160	Not Detected
Heptane	40	2300	160	9400
Trichloroethene	40	Not Detected	220	Not Detected
1,2-Dichloropropane	40	Not Detected	190	Not Detected
1,4-Dioxane	160	Not Detected	580	Not Detected
Bromodichloromethane	40	Not Detected	270	Not Detected
cis-1,3-Dichloropropene	40	Not Detected	180	Not Detected
4-Methyl-2-pentanone	40	Not Detected	160	Not Detected
Toluene	40	Not Detected	150	Not Detected
trans-1,3-Dichloropropene	40	Not Detected	180	Not Detected
1,1,2-Trichloroethane	40	Not Detected	220	Not Detected
Tetrachloroethene	40	Not Detected	270	Not Detected
2-Hexanone	160	Not Detected	660	Not Detected

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Client Sample ID: B8SSV-2101015

Lab ID#: 1510223B-11A

EPA METHOD TO-15 GC/MS

File Name:	**14101541**	**Date of Collection:**	**10/10/15 1:15:00 PM**
Dil. Factor:	**8.10**	**Date of Analysis:**	**10/16/15 02:37 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	40	Not Detected	340	Not Detected
1,2-Dibromoethane (EDB)	40	Not Detected	310	Not Detected
Chlorobenzene	40	Not Detected	190	Not Detected
Ethyl Benzene	40	50	180	220
m,p-Xylene	40	210	180	910
o-Xylene	40	34 J	180	150 J
Styrene	40	Not Detected	170	Not Detected
Bromoform	40	Not Detected	420	Not Detected
Cumene	40	3300	200	16000
1,1,2,2-Tetrachloroethane	40	Not Detected	280	Not Detected
Propylbenzene	40	430	200	2100
4-Ethyltoluene	40	33 J	200	160 J
1,3,5-Trimethylbenzene	40	26 J	200	120 J
1,2,4-Trimethylbenzene	40	18 J	200	87 J
1,3-Dichlorobenzene	40	Not Detected	240	Not Detected
1,4-Dichlorobenzene	40	Not Detected	240	Not Detected
alpha-Chlorotoluene	40	Not Detected	210	Not Detected
1,2-Dichlorobenzene	40	Not Detected	240	Not Detected
1,2,4-Trichlorobenzene	160	Not Detected	1200	Not Detected
Hexachlorobutadiene	160	Not Detected	1700	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	98	70-130

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EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101541.d
Lab Smp Id: 1510223B-11A
Inj Date : 16-OCT-2015 14:37
Operator : cb Inst ID: msd14.i
Smp Info : 15ml #12362
Misc Info : 5.1"Hg -> 15psi
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 16-Oct-2015 12:53 ejakob Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1
Dil Factor: 8.10000
Integrator: HP RTE Compound Sublist: TO15mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	8.10000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	49832	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	39432			48.38- 108.38	79.13
4.739	4.739 (1.000)	49	79553			122.49- 182.49	159.64
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	235054	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	41818			0.00- 47.28	17.79
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	211032	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	602090			33.96- 93.96	285.31
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	98696	449.607	449.61	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	56851			22.50- 82.50	57.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	264934	425.729	425.73	80.00- 120.00	100.00
7.635	7.621 (1.306)	70	59074			0.00- 42.36	22.30
7.621	7.621 (1.304)	100	161581			36.13- 96.13	60.99
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	117888	390.012	390.01	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	171186			113.45- 173.45	145.21
10.951	10.951 (1.115)	176	111699			68.10- 128.10	94.75
25 Vinyl Chloride					CAS #: 75-01-4		
1.521	1.506 (0.321)	62	960	4.31841	34.979	80.00- 120.00	100.00(a)
1.521	1.506 (0.321)	64	338			1.45- 61.45	35.23
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	389	1.34264	10.875	80.00- 120.00	100.00(a)
3.144	3.172 (0.663)	84	3365			42.33- 102.33	863.87
3.144	3.158 (0.663)	51	842			1.58- 61.58	216.40
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	15313	29.0645	235.42	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	4224			0.00- 54.23	27.59
3.353	3.353 (0.708)	41	4220			0.00- 52.85	27.56
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	42297	104.599	847.26	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	23750			29.53- 89.53	56.15
3.577	3.577 (0.755)	86	7251			0.00- 47.08	17.14
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	637	1.79690	14.555	80.00- 120.00	100.00(a)
4.487	4.487 (0.947)	96	429			40.63- 100.63	67.46
4.487	4.487 (0.947)	98	305			13.70- 73.70	47.96
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.920 (1.038)	84	83114	239.300	1938.3	80.00- 120.00	100.00
4.921	4.920 (1.038)	56	133798			89.66- 149.66	160.98
4.921	4.920 (1.038)	41	75035			35.66- 95.66	90.28
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	32397	25.5165	206.68	80.00- 120.00	100.00
5.312	5.326 (1.121)	56	37921			3.74- 63.74	117.05
5.312	5.326 (1.121)	41	30668			0.00- 57.60	94.66
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	1888	2.45907	19.918	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
116 Benzene (continued)							
5.396	5.340 (0.923)	77	1614			0.00- 54.57	85.48
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	78487	282.421	2287.6	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	125013			135.26- 195.26	159.28
5.564	5.564 (0.952)	100	25351			2.82- 62.82	32.30
167 Ethyl Benzene					CAS #: 100-41-4		
9.958	9.944 (1.014)	106	2393	6.22180	50.396	80.00- 120.00	100.00
9.958	9.944 (1.014)	91	25369			302.14- 362.14	1059.98
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.083 (1.027)	106	12101	25.9619	210.29	80.00- 120.00	100.00
10.084	10.083 (1.027)	91	29521			180.25- 240.25	243.94
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	1825	4.16722	33.754	80.00- 120.00	100.00(a)
10.461	10.461 (1.066)	91	4509			199.46- 259.46	246.99
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	560187	410.542	3325.4	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	136615			0.00- 55.22	24.39
10.769	10.769 (1.097)	51	73922			0.00- 41.79	13.20
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	90201	52.9695	429.05	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	13521			0.00- 50.77	14.99
11.105	11.105 (1.131)	105	3904			0.00- 33.59	4.33
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	5435	4.09367	33.159	80.00- 120.00	100.00(a)
11.189	11.203 (1.140)	120	1448			0.00- 57.71	26.64
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	3561	3.16097	25.604	80.00- 120.00	100.00(a)
11.245	11.245 (1.145)	120	1440			15.95- 75.95	40.44
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	2314	2.19129	17.749	80.00- 120.00	100.00(a)
11.511	11.511 (1.172)	120	957			13.66- 73.66	41.39

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101541.d
Lab Smp Id: 1510223B-11A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 5.1"Hg -> 15psi

Calibration Date: 15-OCT-2015
Calibration Time: 16:53

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	49832	-4.38
123 1,4-Difluorobenze	239209	143525	334893	235054	-1.74
163 Chlorobenzene-d5	200350	120210	280490	211032	5.33

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

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

Report Date: 16-Oct-2015 16:09

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510223B-11A
Level: LOW
Operator: cb
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15mdl.sub
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 5.1"Hg -> 15psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	449.61	112.40	70-130
$ 146 Toluene-d8	400.00	425.73	106.43	70-130
$ 177 4-Bromofluorobenze	400.00	390.01	97.50	70-130

Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

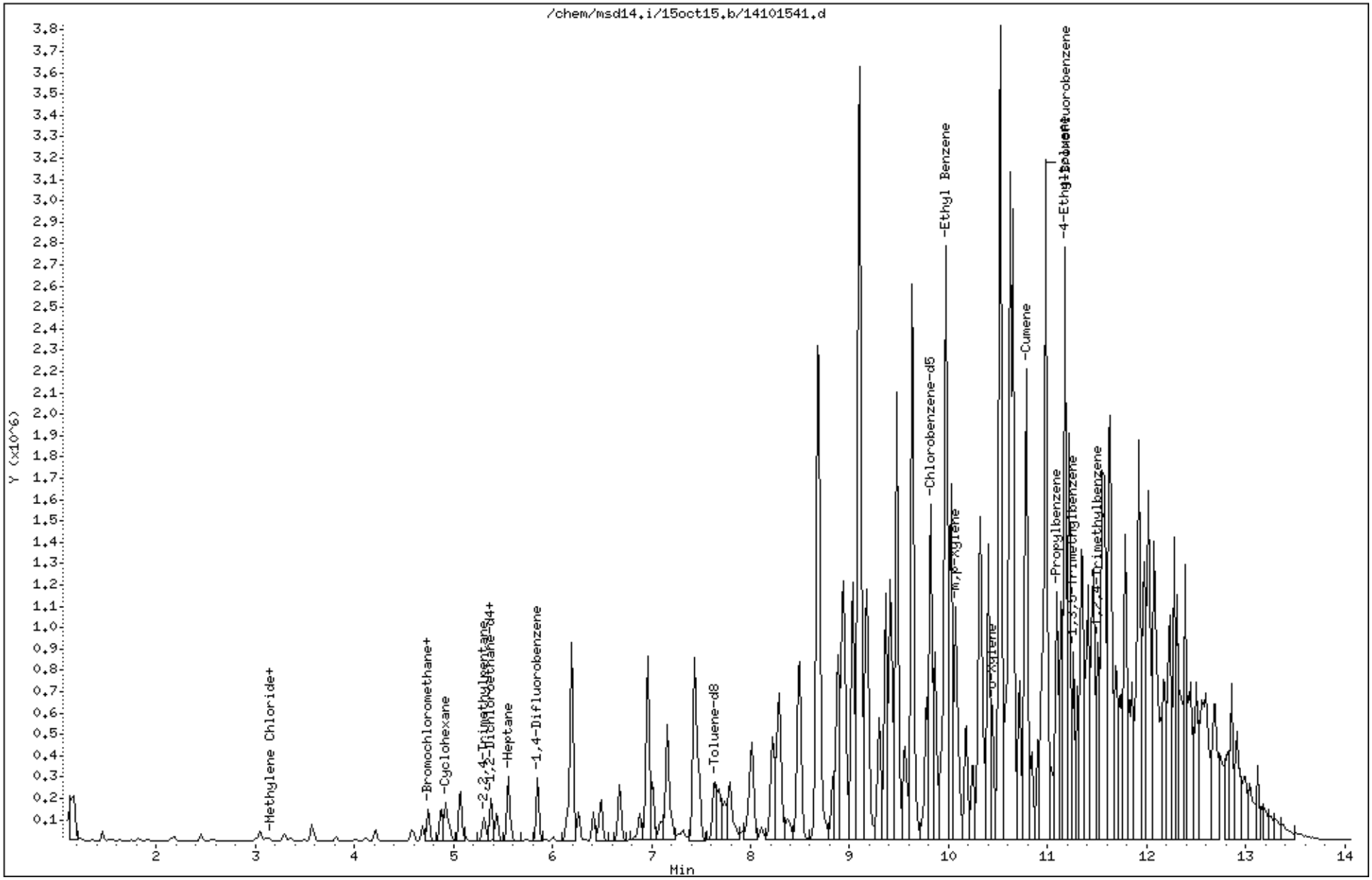
Sample Info: 15ml #12362

Column phase: RTX-624

Instrument: msd14.i

Operator: cb

Column diameter: 0.18



Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

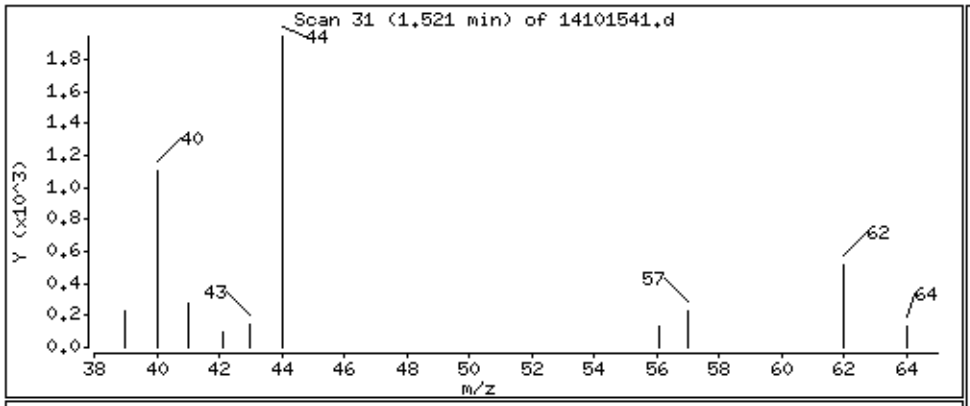
Operator: cb

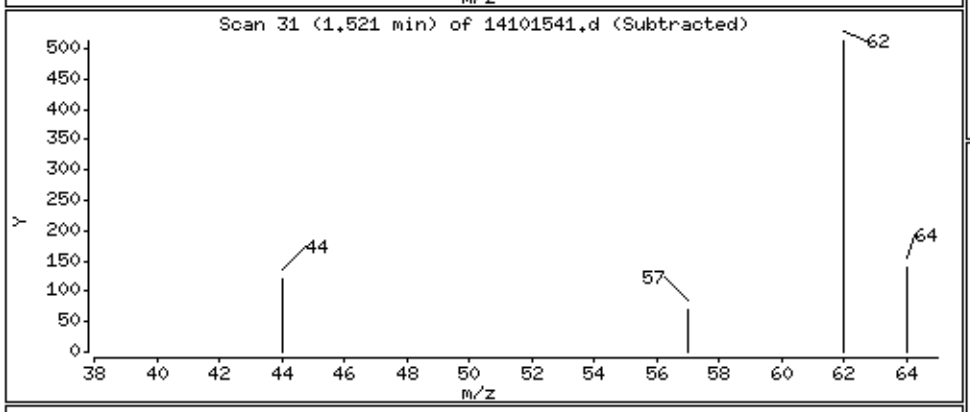
Column phase: RTX-624

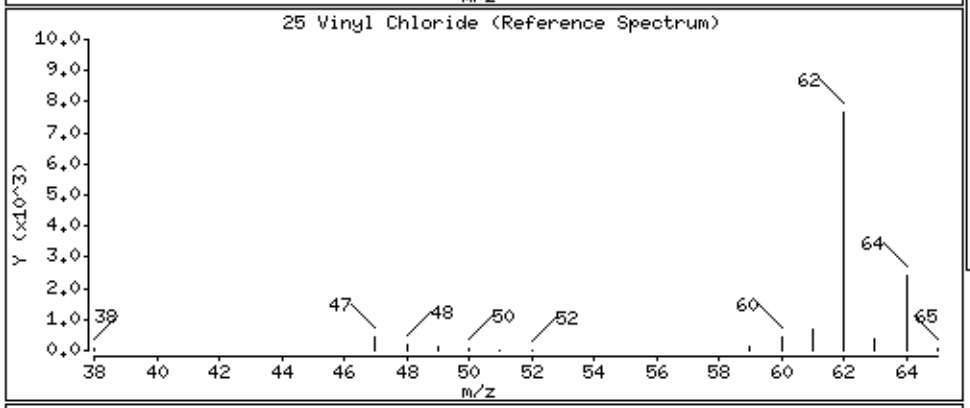
Column diameter: 0.18

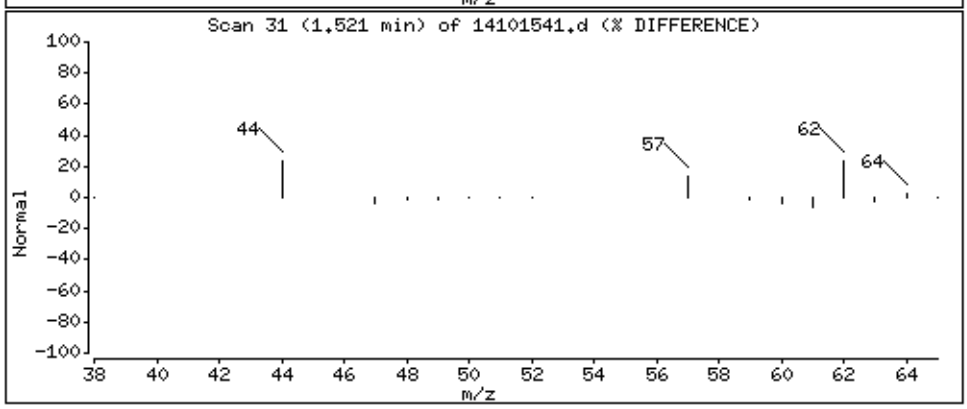
25 Vinyl Chloride

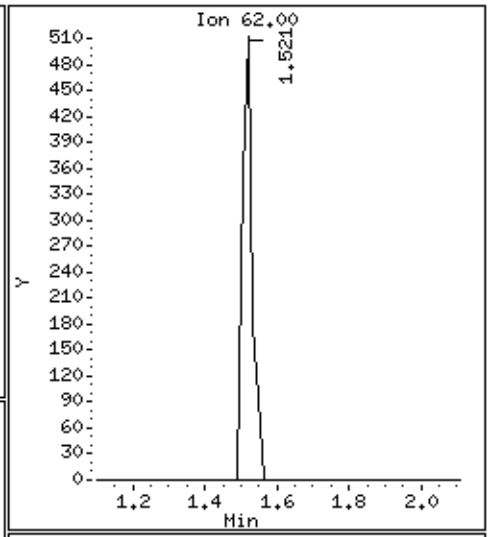
Concentration: 34.979 PPBV

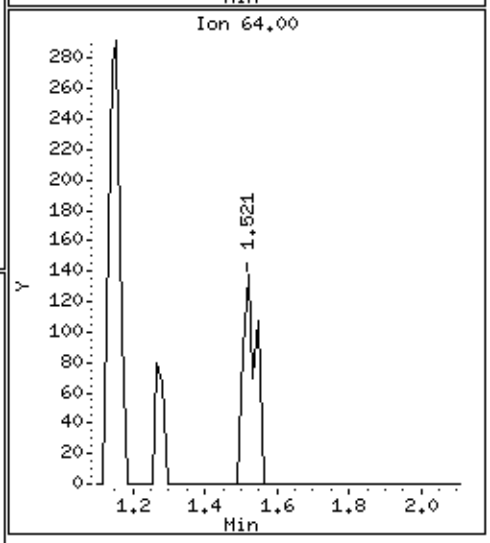












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

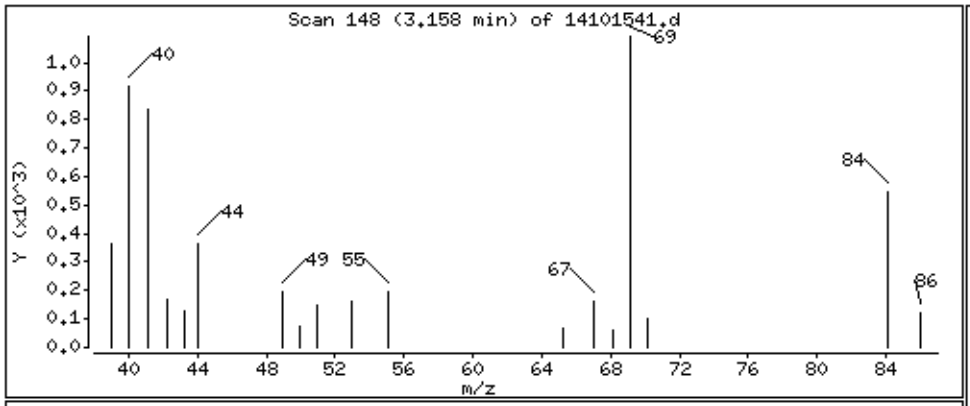
Operator: cb

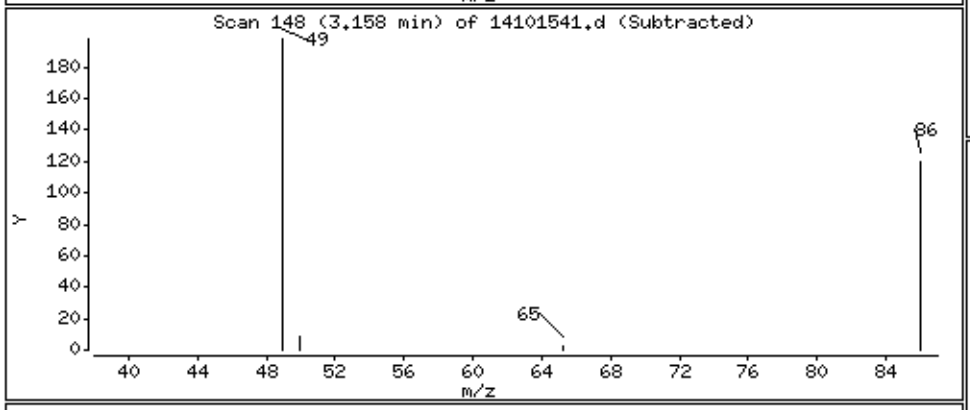
Column phase: RTX-624

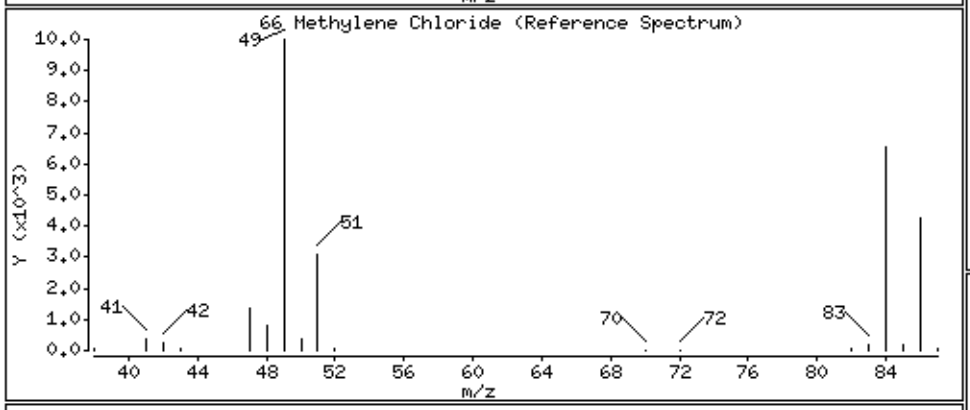
Column diameter: 0.18

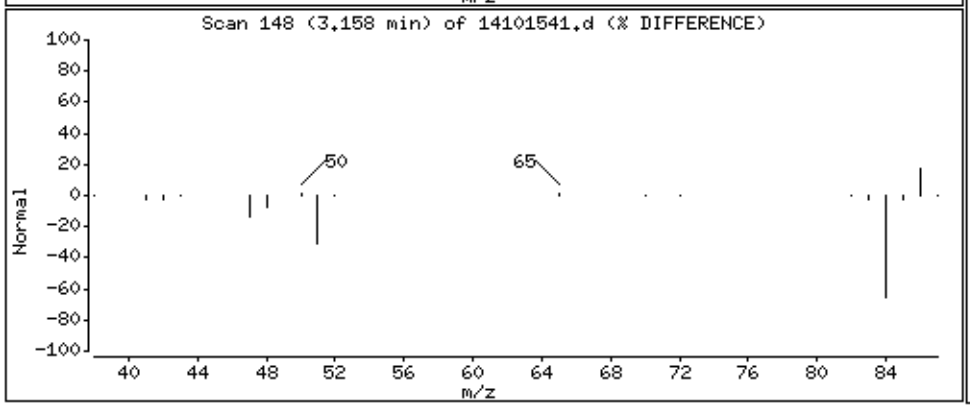
66 Methylene Chloride

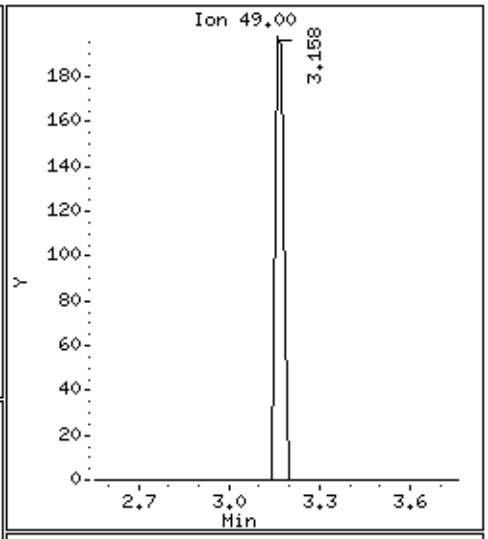
Concentration: 10.875 PPBV

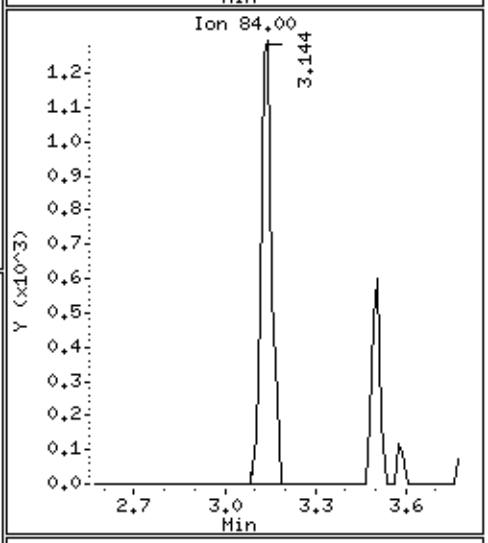


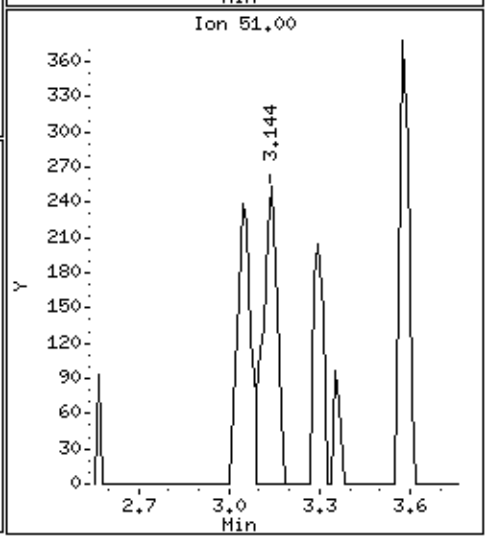












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

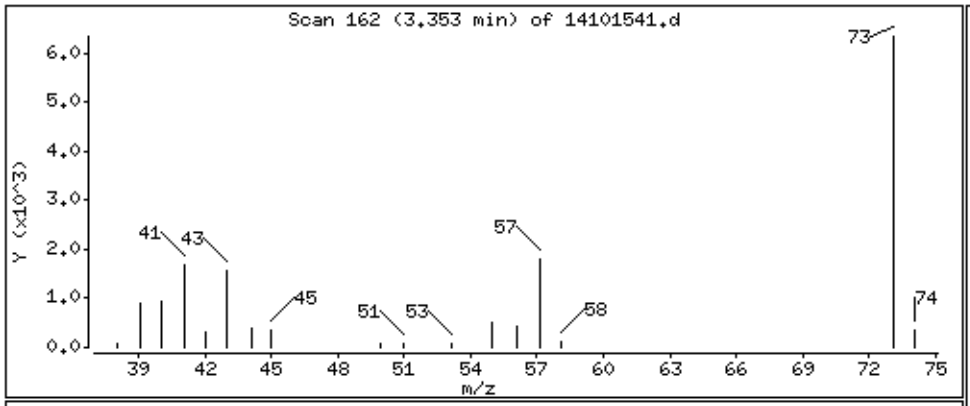
Operator: cb

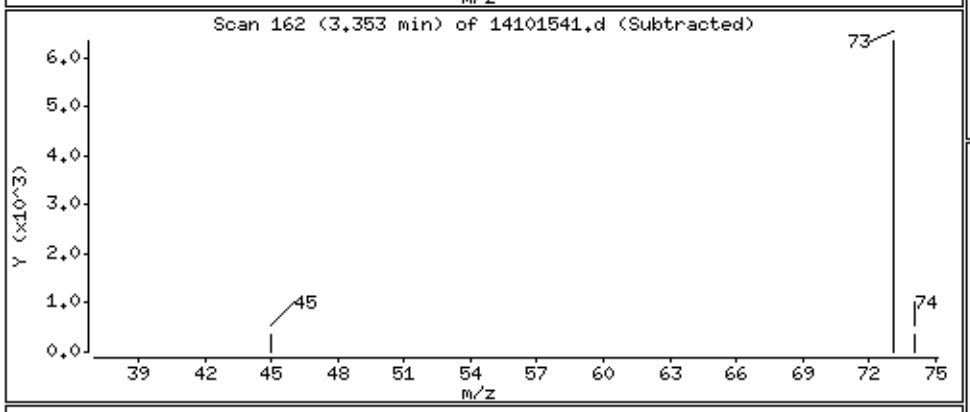
Column phase: RTX-624

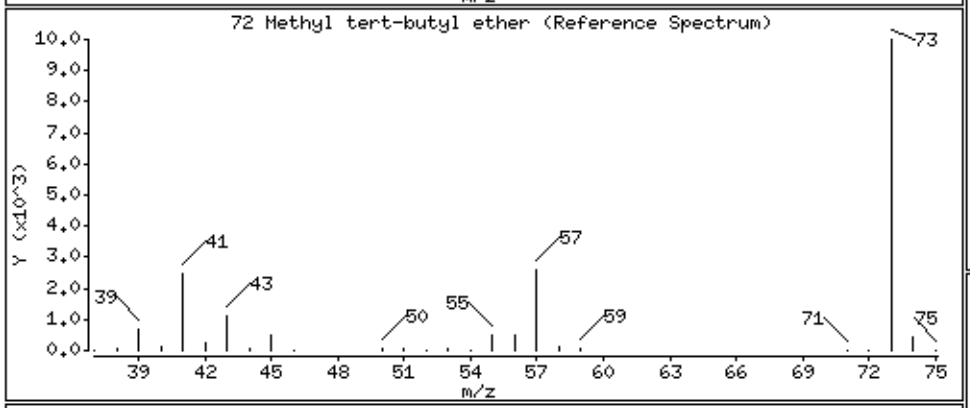
Column diameter: 0.18

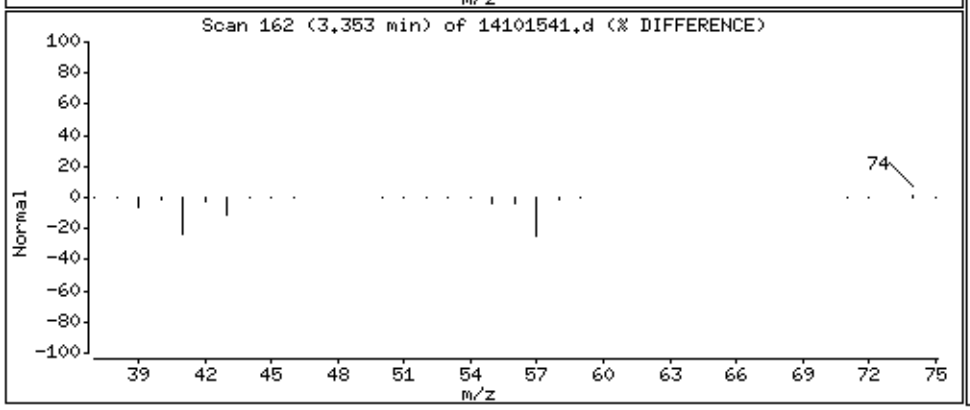
72 Methyl tert-butyl ether

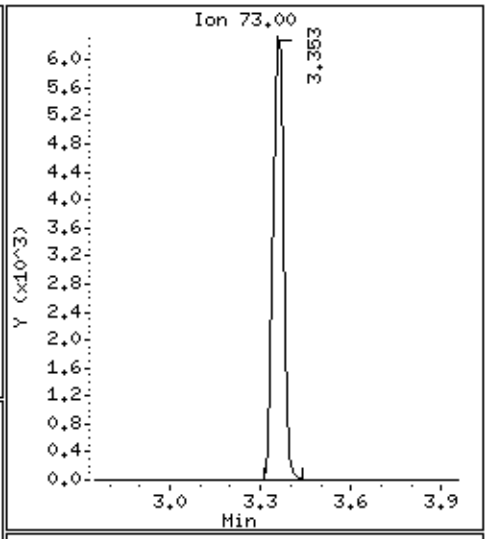
Concentration: 235.42 PPBV

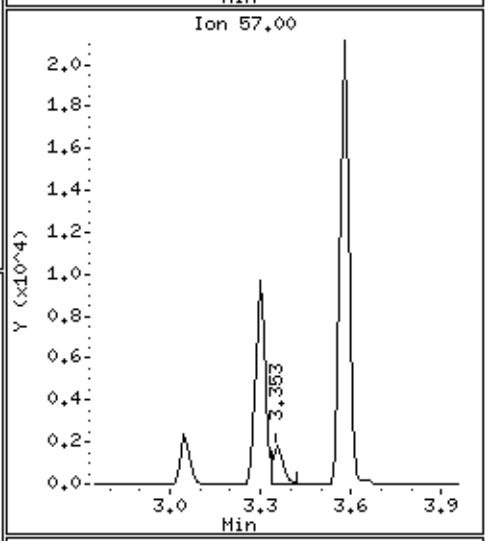


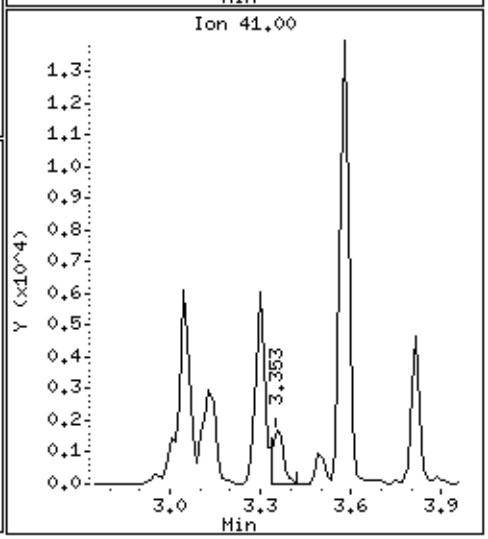












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

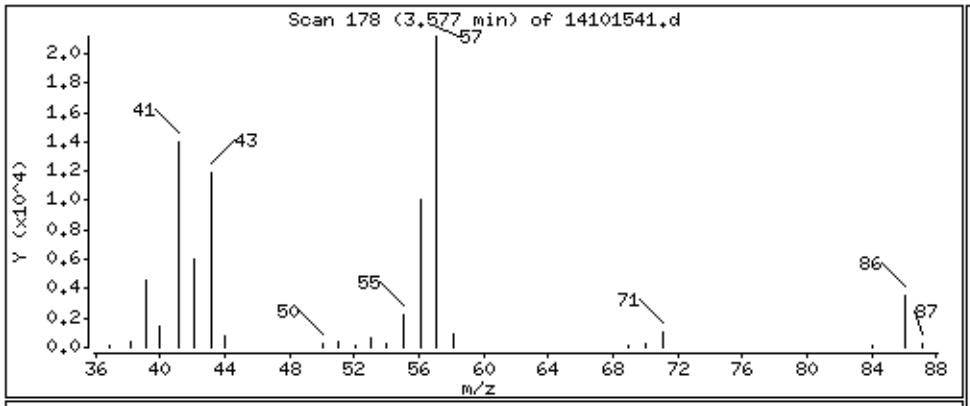
Operator: cb

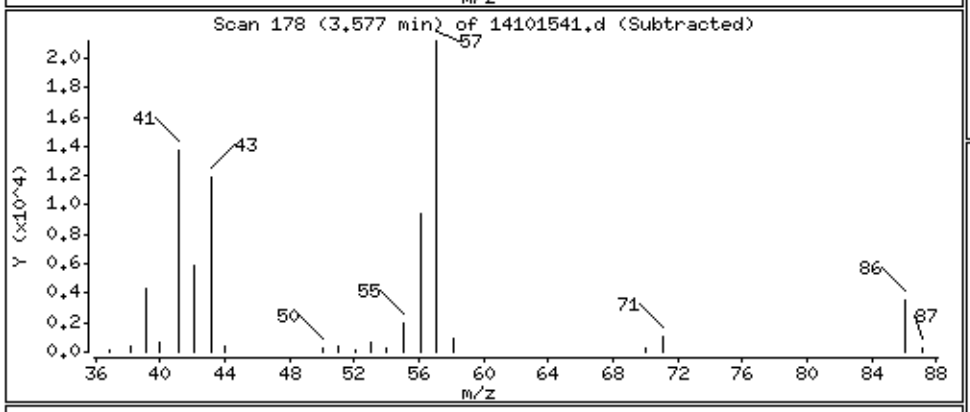
Column phase: RTX-624

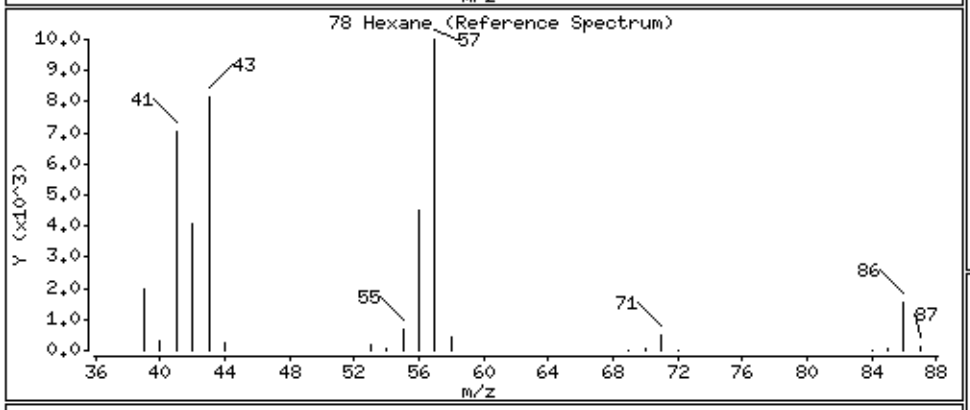
Column diameter: 0.18

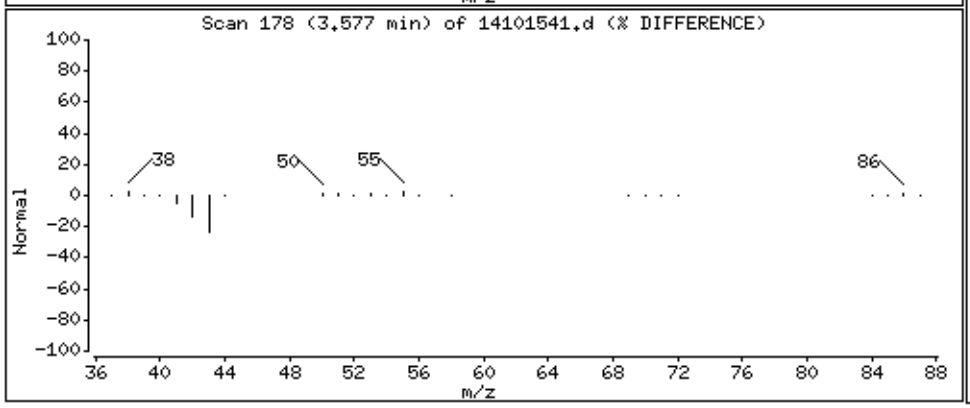
78 Hexane

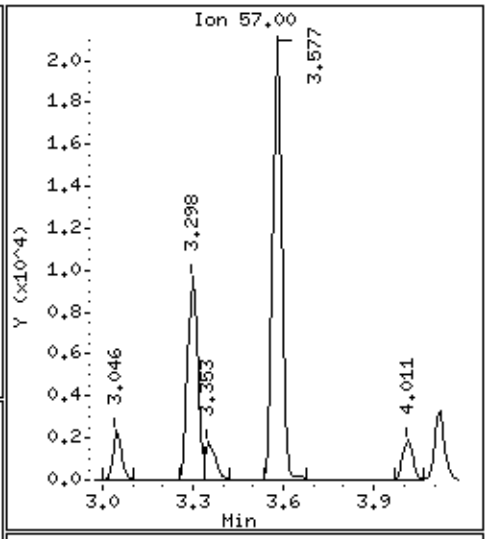
Concentration: 847.26 PPBV

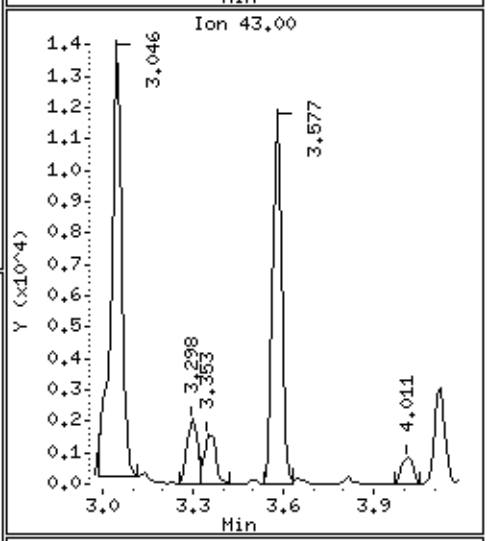


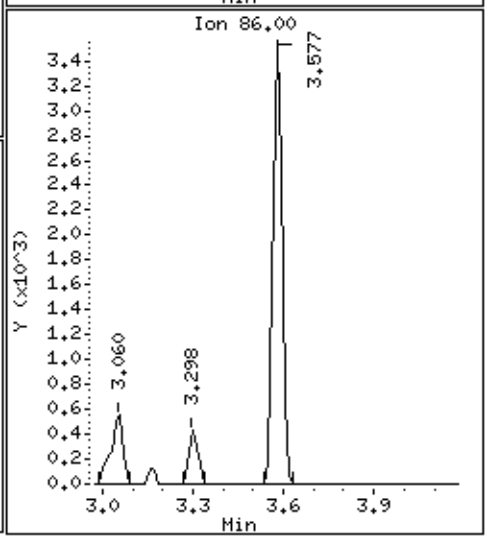












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

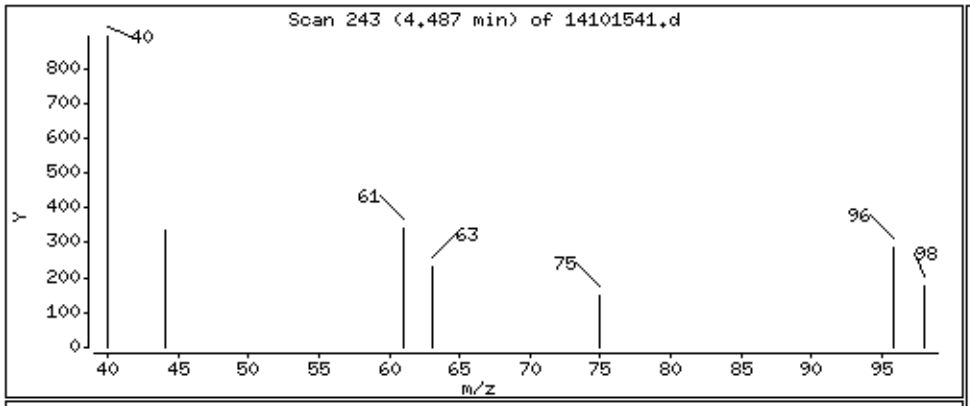
Operator: cb

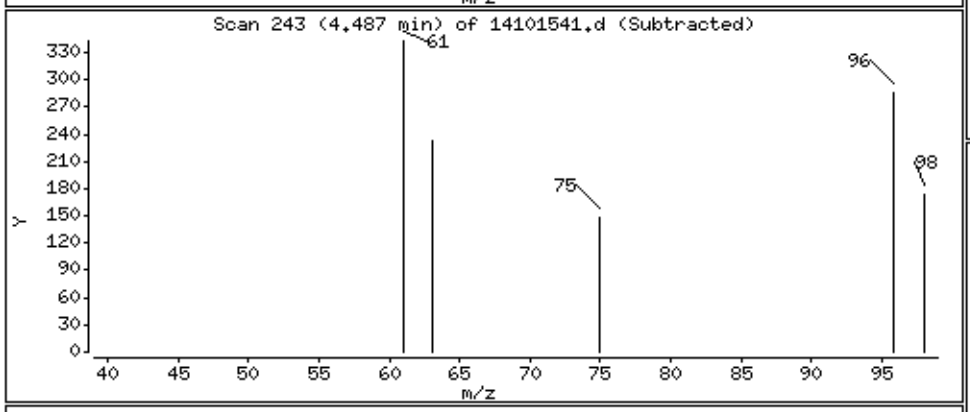
Column phase: RTX-624

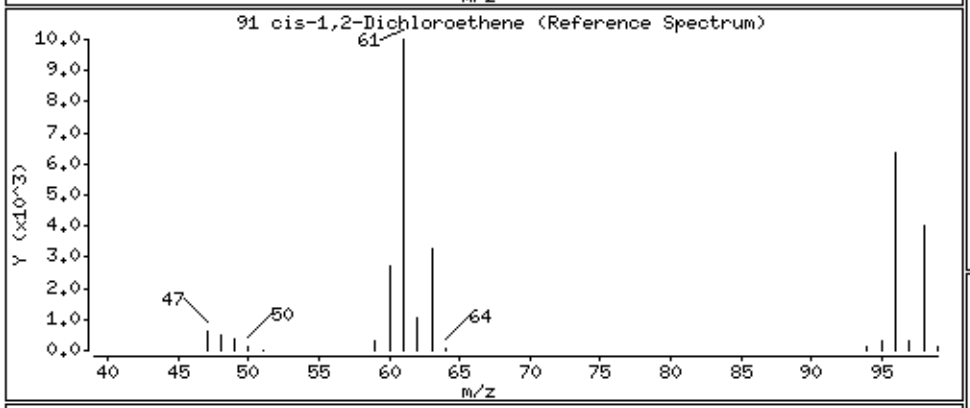
Column diameter: 0.18

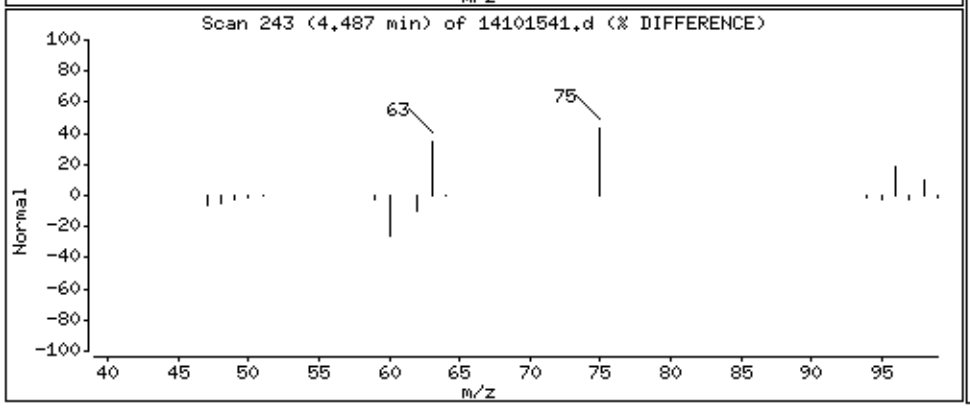
91 cis-1,2-Dichloroethene

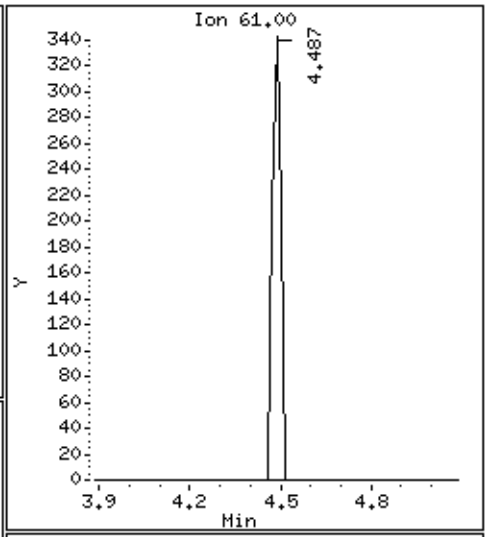
Concentration: 14.555 PPBV

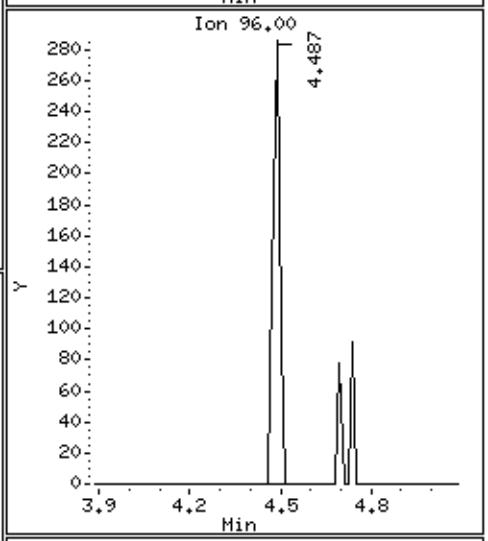


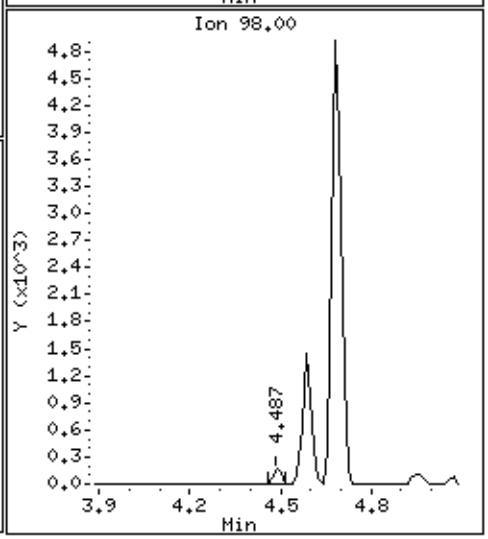












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

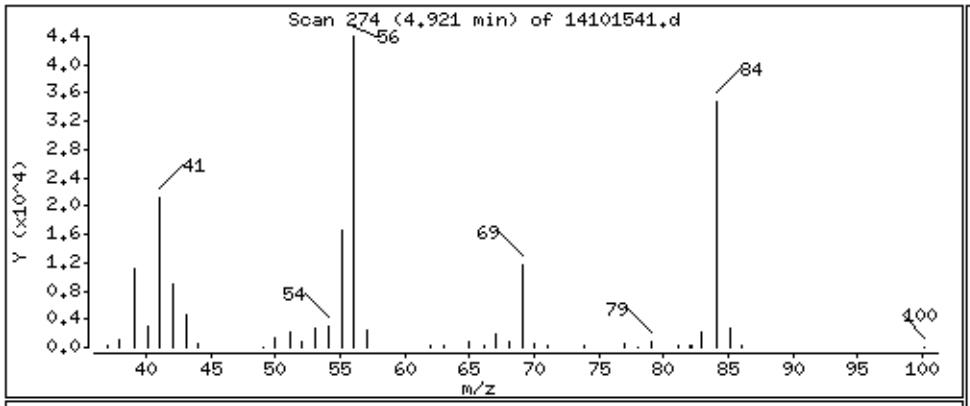
Operator: cb

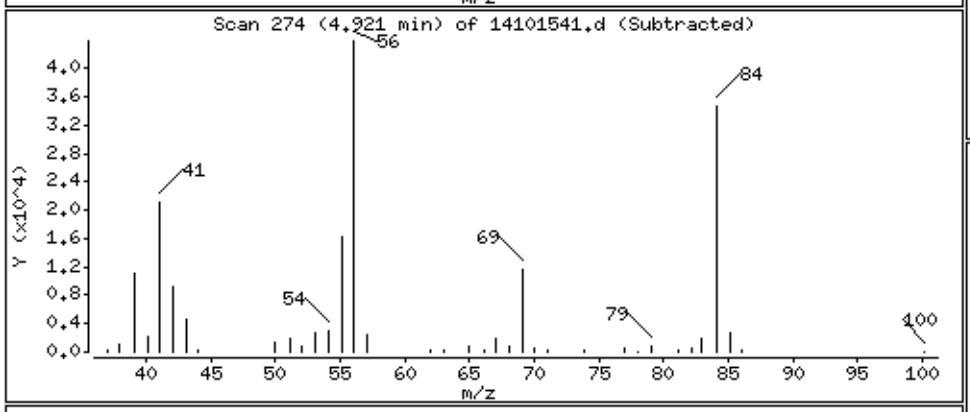
Column phase: RTX-624

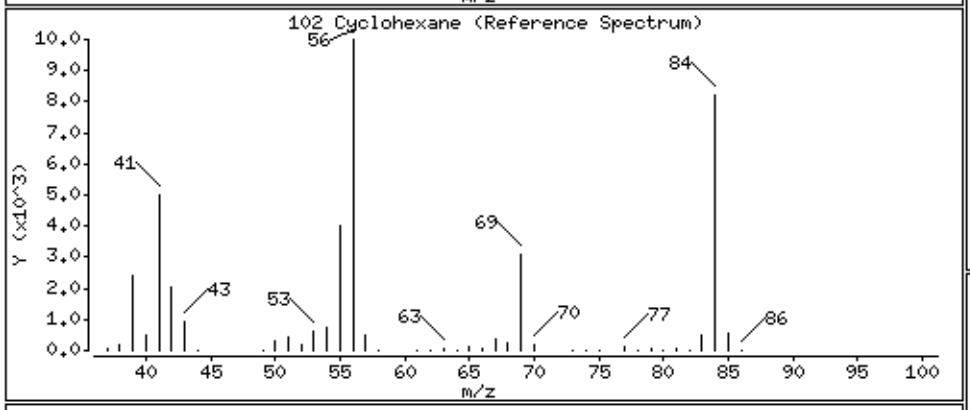
Column diameter: 0.18

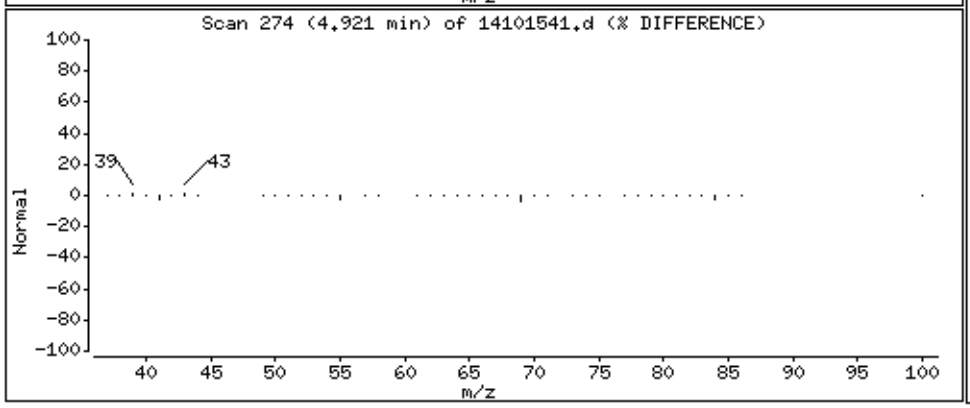
102 Cyclohexane

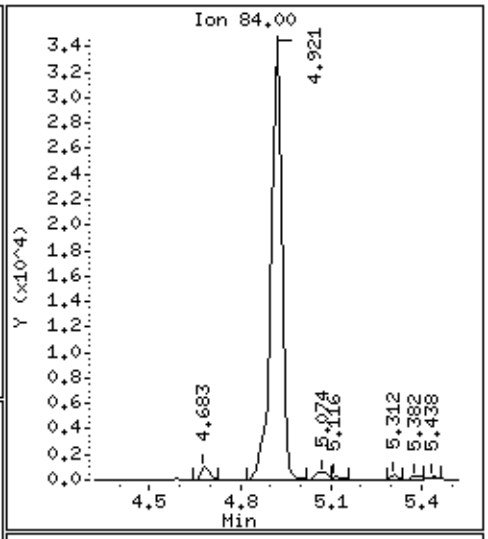
Concentration: 1938.3 PPBV

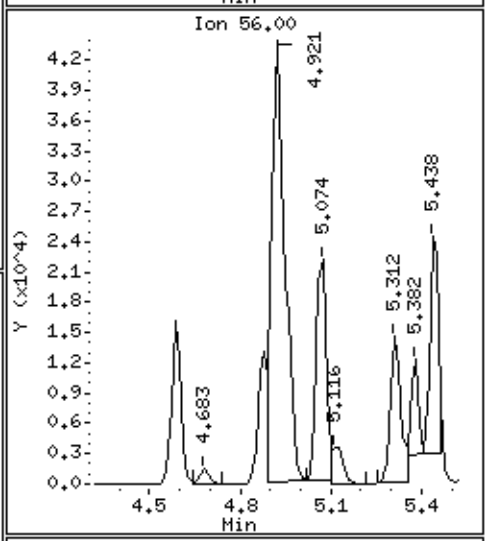


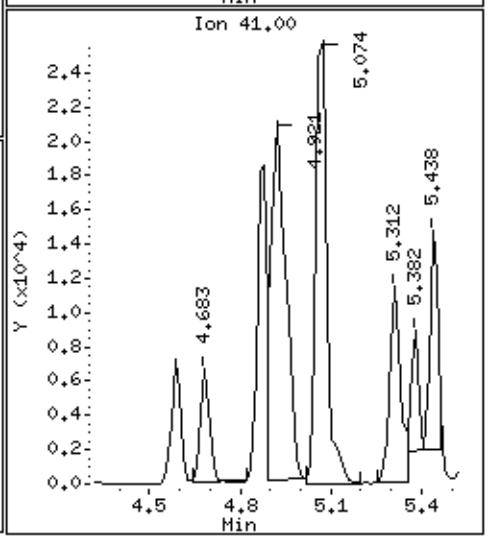












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

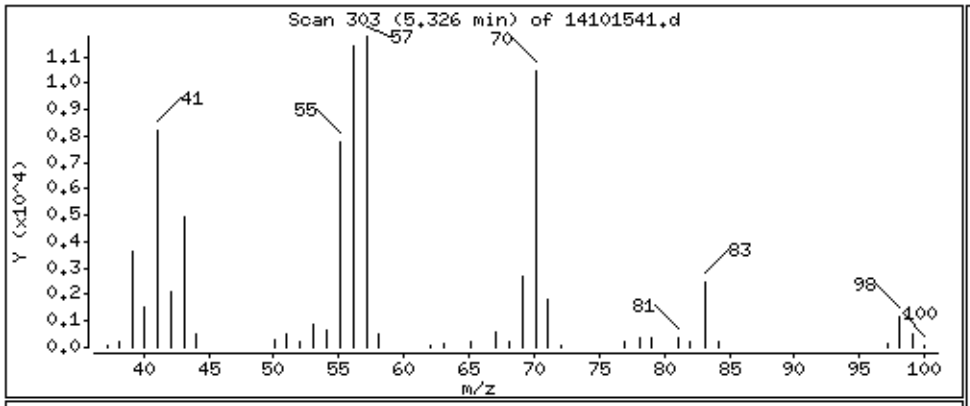
Operator: cb

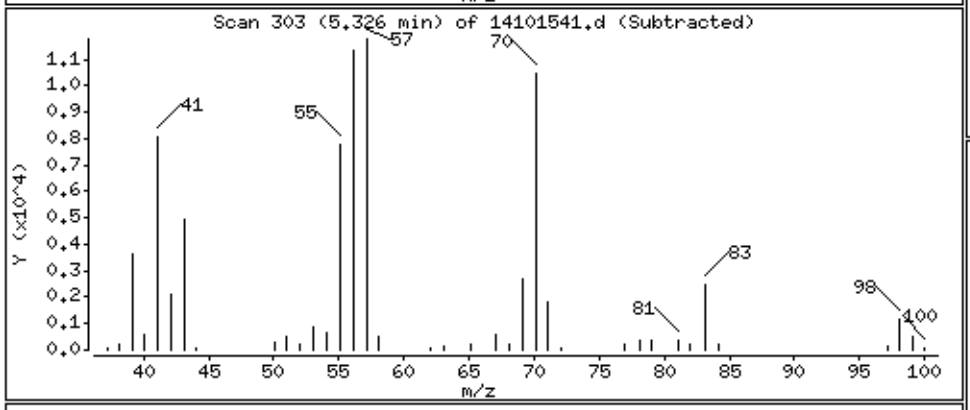
Column phase: RTX-624

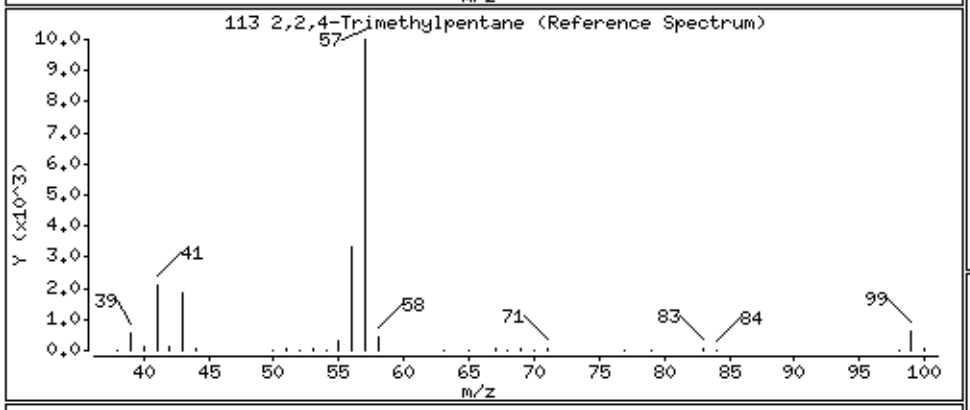
Column diameter: 0.18

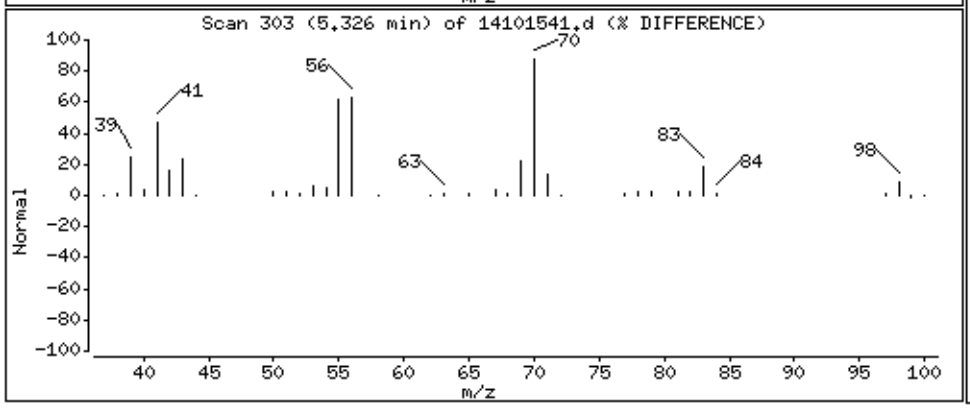
113 2,2,4-Trimethylpentane

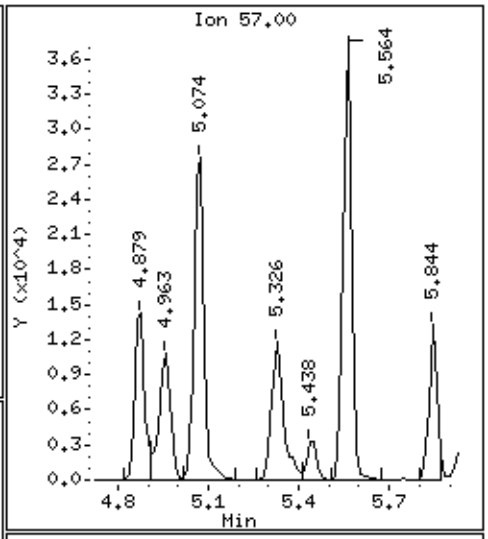
Concentration: 206.68 PPBV

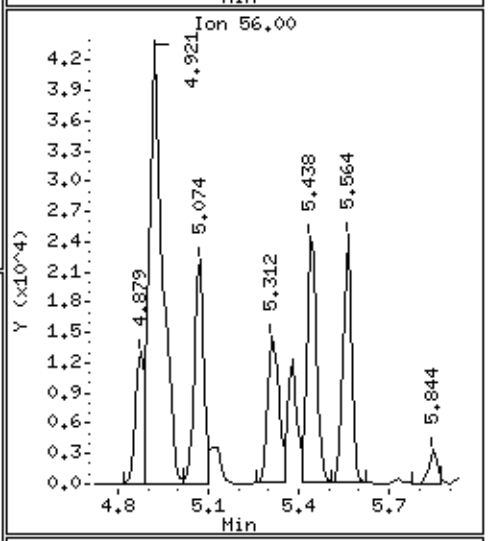


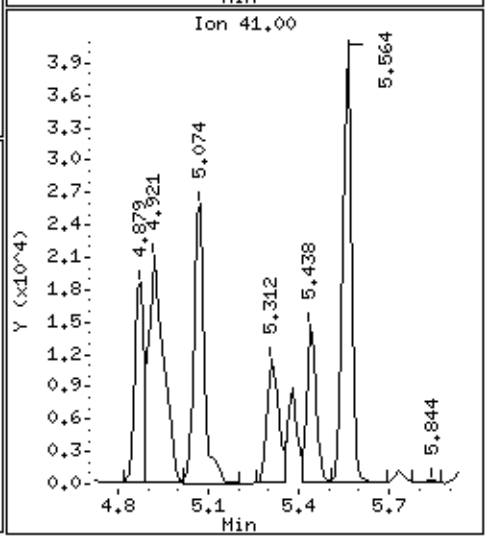












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

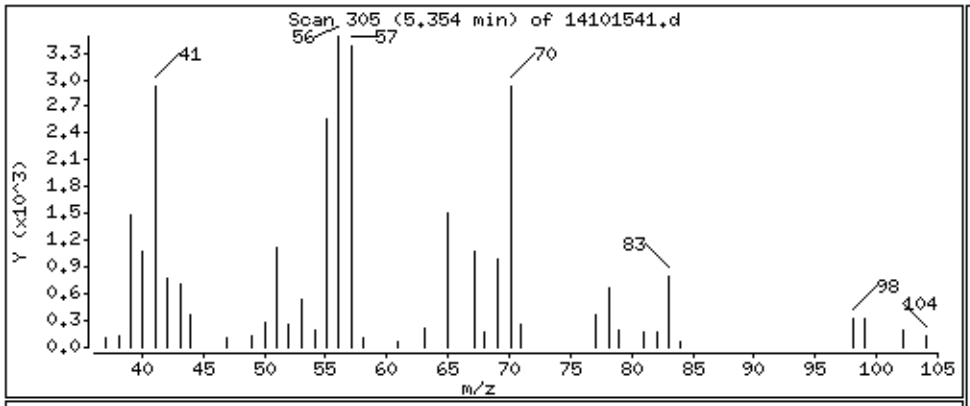
Operator: cb

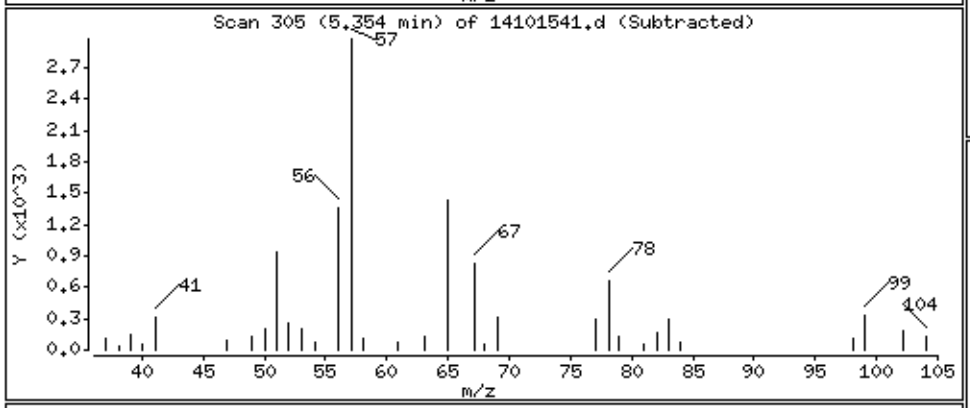
Column phase: RTX-624

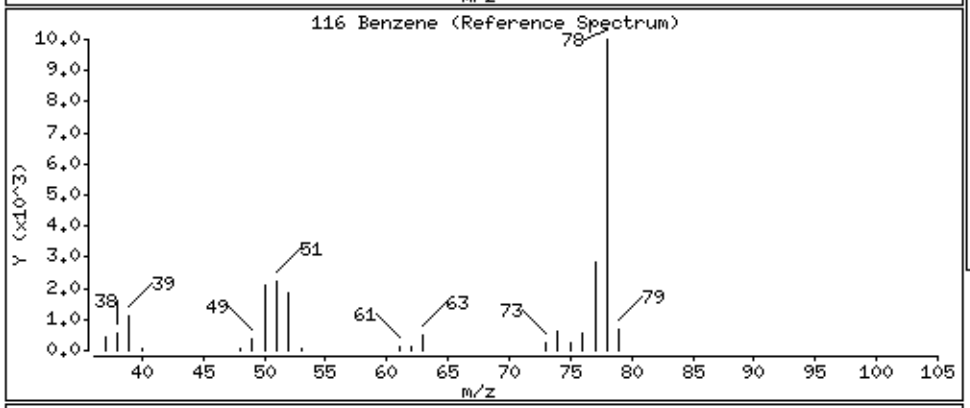
Column diameter: 0.18

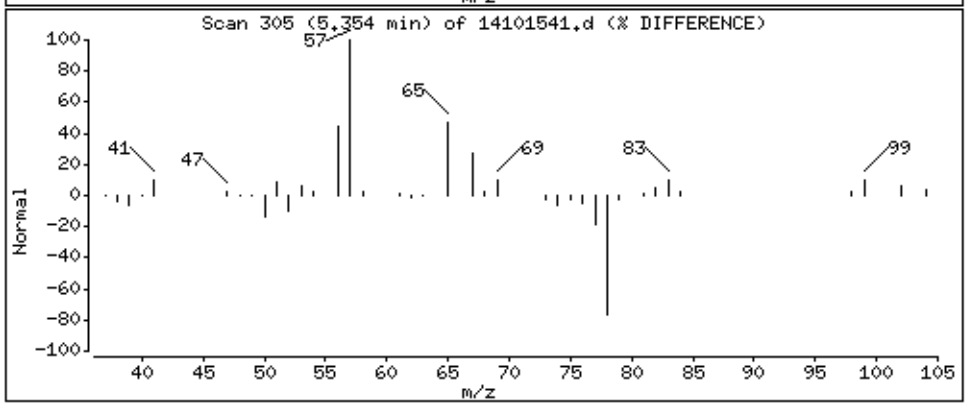
116 Benzene

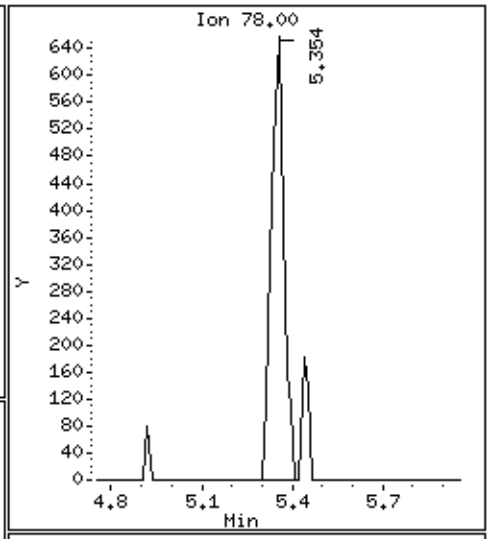
Concentration: 19.918 PPBV

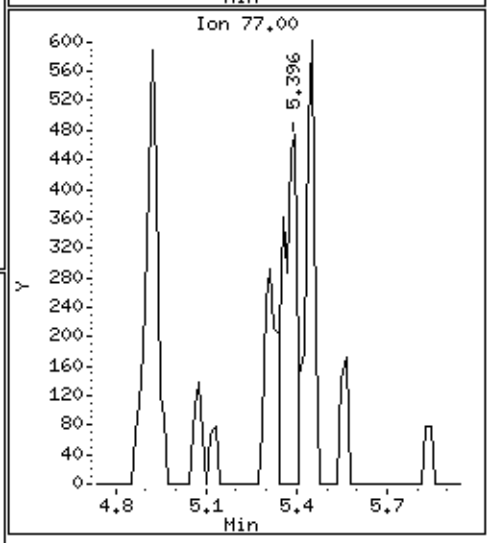












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

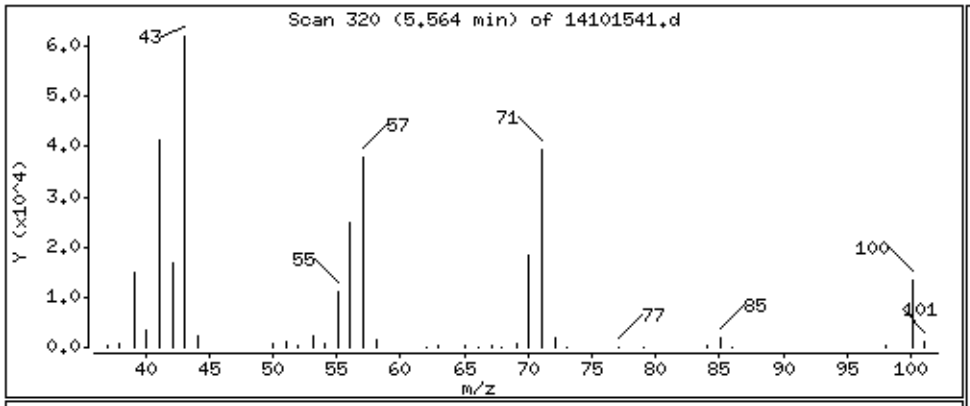
Operator: cb

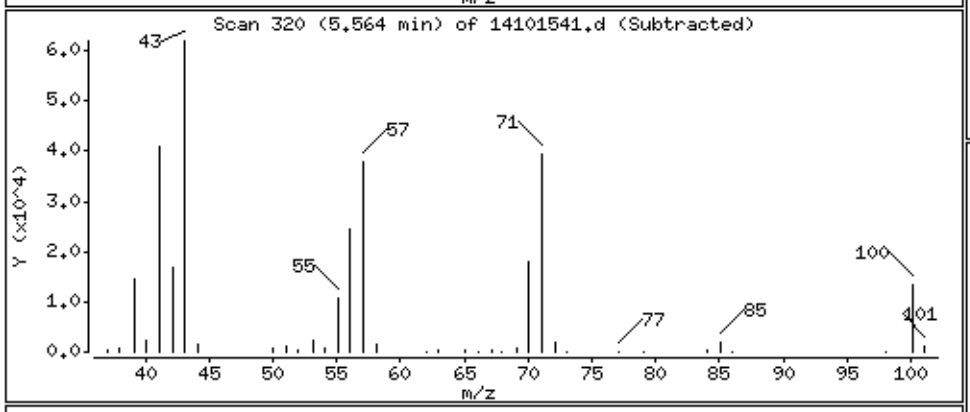
Column phase: RTX-624

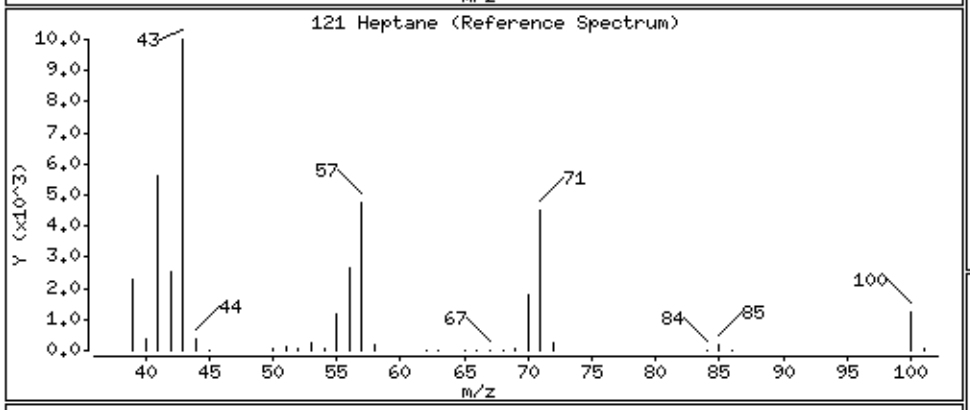
Column diameter: 0.18

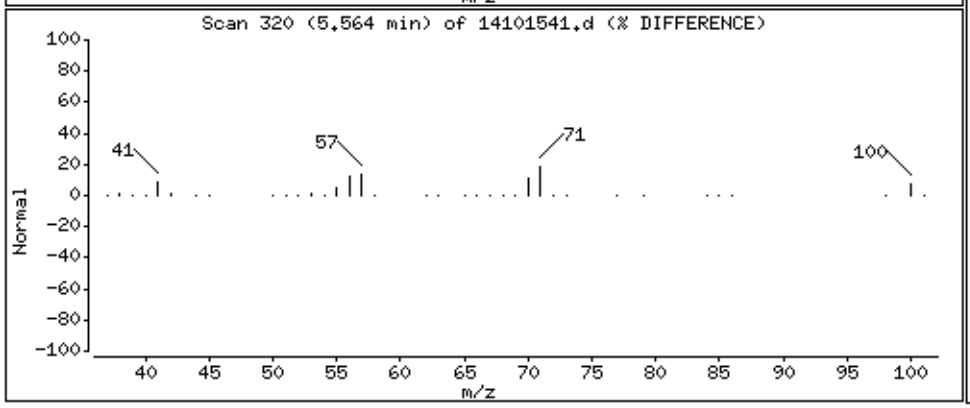
121 Heptane

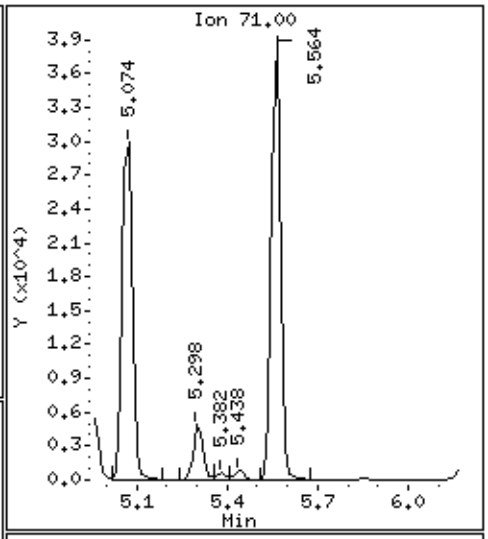
Concentration: 2287.6 PPBV

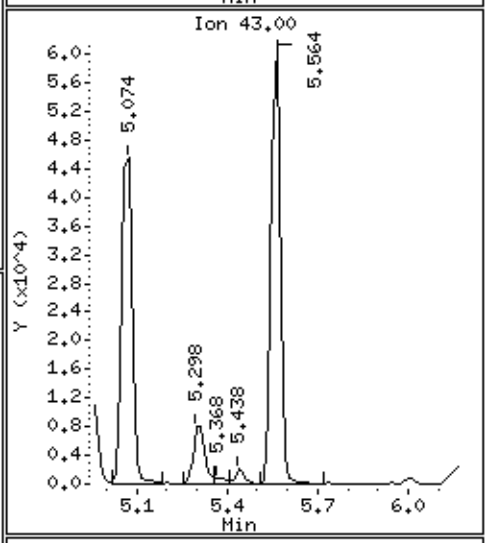


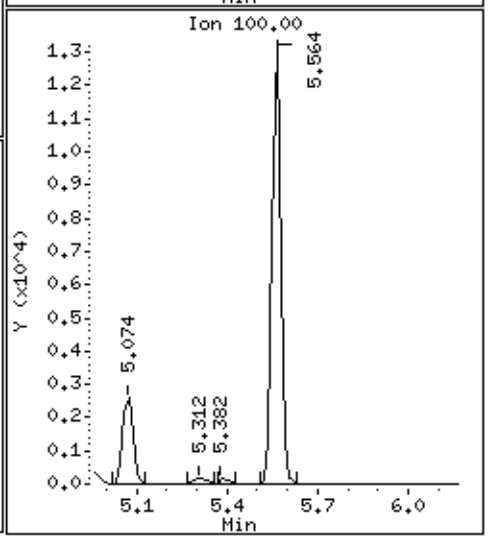












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

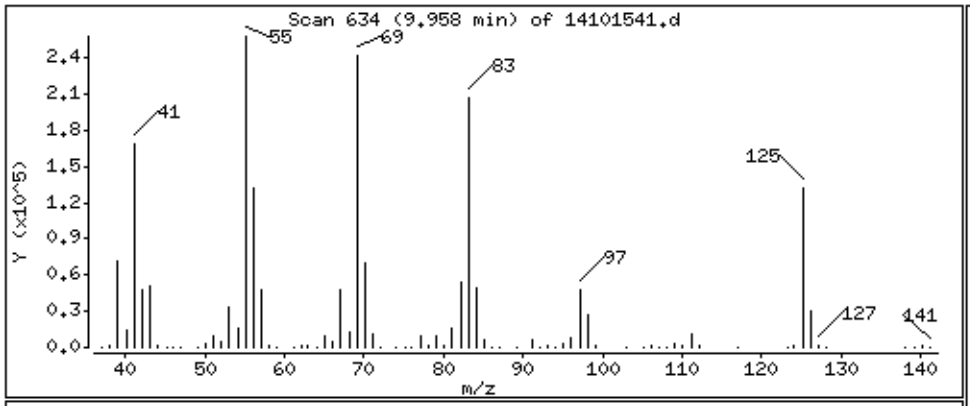
Operator: cb

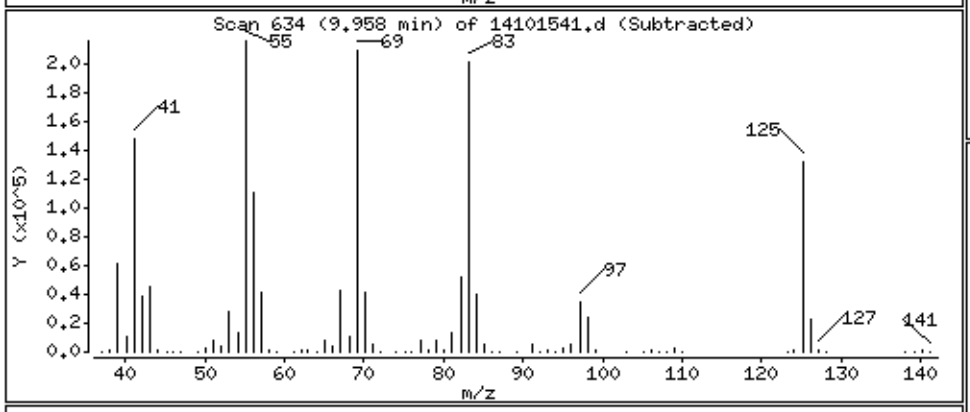
Column phase: RTX-624

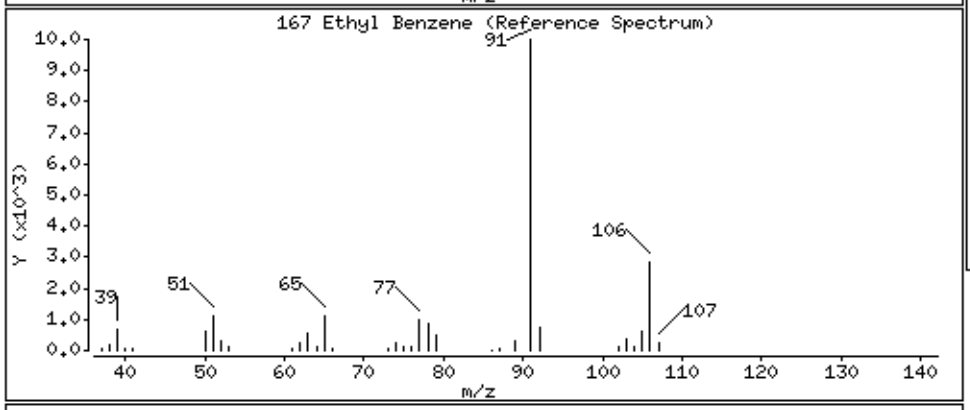
Column diameter: 0.18

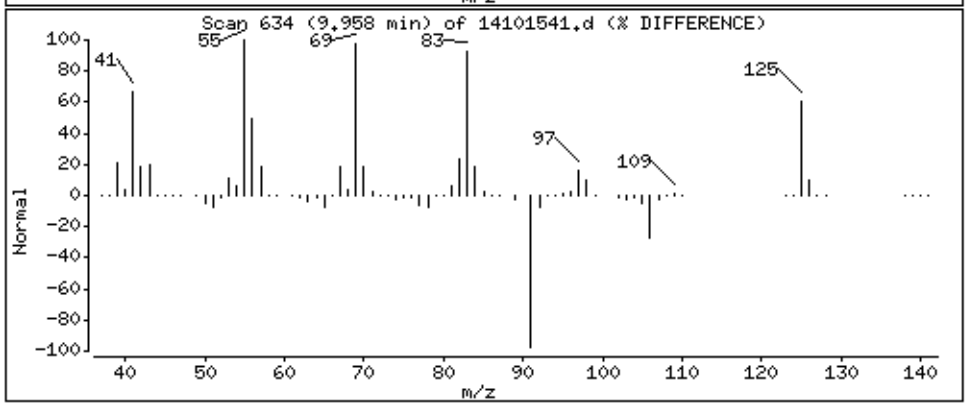
167 Ethyl Benzene

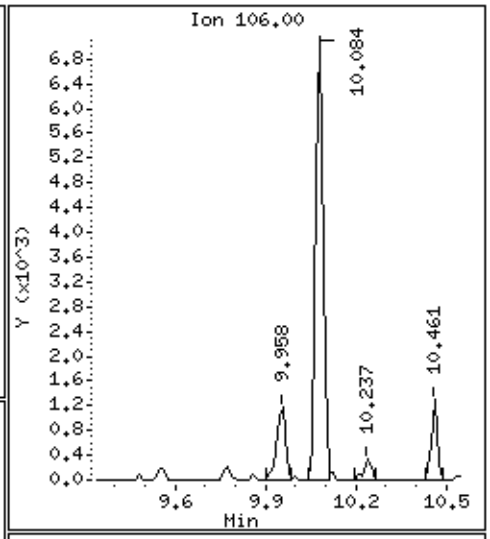
Concentration: 50.396 PPBV

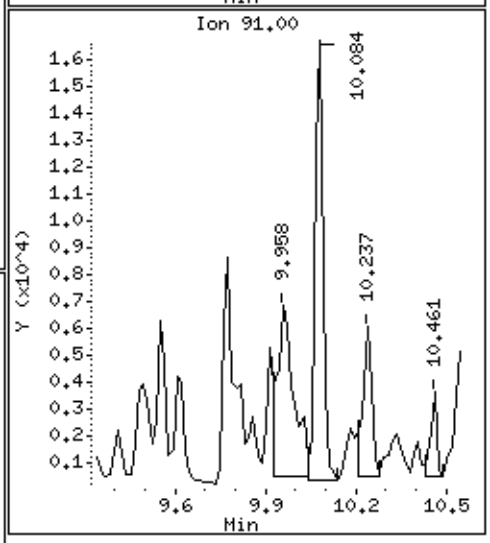












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

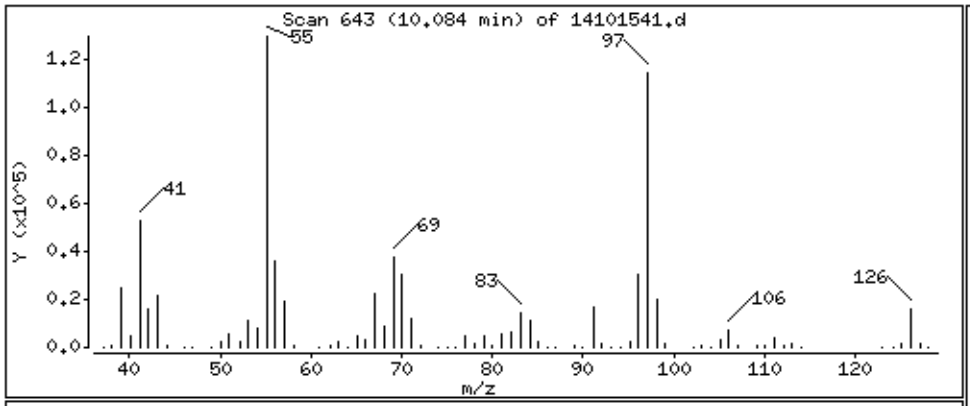
Operator: cb

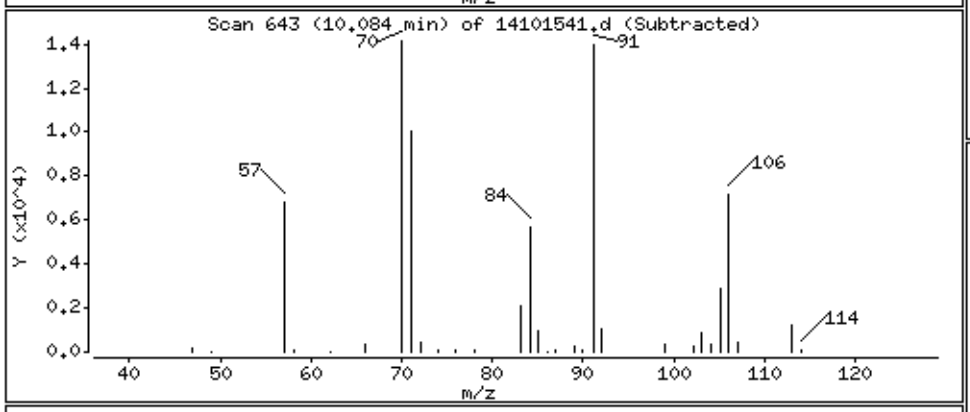
Column phase: RTX-624

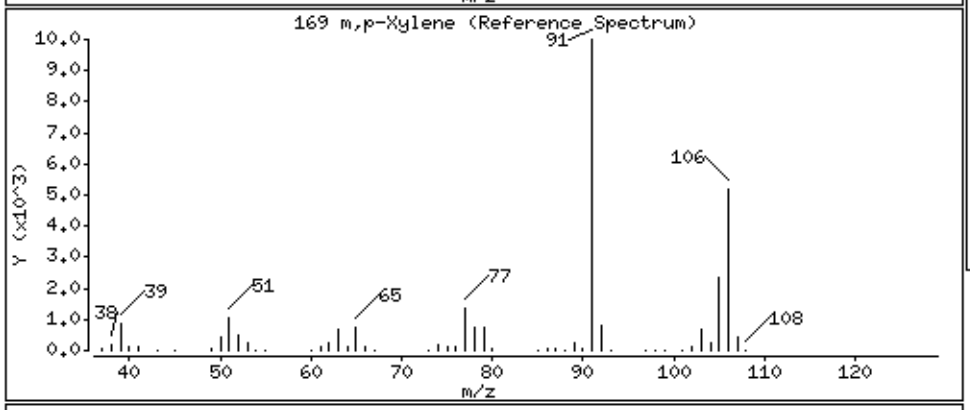
Column diameter: 0.18

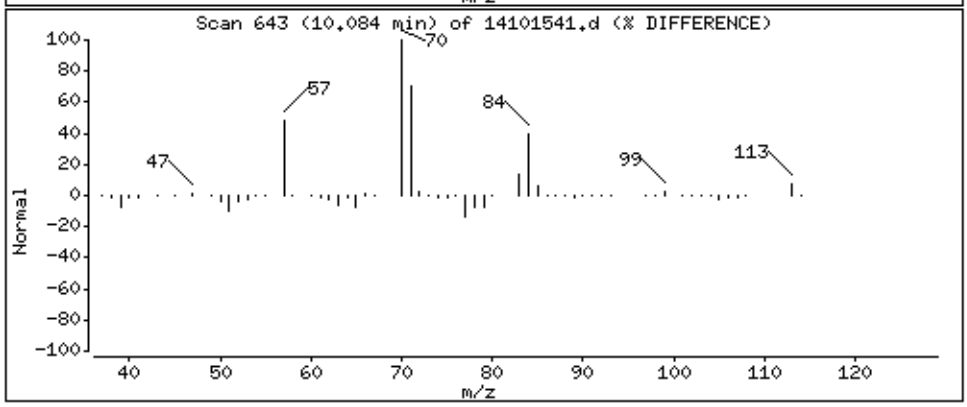
169 m,p-Xylene

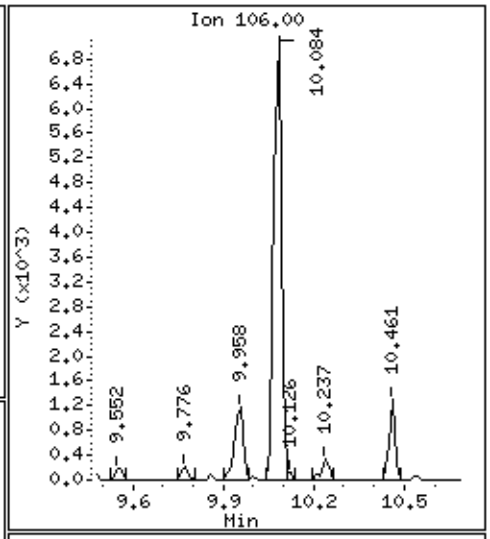
Concentration: 210.29 PPBV

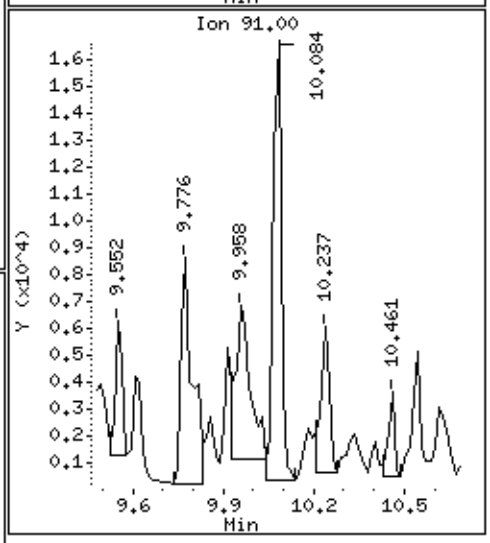












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

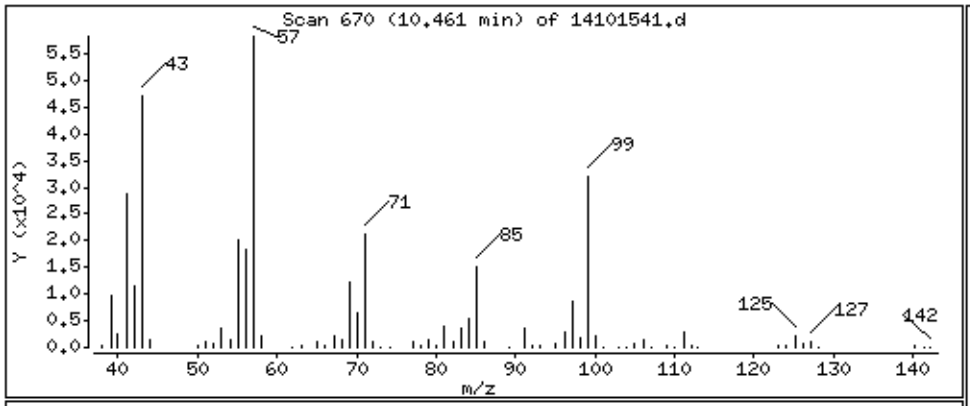
Operator: cb

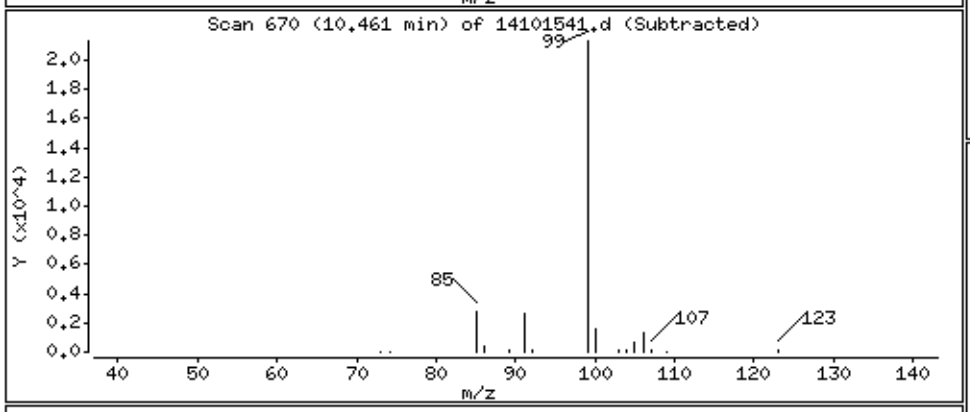
Column phase: RTX-624

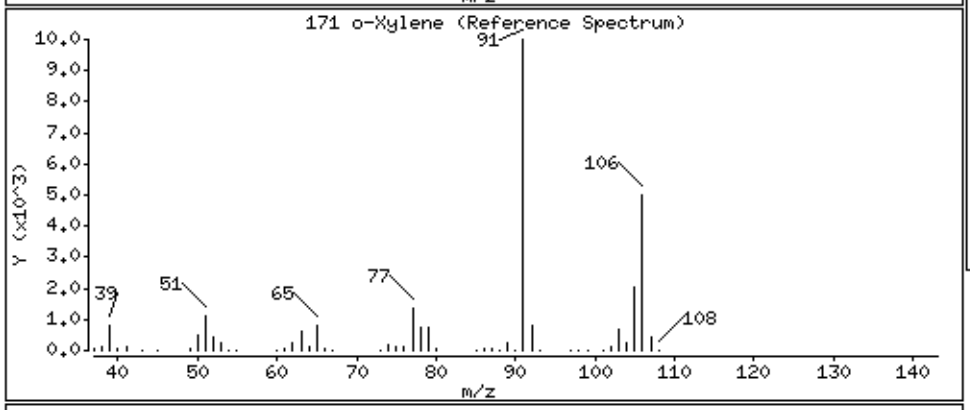
Column diameter: 0.18

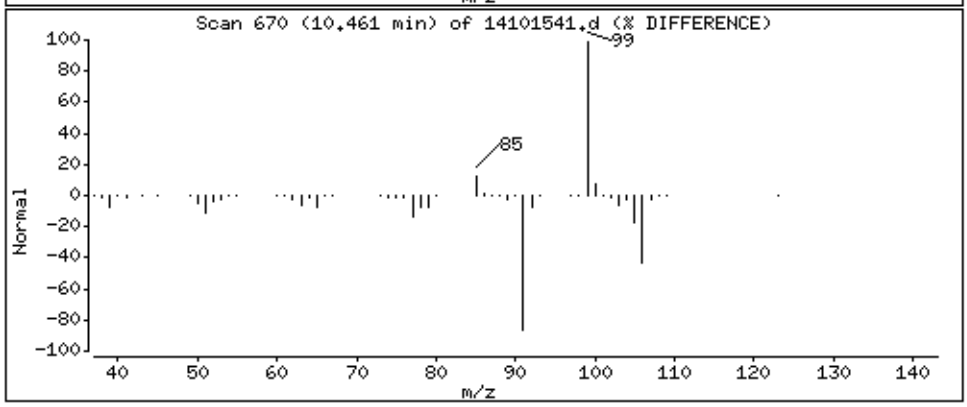
171 o-Xylene

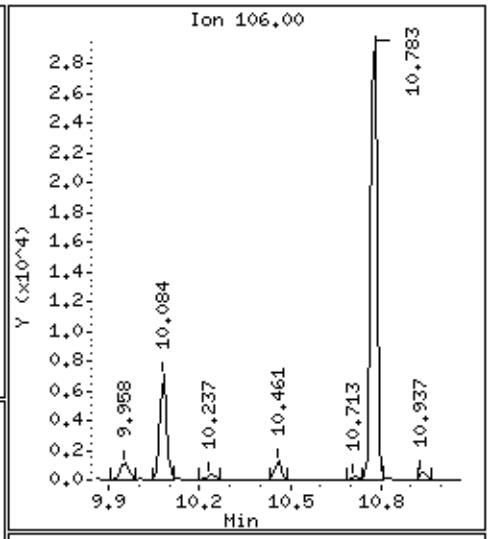
Concentration: 33.754 PPBV

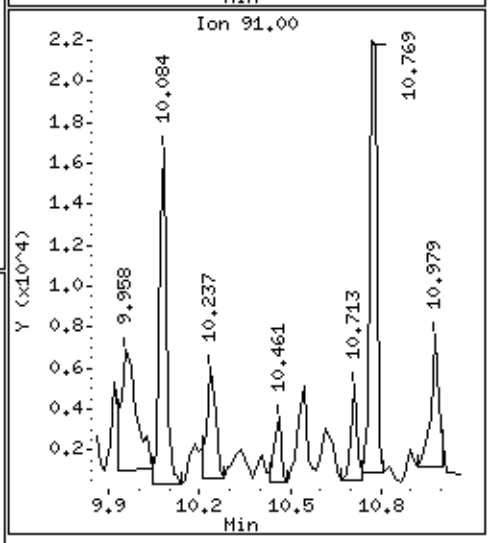












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

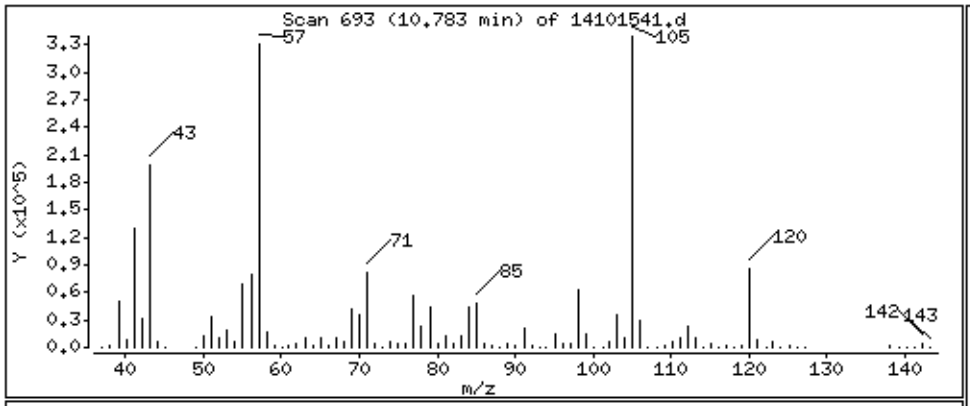
Operator: cb

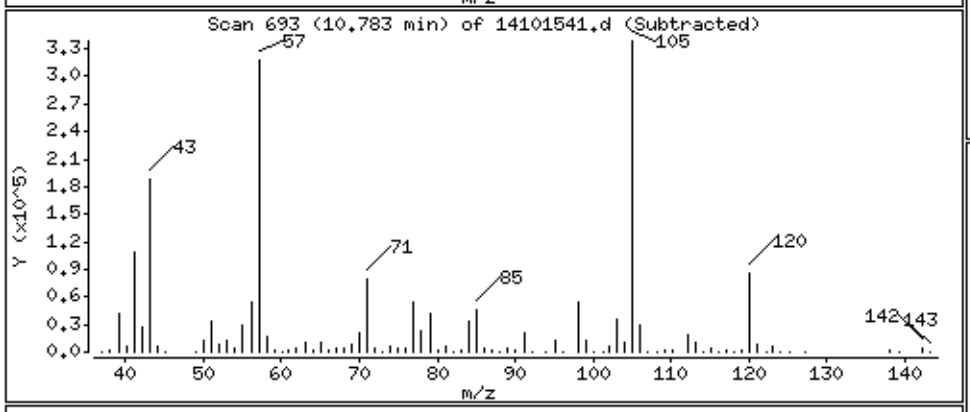
Column phase: RTX-624

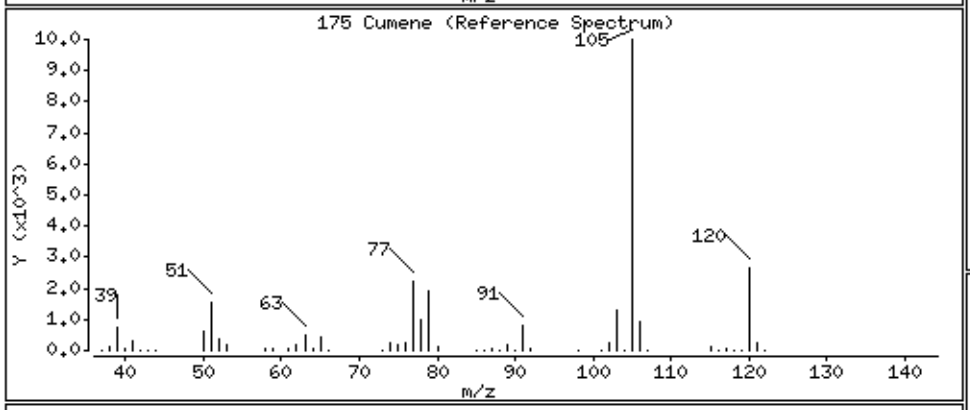
Column diameter: 0.18

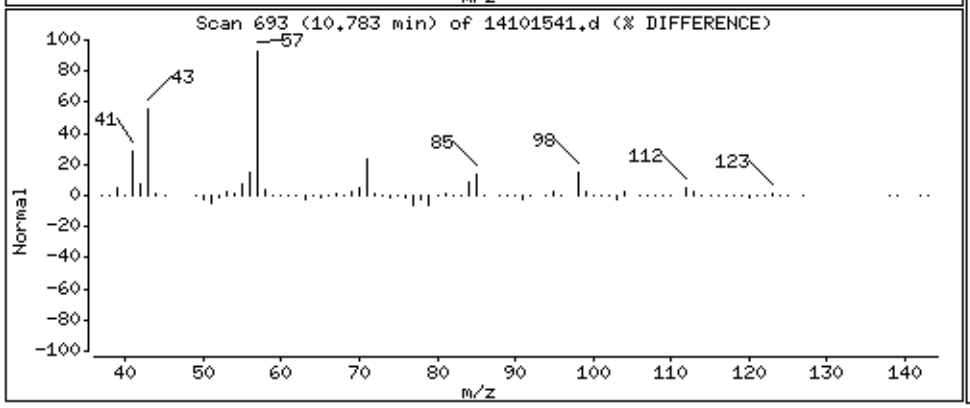
175 Cumene

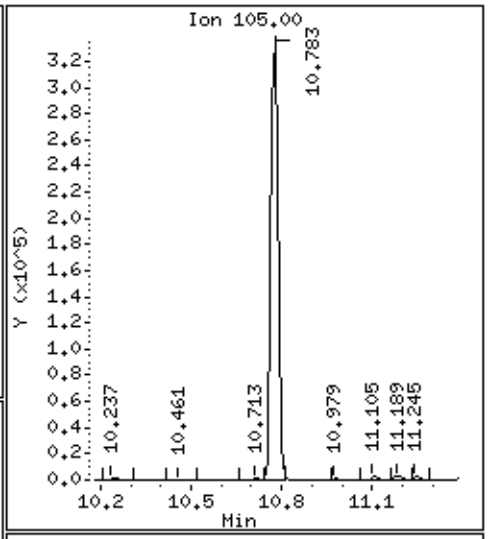
Concentration: 3325.4 PPBV

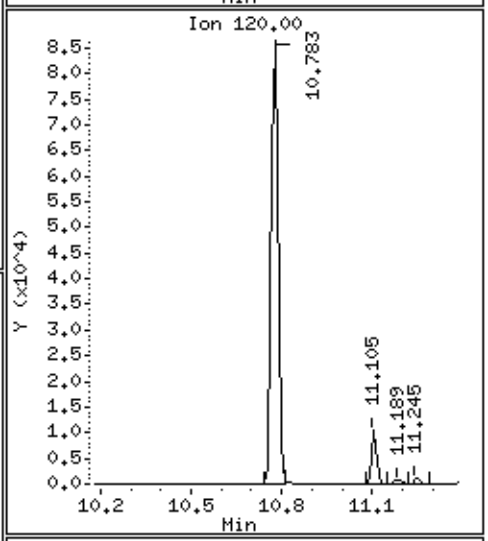


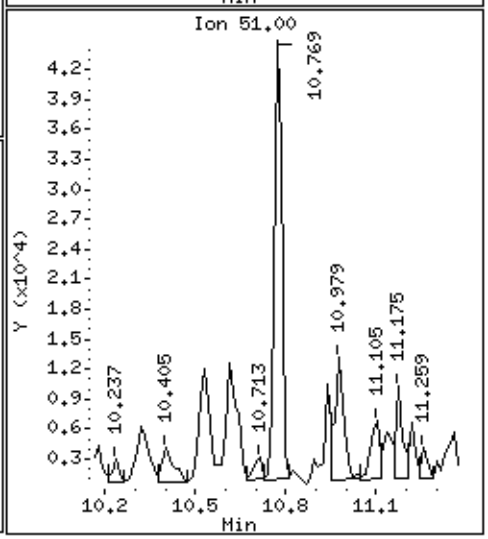












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

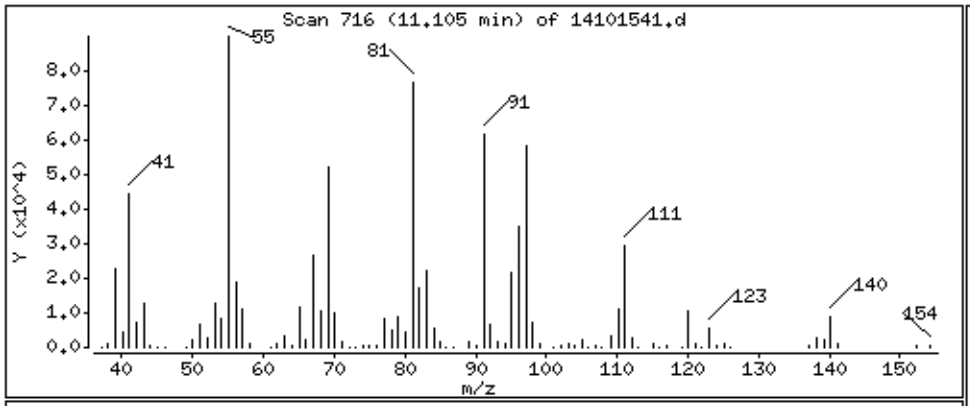
Operator: cb

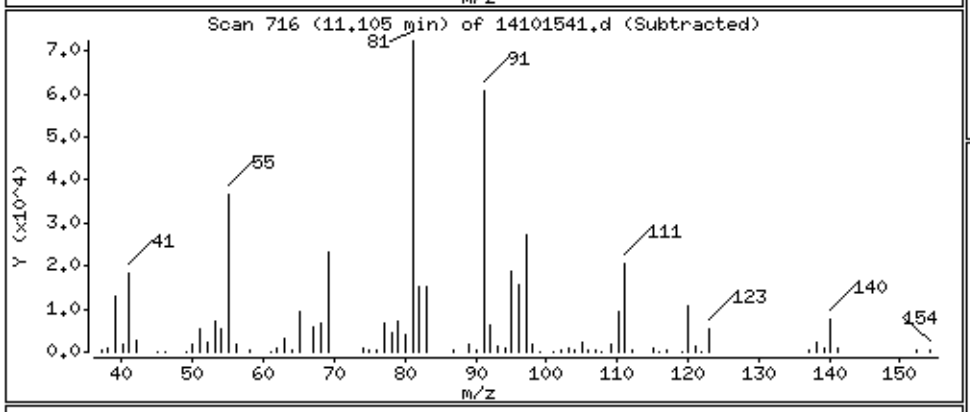
Column phase: RTX-624

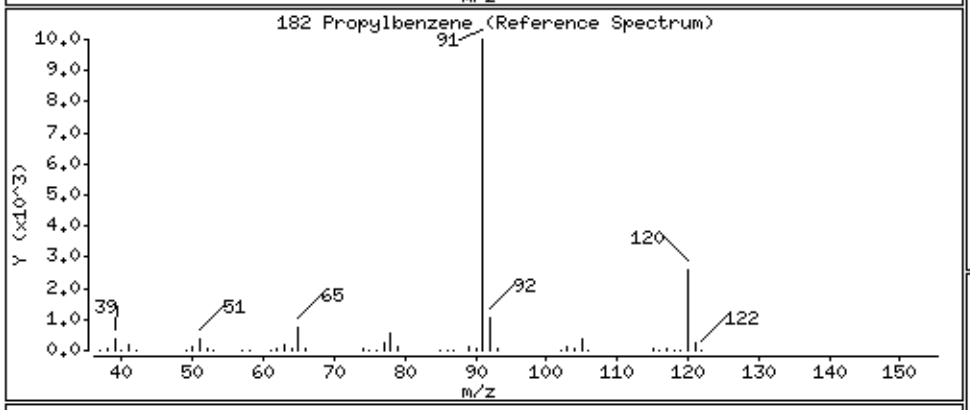
Column diameter: 0.18

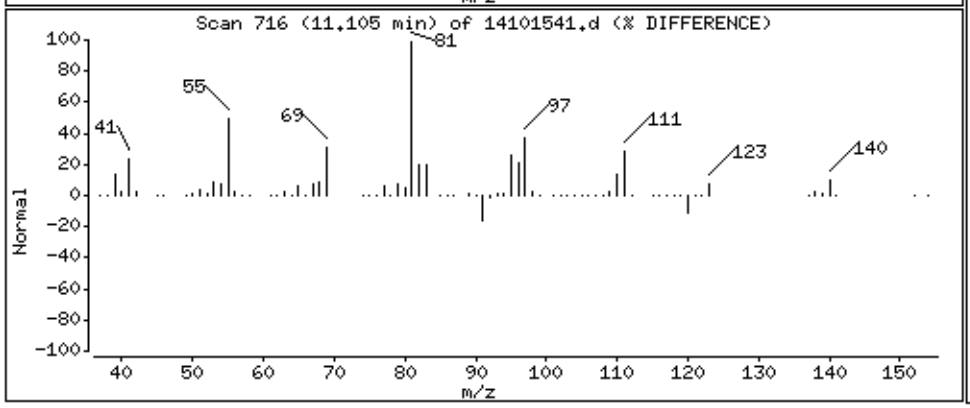
182 Propylbenzene

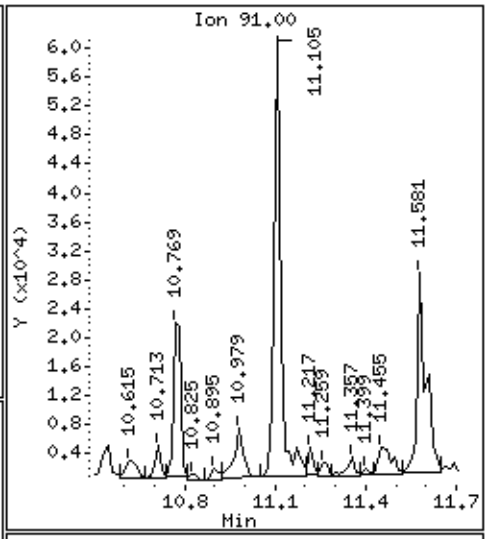
Concentration: 429.05 PPBV

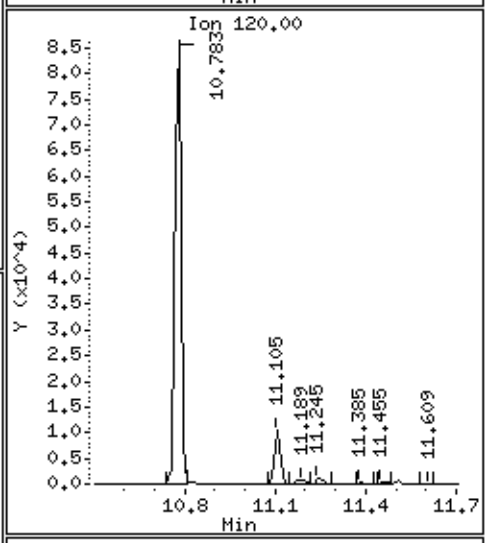


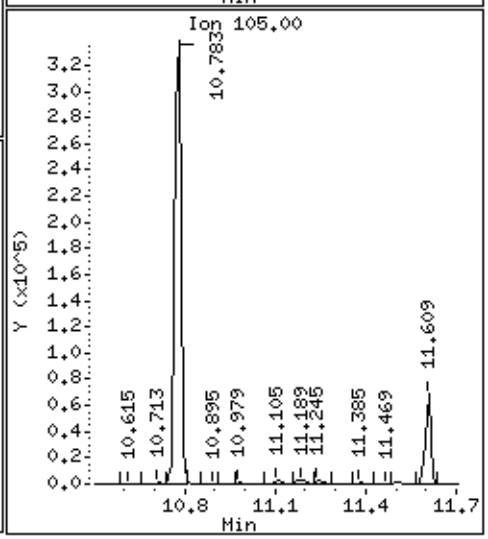












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

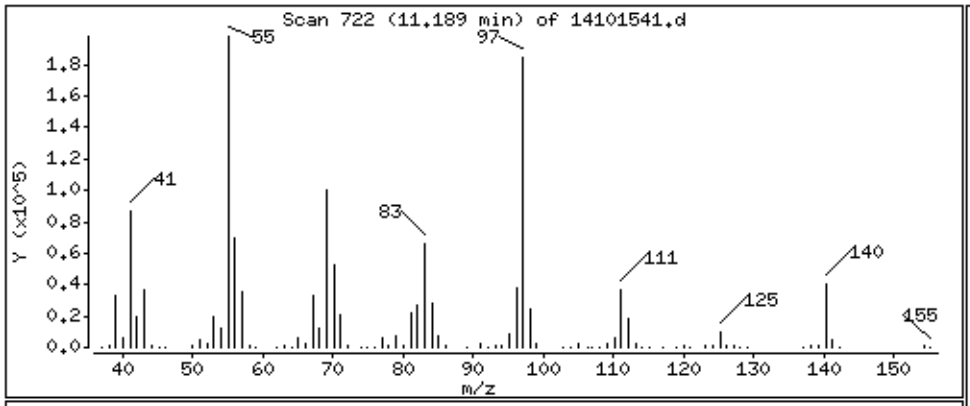
Operator: cb

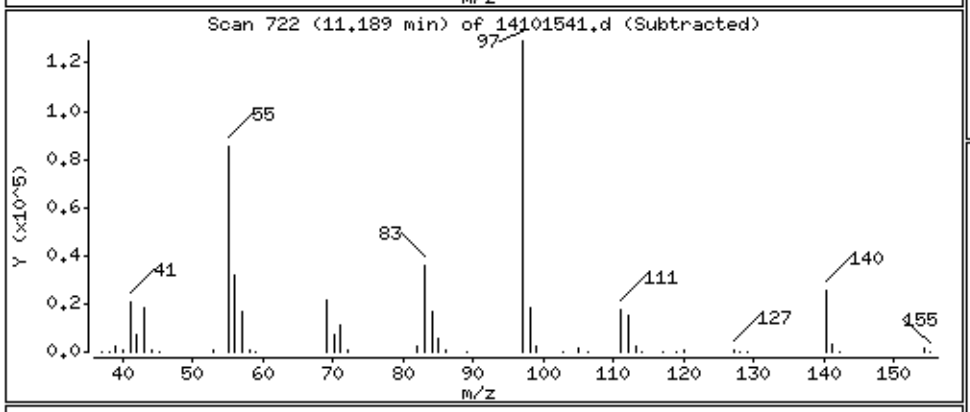
Column phase: RTX-624

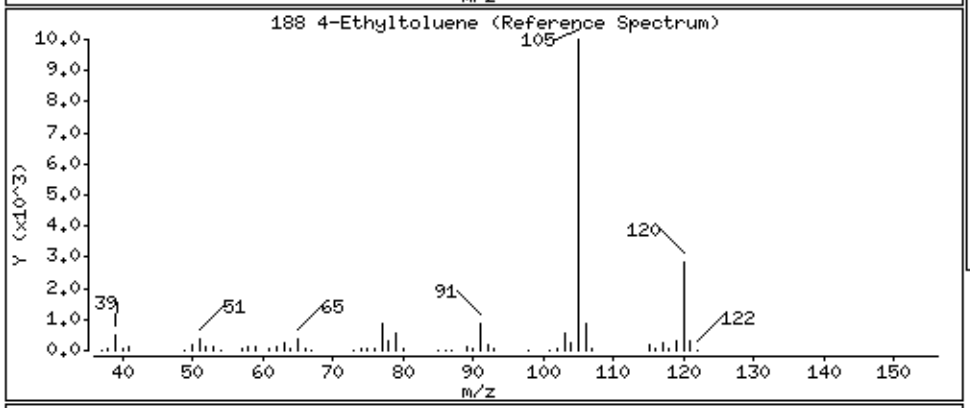
Column diameter: 0.18

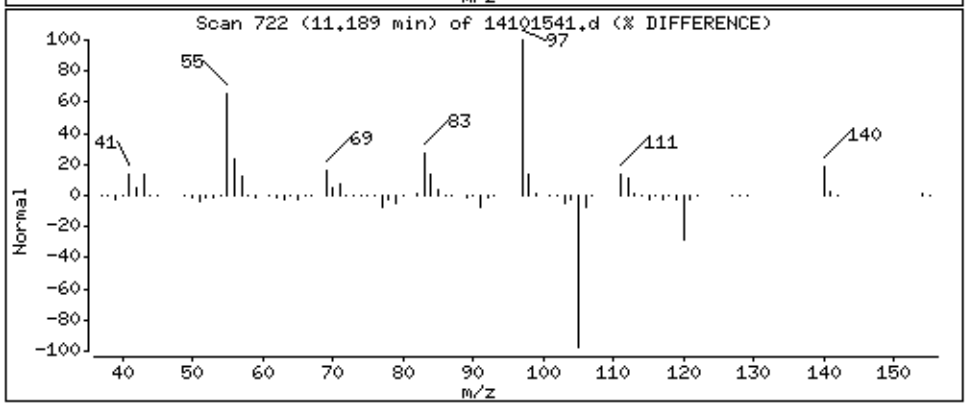
188 4-Ethyltoluene

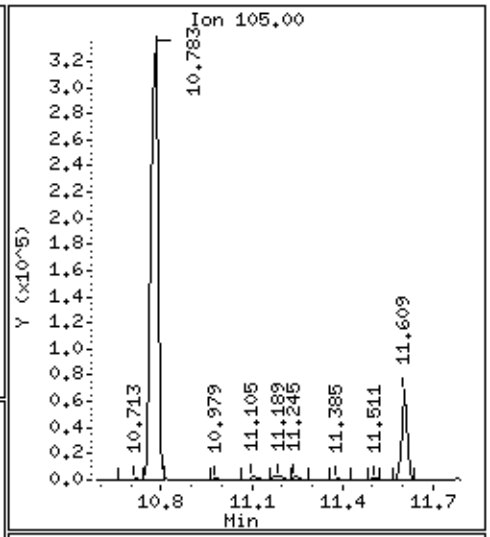
Concentration: 33.159 PPBV

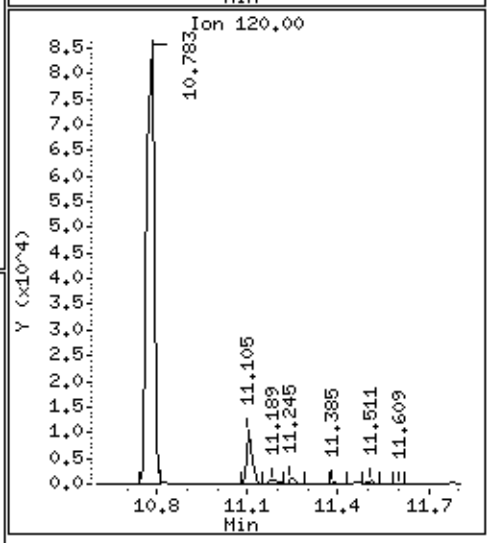












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

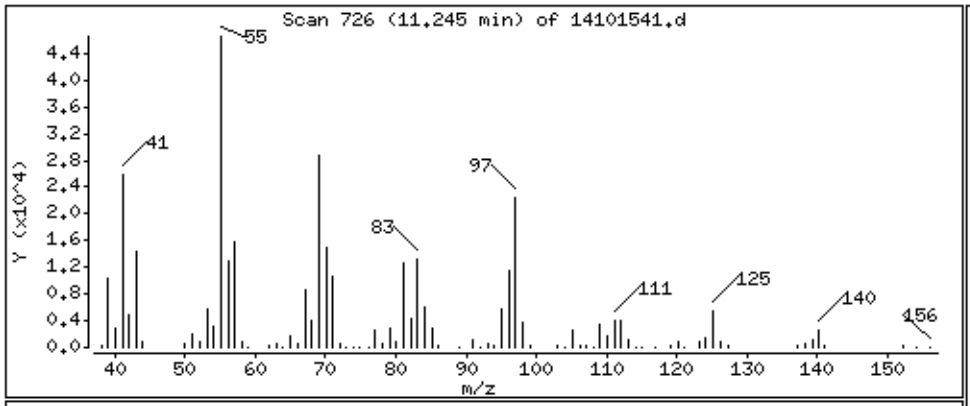
Operator: cb

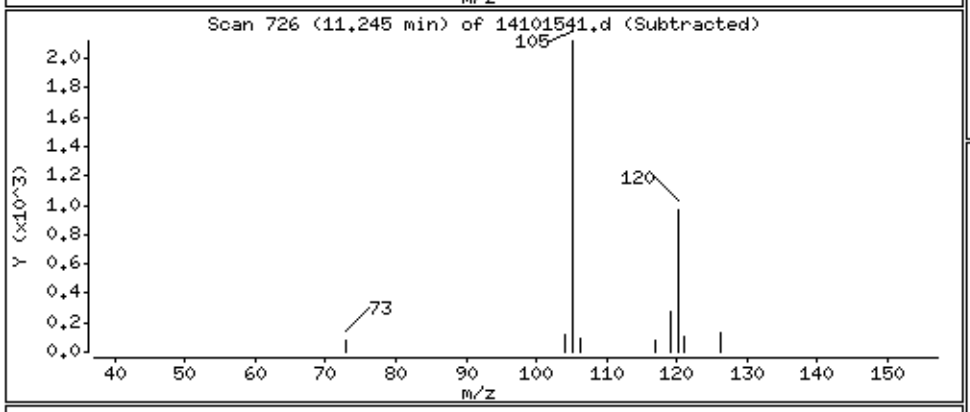
Column phase: RTX-624

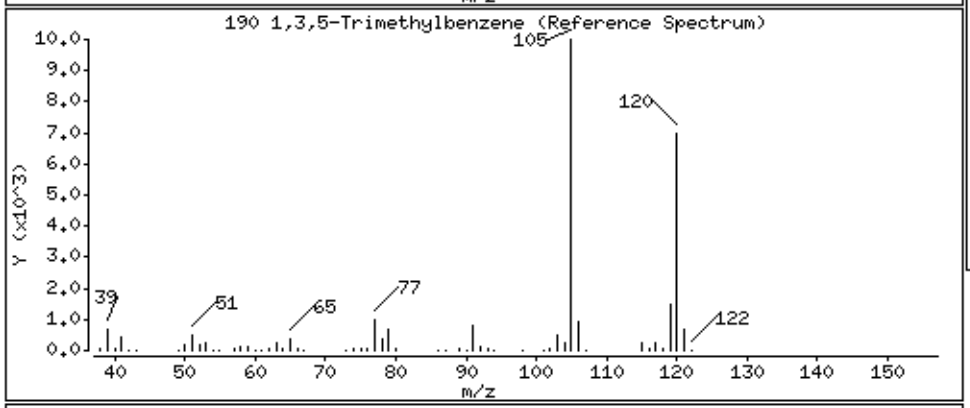
Column diameter: 0.18

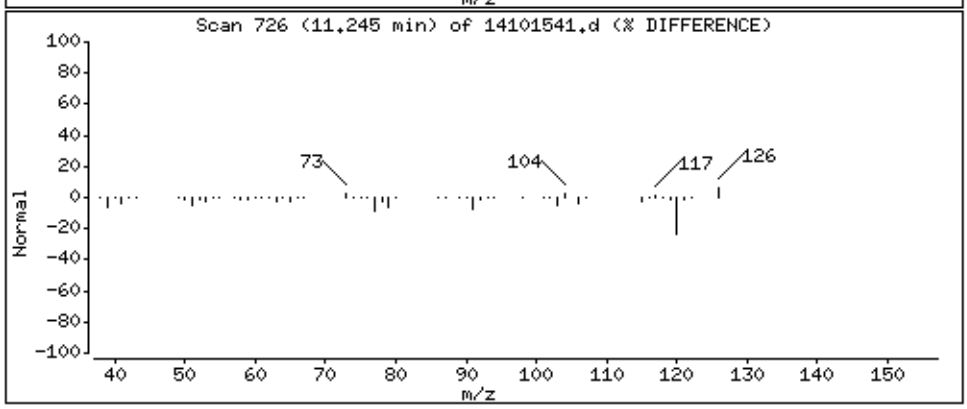
190 1,3,5-Trimethylbenzene

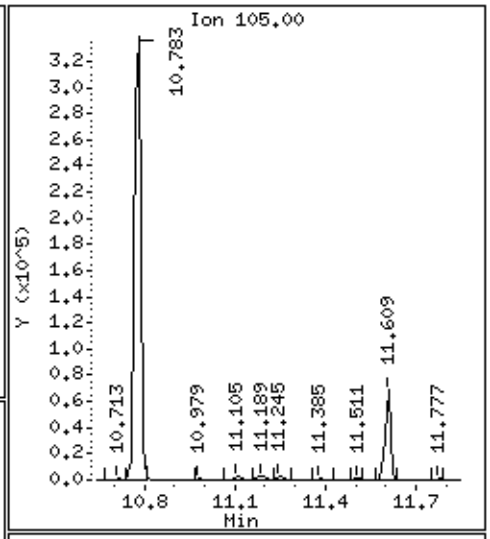
Concentration: 25.604 PPBV

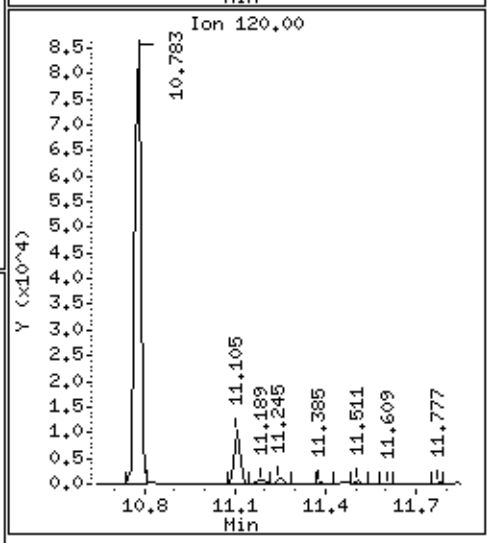












Data File: /chem/msd14.i/15oct15.b/14101541.d

Date : 16-OCT-2015 14:37

Client ID:

Instrument: msd14.i

Sample Info: 15ml #12362

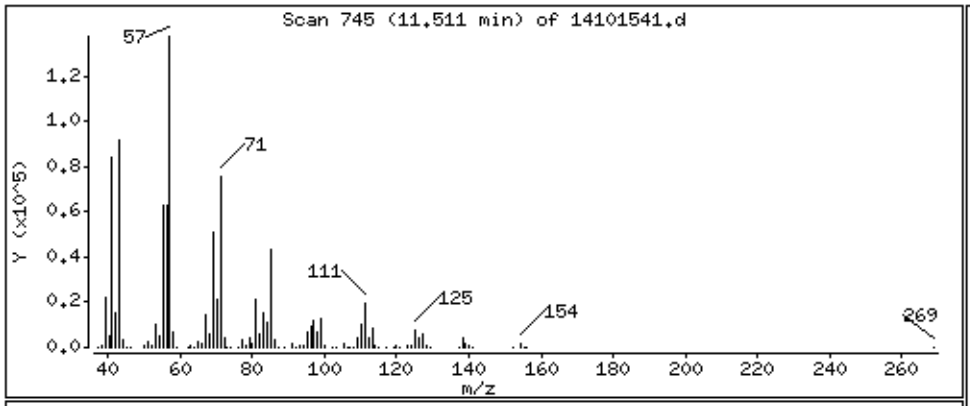
Operator: cb

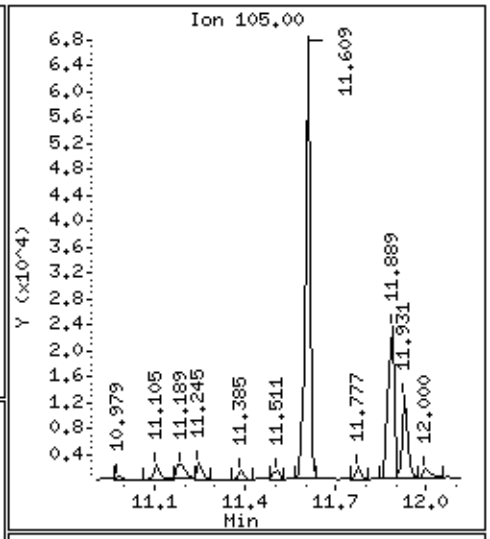
Column phase: RTX-624

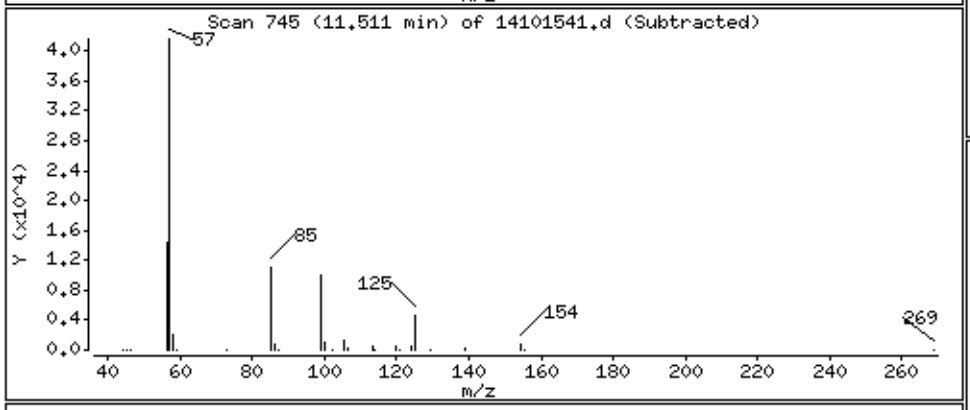
Column diameter: 0.18

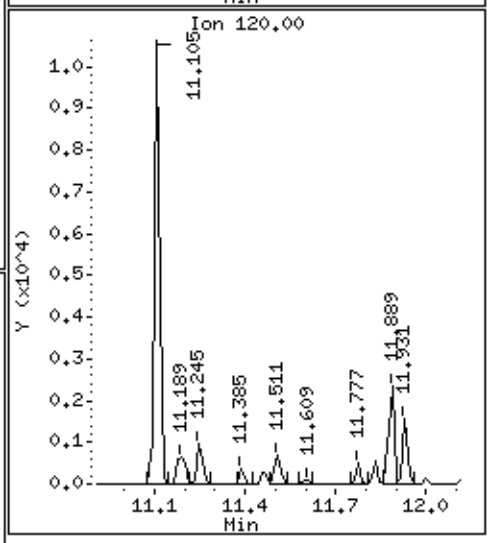
196 1,2,4-Trimethylbenzene

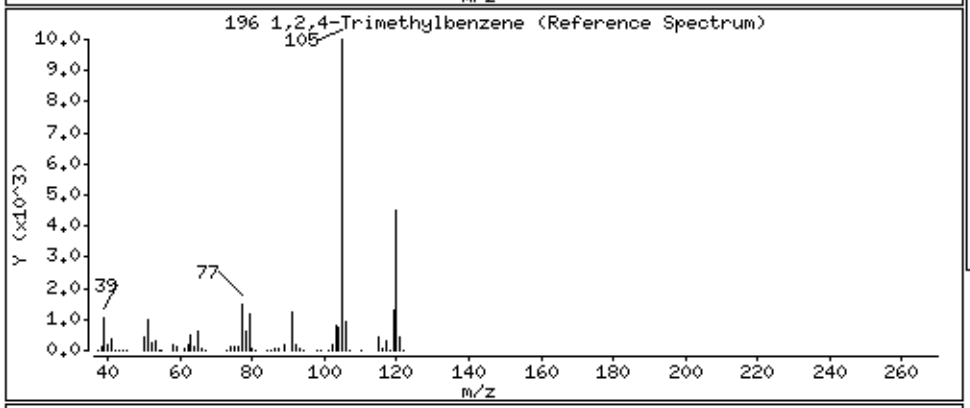
Concentration: 17.749 PPBV

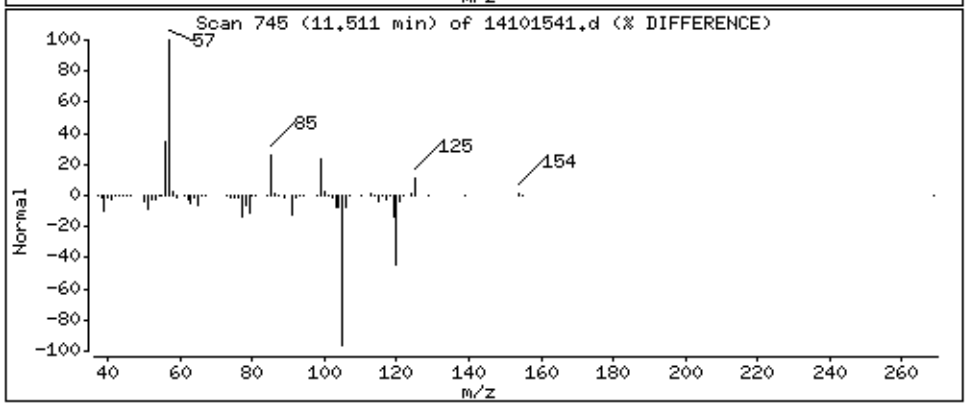












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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: B8SSV-2D101015

Lab ID#: 1510223B-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	39	38 J	100	98 J
Methylene Chloride	39	12 J	140	43 J
Methyl tert-butyl ether	39	230	140	850
Hexane	39	840	140	3000
cis-1,2-Dichloroethene	39	14 J	160	55 J
Cyclohexane	39	2000	140	6800
2,2,4-Trimethylpentane	39	210	180	970
Benzene	39	19 J	120	62 J
Heptane	39	2300	160	9600
Ethyl Benzene	39	54	170	230
m,p-Xylene	39	200	170	870
o-Xylene	39	34 J	170	140 J
Cumene	39	3300	190	16000
Propylbenzene	39	430	190	2100
4-Ethyltoluene	39	30 J	190	150 J
1,3,5-Trimethylbenzene	39	21 J	190	100 J
1,2,4-Trimethylbenzene	39	18 J	190	91 J

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Client Sample ID: B8SSV-2D101015

Lab ID#: 1510223B-12A

EPA METHOD TO-15 GC/MS

File Name:	**14101542**	**Date of Collection:**	**10/10/15 1:15:00 PM**
Dil. Factor:	**7.87**	**Date of Analysis:**	**10/16/15 03:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	39	Not Detected	190	Not Detected
Freon 114	39	Not Detected	280	Not Detected
Chloromethane	160	Not Detected	320	Not Detected
Vinyl Chloride	39	38 J	100	98 J
1,3-Butadiene	39	Not Detected	87	Not Detected
Bromomethane	39	Not Detected	150	Not Detected
Chloroethane	160	Not Detected	420	Not Detected
Freon 11	39	Not Detected	220	Not Detected
Ethanol	160	Not Detected	300	Not Detected
Freon 113	39	Not Detected	300	Not Detected
1,1-Dichloroethene	39	Not Detected	160	Not Detected
Acetone	160	Not Detected	370	Not Detected
2-Propanol	160	Not Detected	390	Not Detected
Carbon Disulfide	39	Not Detected	120	Not Detected
3-Chloropropene	160	Not Detected	490	Not Detected
Methylene Chloride	39	12 J	140	43 J
Methyl tert-butyl ether	39	230	140	850
trans-1,2-Dichloroethene	39	Not Detected	160	Not Detected
Hexane	39	840	140	3000
1,1-Dichloroethane	39	Not Detected	160	Not Detected
2-Butanone (Methyl Ethyl Ketone)	160	Not Detected	460	Not Detected
cis-1,2-Dichloroethene	39	14 J	160	55 J
Tetrahydrofuran	39	Not Detected	120	Not Detected
Chloroform	39	Not Detected	190	Not Detected
1,1,1-Trichloroethane	39	Not Detected	210	Not Detected
Cyclohexane	39	2000	140	6800
Carbon Tetrachloride	39	Not Detected	250	Not Detected
2,2,4-Trimethylpentane	39	210	180	970
Benzene	39	19 J	120	62 J
1,2-Dichloroethane	39	Not Detected	160	Not Detected
Heptane	39	2300	160	9600
Trichloroethene	39	Not Detected	210	Not Detected
1,2-Dichloropropane	39	Not Detected	180	Not Detected
1,4-Dioxane	160	Not Detected	570	Not Detected
Bromodichloromethane	39	Not Detected	260	Not Detected
cis-1,3-Dichloropropene	39	Not Detected	180	Not Detected
4-Methyl-2-pentanone	39	Not Detected	160	Not Detected
Toluene	39	Not Detected	150	Not Detected
trans-1,3-Dichloropropene	39	Not Detected	180	Not Detected
1,1,2-Trichloroethane	39	Not Detected	210	Not Detected
Tetrachloroethene	39	Not Detected	270	Not Detected
2-Hexanone	160	Not Detected	640	Not Detected

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Client Sample ID: B8SSV-2D101015

Lab ID#: 1510223B-12A

EPA METHOD TO-15 GC/MS

File Name:	**14101542**	**Date of Collection:**	**10/10/15 1:15:00 PM**
Dil. Factor:	**7.87**	**Date of Analysis:**	**10/16/15 03:00 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	39	Not Detected	340	Not Detected
1,2-Dibromoethane (EDB)	39	Not Detected	300	Not Detected
Chlorobenzene	39	Not Detected	180	Not Detected
Ethyl Benzene	39	54	170	230
m,p-Xylene	39	200	170	870
o-Xylene	39	34 J	170	140 J
Styrene	39	Not Detected	170	Not Detected
Bromoform	39	Not Detected	410	Not Detected
Cumene	39	3300	190	16000
1,1,2,2-Tetrachloroethane	39	Not Detected	270	Not Detected
Propylbenzene	39	430	190	2100
4-Ethyltoluene	39	30 J	190	150 J
1,3,5-Trimethylbenzene	39	21 J	190	100 J
1,2,4-Trimethylbenzene	39	18 J	190	91 J
1,3-Dichlorobenzene	39	Not Detected	240	Not Detected
1,4-Dichlorobenzene	39	Not Detected	240	Not Detected
alpha-Chlorotoluene	39	Not Detected	200	Not Detected
1,2-Dichlorobenzene	39	Not Detected	240	Not Detected
1,2,4-Trichlorobenzene	160	Not Detected	1200	Not Detected
Hexachlorobutadiene	160	Not Detected	1700	Not Detected

J = Estimated value.

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

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101542.d
Lab Smp Id: 1510223B-12A
Inj Date : 16-OCT-2015 15:00
Operator : cb Inst ID: msd14.i
Smp Info : 15ml #36541
Misc Info : 4.3"Hg -> 15psi
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 16-Oct-2015 12:53 ejakob Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1
Dil Factor: 7.87000
Integrator: HP RTE Compound Sublist: TO15mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	7.87000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	51210	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	39589			48.38- 108.38	77.31
4.739	4.739 (1.000)	49	81583			122.49- 182.49	159.31
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	242941	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	42339			0.00- 47.28	17.43
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	210270	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	625595			33.96- 93.96	297.52
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	99612	441.569	441.57	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	60638			22.50- 82.50	60.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	269698	419.315	419.31	80.00- 120.00	100.00
7.635	7.621 (1.306)	70	62169			0.00- 42.36	23.05
7.635	7.621 (1.306)	100	166763			36.13- 96.13	61.83
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	119311	396.150	396.15	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	174009			113.45- 173.45	145.84
10.951	10.951 (1.115)	176	113177			68.10- 128.10	94.86
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.506 (0.318)	62	1119	4.89820	38.549	80.00- 120.00	100.00(a)
1.521	1.506 (0.321)	64	414			1.45- 61.45	37.03
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	468	1.57184	12.370	80.00- 120.00	100.00(a)
3.144	3.172 (0.663)	84	3461			42.33- 102.33	739.03
3.144	3.158 (0.663)	51	531			1.58- 61.58	113.45
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.354	3.353 (0.708)	73	16153	29.8339	234.79	80.00- 120.00	100.00
3.354	3.353 (0.708)	57	4136			0.00- 54.23	25.61
3.354	3.353 (0.708)	41	3195			0.00- 52.85	19.78
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	44304	106.614	839.06	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	26227			29.53- 89.53	59.20
3.577	3.577 (0.755)	86	7687			0.00- 47.08	17.35
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	646	1.77325	13.955	80.00- 120.00	100.00(a)
4.487	4.487 (0.947)	96	423			40.63- 100.63	65.58
4.487	4.487 (0.947)	98	212			13.70- 73.70	32.86
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.920 (1.038)	84	89797	251.584	1980.0	80.00- 120.00	100.00
4.921	4.920 (1.038)	56	142516			89.66- 149.66	158.71
4.921	4.920 (1.038)	41	80931			35.66- 95.66	90.13
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	34565	26.4915	208.49	80.00- 120.00	100.00
5.312	5.326 (1.121)	56	40046			3.74- 63.74	115.86
5.312	5.326 (1.121)	41	31754			0.00- 57.60	91.87
116 Benzene					CAS #: 71-43-2		
5.340	5.354 (0.914)	78	1966	2.47753	19.498	80.00- 120.00	100.00(a)

```
                                        CONCENTRATIONS
                                        ON-COL    FINAL
   RT   EXP RT (REL RT)  MASS  RESPONSE ( PPBV)  ( PPBV)   TARGET RANGE    RATIO
   ==   ====== ========  ====  ======== =======  =======   ============    =====

  116 Benzene (continued)
  5.312   5.340 (0.909)    77      1570                     0.00-  54.57    79.85
-------------------------------------------------------------------------------
  121 Heptane                                     CAS #: 142-82-5
  5.564   5.564 (0.952)    71     85592 297.989   2345.2  80.00- 120.00   100.00
  5.564   5.564 (0.952)    43    133040                  135.26- 195.26   155.44
  5.564   5.564 (0.952)   100     27536                    2.82-  62.82    32.17
-------------------------------------------------------------------------------
  167 Ethyl Benzene                               CAS #: 100-41-4
  9.944   9.944 (1.013)   106      2629 6.86017   53.990  80.00- 120.00   100.00
  9.958   9.944 (1.014)    91     26101                  302.14- 362.14   992.52
-------------------------------------------------------------------------------
  169 m,p-Xylene                                  CAS #: 108-38-3
 10.084  10.083 (1.027)   106     11836 25.4854   200.57  80.00- 120.00   100.00
 10.084  10.083 (1.027)    91     29757                  180.25- 240.25   251.40
-------------------------------------------------------------------------------
  171 o-Xylene                                    CAS #: 95-47-6
 10.461  10.461 (1.066)   106      1861 4.26482   33.564  80.00- 120.00   100.00(a)
 10.461  10.461 (1.066)    91      4463                  199.46- 259.46   239.83
-------------------------------------------------------------------------------
  175 Cumene                                      CAS #: 98-82-8
 10.783  10.783 (1.098)   105    574208 422.342   3323.8  80.00- 120.00   100.00
 10.783  10.783 (1.098)   120    142066                    0.00-  55.22    24.74
 10.769  10.769 (1.097)    51     74085                    0.00-  41.79    12.90
-------------------------------------------------------------------------------
  182 Propylbenzene                               CAS #: 103-65-1
 11.105  11.105 (1.131)    91     93053 54.8423   431.61  80.00- 120.00   100.00
 11.105  11.105 (1.131)   120     14962                    0.00-  50.77    16.08
 11.105  11.105 (1.131)   105      4509                    0.00-  33.59     4.85
-------------------------------------------------------------------------------
  188 4-Ethyltoluene                              CAS #: 622-96-8
 11.175  11.189 (1.138)   105      5081 3.84090   30.228  80.00- 120.00   100.00(a)
 11.175  11.203 (1.138)   120      1310                    0.00-  57.71    25.79
-------------------------------------------------------------------------------
  190 1,3,5-Trimethylbenzene                      CAS #: 108-67-8
 11.245  11.245 (1.145)   105      2962 2.63879   20.767  80.00- 120.00   100.00(a)
 11.245  11.245 (1.145)   120      1610                   15.95-  75.95    54.36
-------------------------------------------------------------------------------
  196 1,2,4-Trimethylbenzene                      CAS #: 95-63-6
 11.511  11.511 (1.172)   105      2466 2.34369   18.445  80.00- 120.00   100.00(a)
 11.511  11.511 (1.172)   120       911                   13.66-  73.66    36.96
-------------------------------------------------------------------------------
```

QC Flag Legend

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

Report Date: 16-Oct-2015 16:11

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101542.d
Lab Smp Id: 1510223B-12A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 4.3"Hg -> 15psi

Calibration Date: 15-OCT-2015
Calibration Time: 16:53

Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	51210	-1.74
123 1,4-Difluorobenze	239209	143525	334893	242941	1.56
163 Chlorobenzene-d5	200350	120210	280490	210270	4.95

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

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

Report Date: 16-Oct-2015 16:11

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: 1510223B-12A
Level: LOW
Operator: cb
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15mdl.sub
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 4.3"Hg -> 15psi

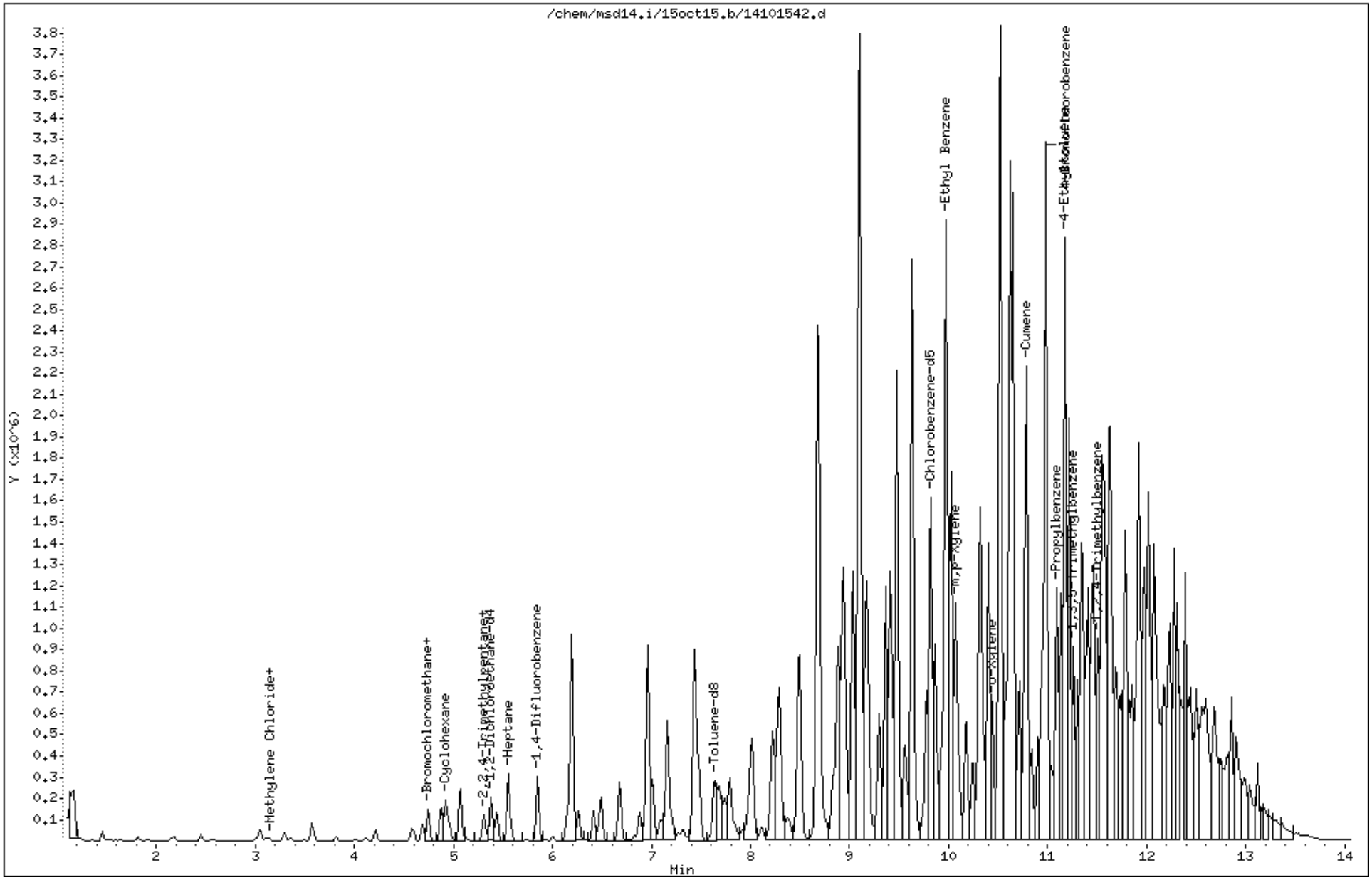
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	441.57	110.39	70-130
$ 146 Toluene-d8	400.00	419.31	104.83	70-130
$ 177 4-Bromofluorobenze	400.00	396.15	99.04	70-130

Data File: /chem/msd14.i/15oct15.b/14101542.d
Date : 16-OCT-2015 15:00
Client ID:
Sample Info: 15ml #36541

Column phase: RTX-624

Instrument: msd14.i

Operator: cb
Column diameter: 0.18



Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

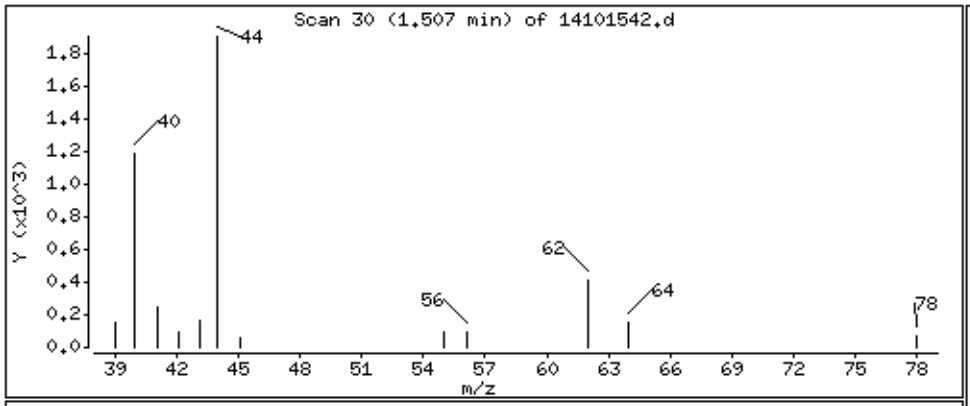
Operator: cb

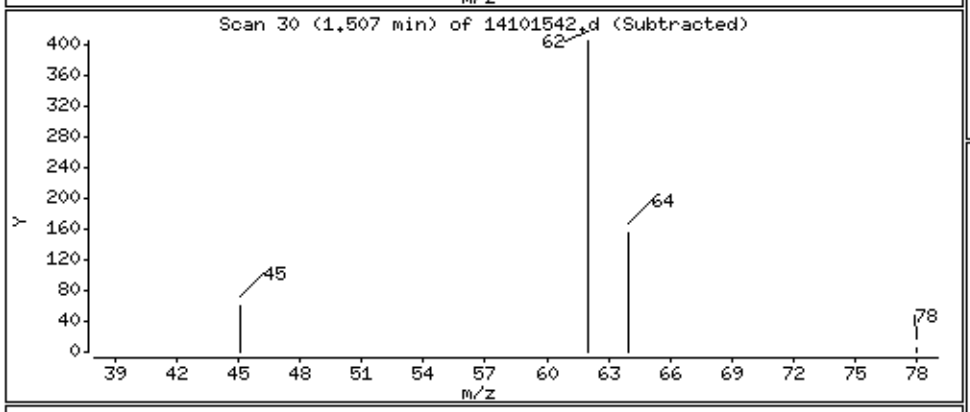
Column phase: RTX-624

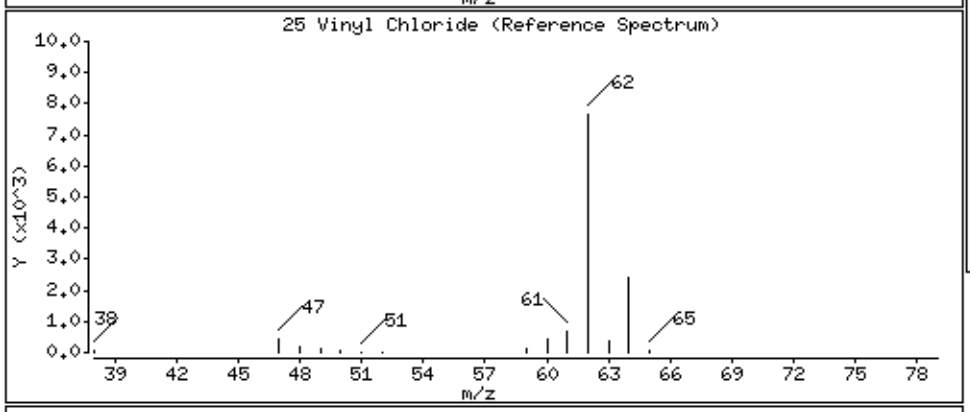
Column diameter: 0.18

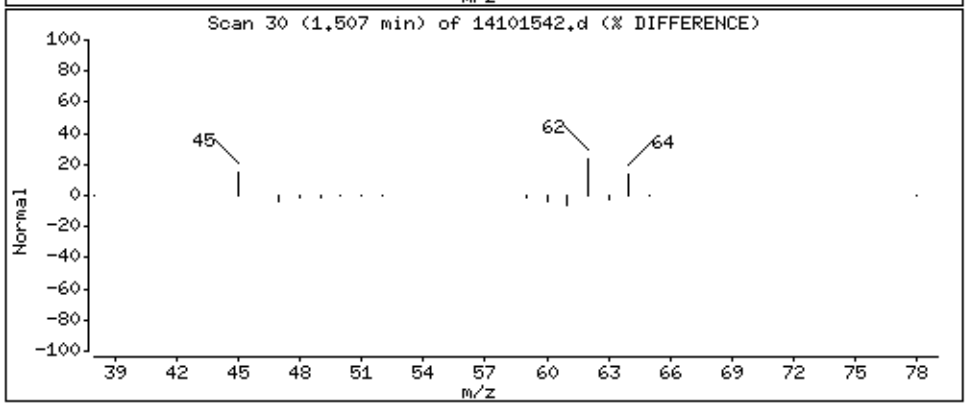
25 Vinyl Chloride

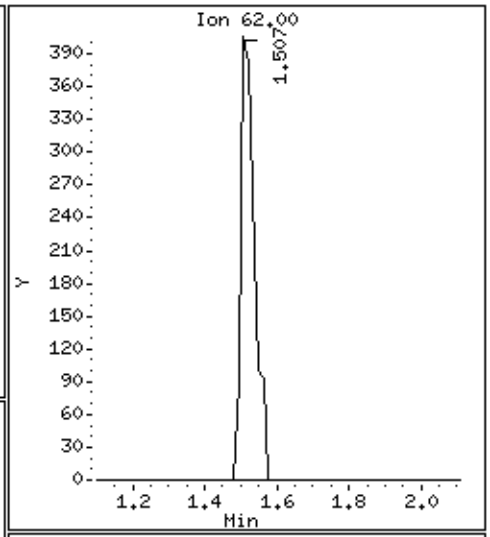
Concentration: 38.549 PPBV

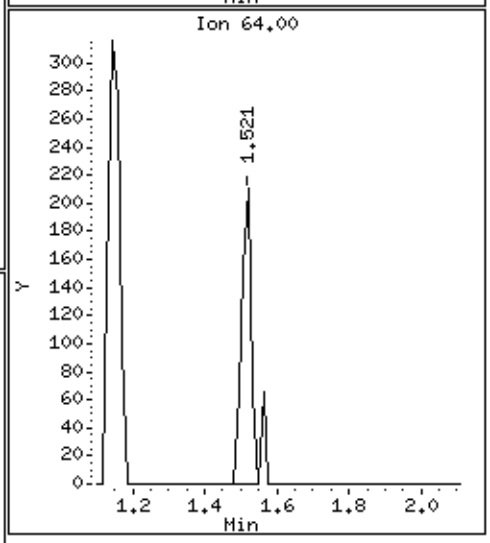












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

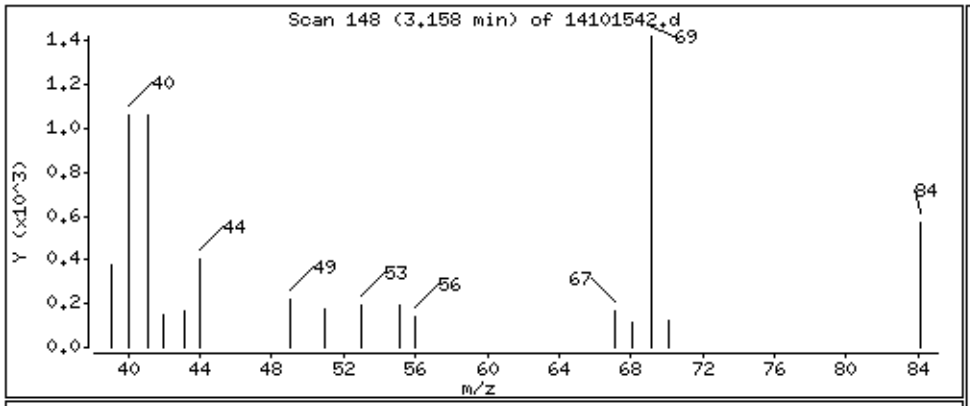
Operator: cb

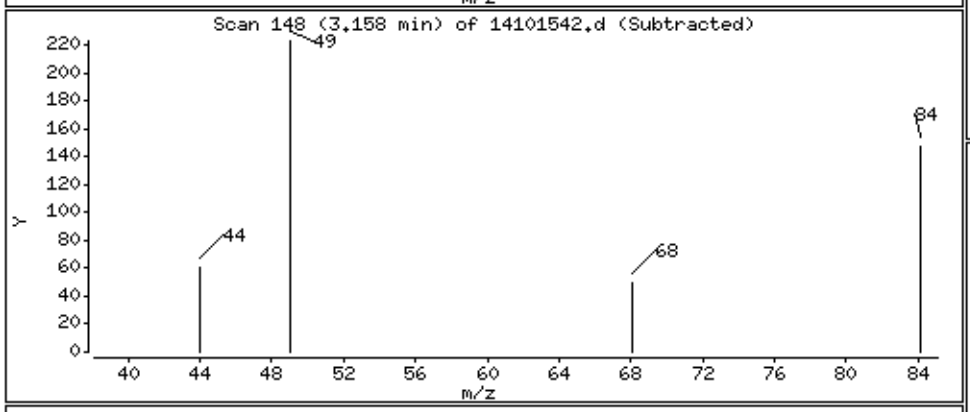
Column phase: RTX-624

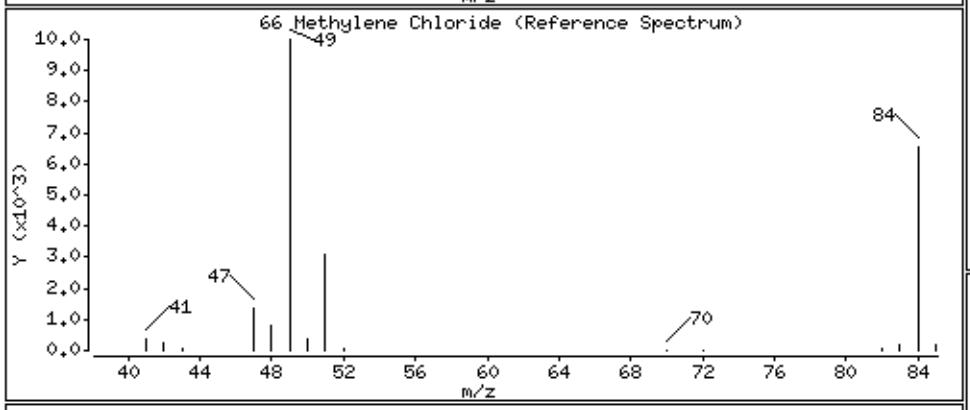
Column diameter: 0.18

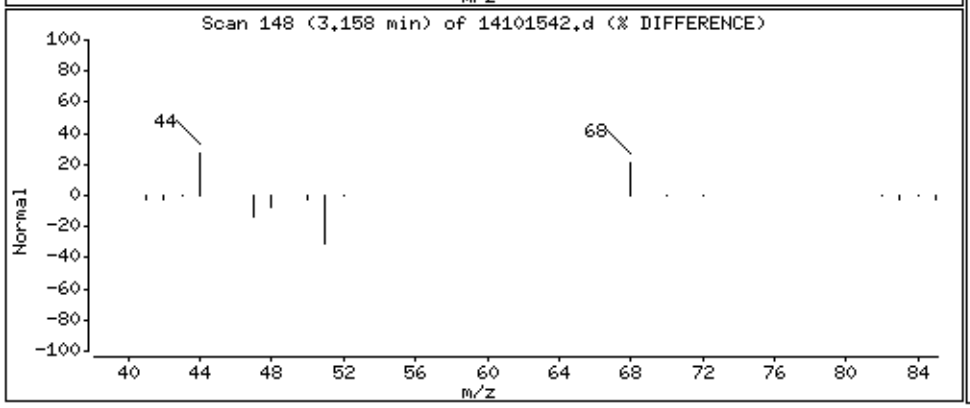
66 Methylene Chloride

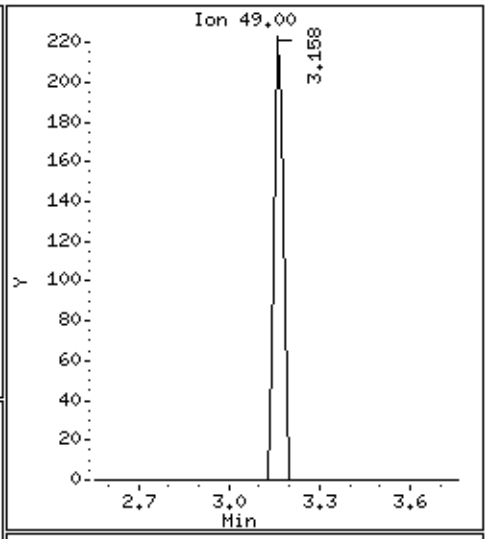
Concentration: 12.370 PPBV

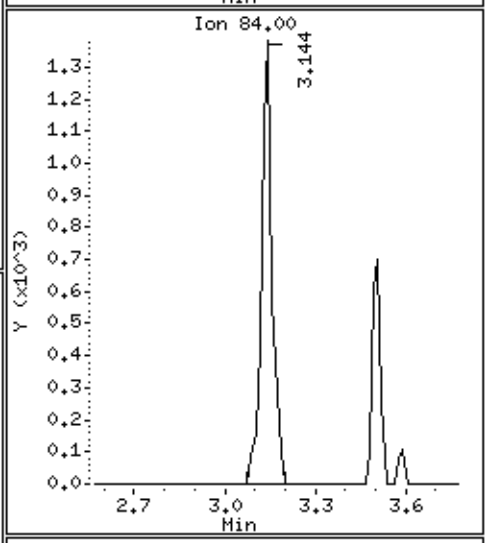


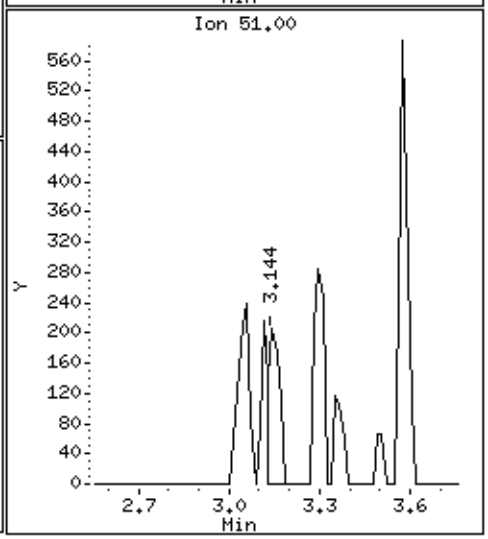












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

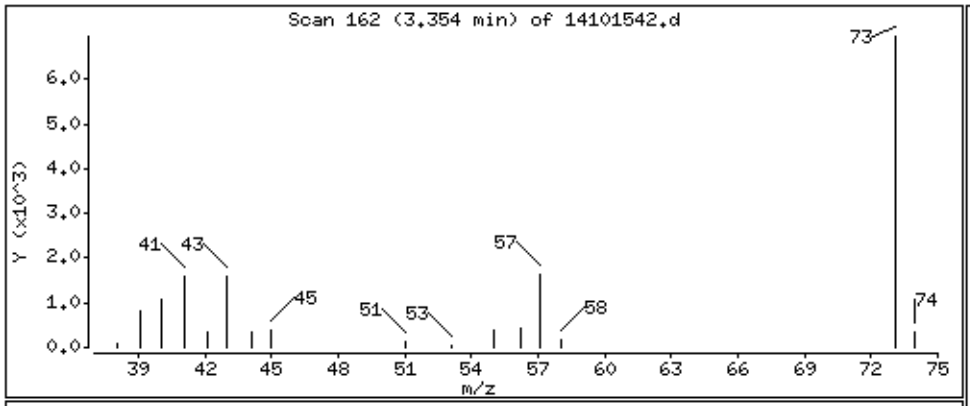
Operator: cb

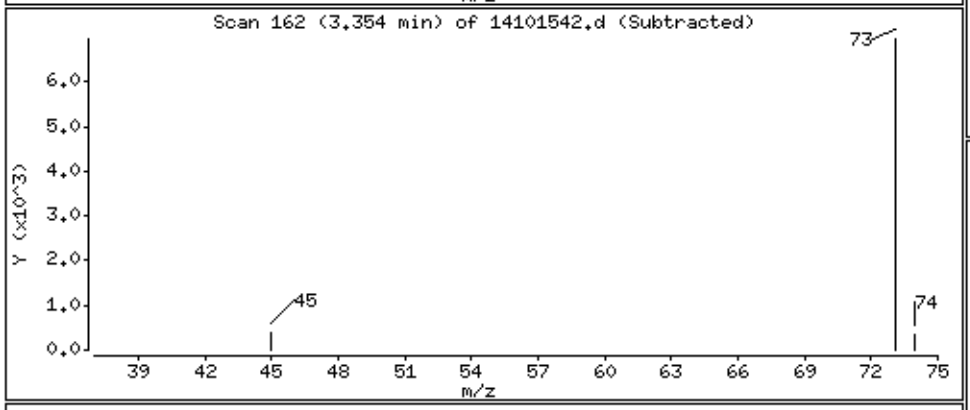
Column phase: RTX-624

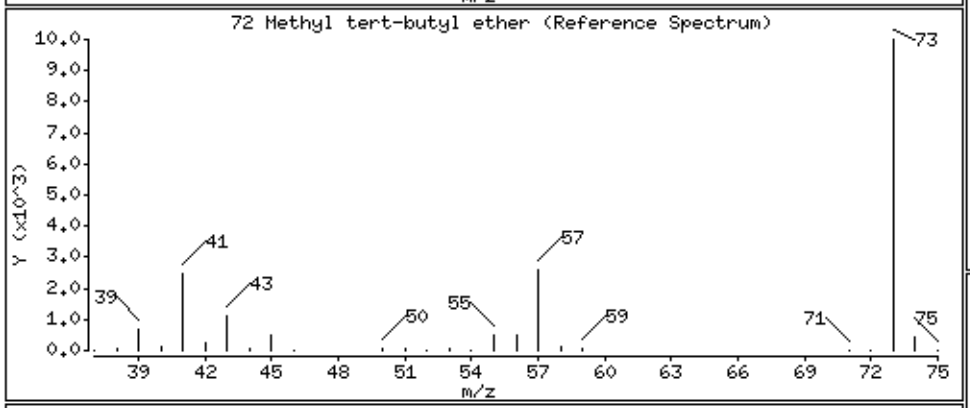
Column diameter: 0.18

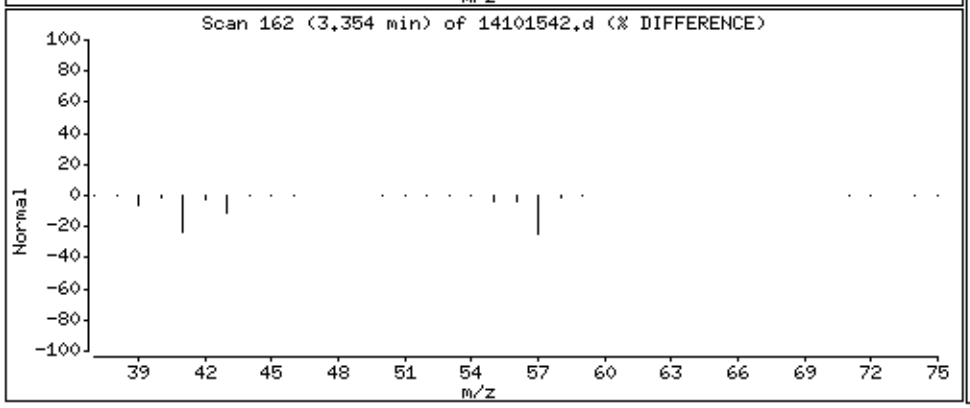
72 Methyl tert-butyl ether

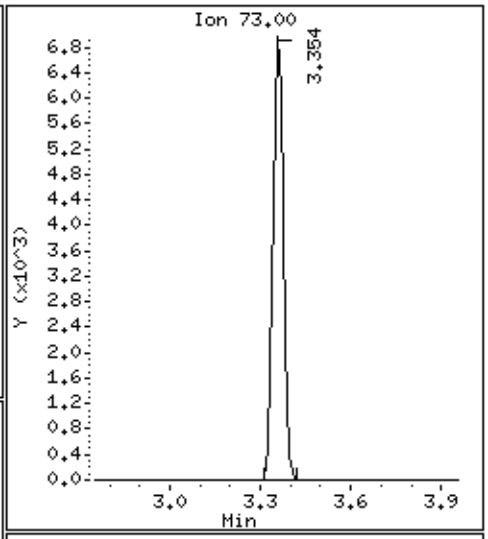
Concentration: 234.79 PPBV

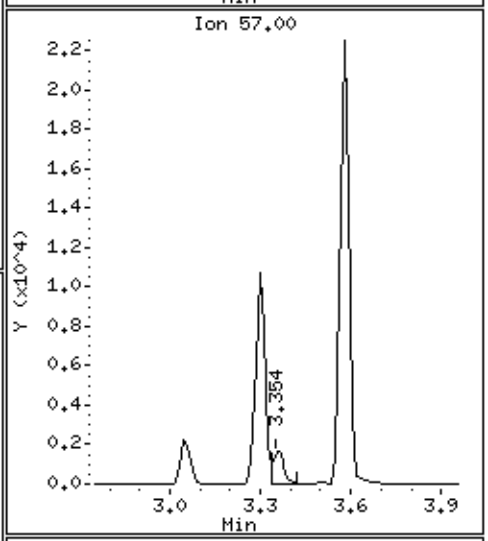


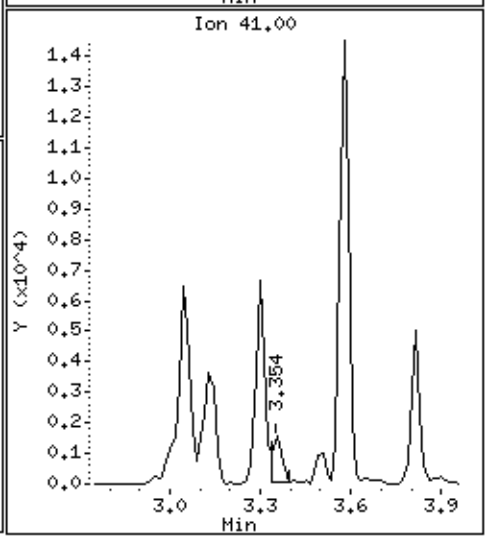












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

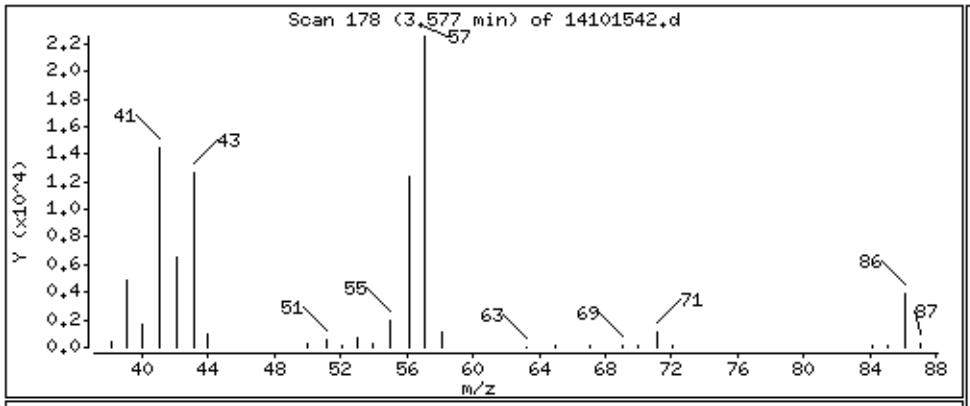
Operator: cb

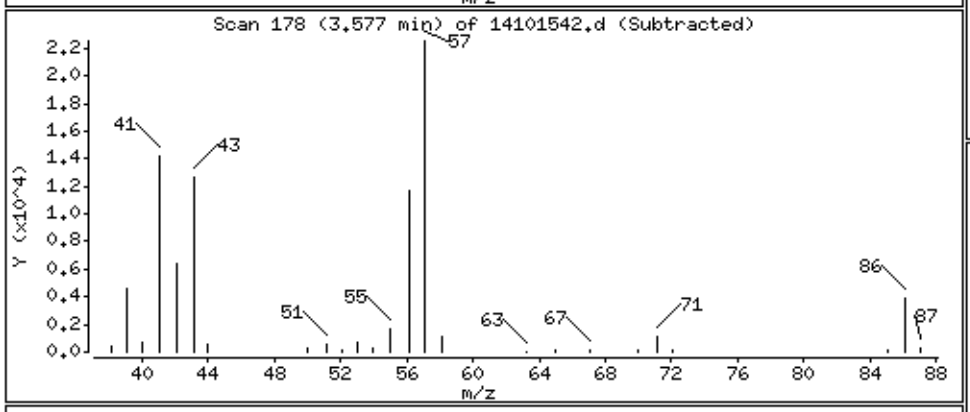
Column phase: RTX-624

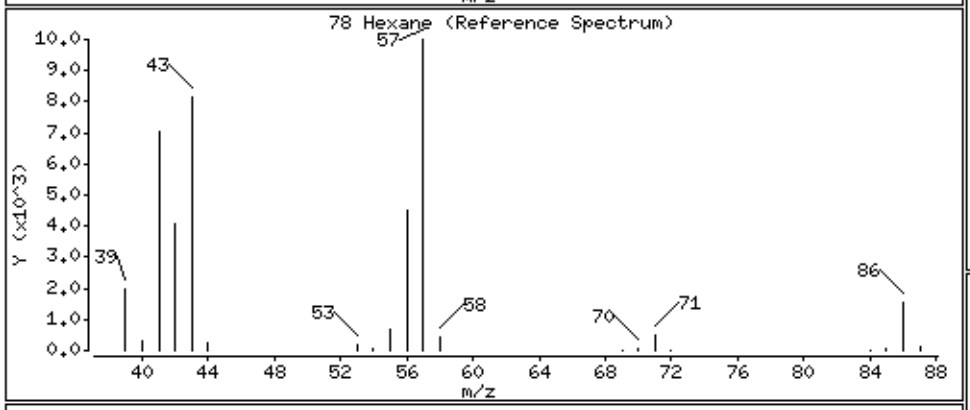
Column diameter: 0.18

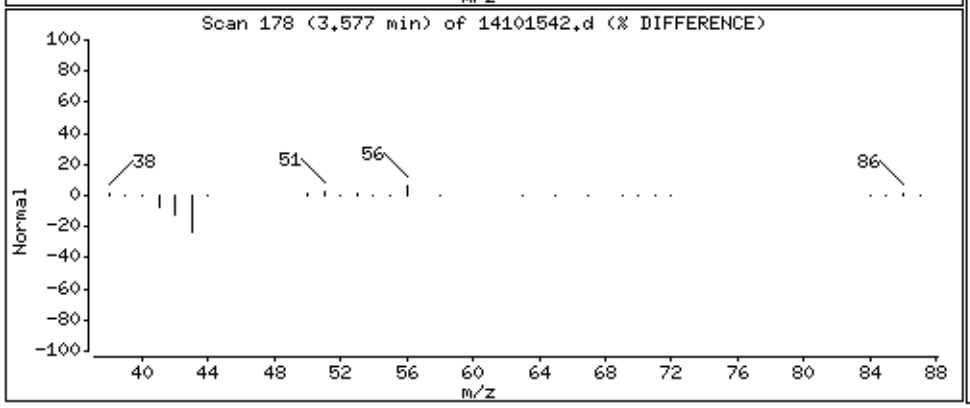
78 Hexane

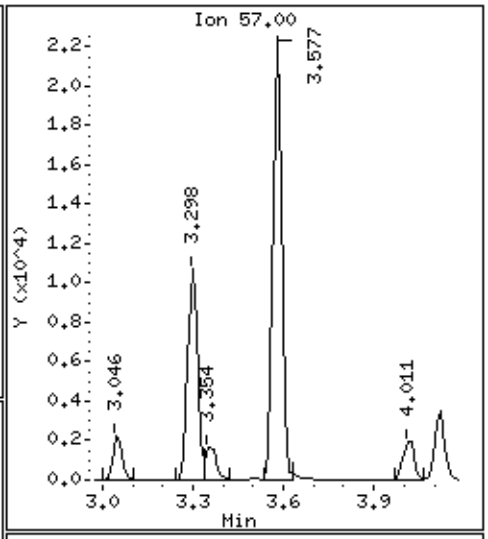
Concentration: 839.06 PPBV

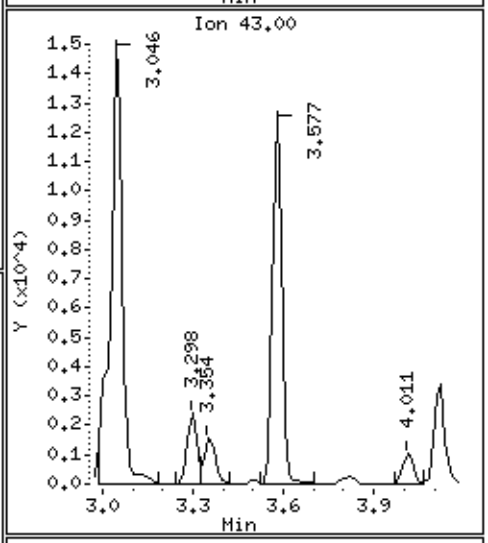


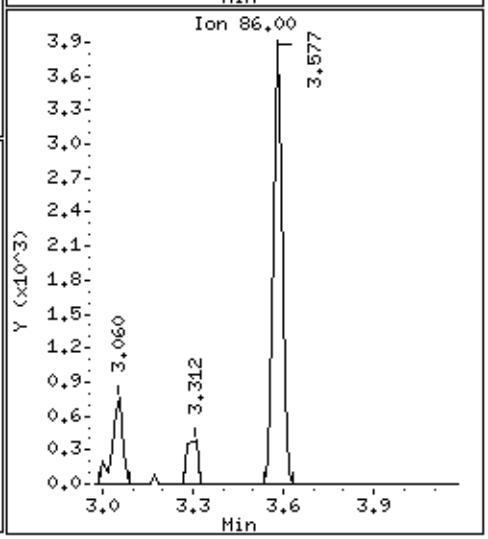












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

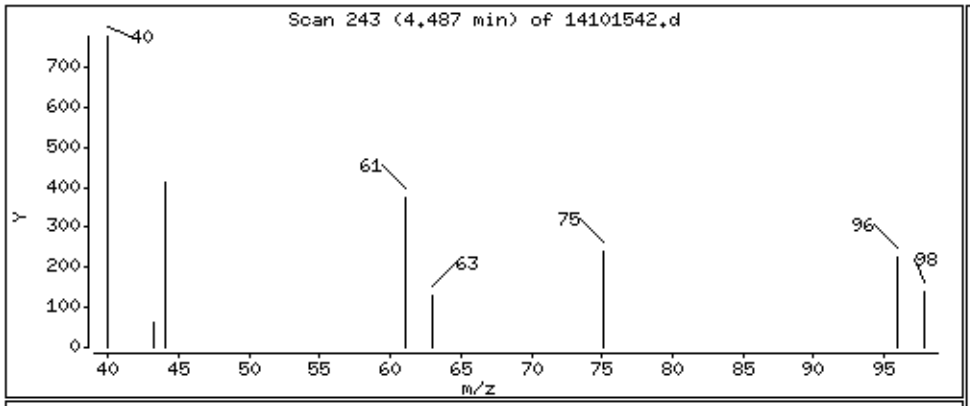
Operator: cb

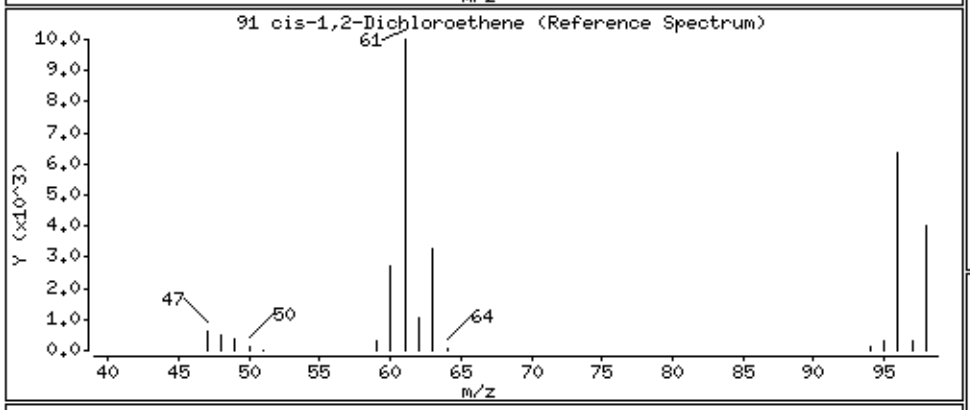
Column phase: RTX-624

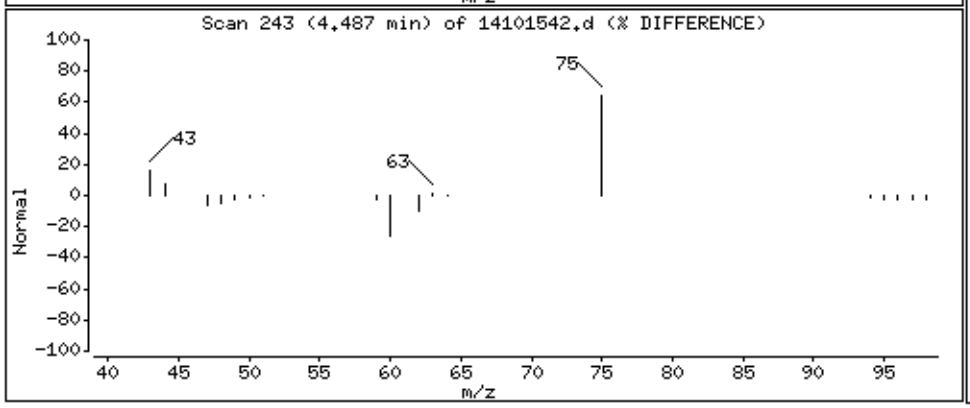
Column diameter: 0.18

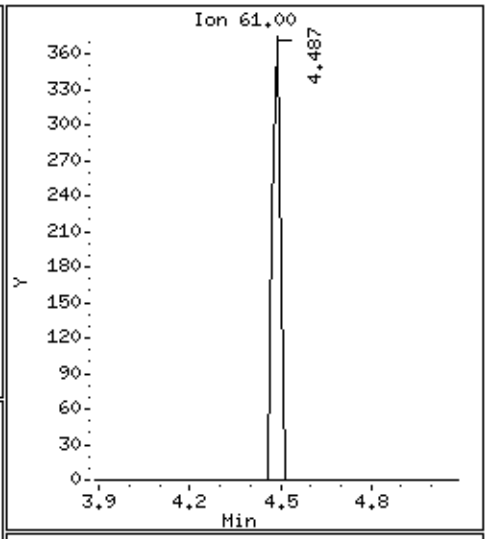
91 cis-1,2-Dichloroethene

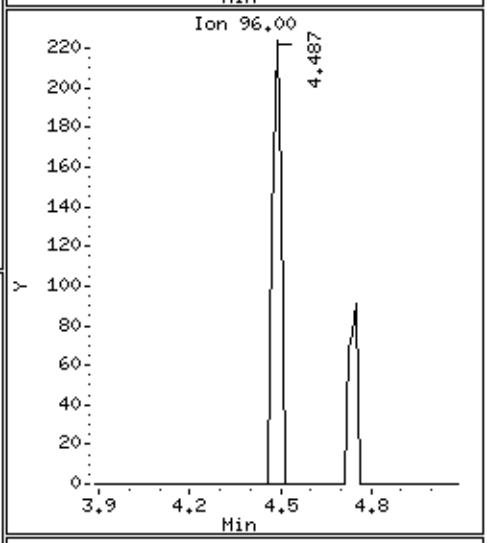
Concentration: 13.955 PPBV

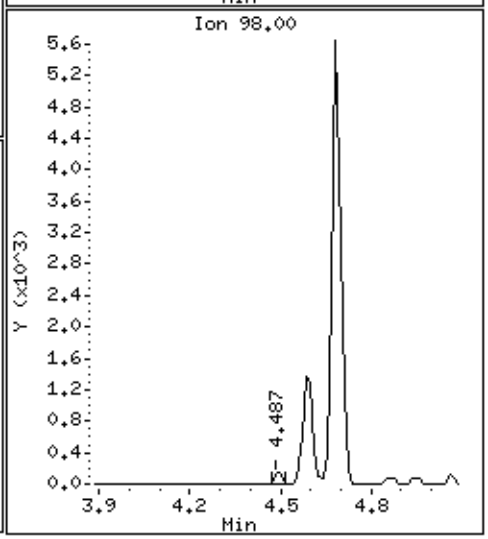












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

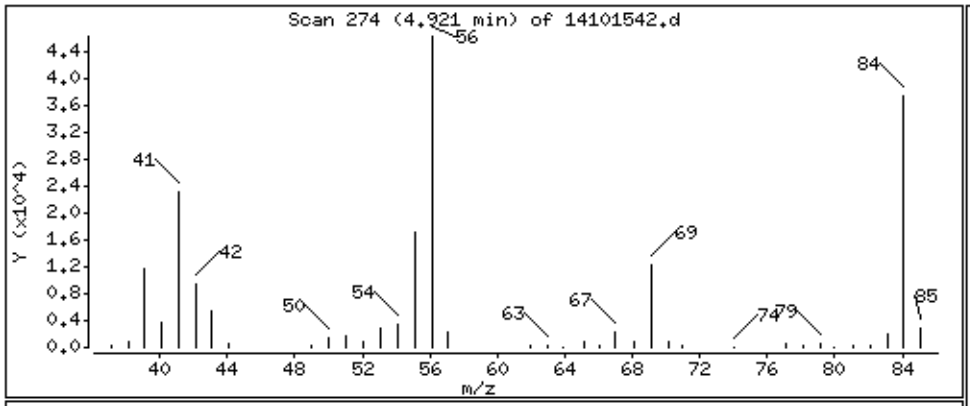
Operator: cb

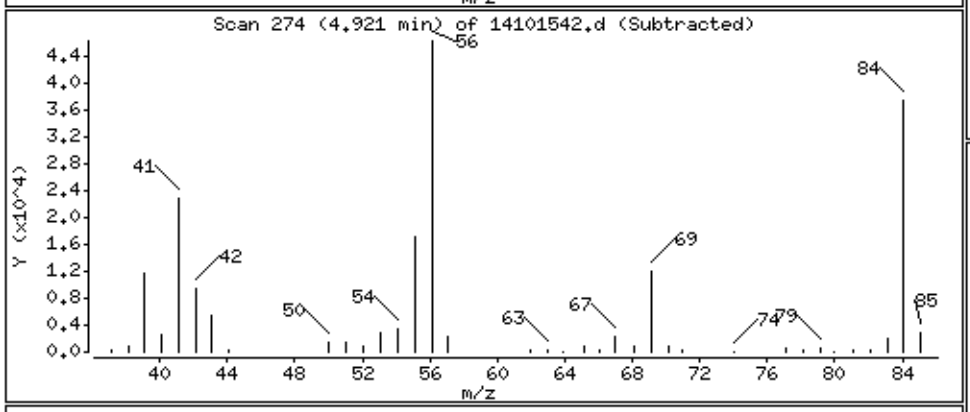
Column phase: RTX-624

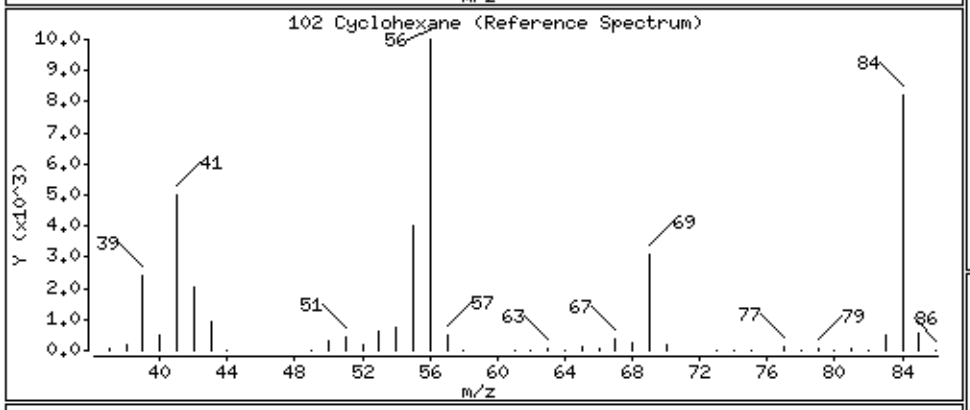
Column diameter: 0.18

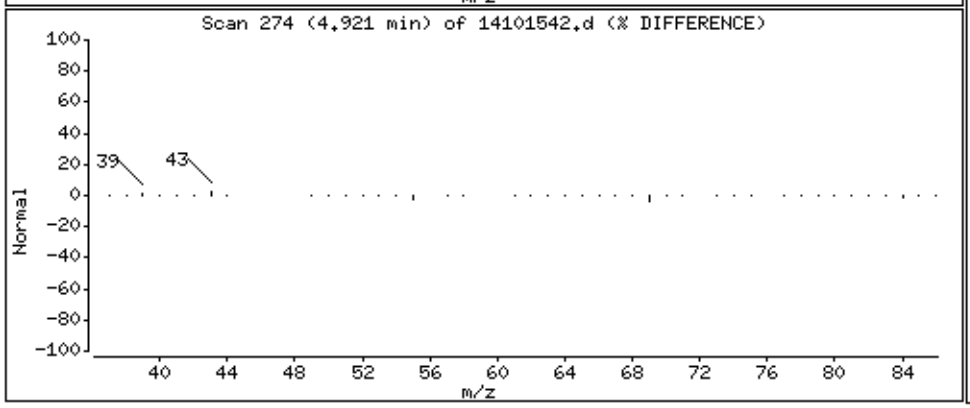
102 Cyclohexane

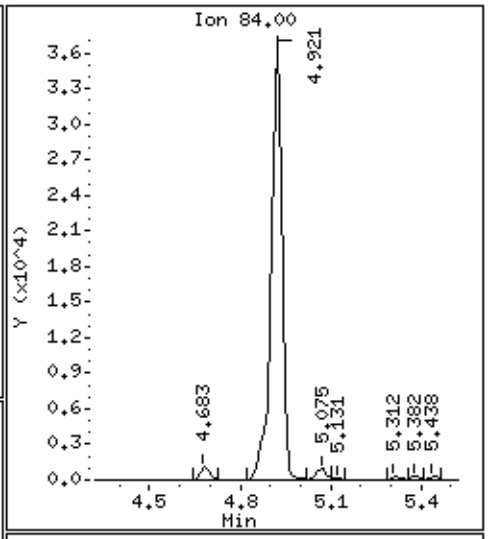
Concentration: 1980.0 PPBV

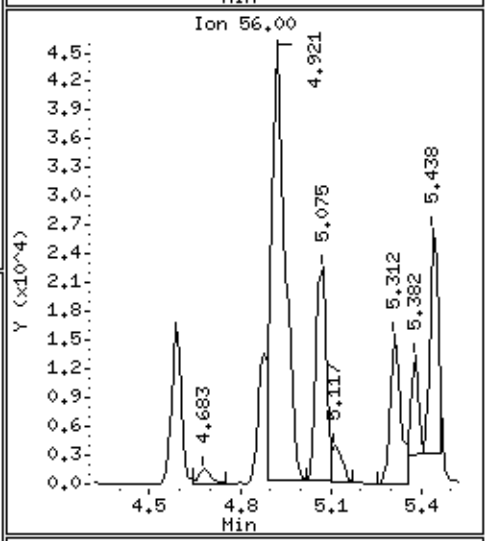


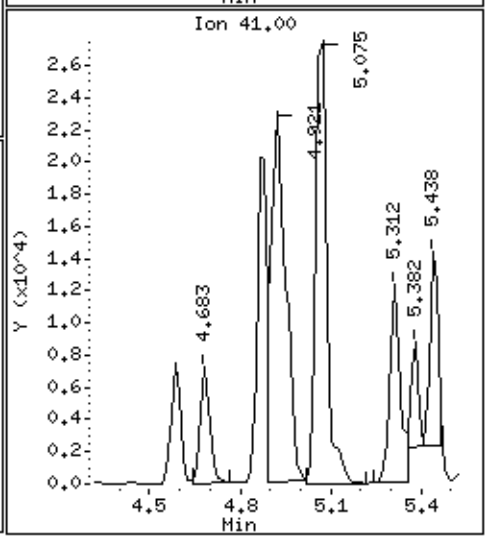












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

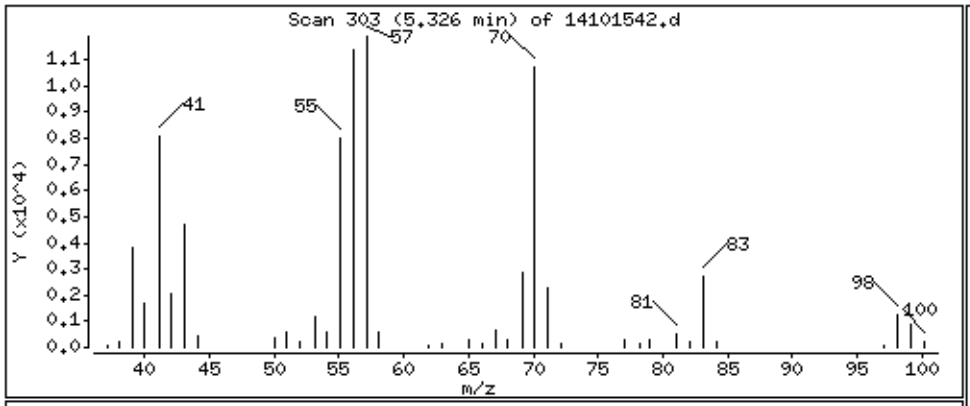
Operator: cb

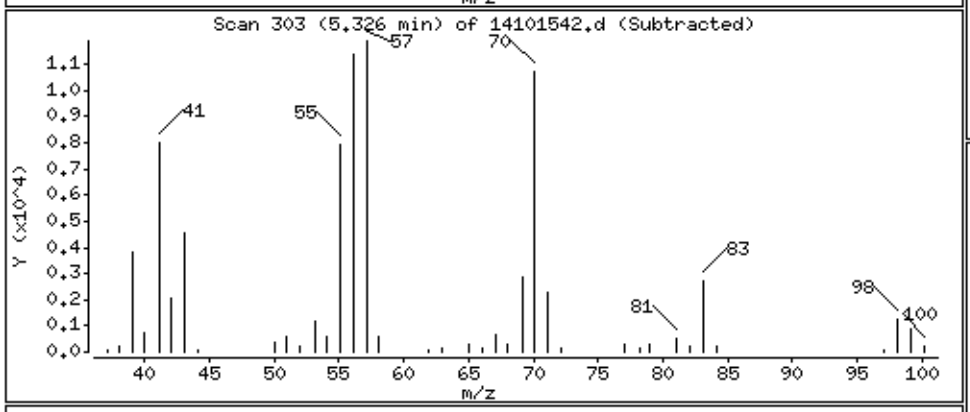
Column phase: RTX-624

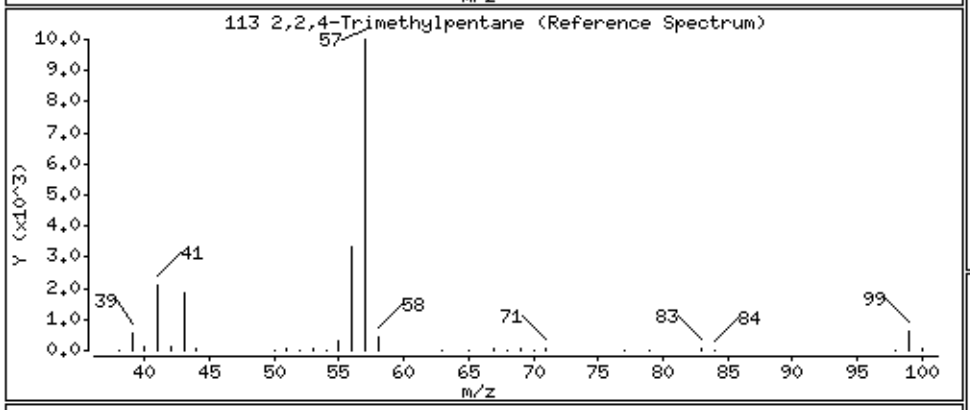
Column diameter: 0.18

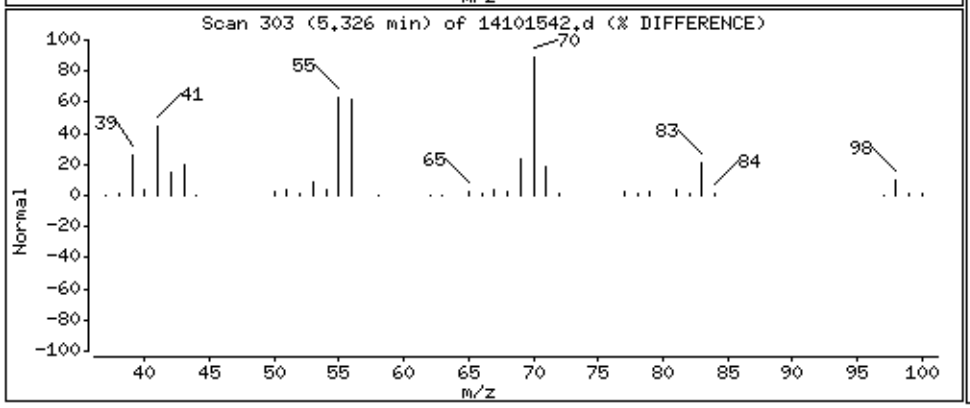
113 2,2,4-Trimethylpentane

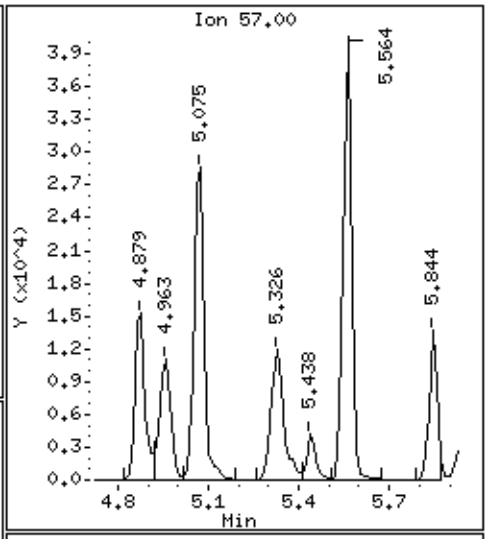
Concentration: 208.49 PPBV

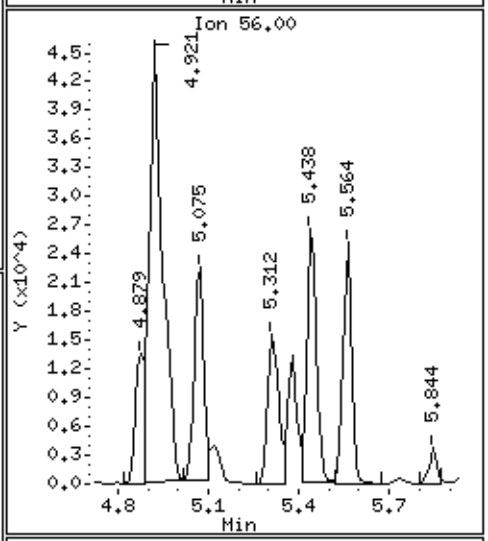


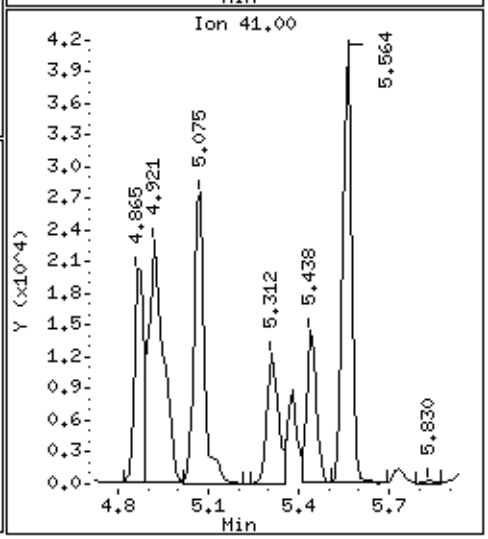












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

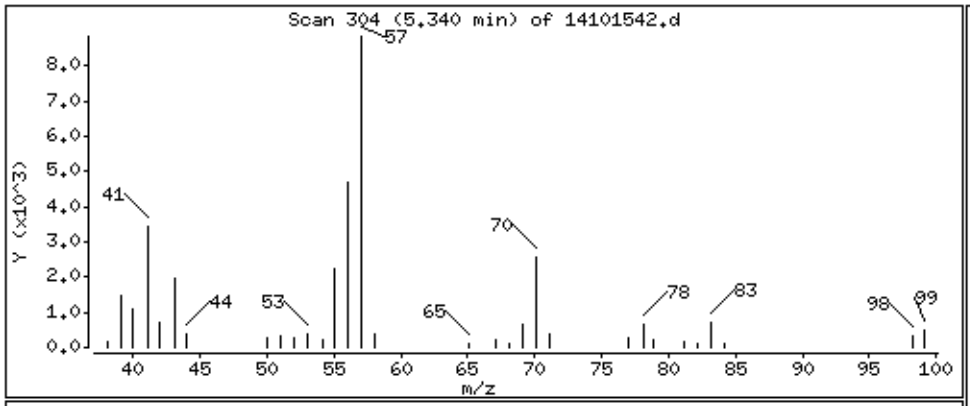
Operator: cb

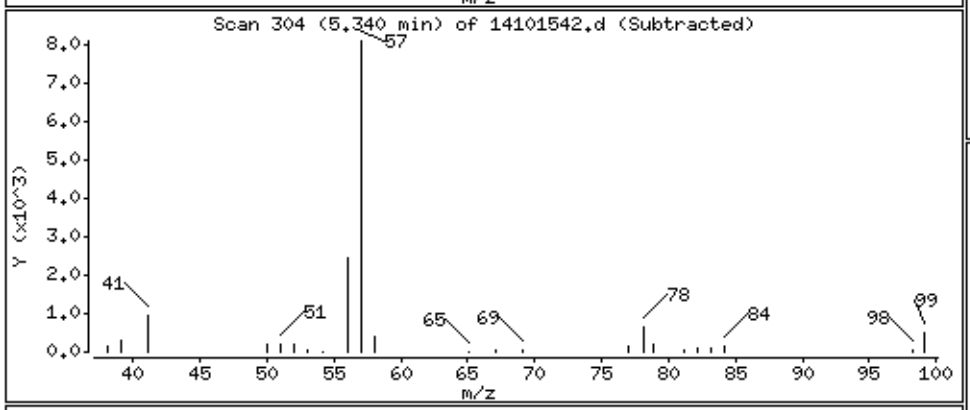
Column phase: RTX-624

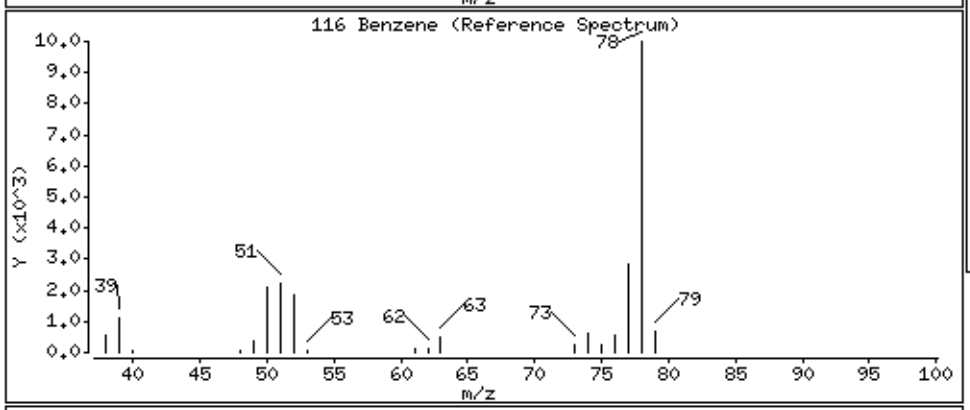
Column diameter: 0.18

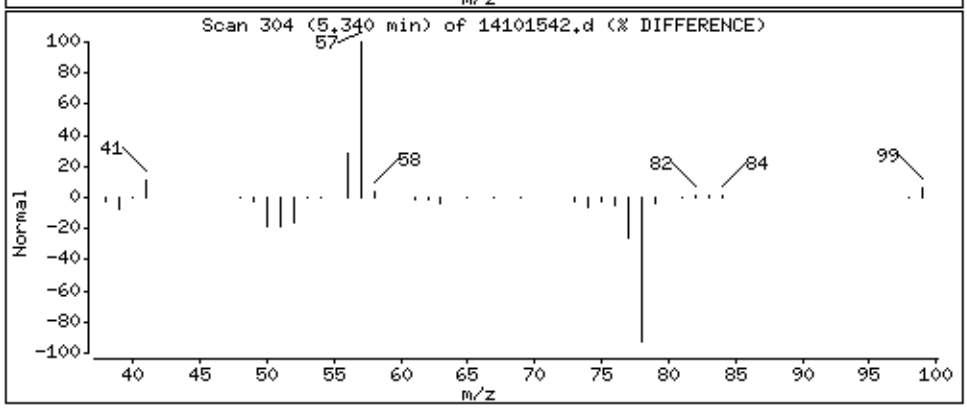
116 Benzene

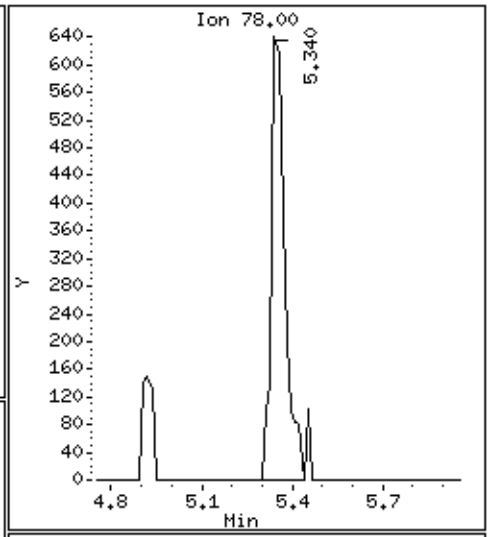
Concentration: 19.498 PPBV

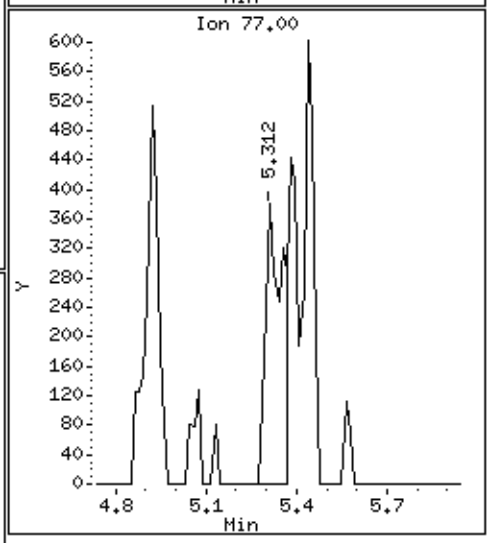












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

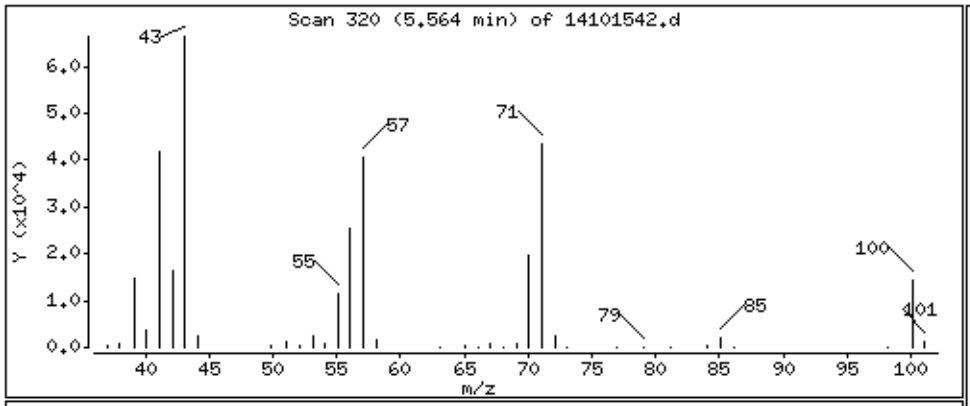
Operator: cb

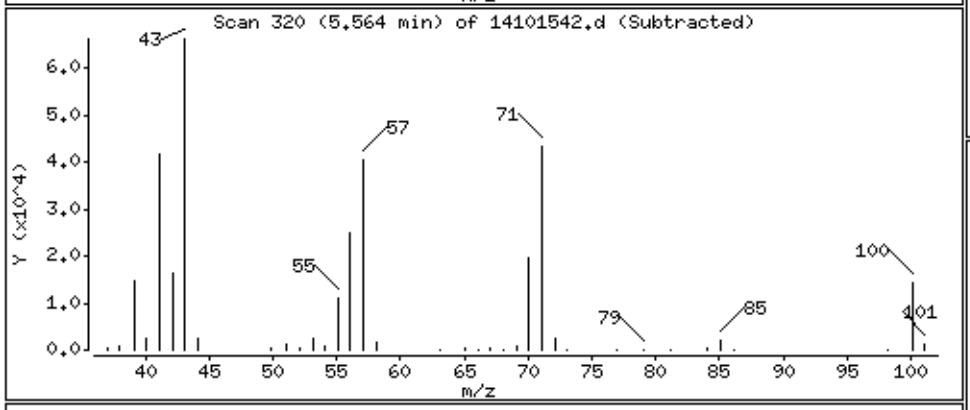
Column phase: RTX-624

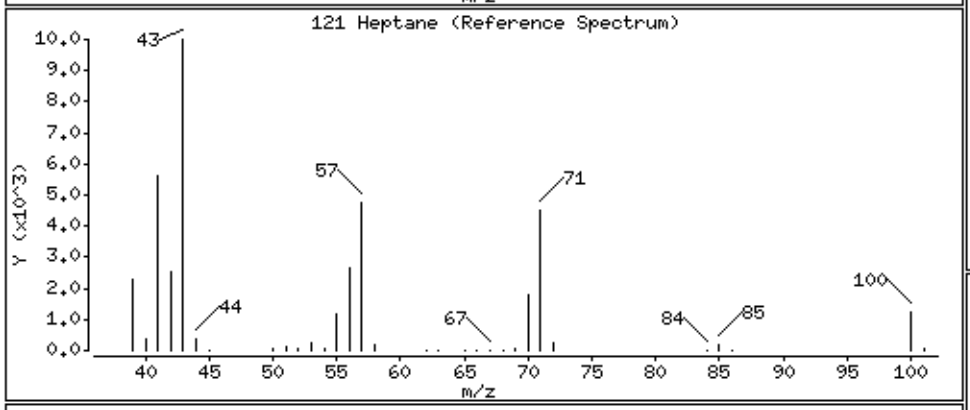
Column diameter: 0.18

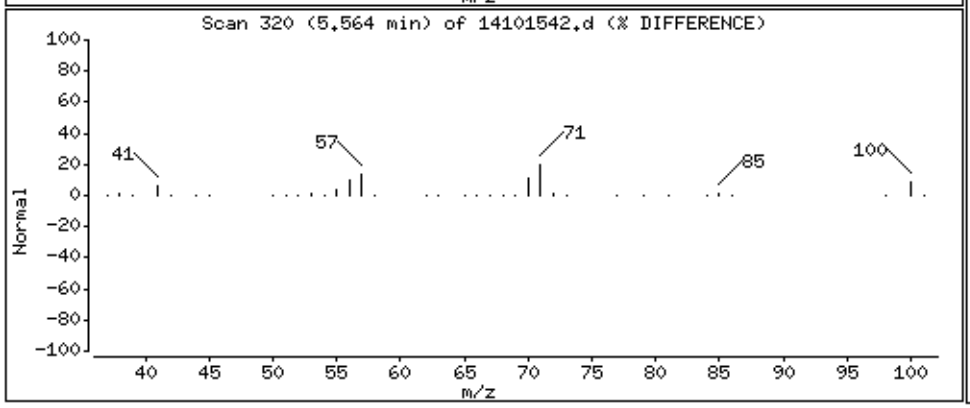
121 Heptane

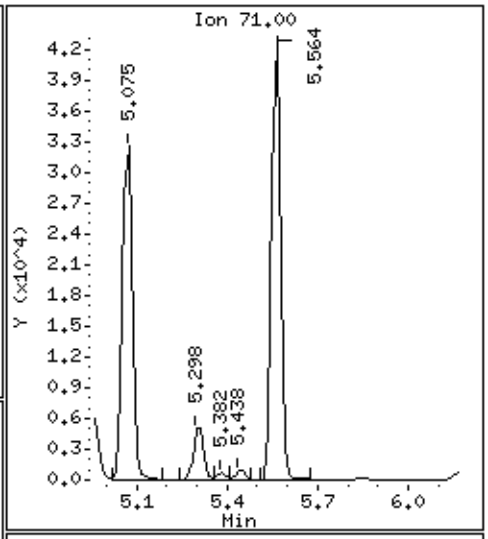
Concentration: 2345.2 PPBV

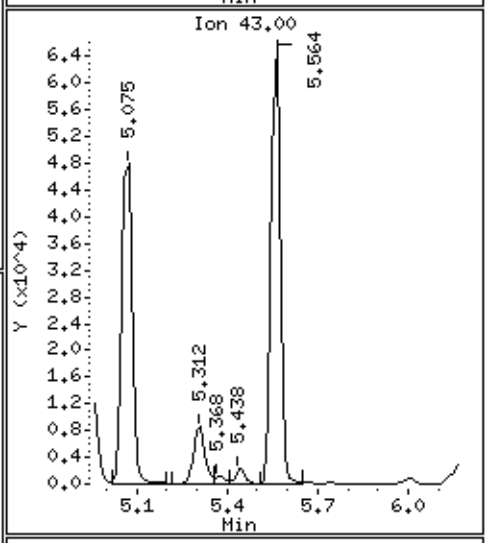


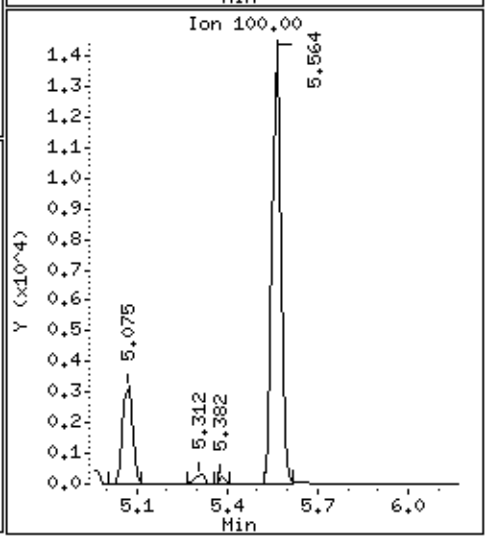












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

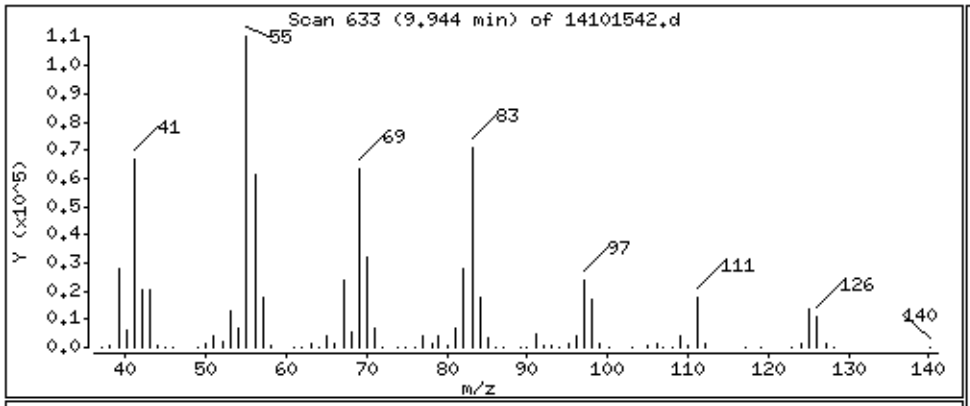
Operator: cb

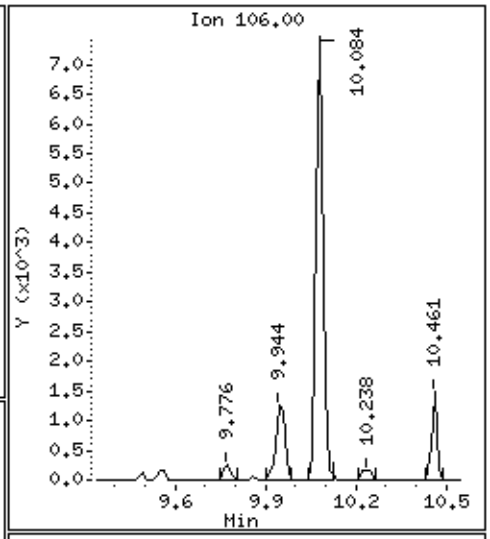
Column phase: RTX-624

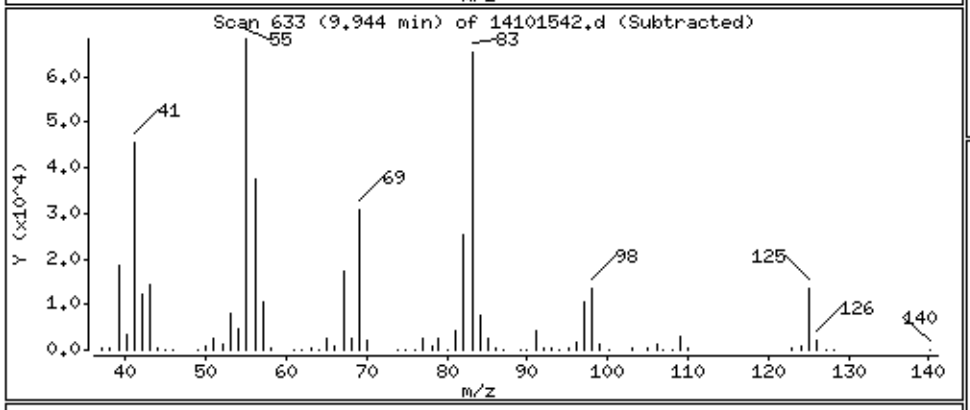
Column diameter: 0.18

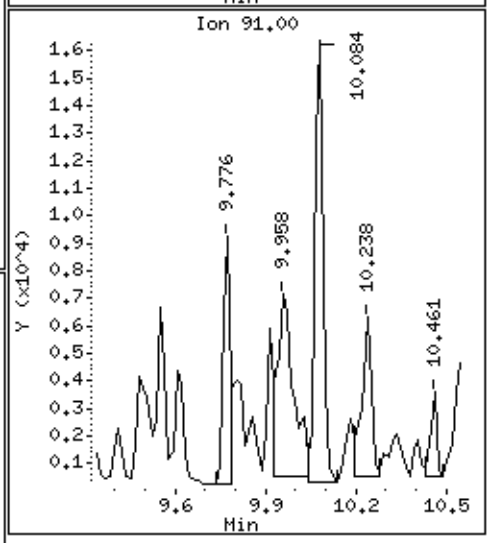
167 Ethyl Benzene

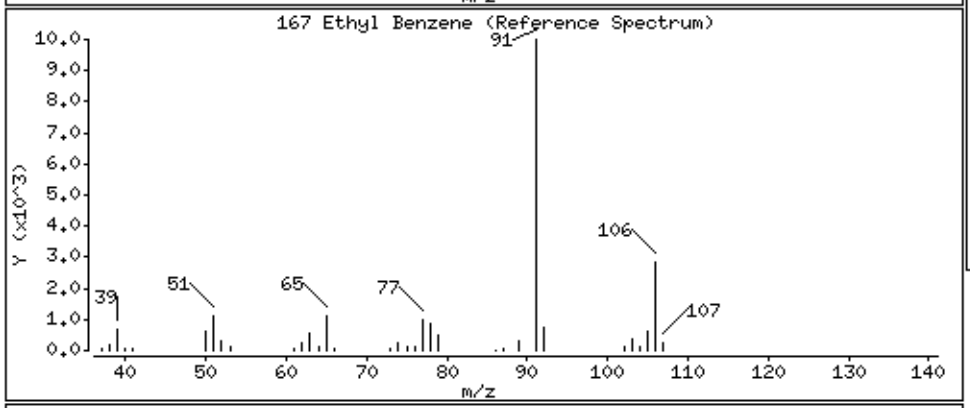
Concentration: 53.990 PPBV

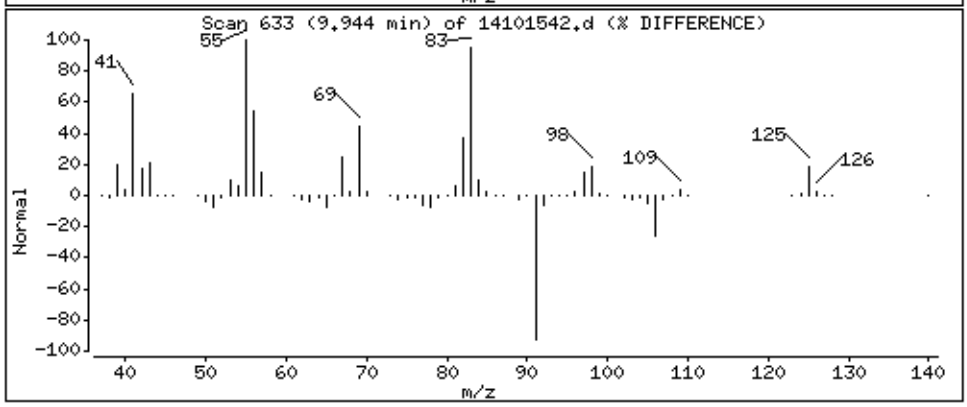












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

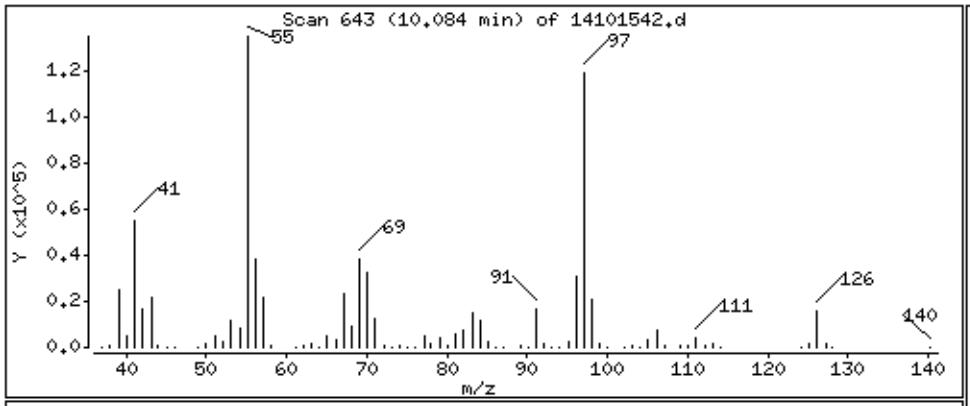
Operator: cb

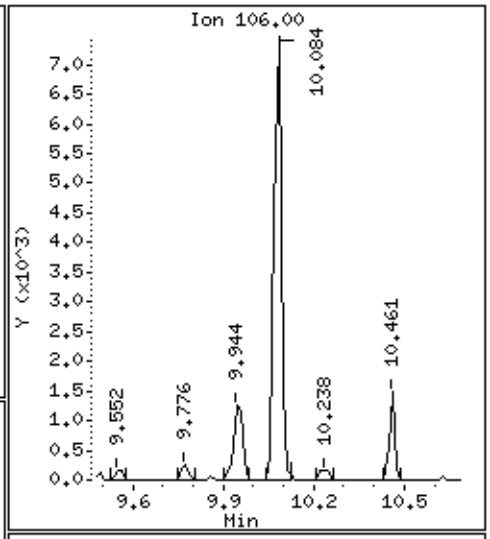
Column phase: RTX-624

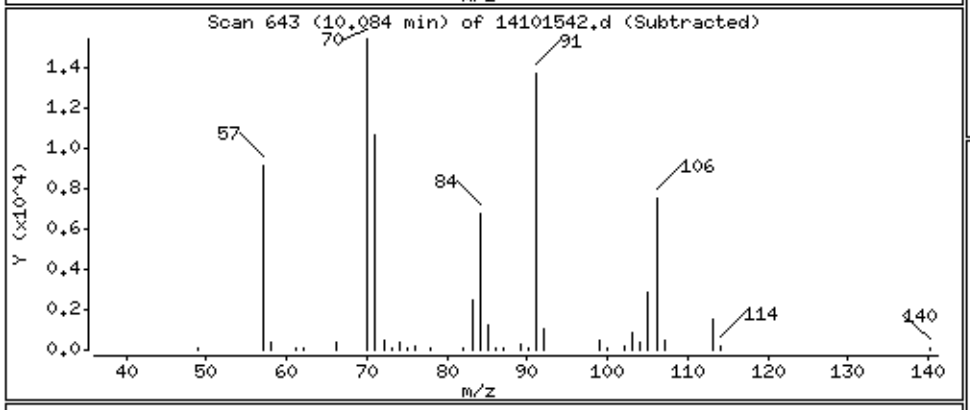
Column diameter: 0.18

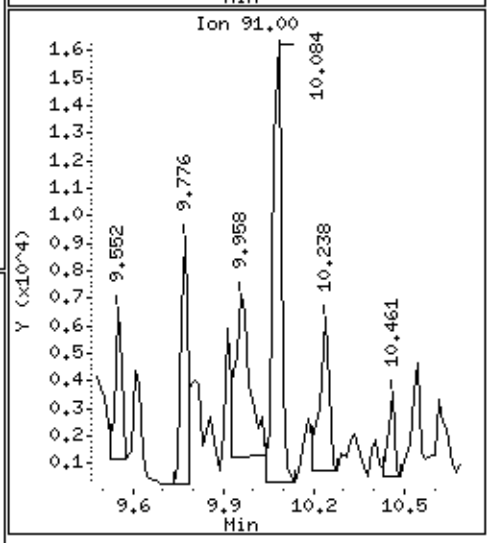
169 m,p-Xylene

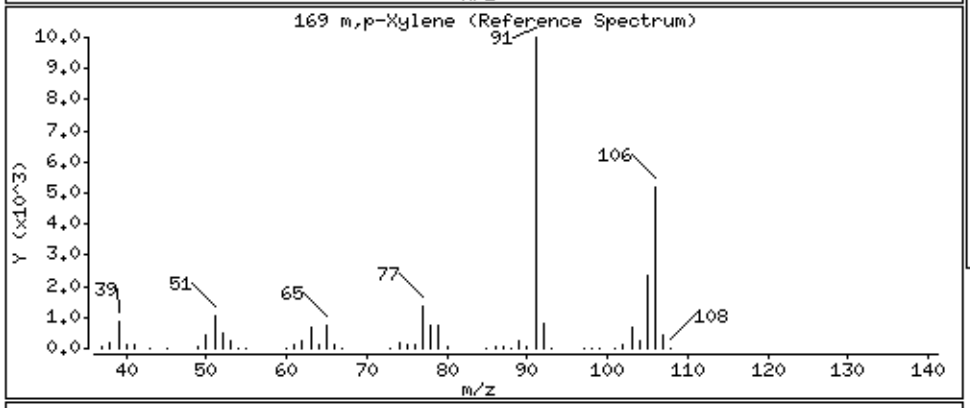
Concentration: 200.57 PPBV

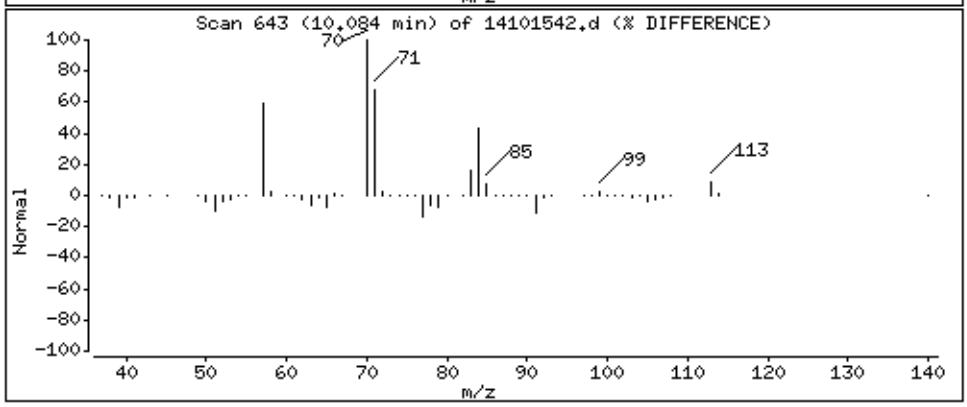












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

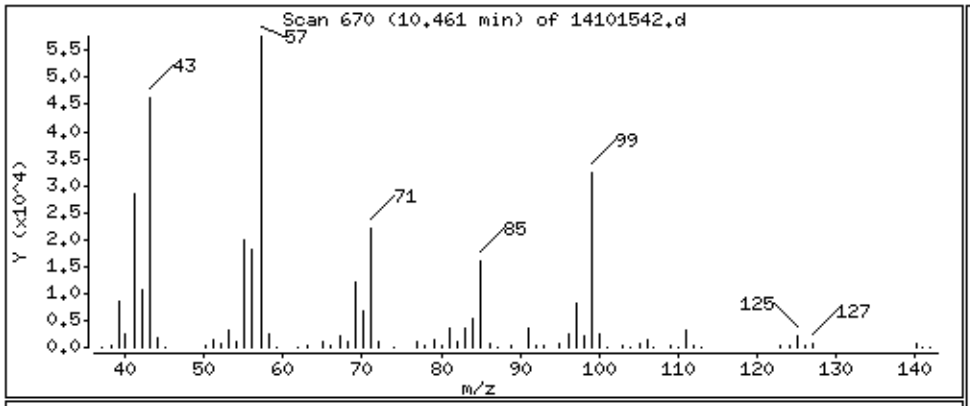
Operator: cb

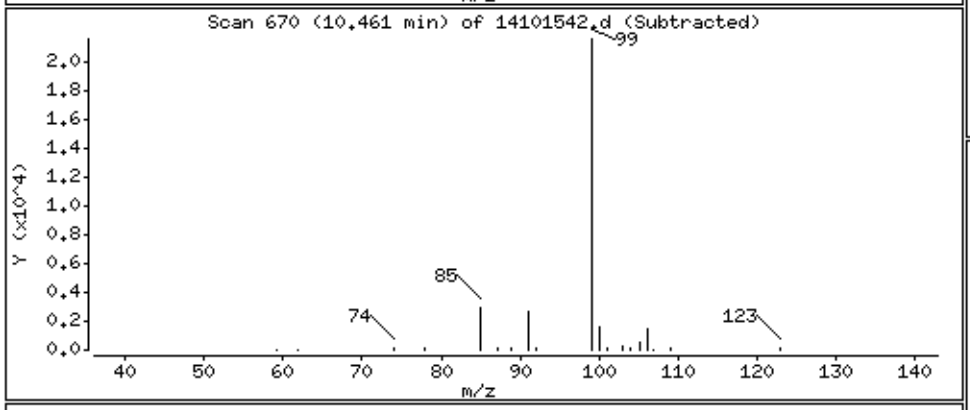
Column phase: RTX-624

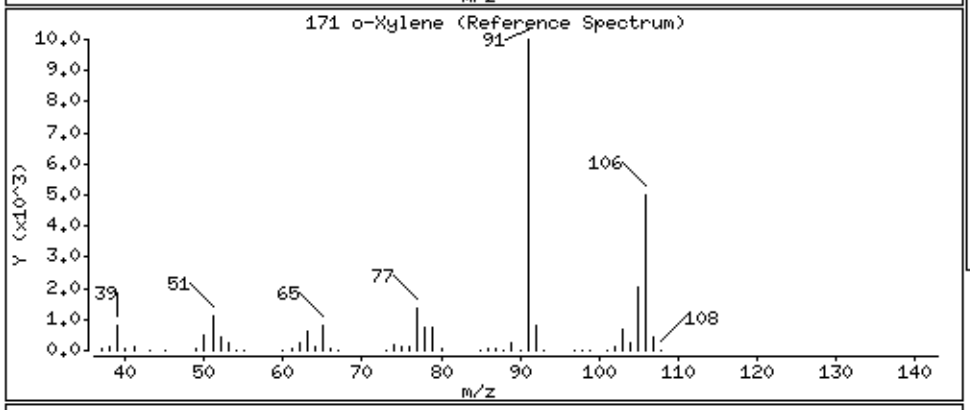
Column diameter: 0.18

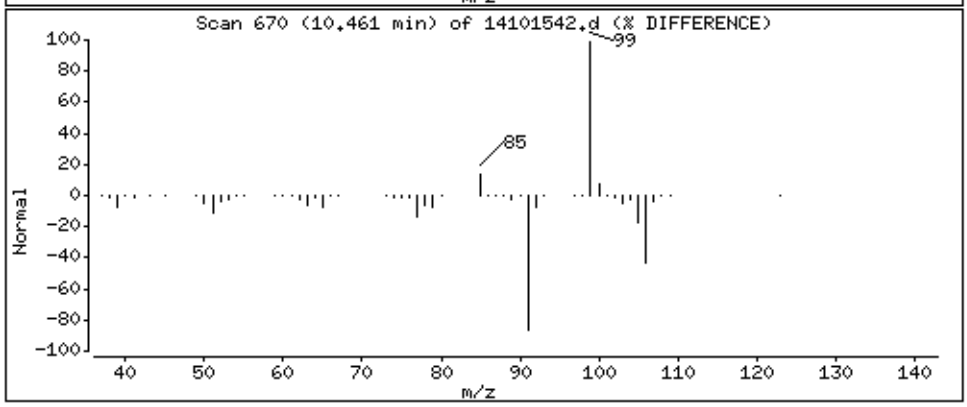
171 o-Xylene

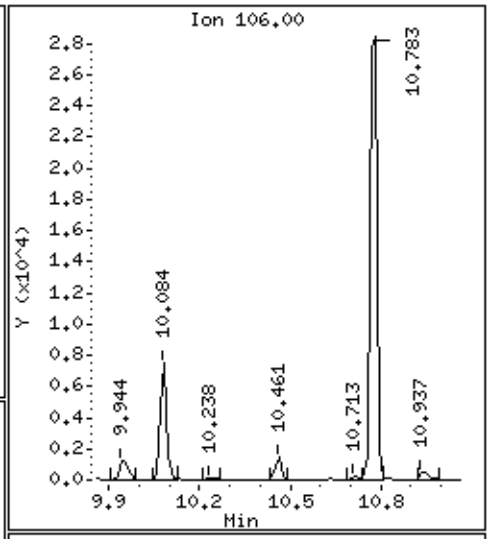
Concentration: 33.564 PPBV

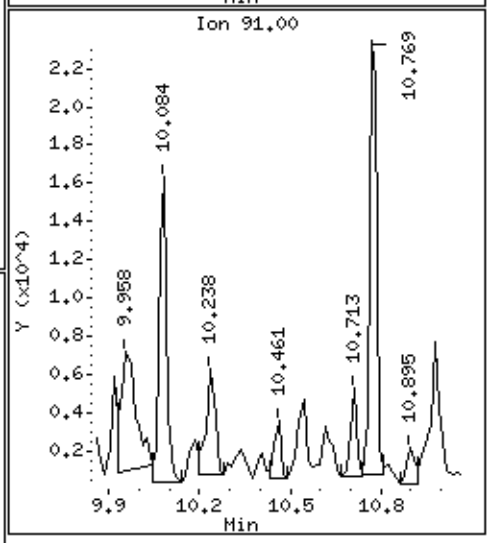












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

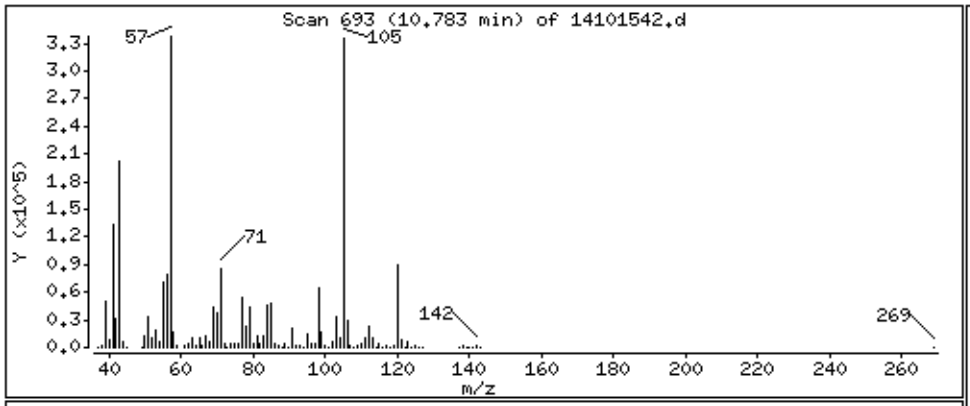
Operator: cb

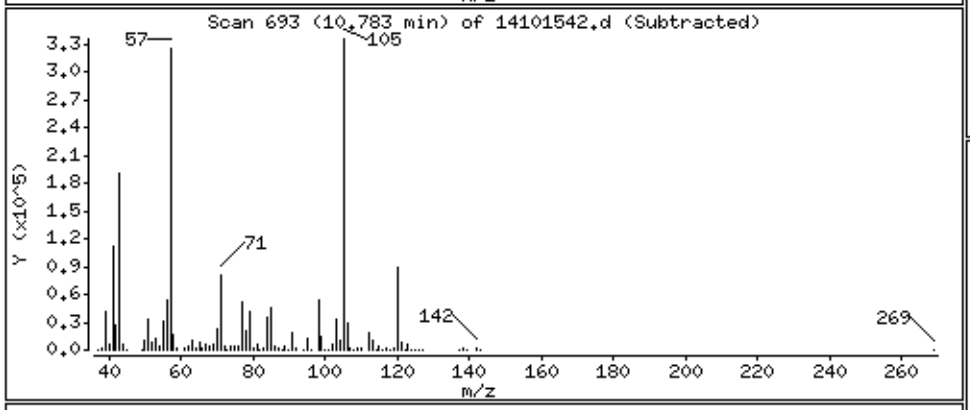
Column phase: RTX-624

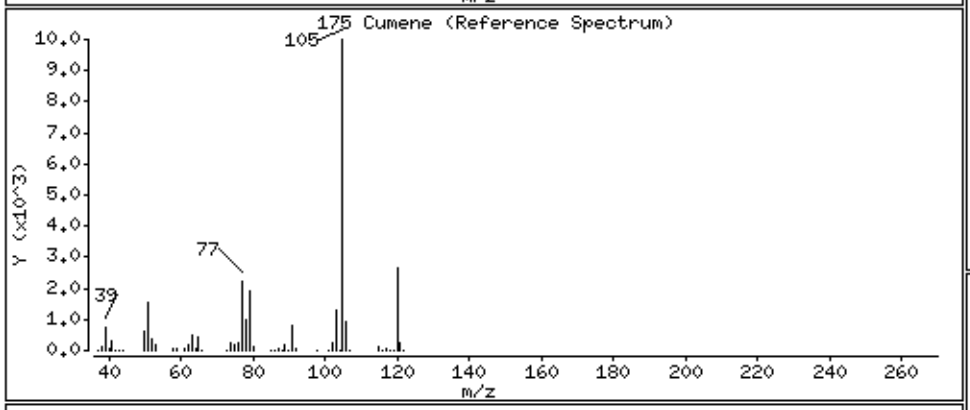
Column diameter: 0.18

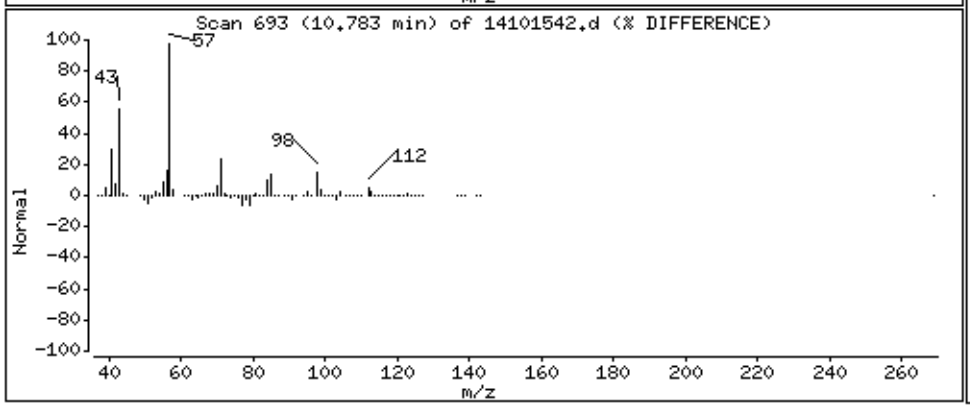
175 Cumene

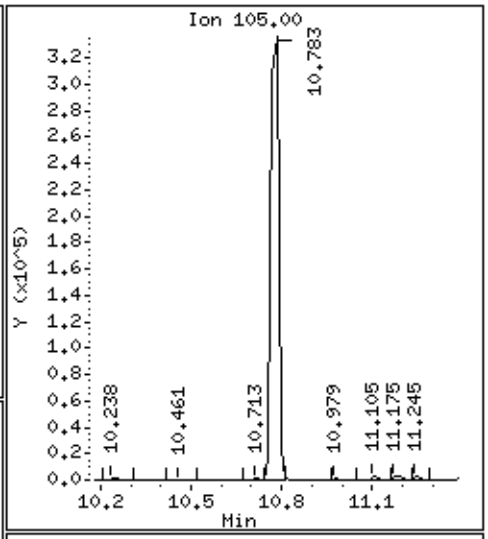
Concentration: 3323.8 PPBV

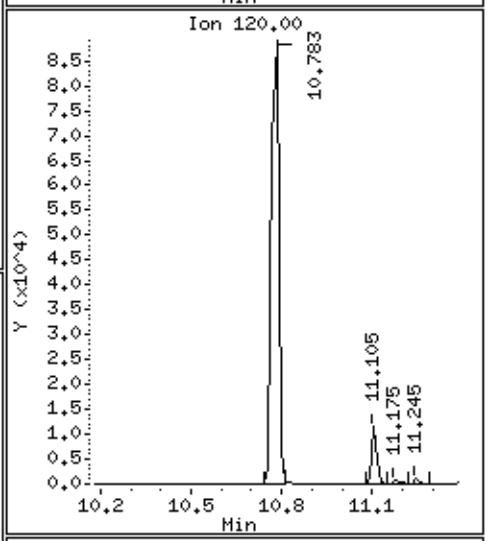


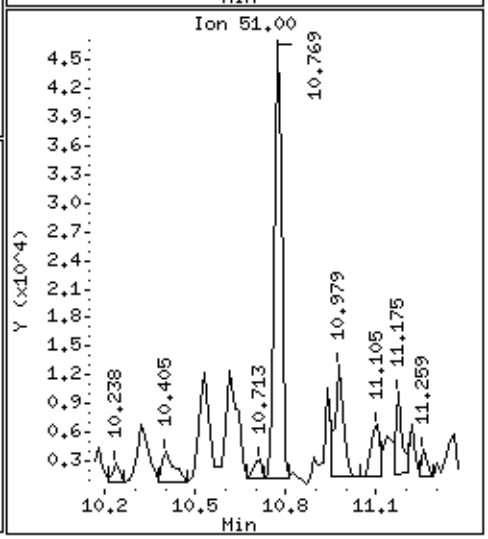












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

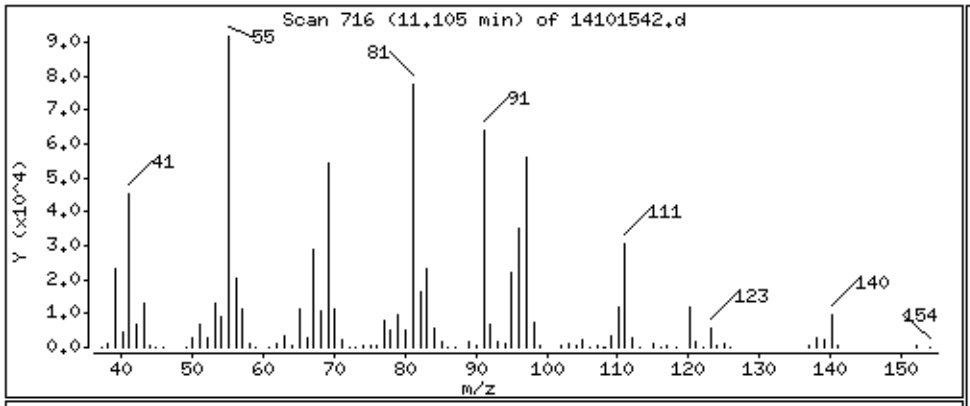
Operator: cb

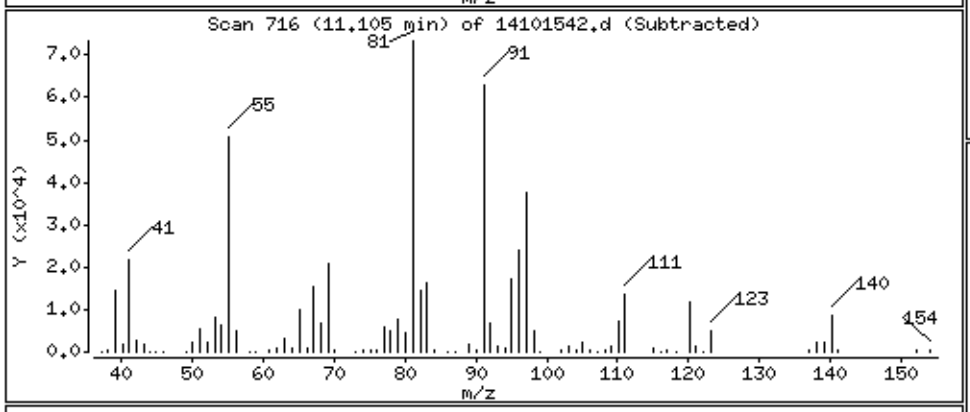
Column phase: RTX-624

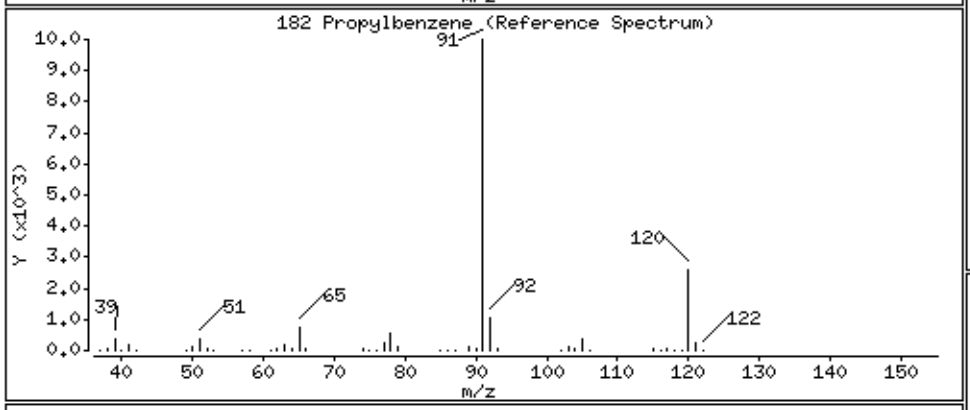
Column diameter: 0.18

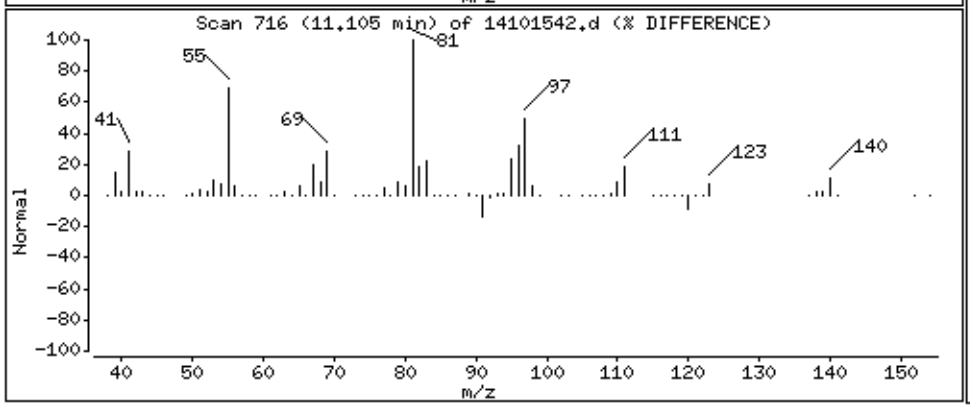
182 Propylbenzene

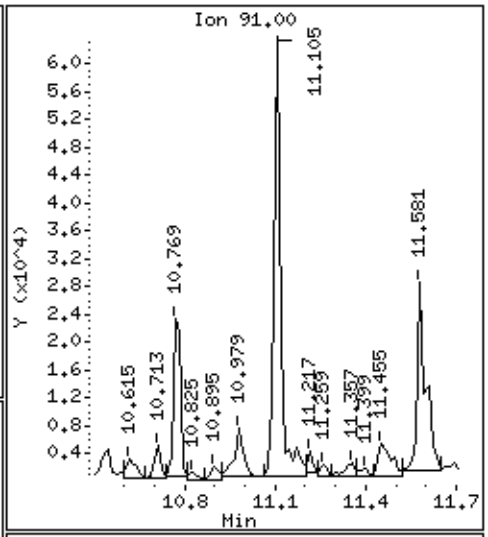
Concentration: 431.61 PPBV

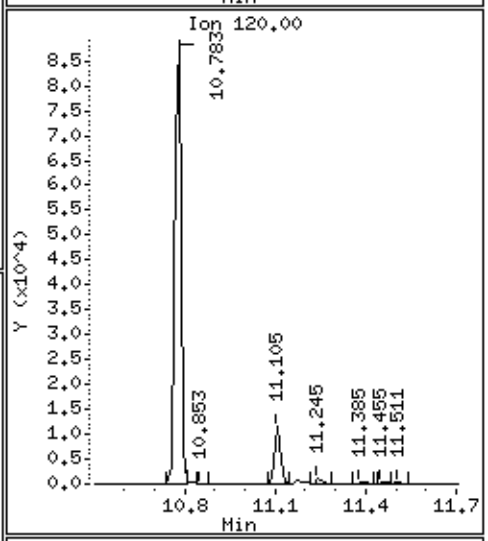


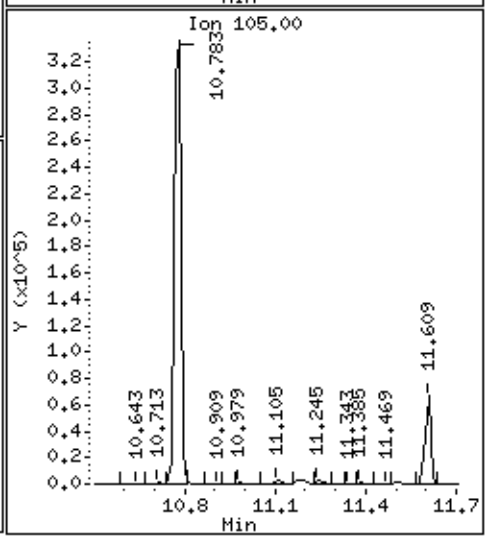












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

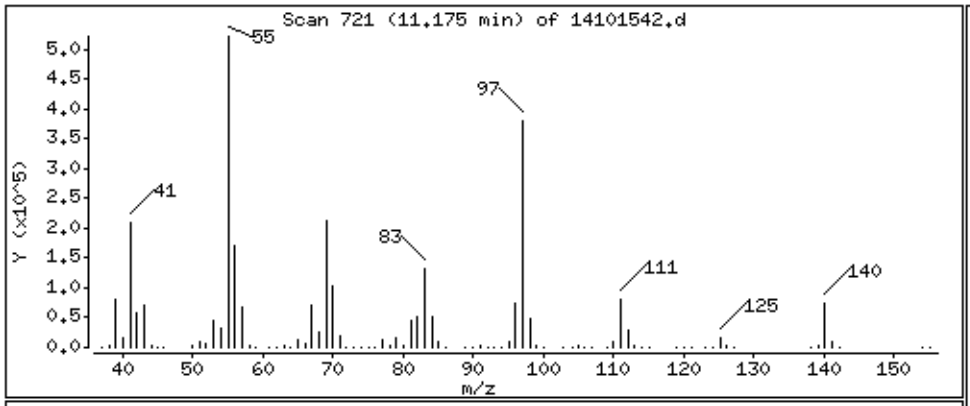
Operator: cb

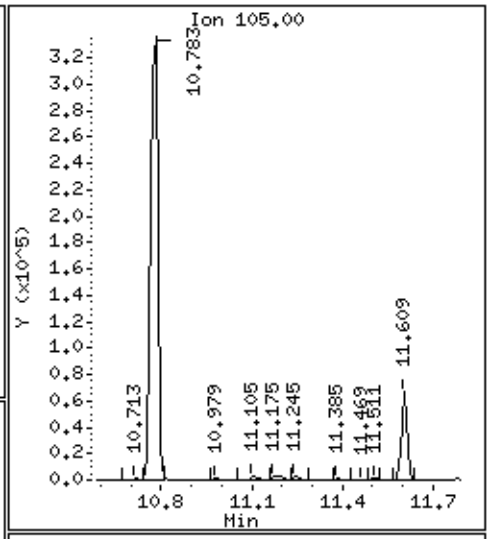
Column phase: RTX-624

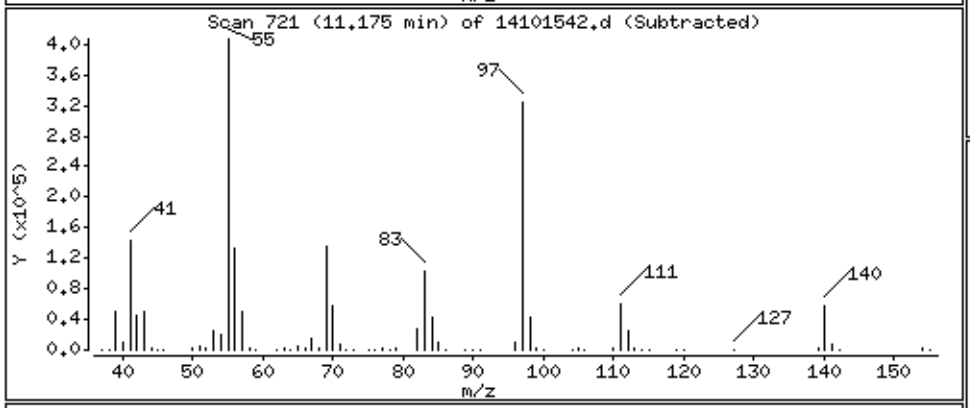
Column diameter: 0.18

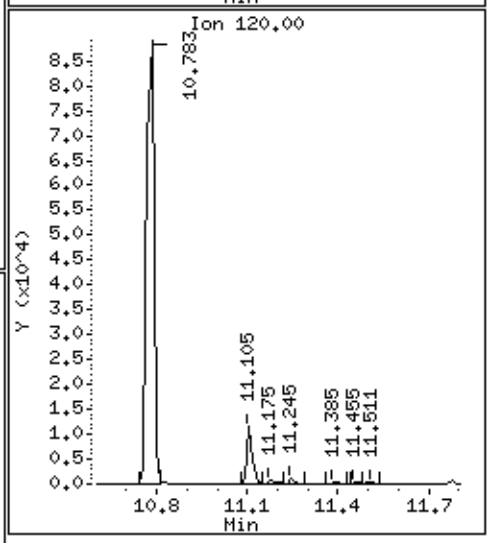
188 4-Ethyltoluene

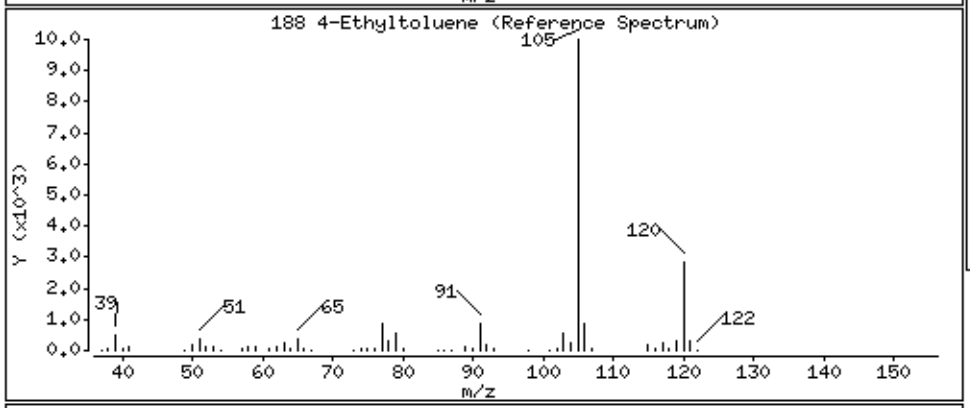
Concentration: 30.228 PPBV

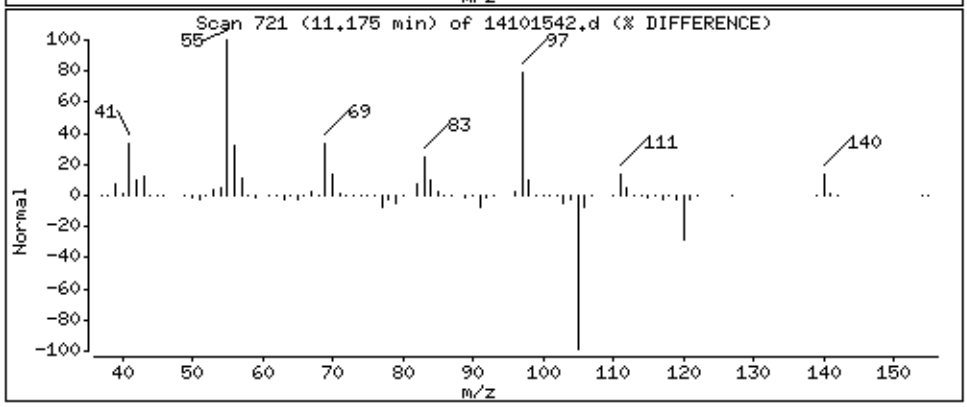












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

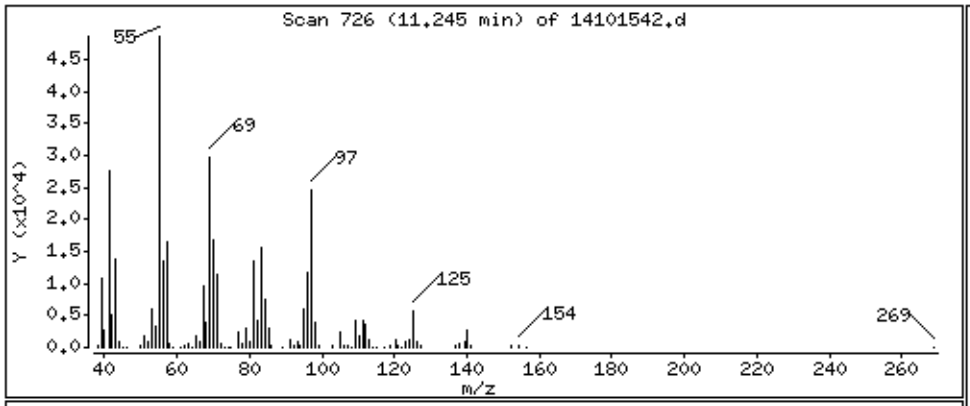
Operator: cb

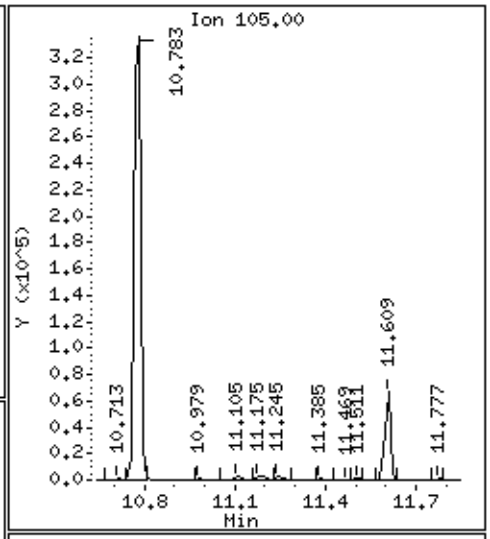
Column phase: RTX-624

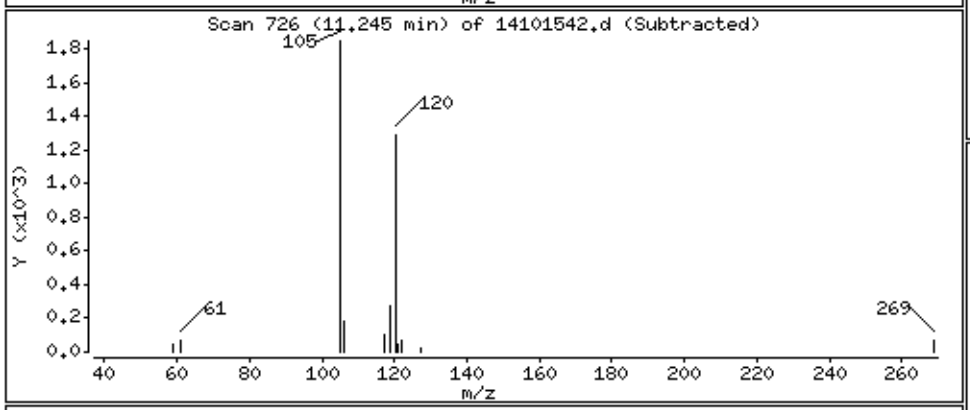
Column diameter: 0.18

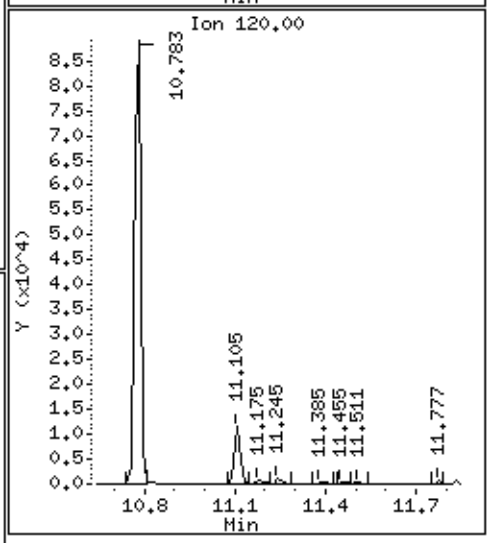
190 1,3,5-Trimethylbenzene

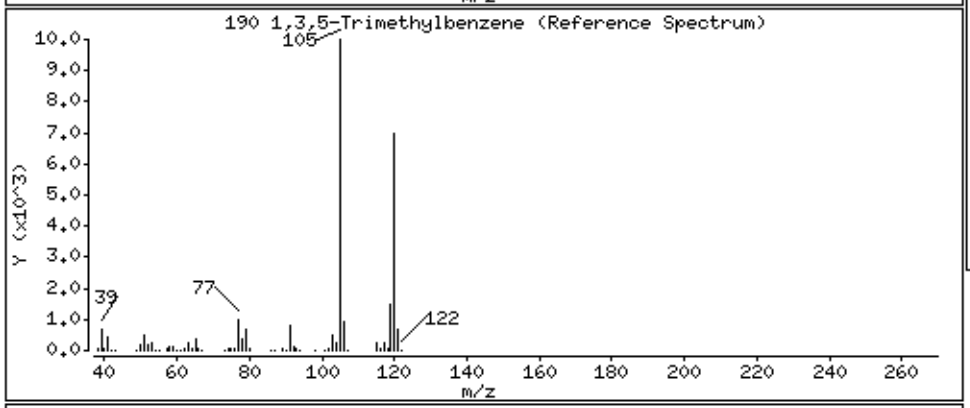
Concentration: 20.767 PPBV

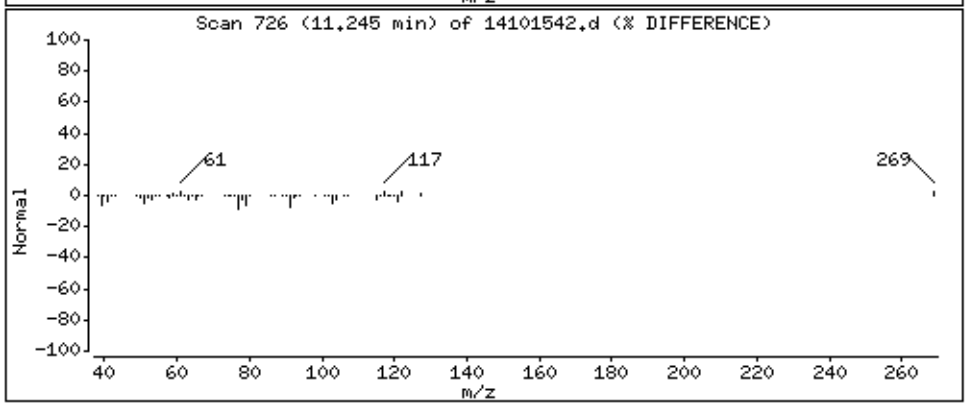












Data File: /chem/msd14.i/15oct15.b/14101542.d

Date : 16-OCT-2015 15:00

Client ID:

Instrument: msd14.i

Sample Info: 15ml #36541

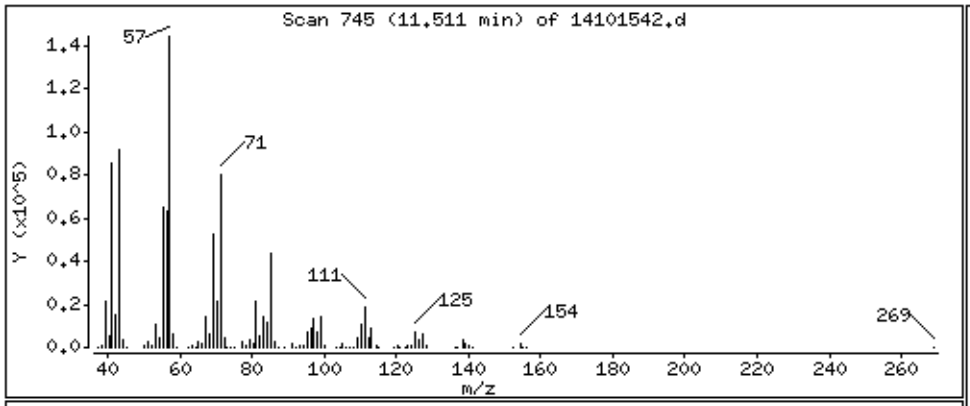
Operator: cb

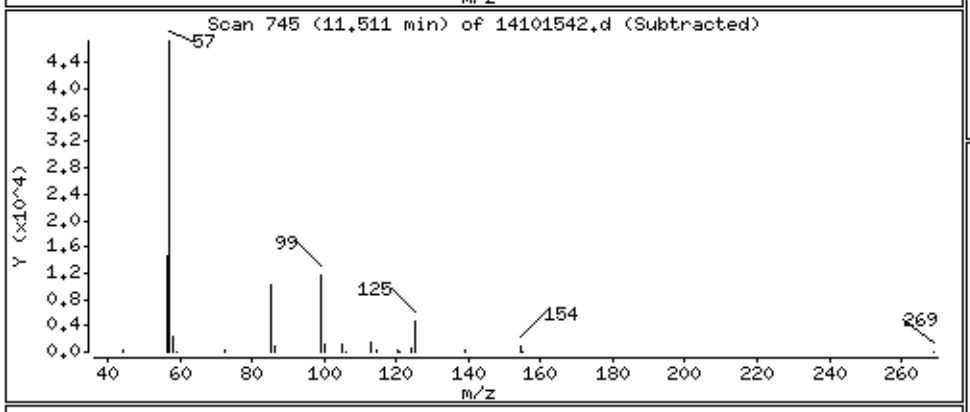
Column phase: RTX-624

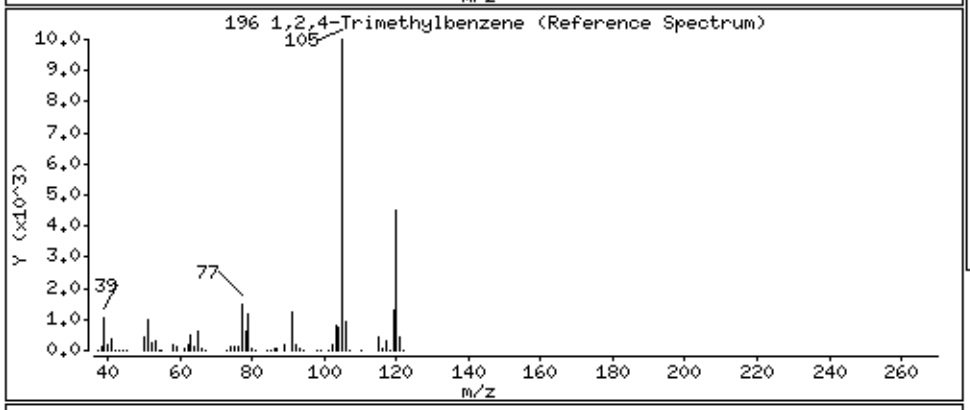
Column diameter: 0.18

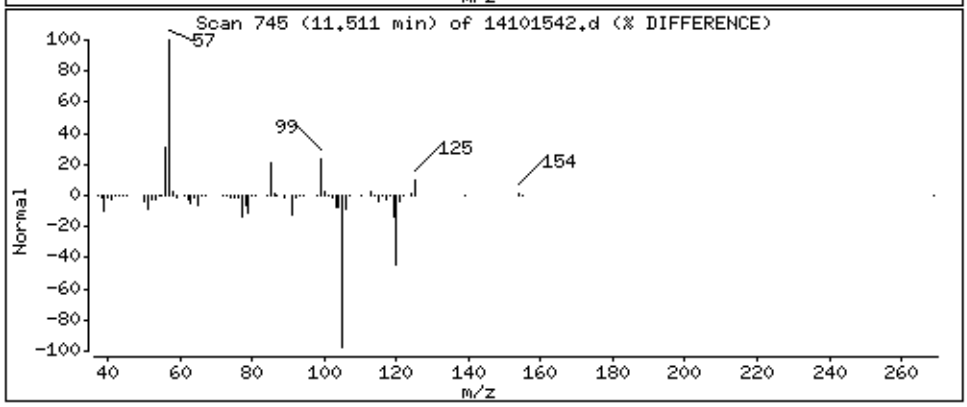
196 1,2,4-Trimethylbenzene

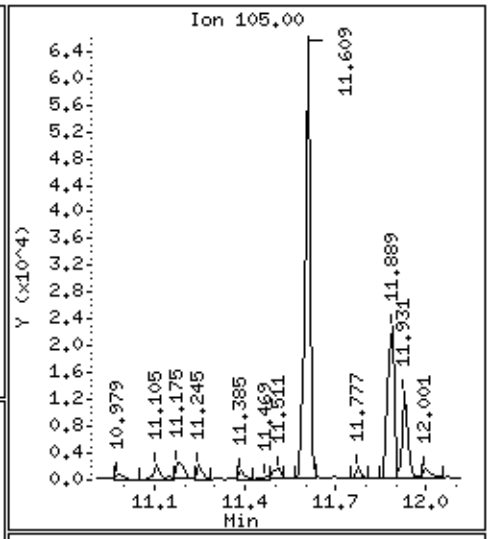
Concentration: 18.445 PPBV

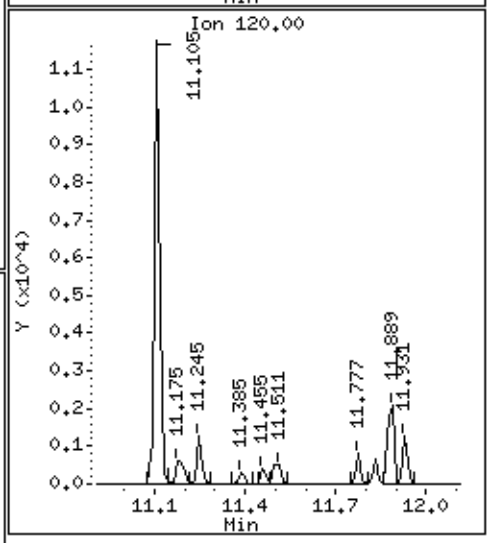












QC Results and Raw Data

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Client Sample ID: Lab Blank

Lab ID#: 1510223B-13A

EPA METHOD TO-15 GC/MS

File Name:	**14101518c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 06:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	4.5 J	19	17 J
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

eurofins | Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1510223B-13A

EPA METHOD TO-15 GC/MS

File Name:	**14101518c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 06:36 PM**	

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

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101518c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 15-OCT-2015 18:36
Operator : GD Inst ID: msd14.i
Smp Info : 50mL #34496
Misc Info : humid
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 16-Oct-2015 12:53 ejakob Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: TO15mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	48591	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	38896			48.38- 108.38	80.05
4.739	4.739 (1.000)	49	82940			122.49- 182.49	170.69
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	236573	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	41132			0.00- 47.28	17.39
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	196349	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	132808			33.96- 93.96	67.64
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	99364	464.211	464.21	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	47858			22.50- 82.50	48.16

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8						CAS #: 2037-26-5		
7.621	7.621	(1.304)	98	253923	405.415	405.42	80.00- 120.00	100.00
7.621	7.621	(1.304)	70	30476			0.00- 42.36	12.00
7.621	7.621	(1.304)	100	157201			36.13- 96.13	61.91
$ 177 4-Bromofluorobenzene						CAS #: 460-00-4		
10.951	10.951	(1.115)	174	111820	397.601	397.60	80.00- 120.00	100.00
10.937	10.937	(1.114)	95	167116			113.45- 173.45	149.45
10.951	10.951	(1.115)	176	106435			68.10- 128.10	95.18
29 Bromomethane						CAS #: 74-83-9		
1.814	1.814	(0.383)	94	685	4.46455	4.464	80.00- 120.00	100.00(a)
1.828	1.814	(0.386)	96	558			64.67- 124.67	81.39
1.842	1.814	(0.389)	79	130			0.00- 47.98	19.10

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101518c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: GD
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: humid

Calibration Date: 15-OCT-2015
Calibration Time: 16:53
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	48591	-6.76
123 1,4-Difluorobenze	239209	143525	334893	236573	-1.10
163 Chlorobenzene-d5	200350	120210	280490	196349	-2.00

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

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

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Lab Blank
Client Smp ID: Lab Blank
Level: LOW
Operator: GD
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: TO15mdl.sub
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	464.21	116.05	70-130
$ 146 Toluene-d8	400.00	405.42	101.35	70-130
$ 177 4-Bromofluorobenze	400.00	397.60	99.40	70-130

Data File: /chem/msd14.i/15oct15.b/14101518c.d

Date : 15-OCT-2015 18:36

Client ID: Lab Blank

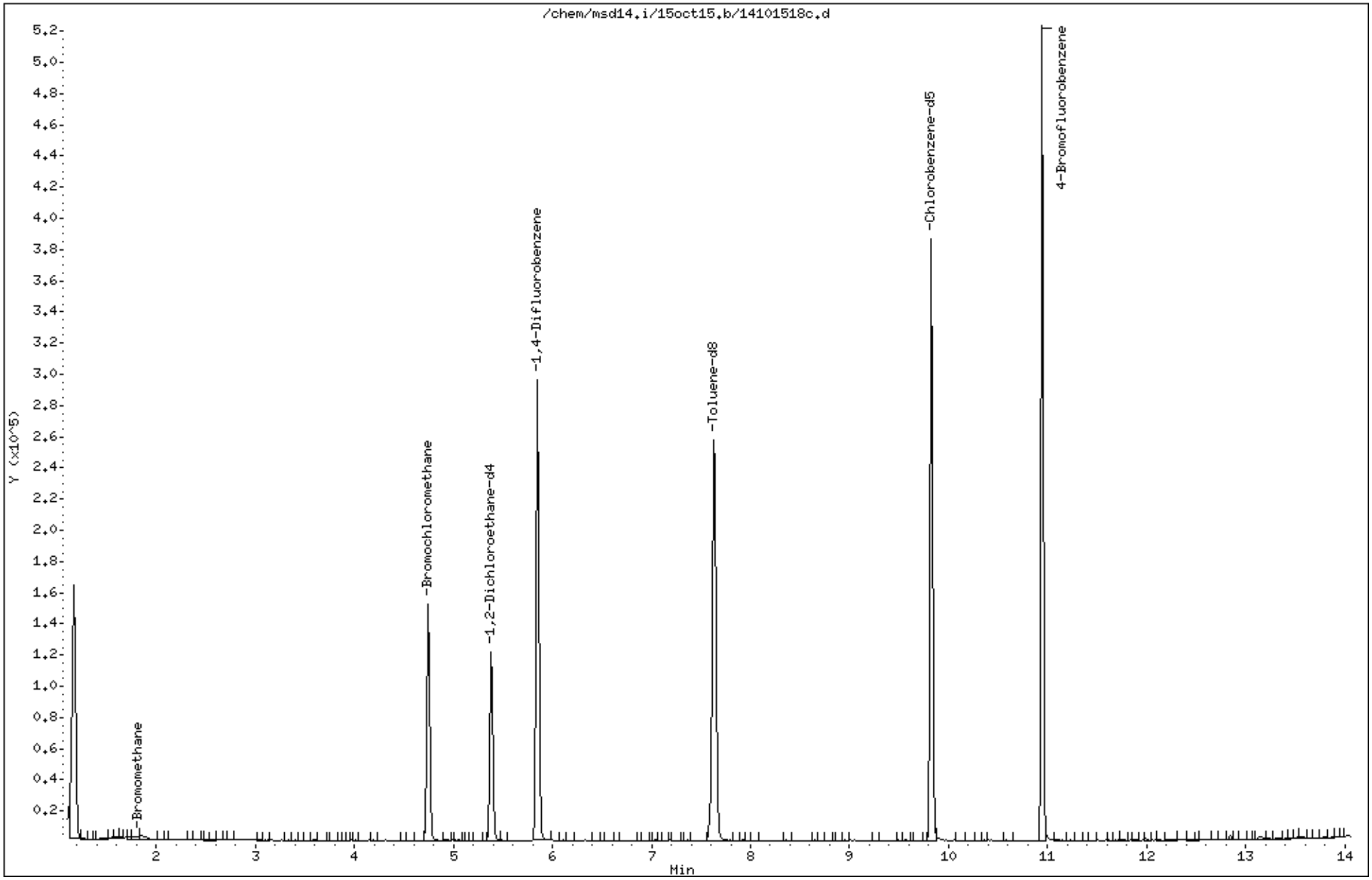
Sample Info: 50mL #34496

Column phase: RTX-624

Instrument: msd14.i

Operator: GD

Column diameter: 0.18



Data File: /chem/msd14.i/15oct15.b/14101518c.d

Date : 15-OCT-2015 18:36

Client ID: Lab Blank

Instrument: msd14.i

Sample Info: 50mL #34496

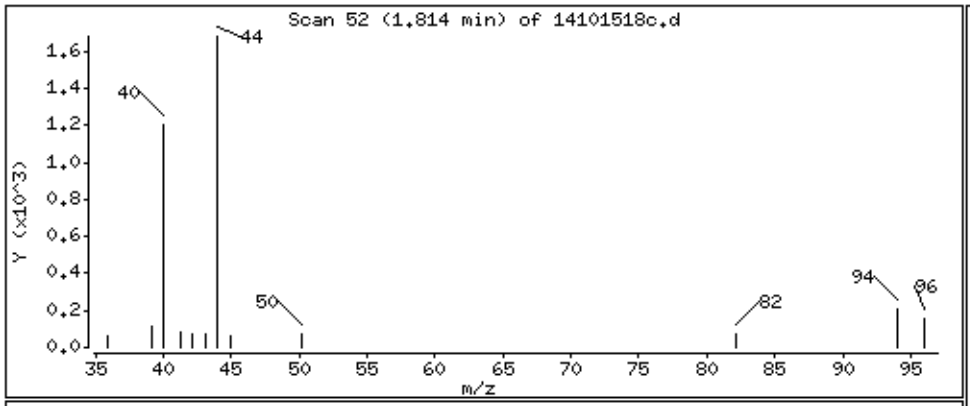
Operator: GD

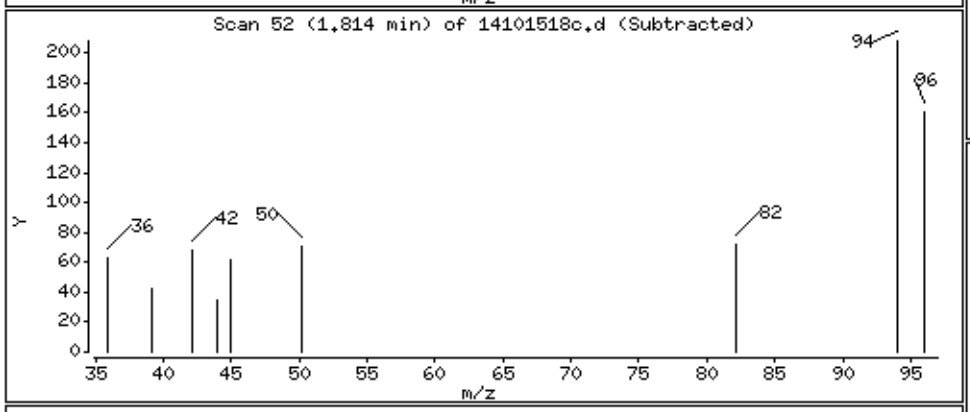
Column phase: RTX-624

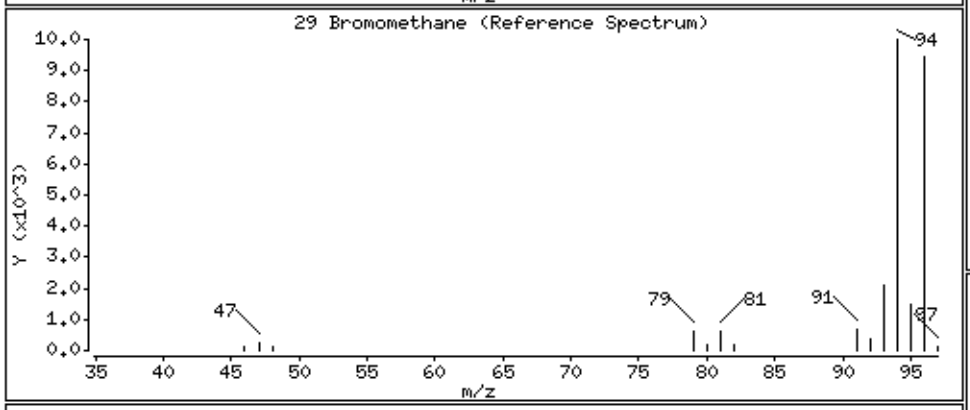
Column diameter: 0.18

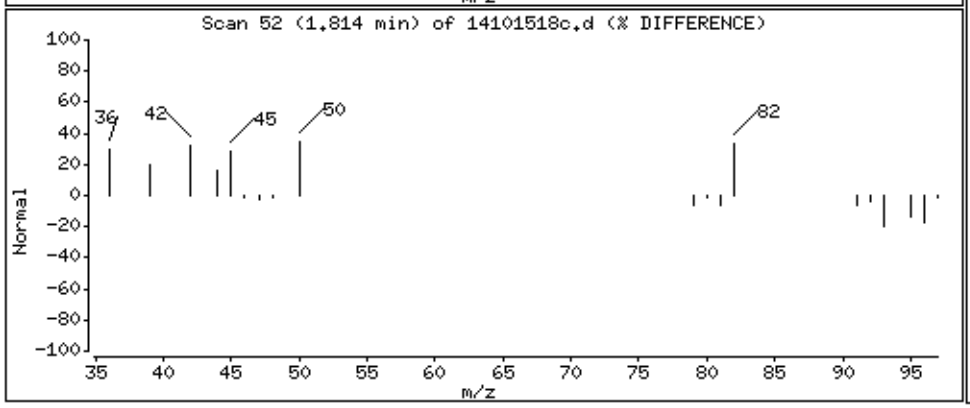
29 Bromomethane

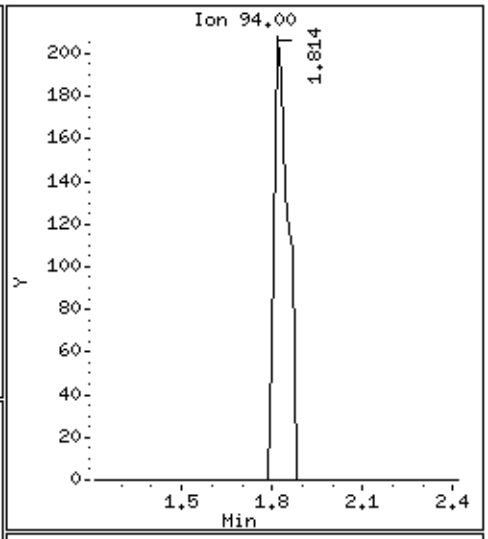
Concentration: 4.464 PPBV

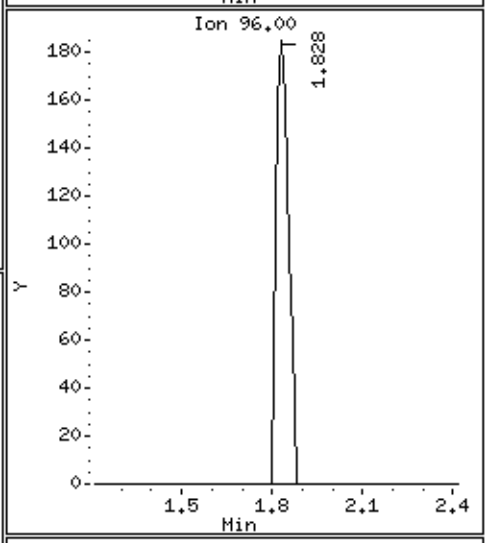


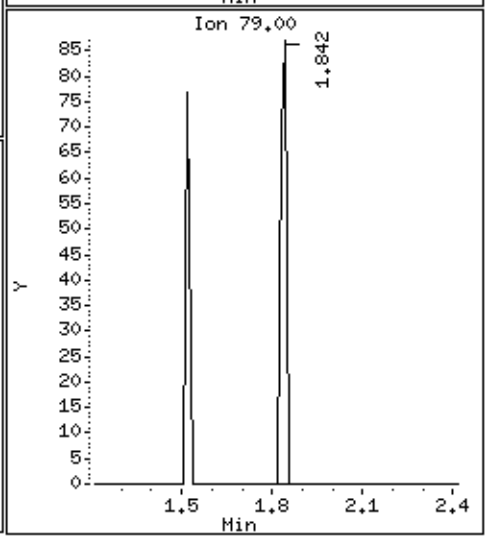












LEVEL-IV VALIDATABLE

EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1510223B

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	B8SSV-2101015	112		106		98				0
02	B8SSV-2D101015	110		105		99				0
03	Lab Blank	116		101		99				0
04	CCV	108		104		99				0
05	LCS	107		102		100				0
06	LCSD	108		102		98				0
07										0
08										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:	1510223B
Lab File ID:	14101515.d	Date Analyzed:	10/15/2015
Instrument ID:	msd14.i	Time Analyzed:	04:53 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	200350		9.82		239209		5.84		52116		4.74	
	UPPER LIMIT	280490		10.15		334893		06.17		72962		05.07	
	LOWER LIMIT	120210		09.49		143525		05.51		31270		04.41	
	CLIENT SAMPLE NO												
01	B8SSV-2101015	211032		9.82		235054		5.84		49832		4.74	
02	B8SSV-2D101015	210270		9.82		242941		5.84		51210		4.74	
03	Lab Blank	196349		9.82		236573		5.84		48591		4.74	
04	CCV	200350		9.82		239209		5.84		52116		4.74	
05	LCS	187455		9.82		228859		5.84		49216		4.74	
06	LCSD	194160		9.82		228545		5.84		49286		4.74	
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

'Area Upper Limit=+40% of internal standard area'
'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT
RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 14101517.d & 14101516.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 10/15/15 & 10/15/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
71-55-6	1,1,1-Trichloroethane	103		103		0	
79-34-5	1,1,2,2-Tetrachloroethane	107		107		0	
79-00-5	1,1,2-Trichloroethane	103		98		5.0	
75-34-3	1,1-Dichloroethane	105		105		0	
75-35-4	1,1-Dichloroethene	107		105		1.9	
120-82-1	1,2,4-Trichlorobenzene	113		100		12	
95-63-6	1,2,4-Trimethylbenzene	103		101		2.0	
106-93-4	1,2-Dibromoethane (EDB)	102		98		4.0	
95-50-1	1,2-Dichlorobenzene	105		100		4.9	
107-06-2	1,2-Dichloroethane	110		107		2.8	
78-87-5	1,2-Dichloropropane	98		101		3.0	
108-67-8	1,3,5-Trimethylbenzene	109		105		3.7	
106-99-0	1,3-Butadiene	109		104		4.7	
541-73-1	1,3-Dichlorobenzene	106		100		5.8	
106-46-7	1,4-Dichlorobenzene	102		103		0.98	
123-91-1	1,4-Dioxane	103		105		1.9	
540-84-1	2,2,4-Trimethylpentane	104		103		0.97	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	97		93		4.2	Y
591-78-6	2-Hexanone	102		96		6.1	Y
67-63-0	2-Propanol	98		97		1.0	Y
107-05-1	3-Chloropropene	90		93		3.3	Y
622-96-8	4-Ethyltoluene	104		100		3.9	
108-10-1	4-Methyl-2-pentanone	94		91		3.2	
67-64-1	Acetone	108		105		2.8	
100-44-7	alpha-Chlorotoluene	96		94		2.1	
71-43-2	Benzene	100		100		0	
75-27-4	Bromodichloromethane	102		102		0	
75-25-2	Bromoform	99		95		4.1	
74-83-9	Bromomethane	96		96		0	
75-15-0	Carbon Disulfide	90		90		0	
56-23-5	Carbon Tetrachloride	97		94		3.1	
108-90-7	Chlorobenzene	102		99		3.0	
75-00-3	Chloroethane	111		108		2.7	
67-66-3	Chloroform	105		103		1.9	
74-87-3	Chloromethane	105		105		0	
156-59-2	cis-1,2-Dichloroethene	113		112		0.89	
10061-01-5	cis-1,3-Dichloropropene	94		90		4.3	
98-82-8	Cumene	104		102		1.9	
110-82-7	Cyclohexane	101		101		0	
124-48-1	Dibromochloromethane	98		94		4.2	
64-17-5	Ethanol	89		88		1.1	Y
100-41-4	Ethyl Benzene	100		97		3.0	
75-69-4	Freon 11	109		107		1.8	
76-13-1	Freon 113	98		98		0	
76-14-2	Freon 114	99		99		0	

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 14101517.d & 14101516.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 10/15/15 & 10/15/15

CAS Number	Compound	Original Amount	Original Flags	Duplicate Amount	Duplicate Flags	RPD	Result Less Than 5X RL
75-71-8	Freon 12	110		108		1.8	
142-82-5	Heptane	100		98		2.0	
87-68-3	Hexachlorobutadiene	118		107		9.8	
110-54-3	Hexane	99		95		4.1	
108-38-3	m,p-Xylene	98		98		0	
1634-04-4	Methyl tert-butyl ether	94		92		2.2	
75-09-2	Methylene Chloride	104		101		2.9	
91-20-3	Naphthalene	ND		ND		0	
95-47-6	o-Xylene	105		99		5.9	
103-65-1	Propylbenzene	106		104		1.9	
100-42-5	Styrene	97		98		1.0	
127-18-4	Tetrachloroethene	102		97		5.0	
109-99-9	Tetrahydrofuran	83		85		2.4	
108-88-3	Toluene	100		99		1.0	
156-60-5	trans-1,2-Dichloroethene	88		85		3.5	
10061-02-6	trans-1,3-Dichloropropene	94		92		2.2	
79-01-6	Trichloroethene	100		101		1.0	
75-01-4	Vinyl Chloride	121		121		0	

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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

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

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

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

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

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

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58 3-Chloropropene	+++++	+++++	0.66191	0.64352	0.82630	0.80671		
	0.88326	0.92068	0.86270				0.80073	13.462
59 Cyclopentene	+++++	+++++	2.18613	+++++	2.39628	2.36148		
	+++++	+++++	+++++				2.31463	4.866
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
66 Methylene Chloride	+++++	2.74406	2.25601	2.02116	2.32729	2.17180		
	2.34244	2.45338	2.28893				2.32563	9.111
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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68 2,4-Dimethylpentane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++ +++++	+++++ +++++	1.65735 +++++	1.72484	2.33534	2.35331	2.01771	18.745
72 Methyl tert-butyl ether	+++++ 5.08436	3.59017 5.75803	2.66419 5.46112	3.12434	3.95956	4.19106	4.22911	26.420
73 trans-1,2-Dichloroethene	+++++ 1.93041	2.24134 1.86005	1.62462 1.71162	1.60494	1.84176	1.77812	1.82411	11.150
74 Acrylonitrile	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

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78 Hexane	+++++ / 3.26580	4.15012 / 3.56017	2.69986 / 3.29261	2.78562	3.17355	3.03928	3.24588	14.151
79 Methylcyclopentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++ / 3.71338	3.91500 / 3.94361	3.08781 / 3.66751	3.00281	3.63329	3.38171	3.54314	9.987
83 Isopropyl ether	+++++ / +++++	+++++ / +++++	5.57145 / +++++	5.43781	6.49051	6.24432	5.93602	8.610
84 1-Propanol	+++++ / +++++	+++++ / +++++	0.26951 / +++++	+++++	0.30123	0.31882	0.29652	8.428
85 Chloroprene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
87 Butanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

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

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

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

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

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

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

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Curve Type : Average

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
153 1-Nitropropane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++ / 0.67058	0.69451 / 0.67844	0.55222 / 0.64995	0.52666	0.62678	0.60631	0.62568	9.685
156 Tetrachloroethene	+++++ / 0.83375	0.88159 / 0.81820	0.69788 / 0.77461	0.67846	0.81114	0.76002	0.78196	8.792
157 1,3-Dichloropropane	+++++ / +++++	+++++ / +++++	2.73661 / +++++	+++++	3.15828	2.97624	2.95704	7.152
158 2-Hexanone	+++++ / 0.79148	+++++ / 0.77040	0.42803 / 0.75263	0.45994	0.56621	0.56770	0.61948	24.456
159 Butyl Acetate	+++++ / +++++	+++++ / +++++	0.13651 / +++++	+++++	0.15977	0.15891	0.15173	8.689
160 Dibromochloromethane	+++++ / 1.17120	1.11403 / 1.15154	0.90313 / 1.11126	0.88632	1.08455	1.05421	1.05953	10.196
161 1,2-Dibromoethane (EDB)	+++++ / 1.01106	0.90046 / 1.00970	0.77795 / 0.95889	0.78385	0.95755	0.90285	0.91279	9.993
162 1-Nonene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.

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

Compound	3.000 Level 1 / 1000.000 Level 7	5.000 Level 2 / 2500.000 Level 8	20.000 Level 3 / 5000.000 Level 9	50.000 Level 4	100.000 Level 5	200.000 Level 6	RRF	% RSD
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
165 Chlorobenzene	+++++	1.52752	1.27571	1.18387	1.44281	1.37269		
	1.48366	1.46550	1.39020				1.39274	8.230
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
167 Ethyl Benzene	+++++	0.90728	0.64874	0.61359	0.72756	0.70927		
	0.75269	0.75192	0.72110				0.72902	11.945
168 1,1,1,2-Tetrachloroethane	+++++	+++++	0.61458	+++++	0.64726	0.60263		
	+++++	+++++	+++++				0.62149	3.717
169 m,p-Xylene	+++++	1.03374	0.80247	0.69926	0.90644	0.87259		
	0.94560	0.92419	0.88355				0.88348	11.257
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
171 o-Xylene	+++++	0.89724	0.75569	0.69968	0.83687	0.80368		
	0.88751	0.89940	0.86070				0.83010	8.739
172 Styrene	+++++	1.39544	1.16304	1.10261	1.35777	1.27362		
	1.52499	1.41176	1.35750				1.32334	10.413
173 2-Heptanone	+++++	+++++	0.72821	+++++	0.94050	0.90780		
	+++++	+++++	+++++				0.85884	13.309

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

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

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195 tert-Butylbenzene	+++++	+++++	1.61666	+++++	1.74513	1.64095		
	+++++	+++++	+++++				1.66758	4.093
196 1,2,4-Trimethylbenzene	+++++	2.27543	1.71850	1.68689	2.06778	2.04618		
	2.23566	1.98067	+++++				2.00159	11.461
197 Pentachloroethane	+++++	+++++	0.41190	+++++	0.50688	0.50445		
	+++++	+++++	+++++				0.47441	11.414
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++
203 sec-Butylbenzene	+++++	+++++	2.50428	+++++	2.79339	2.66849		
	+++++	+++++	+++++				2.65539	5.461
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++	+++++				+++++	+++++

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205 2-Ethyltoluene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	
206 bis(2-Chloroethyl) Ether	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++ +++++	+++++ +++++	1.92001 +++++	+++++	2.19890	2.12566	2.08152	6.946	
208 1,3-Dichlorobenzene	+++++ 1.37414	1.46931 +++++	1.08553 +++++	1.08696	1.33439	1.30437	1.27578	12.305	
209 1,4-Dichlorobenzene	+++++ 1.38062	1.51668 +++++	1.10355 +++++	1.04043	1.28086	1.30432	1.27108	13.842	
210 1,2,3-Trimethylbenzene	+++++ +++++	+++++ +++++	0.79484 +++++	+++++	0.86979	0.83873	0.83445	4.513	
211 1-Undecene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	+++++ 2.03219	0.98596 +++++	0.86344 +++++	1.04603	1.45787	1.60965	1.33252	33.633	<-
213 Butylbenzene	+++++ +++++	+++++ +++++	0.46742 +++++	+++++	0.53442	0.52706	0.50963	7.210	
214 1,2-Dichlorobenzene	+++++ 1.25276	1.42154 +++++	0.94016 +++++	0.98096	1.20978	1.20643	1.16861	15.383	

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215 Undecane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
216 4-Ethyl-1,2-dimethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
217 Hexachloroethane	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
218 1,3-Diethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
219 1,4-Diethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
220 1,2,4,5-tetramethylbenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
221 1,2-Dibromo-3-chloropropane	+++++ +++++	+++++ +++++	0.42248 +++++	+++++	0.48943	0.54371	0.48521	12.515
222 1-Dodecene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
223 Nitrobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++
224 1,3,5-Trichlorobenzene	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

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225 Dodecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
226 1,2,4-Trichlorobenzene	+++++ / 0.70817	+++++ / +++++	0.38065 / +++++	0.60968	0.57892	0.76993	0.60947	24.444
227 Hexachlorobutadiene	+++++ / 0.60342	+++++ / +++++	0.32580 / +++++	0.55033	0.53625	0.65674	0.53451	23.573
228 Naphthalene	+++++ / +++++	+++++ / 1.32752	+++++ / 1.68265	1.43711	1.15031	1.59100	1.43772	14.682
229 1,2,3-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
230 Tridecane	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++

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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	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

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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	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

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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	+++++ +++++	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++

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265 C10-C12 Aliphatic ref Dodecan	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,2,3-TMB	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,4,5-TMB	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naphthalene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
$ 112 Benzene-d6	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	+++++
$ 117 1,2-Dichloroethane-d4	1.75544 / 1.77984	1.70230 / 1.85545	1.69192 / 1.90145	1.76740	1.73434	1.67031	1.76205	4.314
$ 146 Toluene-d8	1.05275 / 1.05386	1.06494 / 1.06691	1.04865 / 1.05863	1.05336	1.06626	1.06565	1.05900	0.667
$ 177 4-Bromofluorobenzene	0.56670 / 0.58020	0.57355 / 0.57489	0.57074 / 0.57250	0.55785	0.57987	0.58010	0.57293	1.276

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

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

Calibration History

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

Initial Calibration

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

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

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

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 6

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

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

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

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

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

14550910A.M
Initial Calibration Narrative

A calibration curve was performed 09/03/15

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

No Vinyl Acetate.

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

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

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

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

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

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

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

BFB Tune File: #14091001

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

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

Eurofins Air Toxics Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 10-SEP-2015 09:13
End Cal Date : 10-SEP-2015 20:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd14.i/10sep15.b/14550910a.m
Cal Date : 10-Sep-2015 21:44 ghehir
Curve Type : Average

GH 9/10/15

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

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

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

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

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

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

File ID:	14091007
Compound:	to 14
Initials:	GH

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = (256000) x (400.00) = GH
(240311) (1.05978)

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

Method Name: 145509104.m

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

Reviewed

9/10/15
Date

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

Reviewed

9/10/15
Date

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

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

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

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

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Report Date: 10-Sep-2015 21:39

Eurofins Air Toxics Inc.

RECOVERY REPORT

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

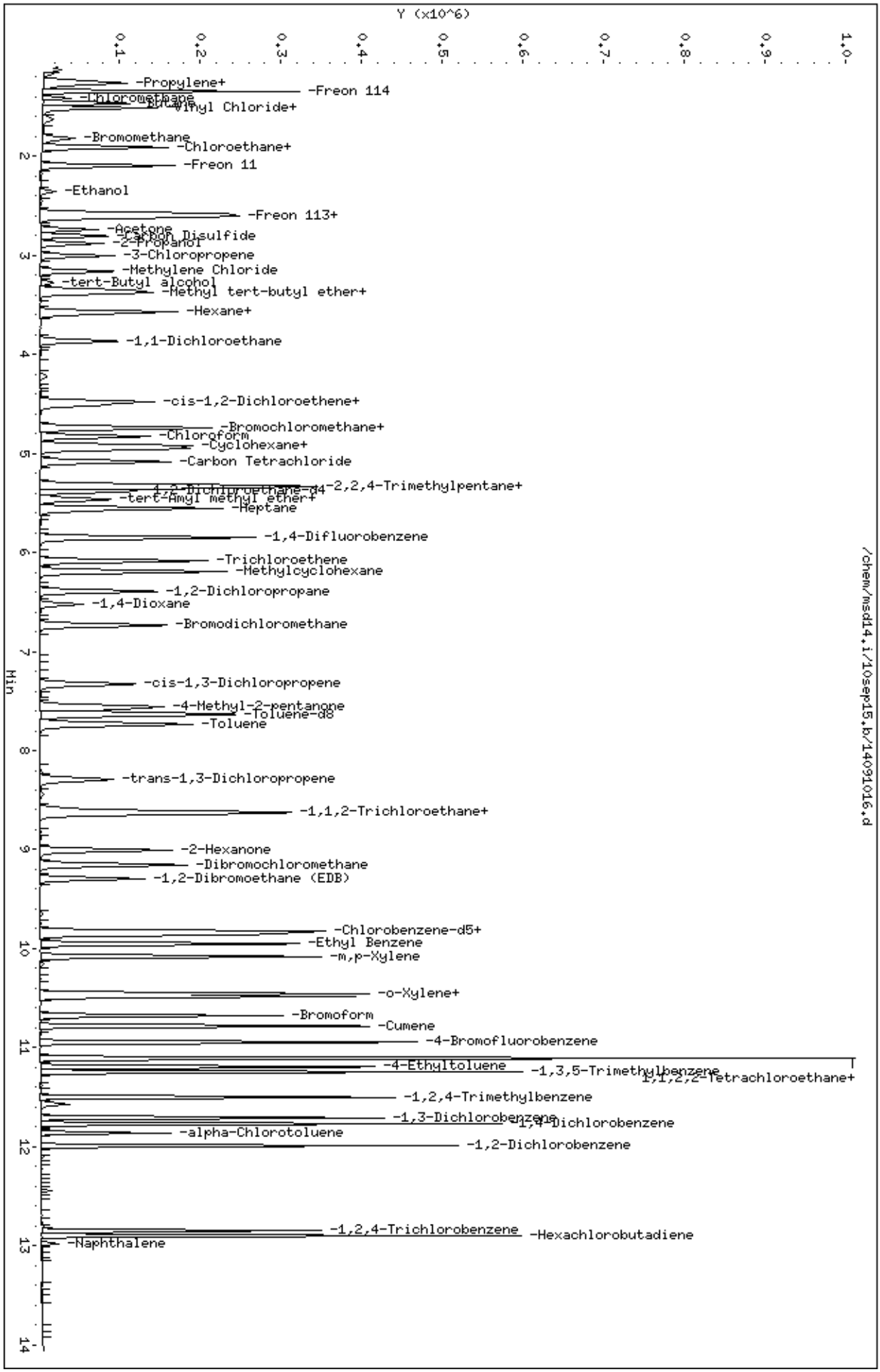
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	200.00	224.35	112.18	60-140
11 Freon 12	200.00	220.97	110.48	70-130
15 Freon 114	200.00	229.13	114.56	70-130
17 Chloromethane	200.00	224.58	112.29	70-130
23 Butane	200.00	221.23	110.62	60-140
25 Vinyl Chloride	200.00	227.48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

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

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

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

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091002.d

Date : 10-SEP-2015 09:13

Client ID: ICAL Level 1

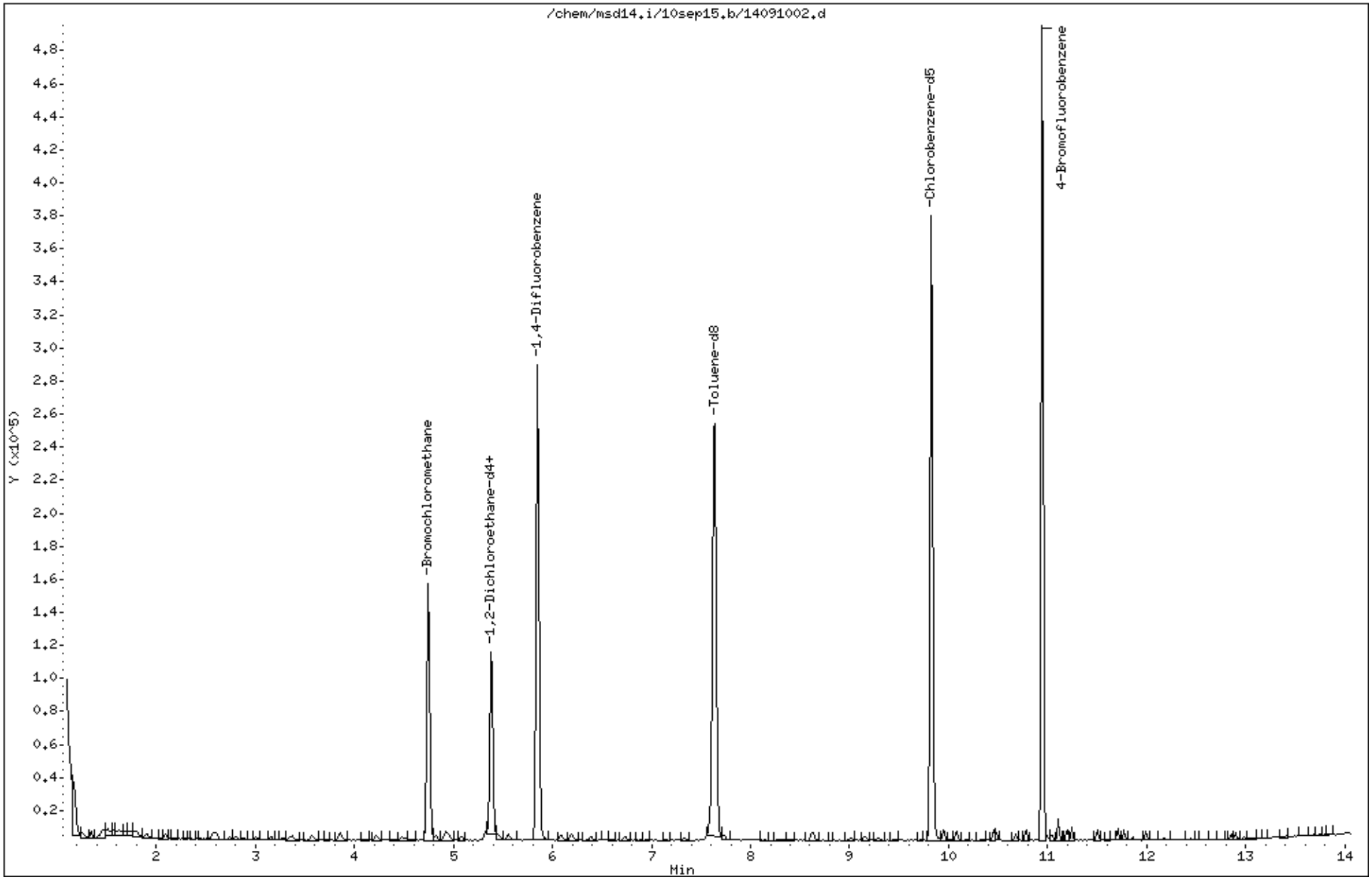
Sample Info: 30ml #2736-221

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

  145 4-Methyl-2-pentanone                          CAS #: 108-10-1
  7.579   7.579 (1.297)    85       587 5.00000    5.662  80.00- 120.00   100.00
  7.579   7.579 (1.297)    43      3473                  626.49- 686.49   591.65
  7.565   7.565 (1.294)    58      1466                  241.15- 301.15   249.74
-------------------------------------------------------------------------------
  147 Toluene                                       CAS #: 108-88-3
  7.733   7.733 (1.323)    91      5523 5.00000    5.559  80.00- 120.00   100.00
  7.733   7.733 (1.323)    92      3298                   28.28-  88.28    59.71
-------------------------------------------------------------------------------
  150 trans-1,3-Dichloropropene                     CAS #: 10061-02-6
  8.307   8.307 (0.846)    75      1084 5.00000    3.800  80.00- 120.00   100.00(a)
  8.307   8.307 (0.846)    77       383                    3.40-  63.40    35.33
  8.293   8.293 (0.845)    39      1267                   26.11-  86.11   116.88
-------------------------------------------------------------------------------
  155 1,1,2-Trichloroethane                         CAS #: 79-00-5
  8.615   8.615 (0.877)    97      1730 5.00000    5.339  80.00- 120.00   100.00
  8.615   8.615 (0.877)    99      1046                   31.77-  91.77    60.46
  8.615   8.615 (0.877)    83      1537                   59.52- 119.52    88.84
-------------------------------------------------------------------------------
  156 Tetrachloroethene                             CAS #: 127-18-4
  8.629   8.629 (0.879)   166      2196 5.00000    5.370  80.00- 120.00   100.00
  8.629   8.629 (0.879)   129      1640                   46.35- 106.35    74.68
  8.629   8.629 (0.879)   131      1830                   44.43- 104.43    83.33
-------------------------------------------------------------------------------
  160 Dibromochloromethane                          CAS #: 124-48-1
  9.160   9.160 (0.933)   129      2775 5.00000    5.138  80.00- 120.00   100.00
  9.160   9.160 (0.933)   127      2226                   47.05- 107.05    80.22
-------------------------------------------------------------------------------
  161 1,2-Dibromoethane (EDB)                       CAS #: 106-93-4
  9.300   9.300 (0.947)   107      2243 5.00000    4.993  80.00- 120.00   100.00(a)
  9.300   9.300 (0.947)   109      2261                   66.34- 126.34   100.80
-------------------------------------------------------------------------------
  165 Chlorobenzene                                 CAS #: 108-90-7
  9.860   9.860 (1.004)   112      3805 5.00000    5.267  80.00- 120.00   100.00
  9.860   9.860 (1.004)   114      1361                    1.70-  61.70    35.77
  9.832   9.832 (1.001)    77      5007                   32.92-  92.92   131.59
-------------------------------------------------------------------------------
  167 Ethyl Benzene                                 CAS #: 100-41-4
  9.958   9.958 (1.014)   106      2260 5.00000    5.612  80.00- 120.00   100.00
  9.958   9.958 (1.014)    91      7287                  302.14- 362.14   322.43
-------------------------------------------------------------------------------
  169 m,p-Xylene                                    CAS #: 108-38-3
 10.084  10.084 (1.027)   106      2575 5.00000    5.423  80.00- 120.00   100.00
 10.084  10.084 (1.027)    91      5581                  180.25- 240.25   216.74
-------------------------------------------------------------------------------
  171 o-Xylene                                      CAS #: 95-47-6
 10.461  10.461 (1.066)   106      2235 5.00000    5.275  80.00- 120.00   100.00
```

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
171 o-Xylene (continued)								
10.461	10.461	(1.066)	91	5510			199.46- 259.46	246.53
172 Styrene						CAS #: 100-42-5		
10.489	10.489	(1.068)	104	3476	5.00000	5.228	80.00- 120.00	100.00
10.489	10.489	(1.068)	78	2067			27.66- 87.66	59.46
174 Bromoform						CAS #: 75-25-2		
10.671	10.671	(1.087)	173	2504	5.00000	5.135	80.00- 120.00	100.00(a)
10.671	10.671	(1.087)	171	1246			22.21- 82.21	49.76
175 Cumene						CAS #: 98-82-8		
10.783	10.783	(1.098)	105	7160	5.00000	5.262	80.00- 120.00	100.00(a)
10.783	10.783	(1.098)	120	1975			0.00- 55.22	27.58
10.769	10.769	(1.097)	51	827			0.00- 41.79	11.55
181 1,1,2,2-Tetrachloroethane						CAS #: 79-34-5		
11.105	11.105	(1.131)	83	2814	5.00000	4.660	80.00- 120.00	100.00(a)
11.105	11.105	(1.131)	85	1769			32.79- 92.79	62.86
182 Propylbenzene						CAS #: 103-65-1		
11.105	11.105	(1.131)	91	9265	5.00000	5.374	80.00- 120.00	100.00
11.105	11.105	(1.131)	120	1791			0.00- 50.77	19.33
11.119	11.119	(1.133)	105	321			0.00- 33.59	3.46
188 4-Ethyltoluene						CAS #: 622-96-8		
11.203	11.203	(1.141)	105	7160	5.00000	5.363	80.00- 120.00	100.00
11.203	11.203	(1.141)	120	2038			0.00- 57.71	28.46
190 1,3,5-Trimethylbenzene						CAS #: 108-67-8		
11.245	11.245	(1.145)	105	6382	5.00000	5.507	80.00- 120.00	100.00
11.245	11.245	(1.145)	120	2829			15.95- 75.95	44.33
196 1,2,4-Trimethylbenzene						CAS #: 95-63-6		
11.511	11.511	(1.172)	105	5668	5.00000	5.265	80.00- 120.00	100.00
11.511	11.511	(1.172)	120	2484			13.66- 73.66	43.82
208 1,3-Dichlorobenzene						CAS #: 541-73-1		
11.707	11.707	(1.192)	146	3660	5.00000	5.297	80.00- 120.00	100.00
11.707	11.707	(1.192)	148	2432			32.83- 92.83	66.45
11.707	11.707	(1.192)	111	1635			14.66- 74.66	44.67
209 1,4-Dichlorobenzene						CAS #: 106-46-7		
11.763	11.763	(1.198)	146	3778	5.00000	5.376	80.00- 120.00	100.00
11.763	11.763	(1.198)	148	2528			32.12- 92.12	66.91
11.763	11.763	(1.198)	111	1501			13.33- 73.33	39.73

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	4.74	4.41	5.07	4.75	0.30
123 1,4-Difluorobenze	5.84	5.51	6.17	5.84	0.00
163 Chlorobenzene-d5	9.82	9.49	10.15	9.82	0.00

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

Data File: /chem/msd14.i/10sep15.b/14091003.d

Date : 10-SEP-2015 09:38

Client ID: ICAL Level 2

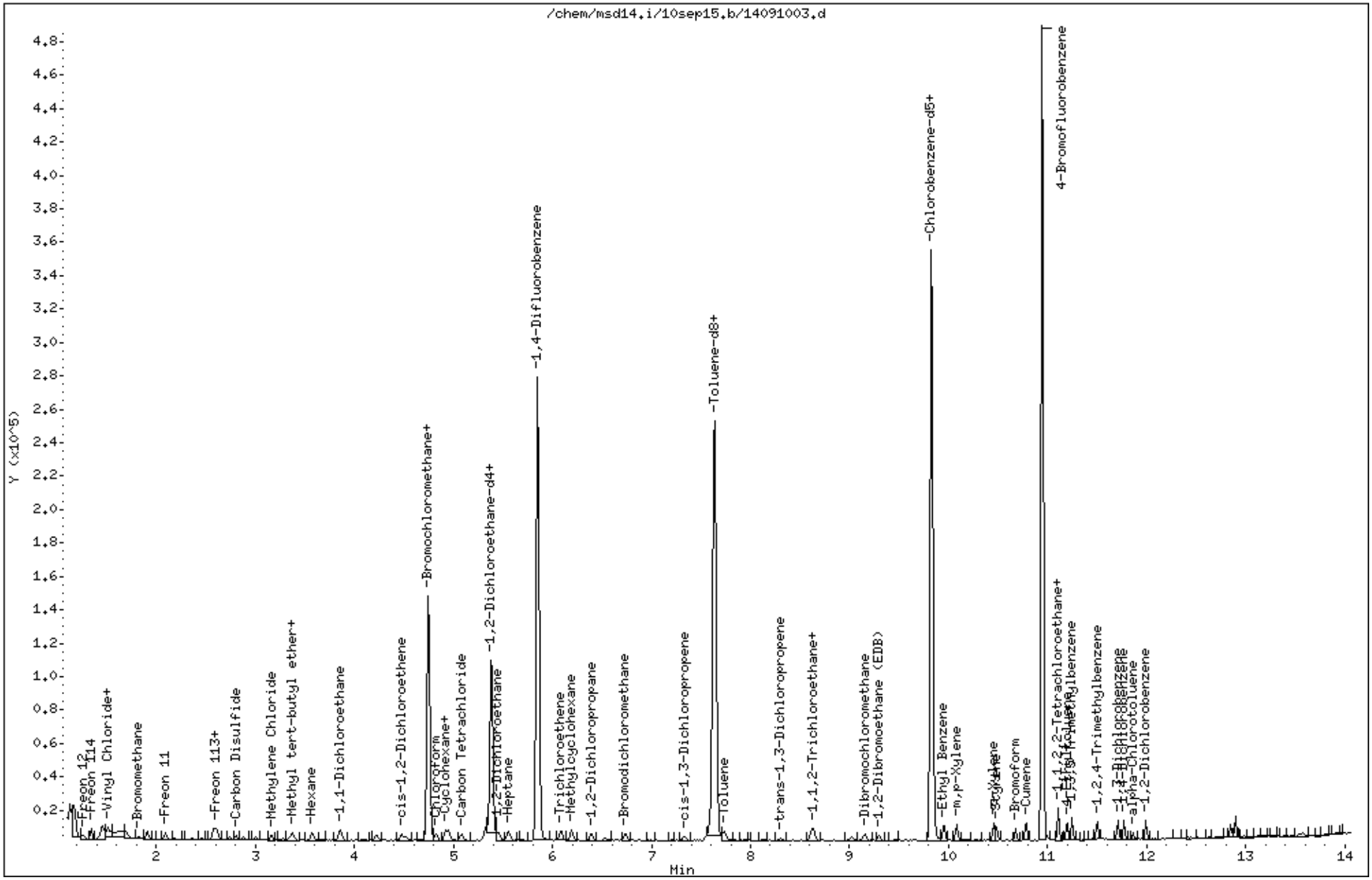
Sample Info: 50ml #2736-221

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

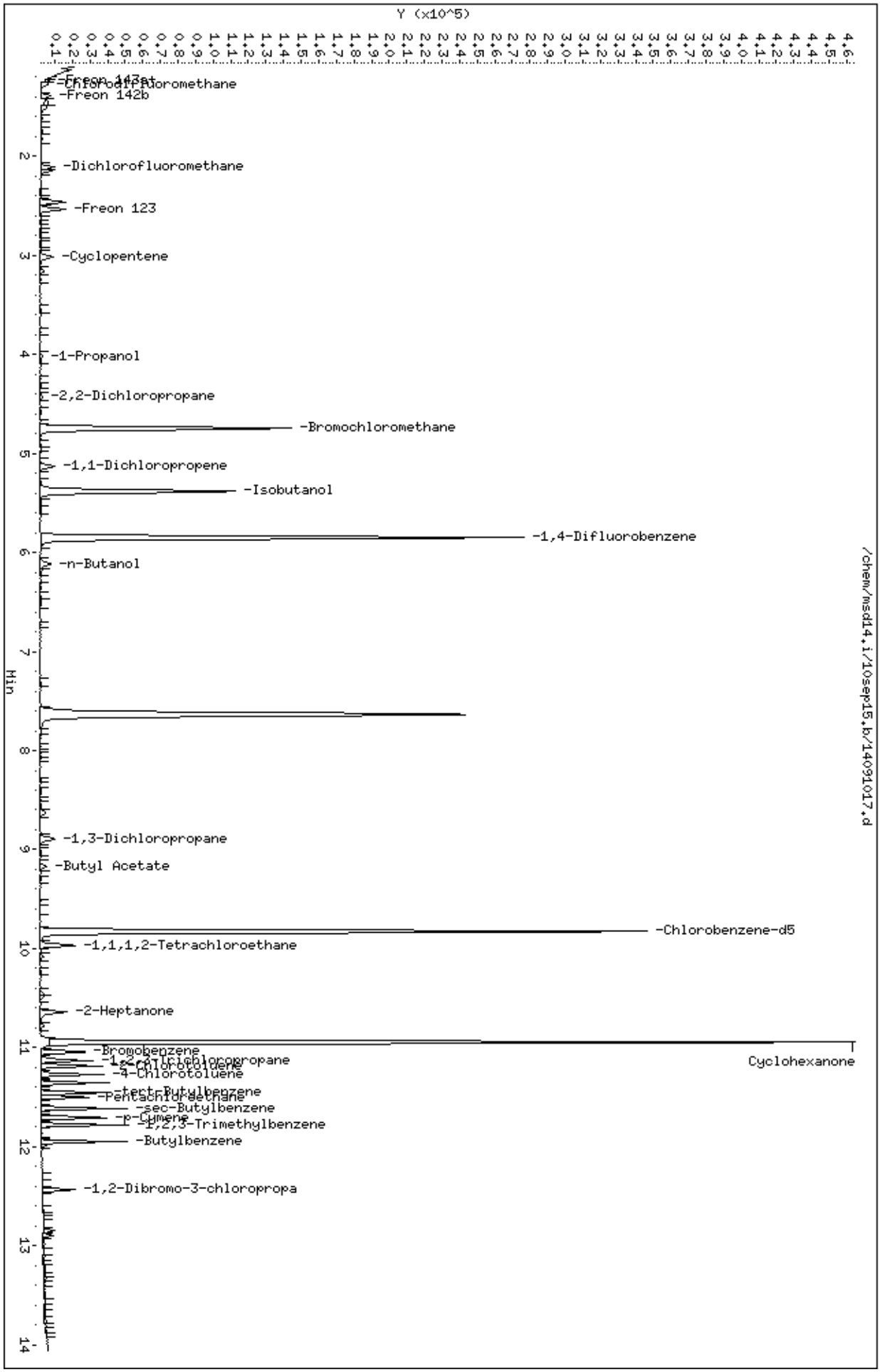
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	50610	-4.43
123 1,4-Difluorobenze	240311	144187	336435	229279	-4.59
163 Chlorobenzene-d5	202929	121757	284101	192718	-5.03

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

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

Data File: /chem/msd14.i/10sep15.b/14091017.d
Date : 10-SEP-2015 19:04
Client ID: Level 3
Sample Info: 5.0ml #2736-197
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.635	7.635 (1.306)	98	257218	400.000	396.47	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	31196			0.00- 42.36	12.13
7.635	7.635 (1.306)	100	164545			36.13- 96.13	63.97
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	115901	400.000	398.58	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	162821			113.45- 173.45	140.48
10.951	10.951 (1.115)	176	111187			68.10- 128.10	95.93
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	2804	20.0000	18.639	80.00- 120.00	100.00(a)
1.241	1.241 (0.262)	42	2543			35.71- 95.71	90.69
1.241	1.241 (0.262)	39	2506			44.83- 104.83	89.37
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	10806	20.0000	17.136	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	3838			1.94- 61.94	35.52
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	7067	20.0000	17.649	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	1940			2.09- 62.09	27.45
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	4108	20.0000	19.845	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	1297			1.48- 61.48	31.57
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	1102	20.0000	20.332	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	7242			577.93- 637.93	657.17
25 Vinyl Chloride					CAS #: 75-01-4		
1.521	1.521 (0.321)	62	4070	20.0000	16.977	80.00- 120.00	100.00
1.521	1.521 (0.321)	64	1369			1.45- 61.45	33.64
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.521 (0.321)	54	3481	20.0000	17.465	80.00- 120.00	100.00
1.521	1.521 (0.321)	39	4054			71.31- 131.31	116.46
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	2692	20.0000	16.067	80.00- 120.00	100.00
1.828	1.828 (0.386)	96	2428			64.67- 124.67	90.19
1.814	1.814 (0.383)	79	575			0.00- 47.98	21.36
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	2041	20.0000	18.542	80.00- 120.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	617			1.09- 61.09	30.23
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	4982	20.0000	19.424	80.00- 120.00	100.00(a)
1.912	1.912 (0.404)	57	3676			42.08- 102.08	73.79
1.912	1.912 (0.404)	72	427			0.00- 38.91	8.57
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	10748	20.0000	17.622	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	6754			34.26- 94.26	62.84
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	2236	20.0000	20.486	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	507			0.00- 52.18	22.67
2.360	2.360 (0.498)	46	862			11.33- 71.33	38.55
49 Freon 113					CAS #: 76-13-1		
2.598	2.598 (0.548)	151	6427	20.0000	17.358	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	4112			33.38- 93.38	63.98
2.584	2.584 (0.545)	101	8754			106.88- 166.88	136.21
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	8044	20.0000	17.773	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	4289			24.64- 84.64	53.32
2.612	2.612 (0.551)	98	2947			4.54- 64.54	36.64
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	2283	20.0000	19.146	80.00- 120.00	100.00(a)
2.738	2.738 (0.578)	43	8201			297.27- 357.27	359.22
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	12189	20.0000	17.550	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	6783	20.0000	18.516	80.00- 120.00	100.00(a)
2.878	2.878 (0.607)	43	1625			0.00- 50.08	23.96
2.878	2.878 (0.607)	59	161			0.00- 33.79	2.37
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	1800	20.0000	18.028	80.00- 120.00	100.00(a)
3.004	3.004 (0.634)	41	4766			228.46- 288.46	264.78
66 Methylene Chloride					CAS #: 75-09-2		
3.172	3.172 (0.669)	49	6135	20.0000	18.874	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	4288			42.33- 102.33	69.89

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

   66 Methylene Chloride (continued)
  3.172   3.172 (0.669)    51      1727                     1.58-  61.58    28.15
-------------------------------------------------------------------------------
   71 tert-Butyl alcohol                           CAS #: 75-65-0
  3.270   3.270 (0.690)    59      4507 20.0000   16.529  80.00- 120.00   100.00(a)
  3.284   3.284 (0.693)    41      1005                     0.00-  49.77    22.30
  3.270   3.270 (0.690)    57       812                     0.00-  40.69    18.02
-------------------------------------------------------------------------------
   72 Methyl tert-butyl ether                      CAS #: 1634-04-4
  3.353   3.353 (0.708)    73      7245 20.0000   15.303  80.00- 120.00   100.00
  3.353   3.353 (0.708)    57      2102                     0.00-  54.23    29.01
  3.353   3.353 (0.708)    41      1623                     0.00-  52.85    22.40
-------------------------------------------------------------------------------
   73 trans-1,2-Dichloroethene                     CAS #: 156-60-5
  3.381   3.381 (0.714)    96      4418 20.0000   17.271  80.00- 120.00   100.00
  3.381   3.381 (0.714)    61      6482                   124.68- 184.68   146.72
  3.381   3.381 (0.714)    98      2833                    31.63-  91.63    64.12
-------------------------------------------------------------------------------
   78 Hexane                                       CAS #: 110-54-3
  3.577   3.577 (0.755)    57      7342 20.0000   16.380  80.00- 120.00   100.00
  3.577   3.577 (0.755)    43      4932                    29.53-  89.53    67.18
  3.577   3.577 (0.755)    86      1219                     0.00-  47.08    16.60
-------------------------------------------------------------------------------
   82 1,1-Dichloroethane                           CAS #: 75-34-3
  3.871   3.871 (0.817)    63      8397 20.0000   17.841  80.00- 120.00   100.00
  3.871   3.871 (0.817)    65      2536                     1.34-  61.34    30.20
-------------------------------------------------------------------------------
   83 Isopropyl ether                              CAS #: 108-20-3
  3.843   3.843 (0.811)    45     15151 20.0000   18.861  80.00- 120.00   100.00(a)
  3.857   3.857 (0.814)    87      3718                     0.00-  55.21    24.54
  3.843   3.843 (0.811)    59      1728                     0.00-  41.77    11.41
-------------------------------------------------------------------------------
   88 Ethyl-tert-butyl ether                       CAS #: 637-92-3
  4.221   4.221 (0.891)    59      9431 20.0000   16.186  80.00- 120.00   100.00(a)
  4.221   4.221 (0.891)    87      3434                     7.67-  67.67    36.41
  4.221   4.221 (0.891)    41      2204                     0.00-  47.51    23.37
-------------------------------------------------------------------------------
   91 cis-1,2-Dichloroethene                       CAS #: 156-59-2
  4.487   4.487 (0.947)    61      6143 20.0000   16.953  80.00- 120.00   100.00
  4.487   4.487 (0.947)    96      4475                    40.63- 100.63    72.85
  4.487   4.487 (0.947)    98      3107                    13.70-  73.70    50.58
-------------------------------------------------------------------------------
   92 2-Butanone                                   CAS #: 78-93-3
  4.529   4.529 (0.956)    72      1625 20.0000   16.059  80.00- 120.00   100.00(a)
  4.529   4.529 (0.956)    43      8185                   377.26- 437.26   503.69
  4.515   4.515 (0.953)    57       955                     5.15-  65.15    58.77
-------------------------------------------------------------------------------
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
99 Tetrahydrofuran					CAS #: 109-99-9		
4.739	4.739 (1.000)	42	5365	20.0000	15.731	80.00- 120.00	100.00
4.739	4.739 (1.000)	71	1804			10.11- 70.11	33.63
4.739	4.739 (1.000)	72	1917			11.95- 71.95	35.73
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	9858	20.0000	18.031	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	5967			32.70- 92.70	60.53
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.921 (1.038)	84	6652	20.0000	17.246	80.00- 120.00	100.00
4.921	4.921 (1.038)	56	8234			89.66- 149.66	123.78
4.921	4.921 (1.038)	41	5762			35.66- 95.66	86.62
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.949 (1.044)	97	8748	20.0000	16.407	80.00- 120.00	100.00
4.949	4.949 (1.044)	99	5796			33.85- 93.85	66.26
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	7882	20.0000	17.253	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	8188			75.43- 135.43	103.88
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	23668	20.0000	17.426	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	8596			3.74- 63.74	36.32
5.326	5.326 (1.124)	41	7193			0.00- 57.60	30.39
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	13369	20.0000	16.151	80.00- 120.00	100.00
5.354	5.354 (0.916)	77	3286			0.00- 54.57	24.58
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	8412	20.0000	16.115	80.00- 120.00	100.00(a)
5.452	5.452 (1.151)	87	1694			0.00- 53.11	20.14
5.452	5.452 (1.151)	55	2084			0.00- 55.69	24.77
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.480	5.480 (0.938)	62	6726	20.0000	17.208	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	2235			2.82- 62.82	33.23
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	5357	20.0000	18.546	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	8575			135.26- 195.26	160.07
5.564	5.564 (0.952)	100	1536			2.82- 62.82	28.67
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	7175	20.0000	18.173	80.00- 120.00	100.00

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

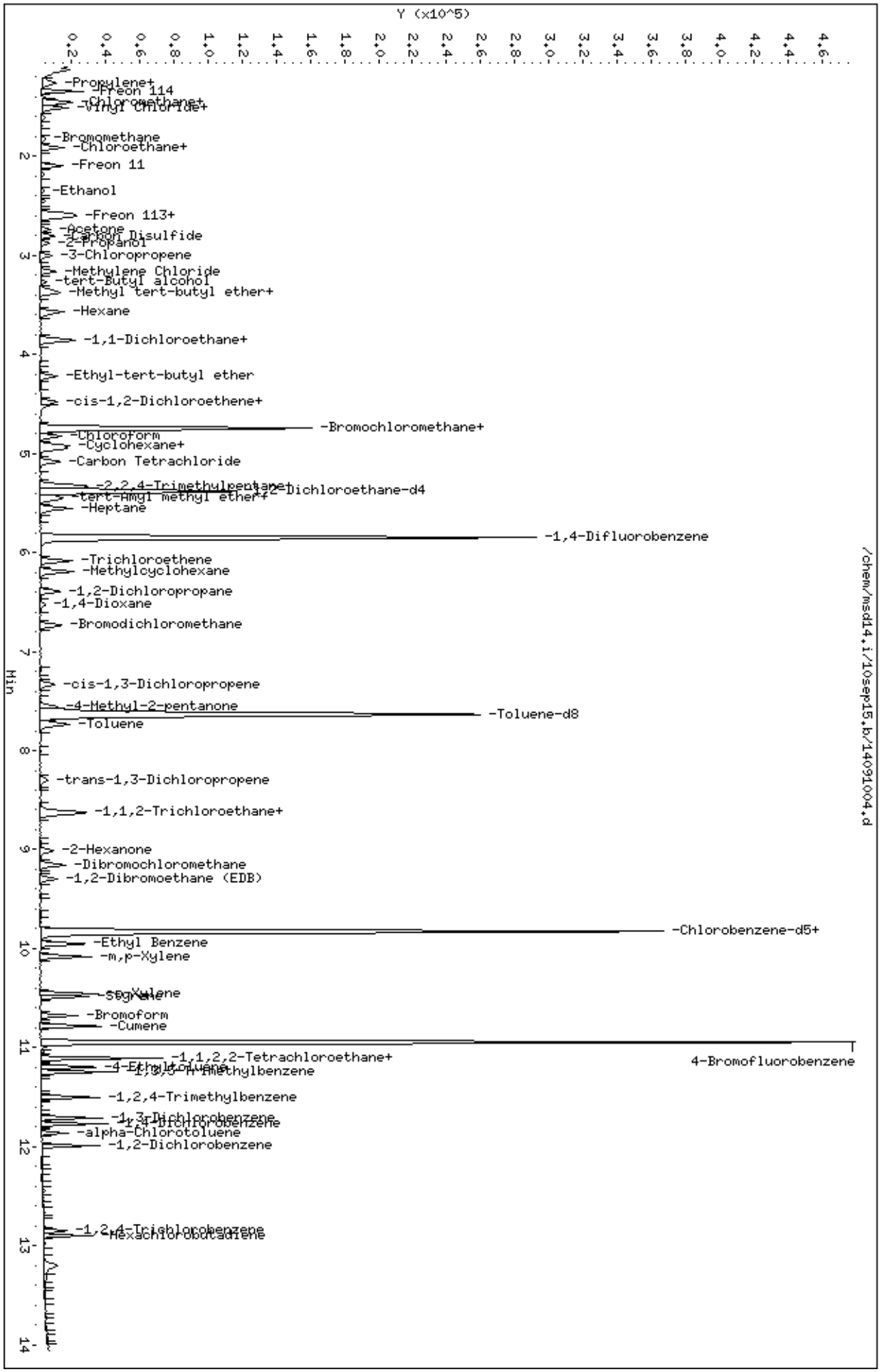
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	54388	2.70
123 1,4-Difluorobenze	240311	144187	336435	245284	2.07
163 Chlorobenzene-d5	202929	121757	284101	203072	0.07

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

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

Data File: /chem/msd14.i/10sep15.b/14091004.d
Date : 10-SEP-2015 10:05
Client ID: ICAL Level 3
Sample Info: 5.0ml #2736-173
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

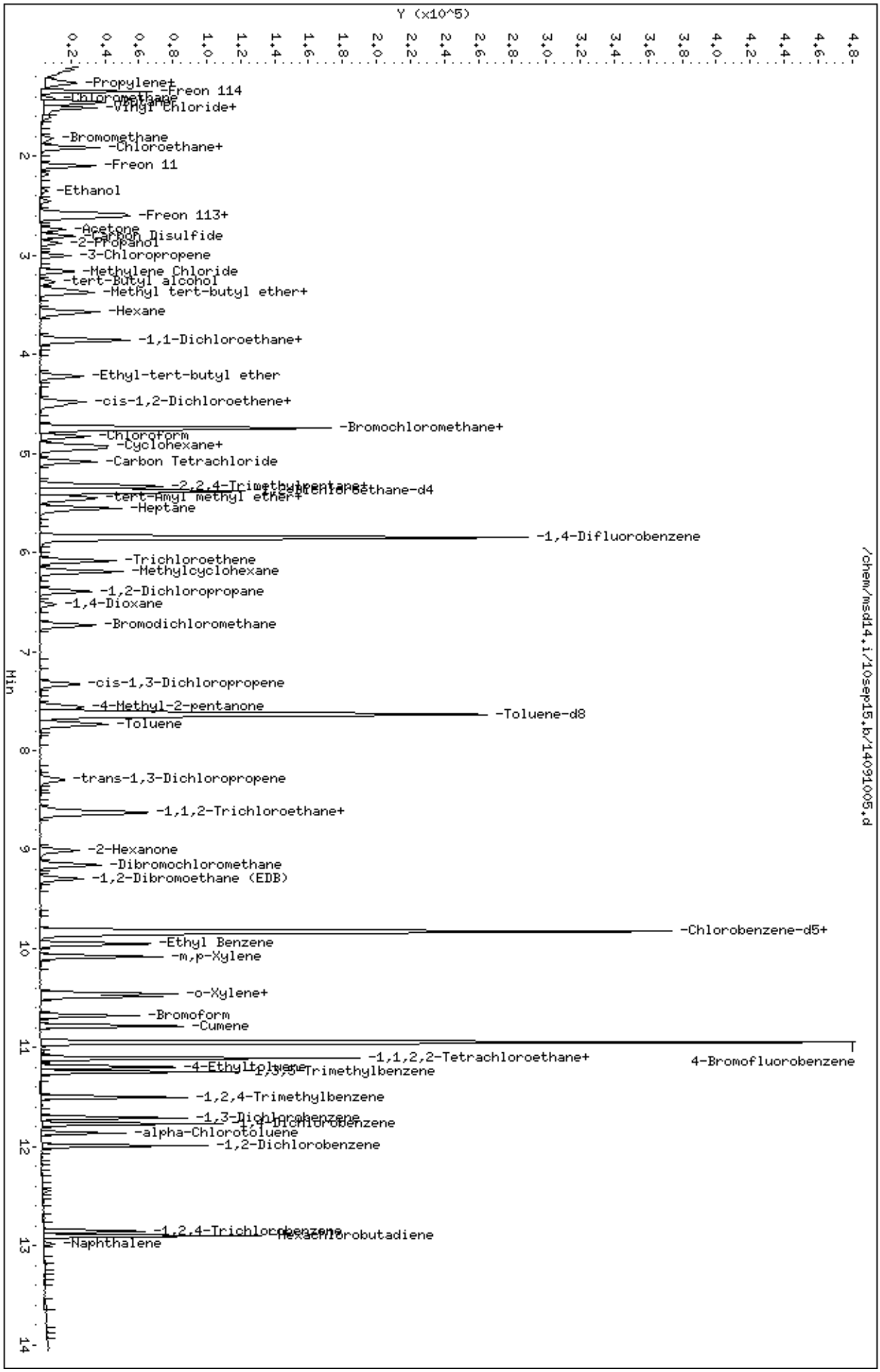
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	53779	1.55
123 1,4-Difluorobenze	240311	144187	336435	246604	2.62
163 Chlorobenzene-d5	202929	121757	284101	208530	2.76

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

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

Data File: /chem/msd14.i/10sep15.b/14091005.d
Date : 10-SEP-2015 10:55
Client ID: ICAL Level 4
Sample Info: 12.5ml #2736-173
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

QC Flag Legend

T - Target compound detected outside RT window.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091018.d

Date : 10-SEP-2015 19:26

Client ID: Level 5

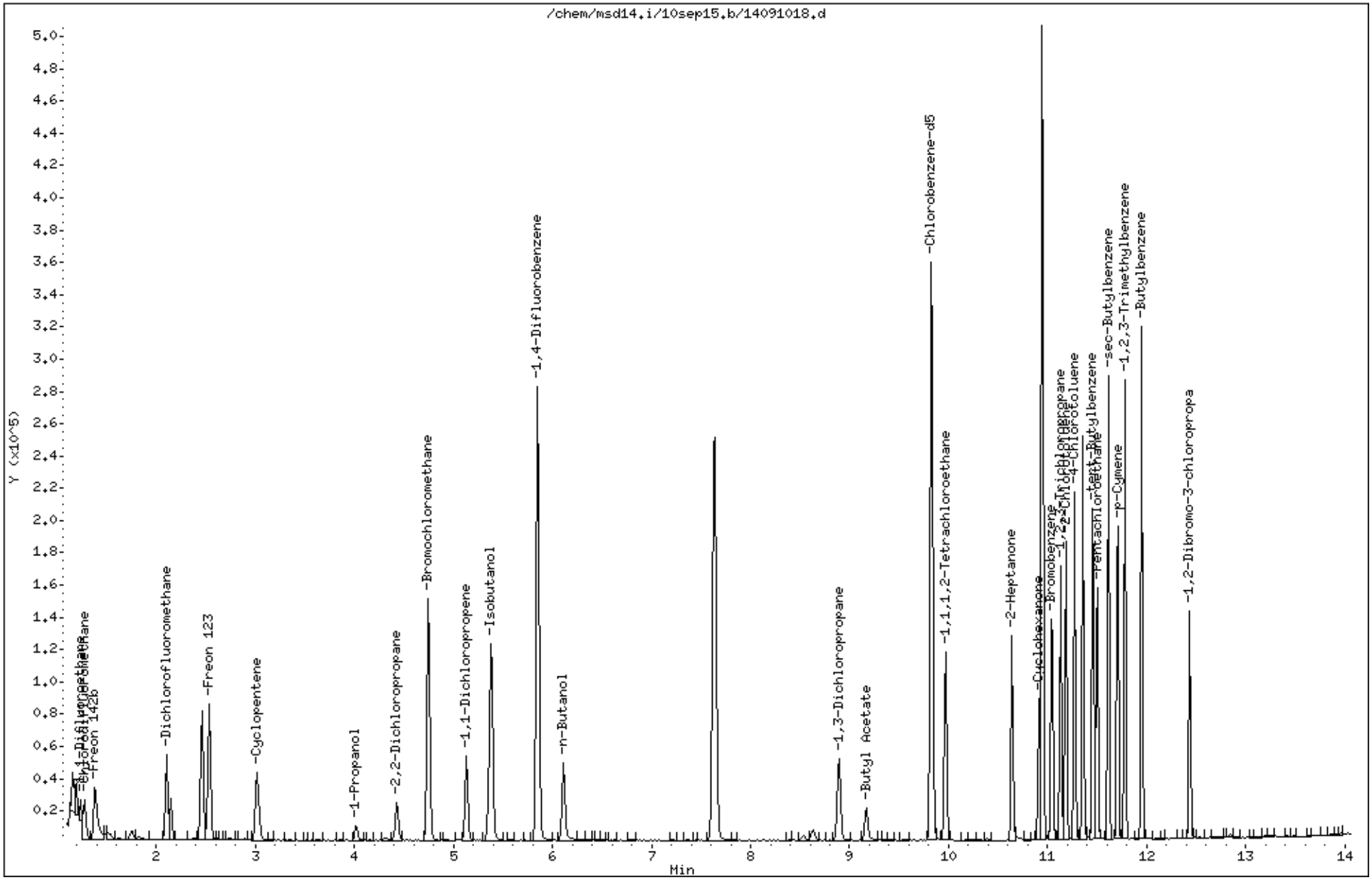
Sample Info: 25ml #2736-197

Column phase: RTX-624

Instrument: msd14.i

Operator: gh

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

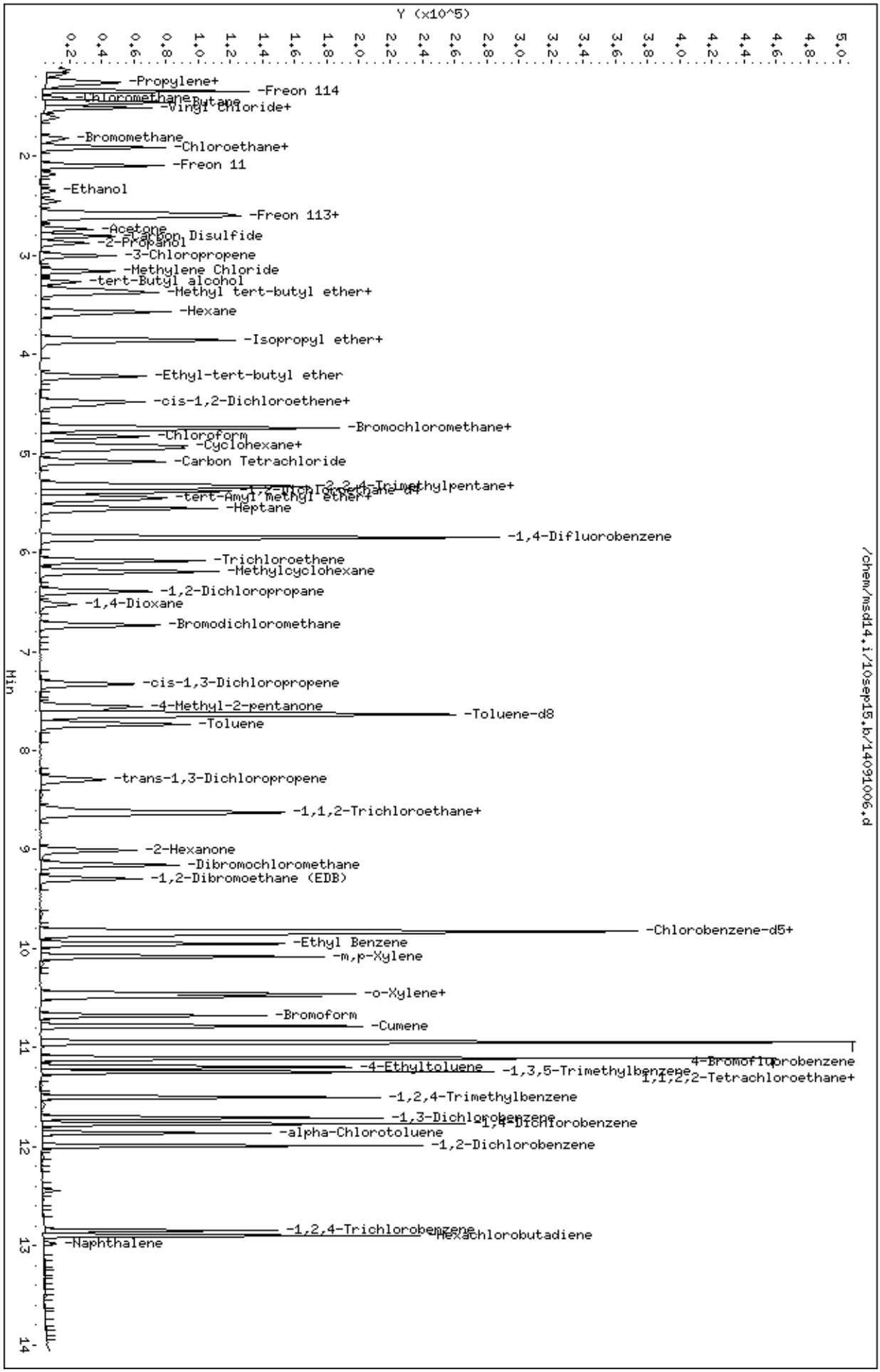
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	52717	-0.45
123 1,4-Difluorobenze	240311	144187	336435	241063	0.31
163 Chlorobenzene-d5	202929	121757	284101	203875	0.47

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

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

Data File: /chem/msd14.i/10sep15.b/14091006.d
Date : 10-SEP-2015 11:21
Client ID: ICAL Level 5
Sample Info: 25ml #2736-173
Column phase: RTX-624

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



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

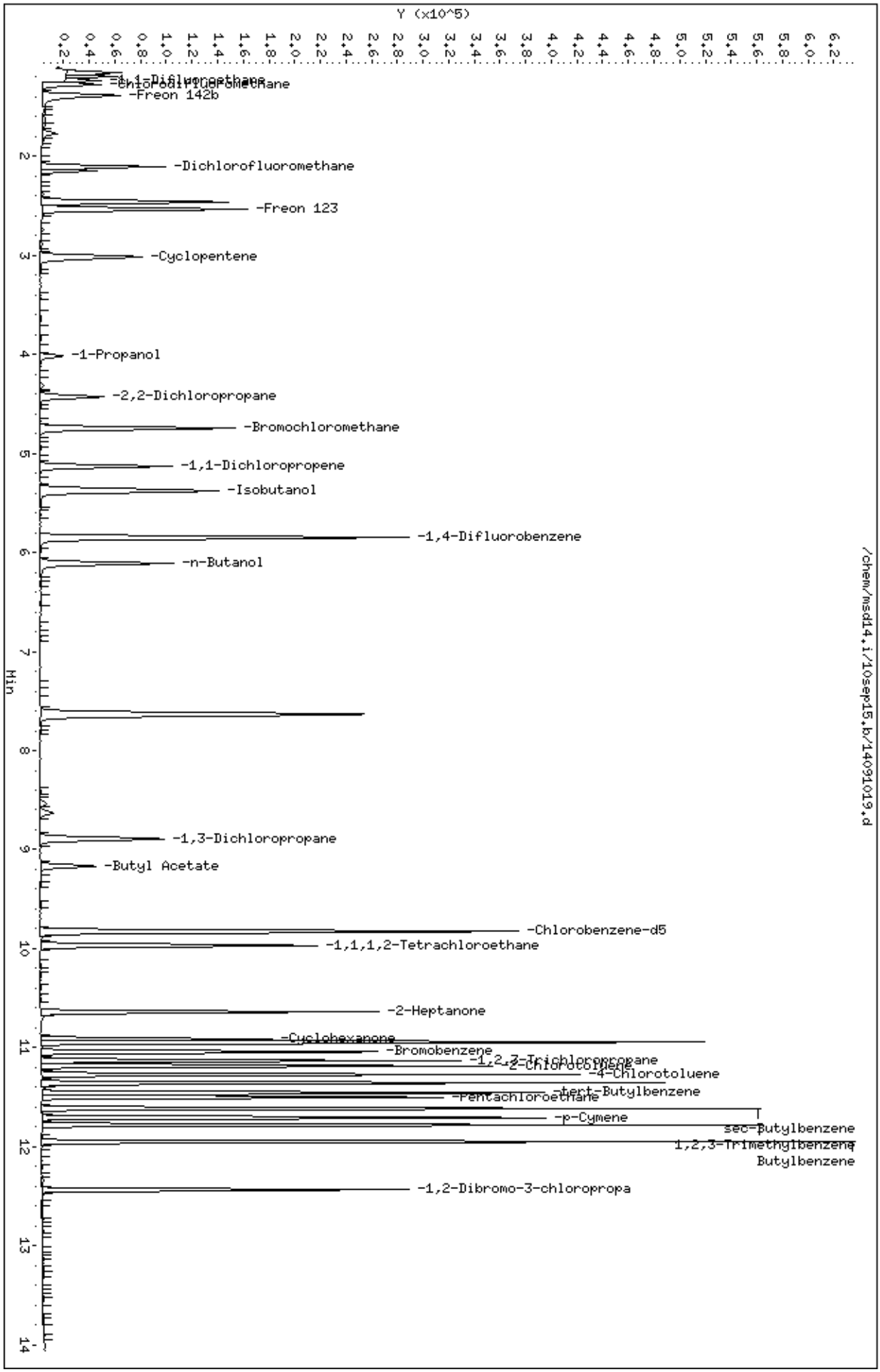
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	51057	30634	71480	51057	0.00
123 1,4-Difluorobenze	236694	142016	331372	236694	0.00
163 Chlorobenzene-d5	203470	122082	284858	203470	0.00

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

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

Data File: /chem/msd14.i/10sep15.b/14091019.d
Date : 10-SEP-2015 20:31
Client ID: Level 6
Sample Info: 50ml #2736-197
Column phase: RTX-624

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



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Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

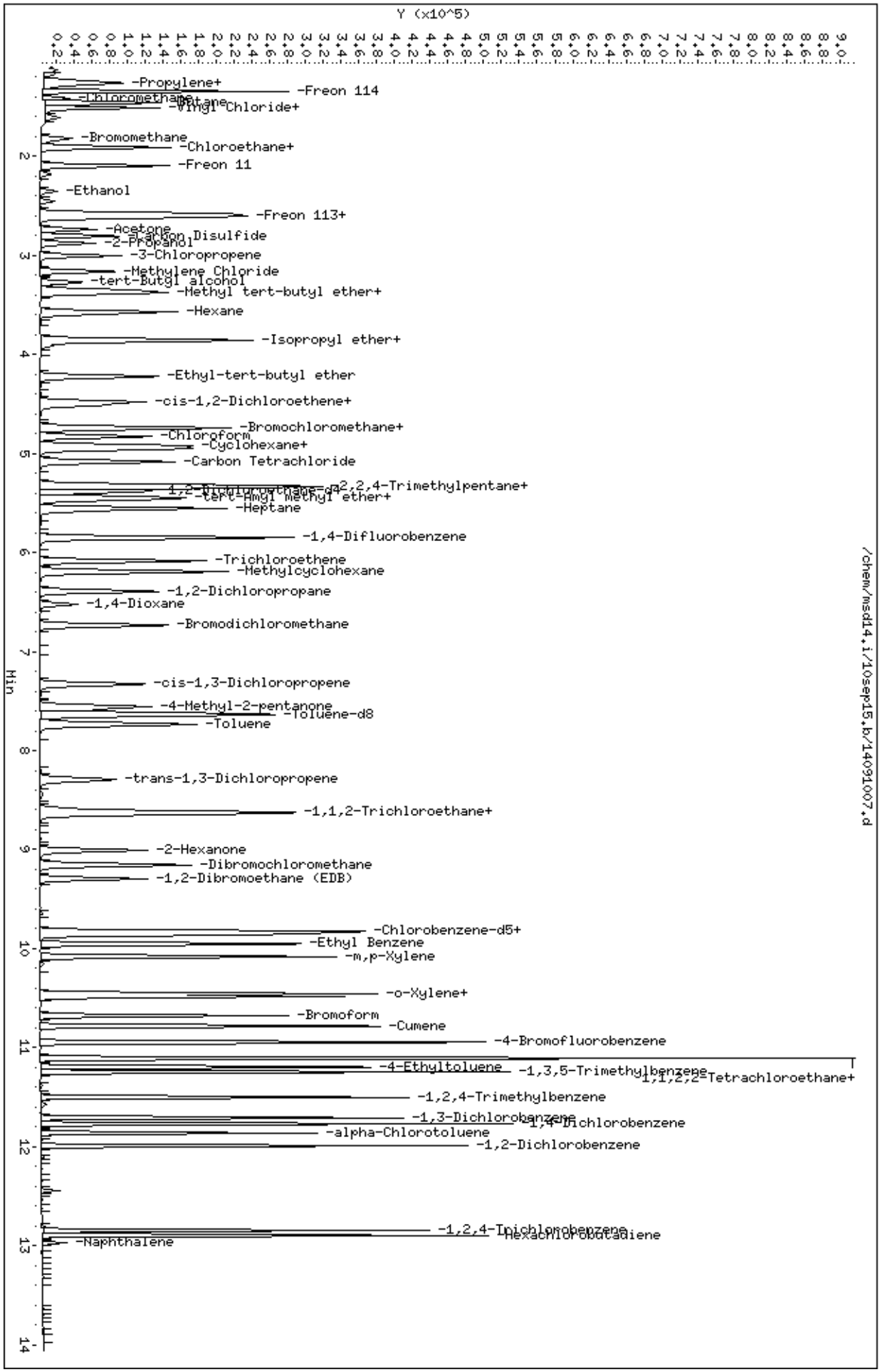
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	52956	0.00
123 1,4-Difluorobenze	240311	144187	336435	240311	0.00
163 Chlorobenzene-d5	202929	121757	284101	202929	0.00

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

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

Data File: /chem/msd14.i/10sep15.b/14091007.d
Date : 10-SEP-2015 11:46
Client ID: ICAL Level 6
Sample Info: 50ml #2736-173
Column phase: RTX-624

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



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

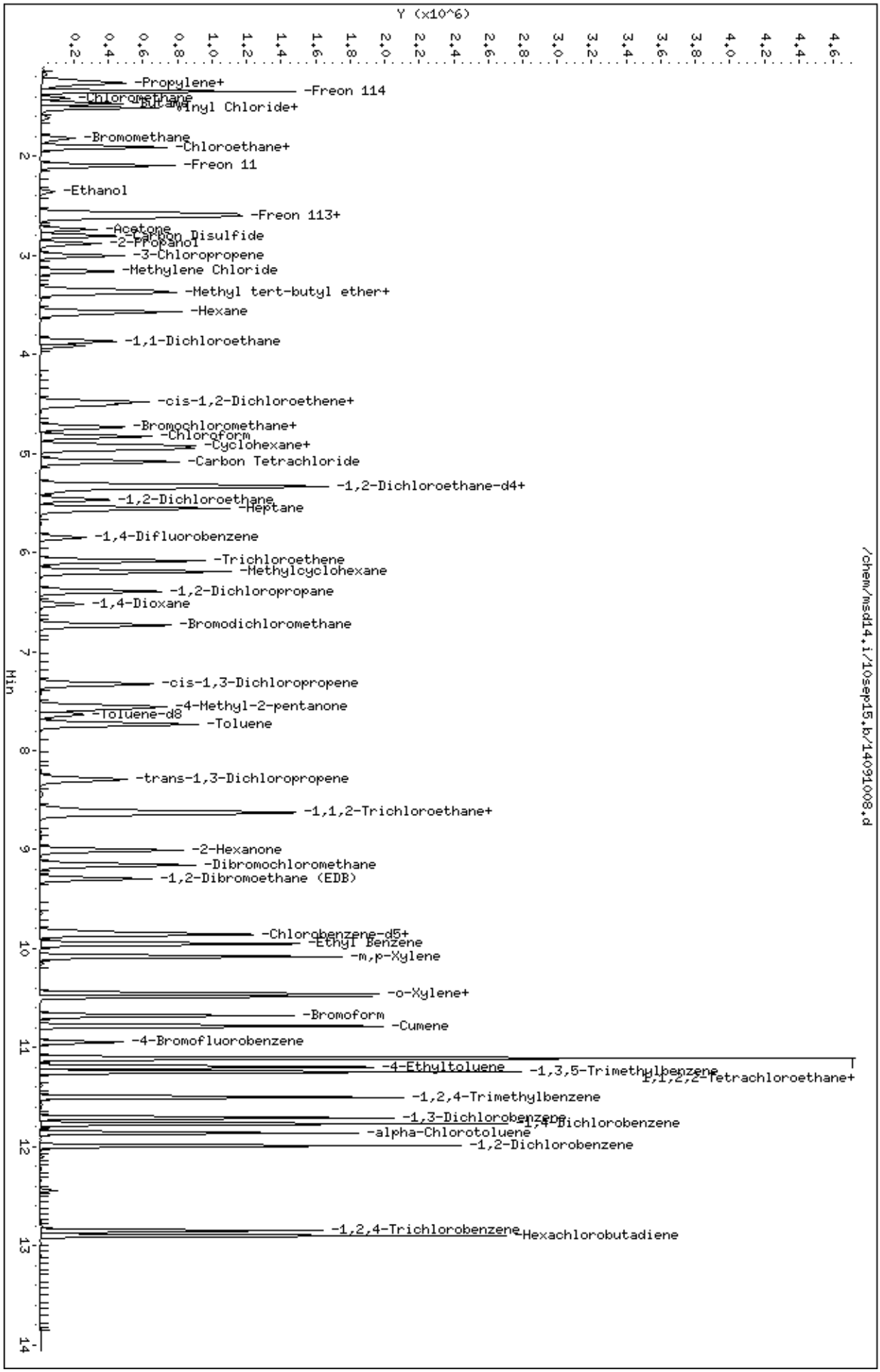
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52956	31774	74138	50672	-4.31
123 1,4-Difluorobenze	240311	144187	336435	227303	-5.41
163 Chlorobenzene-d5	202929	121757	284101	190503	-6.12

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

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

Data File: /chem/msd14.i/10sep15.b/14091008.d
Date : 10-SEP-2015 12:32
Client ID: ICAL Level 7
Sample Info: 50ml #2736-215
Column phase: RTX-624

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



/chem/msd14.i/10sep15.b/14091008.d

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091012.d

Date : 10-SEP-2015 15:37

Client ID: ICAL Level 8

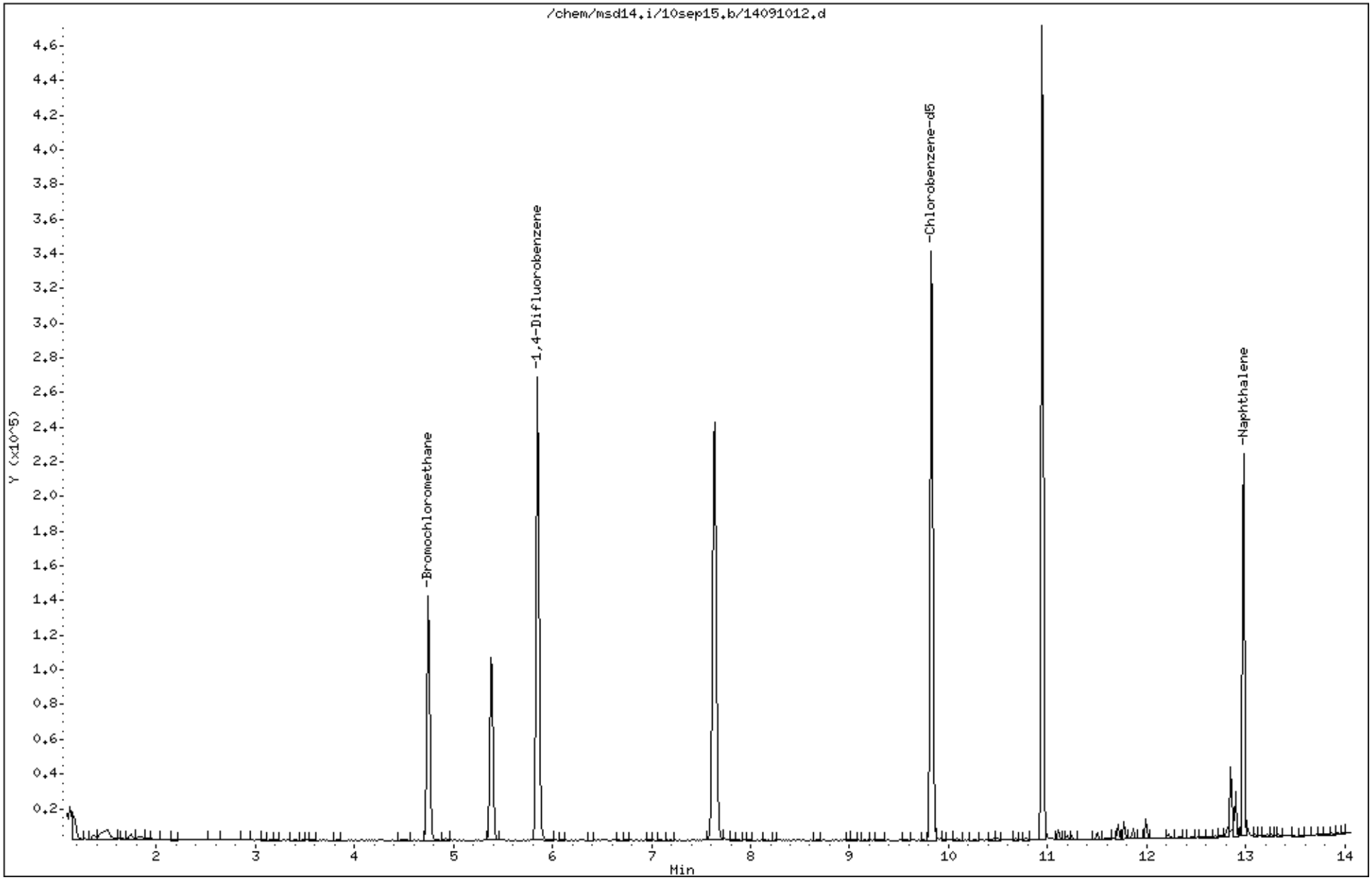
Sample Info: 25ml #2736-218

Column phase: RTX-624

Instrument: msd14.i

Operator: gh

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

QC Flag Legend

H - Operator selected an alternate compound hit.

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091009.d

Date : 10-SEP-2015 13:37

Client ID: ICAL Level 8

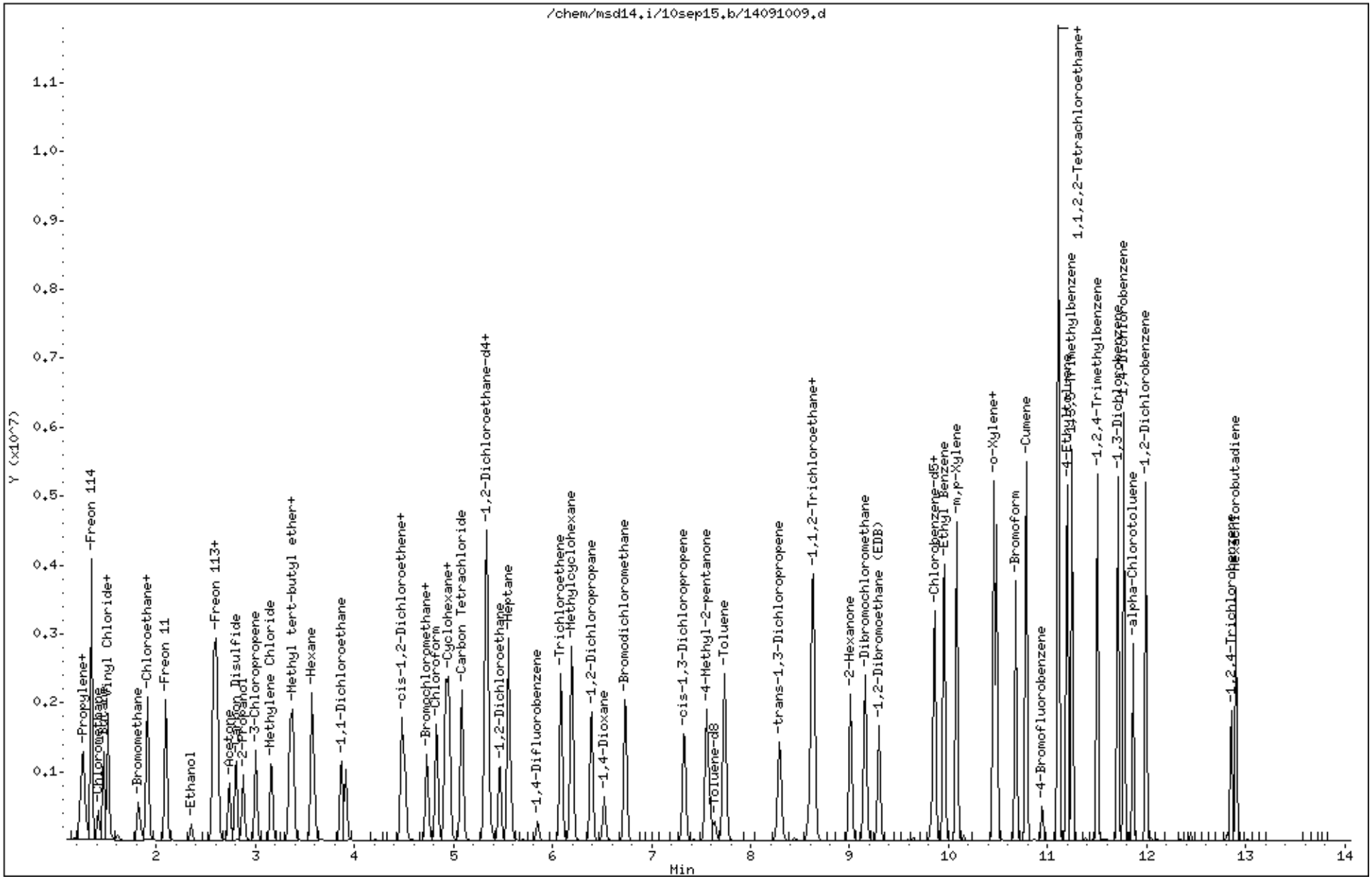
Sample Info: 25ml #2736-216

Column phase: RTX-624

Instrument: msd14.i

Operator: mjs

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091013.d

Page 1

Date : 10-SEP-2015 16:18

Client ID: ICAL Level 9

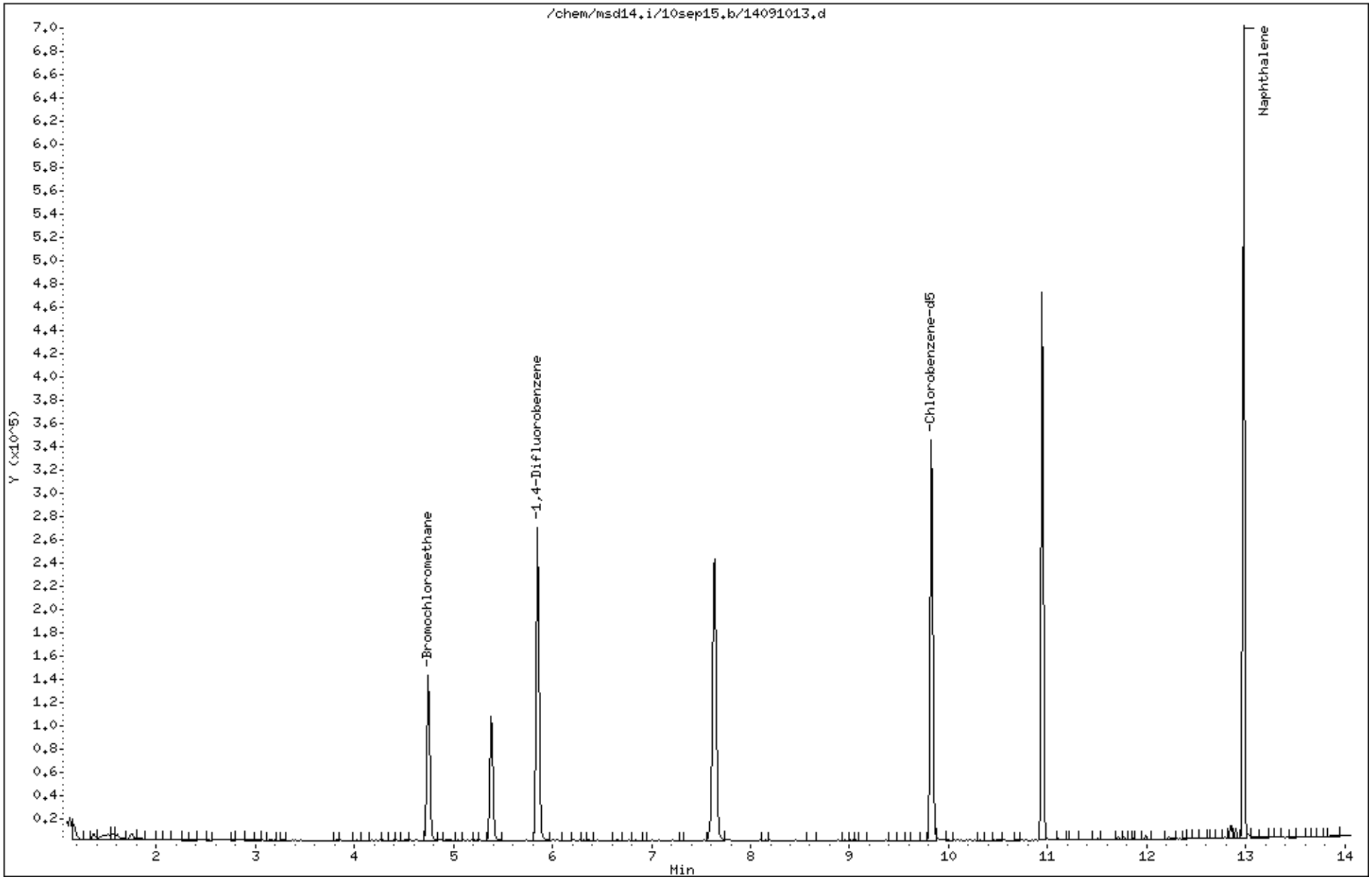
Instrument: msd14.i

Sample Info: 50ml #2736-218

Operator: gh

Column phase: RTX-624

Column diameter: 0.18



Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

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

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

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

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

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

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

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

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

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

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

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

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

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

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

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

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

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

Data File: /chem/msd14.i/10sep15.b/14091011.d

Date : 10-SEP-2015 15:02

Client ID: ICAL Level 9

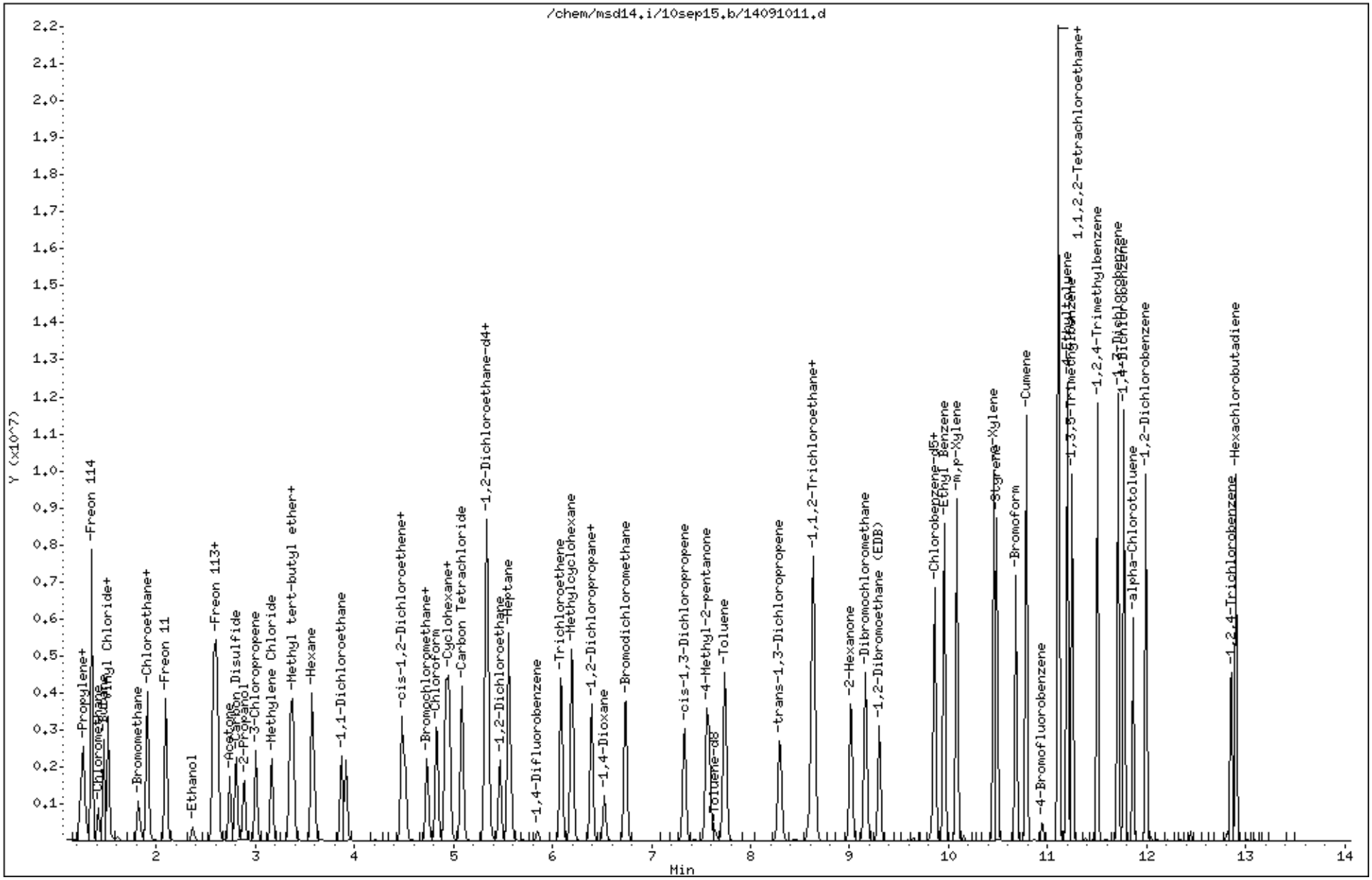
Sample Info: 50ml #2736-216

Column phase: RTX-624

Instrument: msd14.i

Operator: gh

Column diameter: 0.18



5.0ppbv

To-15 5+20
5/26/15

Report Date : 27-May-2015 14:26

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 50mL #2736-26
5.0ppbv → 5.0ppbv

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

MDL verification #14052715
25mL #2736-26
5.0ppbv → 2.5ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052621	14052622	14052623	14052624	14052625	14052626	14052627	14052628
INJ.DATE:	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015	26-MAY-2015
INJ.TIME:	18:15	18:47	19:13	19:49	20:38	21:18	21:50	22:13

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPBV)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	5618.14	5289.85	5204.37	5749.77	5214.18	5174.95	5527.45	5759.47	5442.27	249.76	748.79	5000
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	5603.94	4883.69	5114.02	5134.28	5894.06	5312.18	5680.65	6112.92	5466.97	424.85	1273.71	5000
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Reviewer 1 [signature] Date: 5/27/15
Reviewer 2 Date:

$\bar{X}$ = 1057 ppTV
$\bar{X}$ = 1.057 ppBV

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	6017.99	4396.21	6028.52	4999.48	5544.72	5582.61	5670.55	5372.99	5451.64	541.41	1623.14	5000
26 1,3-Butadiene	6932.67	6467.41	5836.82	6716.82	6207.35	6239.14	5991.12	6000.60	6298.99	380.58	1140.99	5000
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	6100.46	5630.10	6709.21	5417.98	5032.43	4597.85	4495.75	5355.74	5417.44	741.98	2224.44	5000
30 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	5618.36	5493.31	5512.85	5492.84	5454.55	5533.27	5360.81	5872.37	5542.29	151.73	454.90	5000
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	5017.33	4679.01	5555.86	5623.78	6187.47	6122.10	5590.92	5966.10	5592.82	526.67	1578.95	5000
50 1,1-Dichloroethene	3037.17	2671.36	5921.71	5806.60	6170.85	6237.64	5465.65	5987.67	5162.33	1447.14	4338.53	5000
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	5892.45	5259.69	5513.87	5775.38	5739.00	4804.60	5775.35	5611.89	5546.53	358.47	1074.70	5000
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
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Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	6819.30	5734.30	6004.21	6211.11	6590.07	6897.35	5799.99	6464.52	6315.11	447.42	1341.37	5000
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
72 Methyl tert-butyl ethe	4371.05	4254.24	4517.44	4162.59	4300.60	4616.16	4368.22	4553.87	4394.27	156.05	467.83	5000
73 trans-1,2-Dichloroethe	5802.69	5816.77	5791.85	5356.14	5419.11	4766.84	5208.87	5651.13	5439.18	343.99	1031.27	5000
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	5144.82	5270.03	5575.02	4963.64	5028.67	4662.34	4746.31	5156.03	5068.36	290.82	871.87	5000
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	6058.59	5592.62	5616.67	5548.73	5548.69	5950.19	5659.64	5883.01	5732.27	200.79	601.98	5000
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
	87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	88 Ethyl tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	91 cis-1,2-Dichloroethene	5769.89	5115.45	4840.81	5606.30	5021.02	5290.14	5495.23	5916.39	5381.90	378.31	1134.18	5000
	92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
*	98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
	99 Tetrahydrofuran	5600.56	5324.45	5312.25	4991.46	5440.23	5640.76	4780.42	5738.85	5353.62	329.85	988.89	5000
	100 Chloroform	5607.94	5573.15	5047.94	5621.63	5134.94	5511.37	5632.11	5910.24	5504.91	281.61	844.26	5000
	101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	102 Cyclohexane	5606.22	5115.27	5383.03	5072.45	4731.99	5048.74	4864.69	5332.12	5144.31	285.09	854.71	5000
	103 1,1,1-Trichloroethane	5207.46	5148.21	5265.45	4782.31	4949.26	5225.14	5933.91	5452.56	5245.54	344.51	1032.84	5000
	104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	106 Carbon Tetrachloride	4593.57	4664.57	4346.22	4794.37	4680.48	4884.46	4439.43	5244.24	4704.67	279.59	838.21	5000
	107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Method File: /chem/msd14.i/26may15.b/14550526a.m
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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	5502.32	4936.16	5007.91	5126.65	4903.27	4836.14	5221.57	5474.32	5126.04	255.15	764.93	5000
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	5432.92	4970.68	5211.55	5342.72	4930.05	5053.13	5386.33	5902.75	5278.77	316.39	948.55	5000
$ 117 1,2-Dichloroethane-d4	406396	401602	407426	402070	405528	404761	402038	406614	404554	2332.72	6993.50	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
120 1,2-Dichloroethane	5573.90	5782.33	5321.65	5688.53	5896.11	6157.12	5518.50	6129.95	5754.77	294.89	884.09	5000
121 Heptane	4841.52	4539.90	4576.67	4911.41	6052.30	5552.42	5007.84	5380.09	5107.77	519.34	1556.97	5000
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	6432.90	5856.90	5548.40	5581.11	5620.51	6120.86	6304.15	6134.93	5949.97	345.71	1036.43	5000
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	5496.55	5568.87	5264.39	5449.16	5517.74	5640.84	5665.74	5255.62	5482.36	154.78	464.04	5000
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 Bromodichloromethane	5047.09	5811.03	4849.47	4939.54	5519.75	4735.87	5269.40	5620.20	5224.04	393.13	1178.61	5000
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
144 cis-1,3-Dichloropropen	4882.37	4587.60	5390.13	4521.05	4403.13	4629.73	4435.26	5113.45	4745.34	352.91	1058.04	5000
145 4-Methyl-2-pentanone	5295.41	3035.92	4286.86	5533.41	4753.19	6212.56	3660.09	5048.80	4728.28	1033.46	3098.31	5000
$ 146 Toluene-d8	402747	398403	400769	403838	394757	402162	402123	395852	400081	3364.51	10086.79	
147 Toluene	5838.56	5462.74	5353.77	5322.72	5675.21	5373.62	5613.06	5792.73	5554.05	203.75	610.84	
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
150 trans-1,3-Dichloroprop	3559.38	3451.42	4273.77	3693.42	4095.40	3719.56	3805.38	3751.05	3793.67	270.20	810.06	5000
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
155 1,1,2-Trichloroethane	5498.29	5143.73	5933.40	5712.23	5242.79	4857.03	5525.69	5425.41	5417.31	336.13	1007.73	5000
156 Tetrachloroethene	5485.09	5898.02	4790.99	5340.38	5580.56	5492.01	5782.84	6284.21	5556.76	421.45	1263.52	5000
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	5338.66	5074.18	5128.83	5434.13	5638.76	5498.07	5226.09	4793.36	5266.51	269.11	806.79	5000
161 1,2-Dibromoethane (EDB	5319.06	5075.03	5282.25	5587.42	5134.79	5111.27	4958.62	5319.34	5223.47	195.26	585.38	5000
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Chlorobenzene	6082.54	5966.68	5772.07	5836.72	5224.21	5716.59	5745.78	6500.17	5855.59	361.88	1084.90	5000
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Ethyl Benzene	5175.05	4899.48	4576.33	5444.93	4807.23	4851.21	5095.97	5634.91	5060.64	350.59	1051.08	5000
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 m,p-Xylene	5153.11	5147.13	5097.91	5056.68	5422.06	5147.08	5301.44	5404.68	5216.26	140.48	421.15	5000
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
171 o-Xylene	4833.05	4828.15	4728.68	4987.34	5326.50	4705.57	5007.72	5017.17	4929.27	201.71	604.73	5000
172 Styrene	5355.19	4916.99	4810.46	4780.82	4883.64	4984.73	5230.30	5034.10	4999.53	201.77	604.92	5000
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 Bromoform	5498.27	5330.27	5160.75	5458.57	5337.27	4768.93	5374.61	5524.96	5306.70	246.11	737.84	5000
175 Cumene	5239.95	4563.17	4967.48	4928.82	4882.81	4604.51	4782.91	5111.99	4885.20	232.66	697.52	5000
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 177 4-Bromofluorobenzene	399121	403303	397754	399576	401407	393596	406492	398747	400000	3847.15	11533.77	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	5487.64	5185.15	5545.70	5477.45	5596.40	5333.73	5099.02	5719.49	5430.57	210.18	630.11	5000
182 Propylbenzene	5205.56	5465.08	5329.47	5503.57	5807.68	5299.16	5396.02	5523.51	5441.26	183.53	550.21	5000

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METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
188 4-Ethyltoluene	5551.45	5213.57	5305.48	5252.60	4847.12	4837.16	5094.09	5443.09	5193.07	257.38	771.62	5000
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
190 1,3,5-Trimethylbenzene	5506.67	5212.41	5102.49	5092.44	5335.17	5032.74	4911.04	5342.23	5191.90	194.47	583.02	5000
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
196 1,2,4-Trimethylbenzene	5454.33	4804.41	4867.79	5216.98	4870.54	4899.11	5222.34	5250.72	5073.26	240.69	721.58	5000
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	6277.32	5653.83	5529.71	5427.10	5339.38	5741.25	5118.14	5751.62	5604.79	346.28	1038.15	5000
209 1,4-Dichlorobenzene	6269.44	5335.95	5333.71	5063.12	6036.67	5402.23	5434.74	6054.08	5616.24	437.23	1310.82	5000
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	5480.78	4778.23	4523.89	4610.26	4708.99	4598.37	4403.58	4798.90	4737.87	327.63	982.23	5000
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	6625.17	5496.21	5400.17	6076.97	5097.51	5851.81	5558.63	6416.78	5815.41	526.81	1579.39	5000
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 237 1,2-Dichloroethene (To	11272.58	10932.23	10632.66	10962.44	10460.12	10056.98	10704.11	11567.52	10821.08	473.82	1420.50	5000
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
M 239 Total Xylene	9986.16	9975.28	9826.59	10044.02	10748.56	9852.65	10309.16	10421.85	10145.53	320.48	960.81	5000
M 240 3 and 4-Ethyltoluene	5551.45	5213.57	5306.48	5252.60	4847.12	4837.16	5094.09	5443.09	5193.07	257.39	771.62	5000
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/26may15.b/14550526a.m
Batch File: /chem/msd14.i/26may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

20ppbv

TO-15 5 & 20
5/27/15

Report Date : 27-May-2015 13:33

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Loaded 5.0mL #2716-281
200ppbv → 20ppbv

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

MDL verification: #14052716
2.5mL #2716-281
200ppbv → 10ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14052706	14052707	14052708	14052709	14052710	14052711	14052712	14052713
INJ.DATE:	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015	27-MAY-2015
INJ.TIME:	09:24	09:59	10:46	11:12	11:39	12:06	12:38	13:05

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9 Propylene	20913.41	20860.51	20241.36	20213.37	19853.50	23018.94	21884.77	20911.54	20987.17	1029.28	3082.71	20,000
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
17 Chloromethane	21472.10	21565.29	21665.14	22267.57	20244.08	22866.72	21638.55	22052.36	21721.48	755.80	2265.89	20,000

Reviewer 1 [signature] Date: 5/27/15
Reviewer 2 Date:

MB 5/27/15
$\bar{X}$ = ~~3.0~~ 3032 ppTV
$\bar{X}$ = 3.032 ppbv

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

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Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
23 Butane	19898.33	17681.88	19633.05	18134.61	19623.05	19884.17	17208.26	20308.53	19046.48	1181.36	3541.72	20,000
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
30 Chloroethane	19595.95	18926.45	16904.86	21213.83	20070.43	20628.95	21139.48	20383.02	19857.87	1416.88	4247.82	20,000
31 Isopentane	18044.73	20009.91	19359.86	19082.61	19584.71	19963.38	19041.91	19906.78	19374.24	659.26	1976.46	20,000
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 Ethanol	22284.54	23551.53	22488.09	19048.74	19764.10	22623.64	19860.19	22745.77	21545.83	1703.33	5106.59	20,000
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
52 Acetone	22033.28	19450.93	21530.89	18814.08	19471.53	21232.20	18053.60	16319.28	19613.30	1931.76	5791.41	20,000
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
57 2-Propanol	17594.24	18589.10	17338.85	17386.57	17928.39	18822.88	16415.02	16857.11	17616.52	814.97	2443.29	20,000
58 3-Chloropropene	17060.58	19374.95	16418.77	17773.49	17947.32	18253.59	17205.79	16561.49	17574.50	974.19	2920.63	20,000
59 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
66 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
71 tert-Butyl alcohol	17888.81	17858.23	15936.38	16588.05	17257.68	16973.13	16543.75	17548.69	17074.34	692.78	2076.97	20,000
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
83 Isopropyl ether	18849.37	19338.54	18825.15	18807.01	18002.67	18681.33	19172.92	18810.43	18810.93	393.01	1178.24	20,000
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
88 Ethyl-tert-butyl ether	17024.07	18499.04	16730.41	16871.13	17033.44	17501.55	17699.45	16979.55	17292.33	585.01	1753.86	20,000
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
92 2-Butanone	18239.18	16917.57	16841.42	16819.52	15204.73	18160.87	18057.39	13856.09	16887.10	1438.27	4311.95	20,000
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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111 Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 117 1,2-Dichloroethane-d4	399048	403428	400525	407751	397947	404568	404724	399009	402125	3490.08	10463.27	
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
119 tert-Amyl methyl ether	17249.01	17802.24	17381.78	16793.77	17413.53	18079.15	17152.29	16940.20	17351.50	425.58	1275.89	20,000
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
127 Methylcyclohexane	18381.94	18473.97	17104.78	17459.86	18438.15	17855.33	17765.99	17843.69	17915.46	492.61	1476.83	20,000
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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	Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL (PPTV)	RL (PPTV)
	135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	136 1,4-Dioxane	16053.89	18103.07	18256.98	17903.67	18435.60	19667.92	17696.25	18396.67	18064.26	1004.39	3011.16	20,000
	137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$	146 Toluene-d8	397676	394820	396652	394638	401172	394741	397632	396072	396550	2228.28	6680.39	
	147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
	158 2-Hexanone	14950.76	15970.38	13747.10	12928.83	13719.67	15033.77	13275.79	13840.21	14183.32	1029.99	3087.91	20,000

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159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
* 163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00	
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
$ 177 4-Bromofluorobenzene	404082	413942	404123	406935	401603	402166	403997	401641	404811	4086.42	12251.10	
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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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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206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
226 1,2,4-Trichlorobenzene	16650.28	17361.66	16890.07	16712.86	16112.75	18425.90	14586.51	17292.13	16754.02	1108.04	3321.91	20,000
227 Hexachlorobutadiene	16580.93	16104.57	13496.99	14866.69	13897.94	18463.77	15220.88	15522.54	15569.29	1581.84	4742.37	20,000
228 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference MineralS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/27may15.b/14550526a.m
Batch File: /chem/msd14.i/27may15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C9-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Naphthalene MDL (20ppbv)
6/4/15

Report Date : 04-Jun-2015 20:35

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Load 50mL of std# 2116-281
20ppbv → 20ppbv

ID:	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08
FILENAME:	14060410	14060411	14060412	14060413	14060414	14060415	14060416	14060417
ANL.DATE:	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015	04-JUN-2015
ANL.TIME:	16:59	17:24	17:45	18:09	18:27	18:54	19:12	19:31

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Hexafluoropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Propylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 1,1-Difluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Freon 12	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chlorodifluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Ethylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 114	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Chloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

MDL Verification
Spike amt: 10ppbv
from std 2116-281
25mL → 20ppbv = 10ppbv
File # 14060419

Reviewer 1 Megan Dillerson Date: 6/4/15
Reviewer 2 Date:

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
18 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 trans-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Butane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 cis-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Vinyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 3-Methyl-1-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
28 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Bromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Freon 11	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Dichlorofluoromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
39 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
40 2-Methyl-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 trans-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Ethanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1,2-Dichloro-1-fluoroe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 cis-2-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Freon 123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Freon 123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Freon 113	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 1,1-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 2,2-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 Acetone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 4-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Carbon Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
58 3-Chloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
64 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 1-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 Methylene Chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2-Methyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 tert-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 tert-Butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Methyl tert-butyl ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 trans-1,2-Dichloroethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 trans-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
76 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 cis-2-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 Hexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
79 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 sec-Butyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,1-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
86 Vinyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
87 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Isobutyl chloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 cis-1,2-Dichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 2-Butanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 2-Chloropentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 Bromochloromethane	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
99 Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Chloroform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 1-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 1,1,1-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 Chloroacetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 n-Butylchloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 Carbon Tetrachloride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 2-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 3-Methylhexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
111 Cyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
S 112 Benzene-d6	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 2,2,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 1-Methoxy-2-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
115 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
S 117 1,2-Dichloroethane-d4	384912	381756	396844	388821	378286	369975	388832	383484	385326	4005.00	12006.99
118 1-Heptene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 tert-Amyl methyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 1,2-Dichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Heptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
122 2,3-Dichloro-1-propene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,4-Difluorobenzene	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
124 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
125 Trichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Bromodichloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 Methylcyclohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 2-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 3-Methylheptane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 1,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
135 Diethyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 Bromodichloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 bis(chloromethyl) Ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1-Octene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chloroethyl Vinyl Et	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 cis-1,3-Dichloropropen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 4-Methyl-2-pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Toluene-d8	405804	400482	407828	403398	404410	403508	404226	407377	404629	2370.98	7108.18
147 Toluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
148 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 Vinyl Cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 trans-1,3-Dichloroprop	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 Ethyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-Chloro-2-Bromopropan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 Bromodichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,1,2-Trichloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Tetrachloroethene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
157 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 2-Hexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
159 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 Dibromochloromethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dibromoethane (EDB	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
162 1-Nonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Chlorobenzene-d5	400000	400000	400000	400000	400000	400000	400000	400000	400000	0.00	0.00
164 1-Chlorohexane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 Chlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
166 Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 Ethyl Benzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
168 1,1,1,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 m,p-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 o-Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
174 Bromoform	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
175 Cumene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
176 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
177 4-Bromofluorobenzene	408607	413695	408099	405786	394062	410755	407709	407606	407040	5762.27	17275.28
178 1-Decene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
179 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
180 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
181 1,1,2,2-Tetrachloroeth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
182 Propylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
183 1,4-Dichloro-2-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 trans-1,4-Dichloro-2-b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 3-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
188 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 1,3,5-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
192 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
193 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
194 alpha Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
195 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
196 1,2,4-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
197 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
199 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
200 Benzaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
201 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
202 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Isobutylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 2-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL	RL PPTV	RL PPBV
206 bis(2-Chloroethyl) Eth	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
207 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
208 1,3-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
209 1,4-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
210 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
211 1-Undecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
212 alpha-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
213 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
214 1,2-Dichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
215 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
216 4-Ethyl-1,2-dimethylbe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
217 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
218 1,3-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
219 1,4-Diethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
220 1,2,4,5-tetramethylben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
221 1,2-Dibromo-3-chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
222 1-Dodecene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
223 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
224 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
225 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
226 1,2,4-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
227 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
228 Naphthalene	22240.12	20834.79	25137.89	20402.69	22624.69	30467.05	22705.33	24455.91	23608.56	3200.97	9596.52	20.000	20.00
229 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
230 Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
231 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
232 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
233 1,3,5-Triethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
234 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
235 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
236 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 237 1,2-Dichloroethene (To	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 238 Chlorobutane (Total)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 239 Total Xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
M 240 3 and 4-Ethyltoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
241 Total Volatile Hydroca	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
242 TPH reference to Hexan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
243 TPH reference to Hepta	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
244 TPH reference to Gasol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
245 TPH reference Minerals	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
246 TPH reference to Stodd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
247 TVOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
248 TVOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
249 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
250 TVOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
251 NMOC reference to Hexa	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
252 NMOC reference to Hept	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
253 NMOC reference to Tolu	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Eurofins Air Toxics Inc.
METHOD DETECTION LIMIT SUMMARY REPORT

Method File: /chem/msd14.i/04jun15.b/14550601b.m
Batch File: /chem/msd14.i/04jun15.b
Inst ID: msd14.i

Compound	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07	MDL08	AVG CONC	STD DEV	MDL
254 C3 - C4 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
255 C4 - C5 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
256 C5 - C6 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
257 C6 - C7 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
258 C7 - C8 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
259 C8 - C9 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
260 C9 - C10 Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
261 C10+ Hydrocarbons	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
262 C5 - C6 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
263 C6-C8 Aliphatic ref He	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
264 C8-C10 Aliphatic ref D	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
265 C10-C12 Aliphatic ref	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
266 C8-C10 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
267 C8-C10 Aromatic ref 1,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
268 C10-C12 Aromatic	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
269 C10-C12 Aromatic 1,2,	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
270 C10-C12 Aromatic Naph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Client Sample ID: CCV

Lab ID#: 1510223B-14A

EPA METHOD TO-15 GC/MS

File Name:	**14101515**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 04:53 PM**

Compound	%Recovery
Freon 12	98
Freon 114	88
Chloromethane	99
Vinyl Chloride	108
1,3-Butadiene	102
Bromomethane	85
Chloroethane	94
Freon 11	99
Ethanol	94
Freon 113	92
1,1-Dichloroethene	102
Acetone	97
2-Propanol	87
Carbon Disulfide	96
3-Chloropropene	95
Methylene Chloride	93
Methyl tert-butyl ether	95
trans-1,2-Dichloroethene	96
Hexane	94
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	98
Tetrahydrofuran	83
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	95
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	97
Benzene	93
1,2-Dichloroethane	102
Heptane	94
Trichloroethene	95
1,2-Dichloropropane	94
1,4-Dioxane	98
Bromodichloromethane	95
cis-1,3-Dichloropropene	96
4-Methyl-2-pentanone	87
Toluene	94
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	96
Tetrachloroethene	93
2-Hexanone	91

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Client Sample ID: CCV

Lab ID#: 1510223B-14A

EPA METHOD TO-15 GC/MS

File Name:	**14101515**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 04:53 PM**	

Compound	**%Recovery**
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	99
Chlorobenzene	97
Ethyl Benzene	92
m,p-Xylene	95
o-Xylene	92
Styrene	93
Bromoform	92
Cumene	98
1,1,2,2-Tetrachloroethane	104
Propylbenzene	100
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	122

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	99	70-130

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-OCT-2015 16:53
Lab File ID: 14101515.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/15oct15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 117 1,2-Dichloroethane-d4	1.76205	1.89704	0.010	-7.66087	30.00000	Averaged	
$ 146 Toluene-d8	1.05900	1.09817	0.010	-3.69888	30.00000	Averaged	
$ 177 4-Bromofluorobenzene	0.57293	0.56530	0.010	1.33210	30.00000	Averaged	
9 Propylene	1.21262	1.11701	0.010	7.88463	30.00000	Averaged	
11 Freon 12	4.63752	4.54252	0.010	2.04841	30.00000	Averaged	
15 Freon 114	2.93582	2.57368	0.010	12.33518	30.00000	Averaged	
17 Chloromethane	1.55587	1.54214	0.010	0.88292	30.00000	Averaged	
23 Butane	0.41521	0.42904	0.010	-3.33122	40.00000	Averaged	
25 Vinyl Chloride	1.78443	1.93192	0.010	-8.26565	30.00000	Averaged	
26 1,3-Butadiene	1.41477	1.44462	0.010	-2.11035	30.00000	Averaged	
29 Bromomethane	1.26304	1.07806	0.010	14.64584	30.00000	Averaged	
30 Chloroethane	0.91425	0.86357	0.010	5.54336	30.00000	Averaged	
31 Isopentane	2.02910	1.81188	0.010	10.70519	40.00000	Averaged	
35 Freon 11	4.63678	4.58473	0.010	1.12250	30.00000	Averaged	
42 Ethanol	0.77577	0.72861	0.010	6.07959	30.00000	Averaged	
49 Freon 113	2.67085	2.45234	0.010	8.18131	30.00000	Averaged	
50 1,1-Dichloroethene	3.28703	3.35229	0.010	-1.98552	30.00000	Averaged	
52 Acetone	0.93838	0.91262	0.010	2.74523	30.00000	Averaged	
56 Carbon Disulfide	5.14777	4.93864	0.010	4.06260	30.00000	Averaged	
57 2-Propanol	3.10352	2.69004	0.010	13.32315	30.00000	Averaged	
58 3-Chloropropene	0.80073	0.76080	0.010	4.98585	30.00000	Averaged	
66 Methylene Chloride	2.32563	2.17331	0.010	6.54999	30.00000	Averaged	
71 tert-Butyl alcohol	2.01771	2.12323	0.010	-5.22948	40.00000	Averaged	
72 Methyl tert-butyl ether	4.22911	4.02594	0.010	4.80394	30.00000	Averaged	
73 trans-1,2-Dichloroethene	1.82411	1.76138	0.010	3.43884	30.00000	Averaged	
78 Hexane	3.24588	3.04256	0.010	6.26390	30.00000	Averaged	
83 Isopropyl ether	5.93602	5.82481	0.010	1.87342	40.00000	Averaged	
82 1,1-Dichloroethane	3.54314	3.48883	0.010	1.53276	30.00000	Averaged	
86 Vinyl Acetate	++++	0.50963	0.010	++++	30.00000	Averaged	<-
88 Ethyl-tert-butyl ether	4.30019	4.92785	0.010	-14.59608	40.00000	Averaged	
91 cis-1,2-Dichloroethene	2.84556	2.80494	0.010	1.42780	30.00000	Averaged	
92 2-Butanone	0.88727	0.86595	0.010	2.40309	30.00000	Averaged	
99 Tetrahydrofuran	2.34086	1.94013	0.010	17.11861	30.00000	Averaged	
100 Chloroform	4.09834	4.01382	0.010	2.06243	30.00000	Averaged	
102 Cyclohexane	2.78794	2.65857	0.010	4.64038	30.00000	Averaged	
103 1,1,1-Trichloroethane	4.11674	4.07714	0.010	0.96200	30.00000	Averaged	

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-OCT-2015 16:53
Lab File ID: 14101515.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/15oct15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
106 Carbon Tetrachloride	3.68436	3.43561	0.010	6.75155	30.00000	Averaged
113 2,2,4-Trimethylpentane	10.19142	9.85628	0.010	3.28839	30.00000	Averaged
116 Benzene	1.30654	1.21904	0.010	6.69704	30.00000	Averaged
119 tert-Amyl methyl ether	3.86340	4.12791	0.010	-6.84659	40.00000	Averaged
120 1,2-Dichloroethane	0.64822	0.66087	0.010	-1.95122	30.00000	Averaged
121 Heptane	0.47293	0.44498	0.010	5.90839	30.00000	Averaged
125 Trichloroethene	0.61878	0.59068	0.010	4.54152	30.00000	Averaged
127 Methylcyclohexane	0.81012	0.77058	0.010	4.88101	40.00000	Averaged
132 1,2-Dichloropropane	0.50350	0.47185	0.010	6.28626	30.00000	Averaged
136 1,4-Dioxane	0.28412	0.27880	0.010	1.87293	30.00000	Averaged
138 Bromodichloromethane	1.01021	0.95960	0.010	5.00954	30.00000	Averaged
144 cis-1,3-Dichloropropene	0.72890	0.69773	0.010	4.27652	30.00000	Averaged
145 4-Methyl-2-pentanone	0.16965	0.14773	0.010	12.92388	30.00000	Averaged
147 Toluene	1.56566	1.47092	0.010	6.05082	30.00000	Averaged
150 trans-1,3-Dichloropropene	0.69341	0.63739	0.010	8.07779	30.00000	Averaged
155 1,1,2-Trichloroethane	0.62568	0.59892	0.010	4.27661	30.00000	Averaged
156 Tetrachloroethene	0.78196	0.73031	0.010	6.60459	30.00000	Averaged
158 2-Hexanone	0.61948	0.56456	0.010	8.86568	30.00000	Averaged
160 Dibromochloromethane	1.05953	0.99447	0.010	6.14040	30.00000	Averaged
161 1,2-Dibromoethane (EDB)	0.91279	0.90072	0.010	1.32172	30.00000	Averaged
165 Chlorobenzene	1.39274	1.34734	0.010	3.25988	30.00000	Averaged
167 Ethyl Benzene	0.72902	0.67029	0.010	8.05626	30.00000	Averaged
169 m,p-Xylene	0.88348	0.83786	0.010	5.16326	30.00000	Averaged
171 o-Xylene	0.83010	0.76149	0.010	8.26511	30.00000	Averaged
172 Styrene	1.32334	1.23166	0.010	6.92776	30.00000	Averaged
174 Bromoform	0.96227	0.88906	0.010	7.60803	30.00000	Averaged
175 Cumene	2.58635	2.52584	0.010	2.33961	30.00000	Averaged
181 1,1,2,2-Tetrachloroethane	1.22868	1.27996	0.010	-4.17355	30.00000	Averaged
182 Propylbenzene	3.22773	3.23225	0.010	-0.14012	30.00000	Averaged
188 4-Ethyltoluene	2.51651	2.43684	0.010	3.16599	30.00000	Averaged
190 1,3,5-Trimethylbenzene	2.13532	2.11805	0.010	0.80864	30.00000	Averaged
196 1,2,4-Trimethylbenzene	2.00159	1.98976	0.010	0.59106	30.00000	Averaged
208 1,3-Dichlorobenzene	1.27578	1.23252	0.010	3.39075	30.00000	Averaged
209 1,4-Dichlorobenzene	1.27108	1.22547	0.010	3.58843	30.00000	Averaged
212 alpha-Chlorotoluene	1.33252	1.21818	0.010	8.58112	30.00000	Averaged

Eurofins Air Toxics Inc.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd14.i Injection Date: 15-OCT-2015 16:53
Lab File ID: 14101515.d Init. Cal. Date(s): 10-SEP-2015 10-SEP-2015
Analysis Type: AIR Init. Cal. Times: 09:13 20:31
Lab Sample ID: CCV Quant Type: ISTD
Method: /var/chem/msd14.i/15oct15.b/14550910a.m

COMPOUND	RRF / AMOUNT	RF200	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
214 1,2-Dichlorobenzene	1.16861	1.16356	0.010	0.43141	30.00000	Averaged	
226 1,2,4-Trichlorobenzene	0.60947	0.66713	0.010	-9.46067	30.00000	Averaged	
227 Hexachlorobutadiene	0.53451	0.65347	0.010	-22.25578	30.00000	Averaged	
228 Naphthalene	1.43772	0.29149	0.010	79.72551	40.00000	Averaged	<-

Average %D / Drift Results.

Calculated Average %D/Drift = 6.57214
Maximun Average %D/Drift = 30.00000
* Passed Average %D/Drift Test.

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101515.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 15-OCT-2015 16:53
Operator : GD Inst ID: msd14.i
Smp Info : 50ml #2736-239
Misc Info : 200ppbv (200ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 16-Oct-2015 12:53 ejakob Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	52116	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	40959			48.38- 108.38	78.59
4.739	4.739 (1.000)	49	83781			122.49- 182.49	160.76
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	239209	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	40416			0.00- 47.28	16.90
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	200350	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	131662			33.96- 93.96	65.72
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	98866	400.000	430.64	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	50768			22.50- 82.50	51.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	262693	400.000	414.80	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	31153			0.00- 42.36	11.86
7.621	7.621 (1.304)	100	170557			36.13- 96.13	64.93
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	113258	400.000	394.67	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	174820			113.45- 173.45	154.36
10.951	10.951 (1.115)	176	113402			68.10- 128.10	100.13
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	29107	200.000	184.23	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	18786			35.71- 95.71	64.54
1.241	1.241 (0.262)	39	21568			44.83- 104.83	74.10
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	118369	200.000	195.90	80.00- 120.00	100.00
1.269	1.269 (0.268)	87	38244			1.94- 61.94	32.31
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	67065	200.000	175.33	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	21147			2.09- 62.09	31.53
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	40185	200.000	198.23	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	12670			1.48- 61.48	31.53
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	11180	200.000	206.66	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	63875			577.93- 637.93	571.33
25 Vinyl Chloride					CAS #: 75-01-4		
1.506	1.506 (0.318)	62	50342	200.000	216.53	80.00- 120.00	100.00
1.506	1.506 (0.318)	64	16201			1.45- 61.45	32.18
26 1,3-Butadiene					CAS #: 106-99-0		
1.520	1.520 (0.321)	54	37644	200.000	204.22	80.00- 120.00	100.00
1.520	1.520 (0.321)	39	34494			71.31- 131.31	91.63
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	28092	200.000	170.71	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	26006			64.67- 124.67	92.57
1.814	1.814 (0.383)	79	5049			0.00- 47.98	17.97
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	22503	200.000	188.91	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	6994			1.09- 61.09	31.08
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	47214	200.000	178.59	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	36636			42.08- 102.08	77.60
1.912	1.912 (0.404)	72	4541			0.00- 38.91	9.62
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	119469	200.000	197.75	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	77260			34.26- 94.26	64.67
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	18986	200.000	187.84	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	4495			0.00- 52.18	23.68
2.360	2.360 (0.498)	46	8148			11.33- 71.33	42.92
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	63903	200.000	183.64	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	40646			33.38- 93.38	63.61
2.584	2.584 (0.545)	101	95032			106.88- 166.88	148.71
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	87354	200.000	203.97	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	43428			24.64- 84.64	49.71
2.612	2.612 (0.551)	98	29109			4.54- 64.54	33.32
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	23781	200.000	194.51	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	77578			297.27- 357.27	326.22
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	128691	200.000	191.87	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	70097	200.000	173.35	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	15650			0.00- 50.08	22.33
2.878	2.878 (0.607)	59	2898			0.00- 33.79	4.13
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	19825	200.000	190.03	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	48912			228.46- 288.46	246.72
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	56632	200.000	186.90	80.00- 120.00	100.00
3.172	3.172 (0.669)	84	41033			42.33- 102.33	72.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	17887			1.58- 61.58	31.58
71 tert-Butyl alcohol					CAS #: 75-65-0		
3.269	3.269 (0.690)	59	55327	200.000	210.46	80.00- 120.00	100.00
3.269	3.269 (0.690)	41	12558			0.00- 49.77	22.70
3.269	3.269 (0.690)	57	6363			0.00- 40.69	11.50
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	104908	200.000	190.39	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	25380			0.00- 54.23	24.19
3.353	3.353 (0.708)	41	22401			0.00- 52.85	21.35
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	45898	200.000	193.12	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	73846			124.68- 184.68	160.89
3.381	3.381 (0.714)	98	30082			31.63- 91.63	65.54
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	79283	200.000	187.47	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	44865			29.53- 89.53	56.59
3.577	3.577 (0.755)	86	13280			0.00- 47.08	16.75
83 Isopropyl ether					CAS #: 108-20-3		
3.843	3.843 (0.811)	45	151783	200.000	196.25	80.00- 120.00	100.00
3.857	3.857 (0.814)	87	41143			0.00- 55.21	27.11
3.843	3.843 (0.811)	59	19484			0.00- 41.77	12.84
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	90912	200.000	196.93	80.00- 120.00	100.00
3.857	3.857 (0.814)	65	27439			1.34- 61.34	30.18
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	13280	200.000		80.00- 120.00	100.00(a)
3.577	3.577 (0.755)	43	44865			321.46- 381.46	337.84
3.577	3.577 (0.755)	42	23222			153.71- 213.71	174.86
88 Ethyl-tert-butyl ether					CAS #: 637-92-3		
4.221	4.221 (0.891)	59	128410	200.000	229.19	80.00- 120.00	100.00
4.221	4.221 (0.891)	87	47281			7.67- 67.67	36.82
4.221	4.221 (0.891)	41	22799			0.00- 47.51	17.75
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	73091	200.000	197.14	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	49228			40.63- 100.63	67.35
4.487	4.487 (0.947)	98	31336			13.70- 73.70	42.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	22565	200.000	195.19	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	88522			377.26- 437.26	392.30
4.515	4.515 (0.953)	57	8209			5.15- 65.15	36.38
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	50556	200.000	165.76	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	20428			10.11- 70.11	40.41
4.725	4.725 (0.997)	72	22349			11.95- 71.95	44.21
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	104592	200.000	195.88	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	65695			32.70- 92.70	62.81
102 Cyclohexane					CAS #: 110-82-7		
4.920	4.920 (1.038)	84	69277	200.000	190.72	80.00- 120.00	100.00
4.920	4.920 (1.038)	56	83162			89.66- 149.66	120.04
4.920	4.920 (1.038)	41	42844			35.66- 95.66	61.84
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.948	4.948 (1.044)	97	106242	200.000	198.08	80.00- 120.00	100.00
4.948	4.948 (1.044)	99	66721			33.85- 93.85	62.80
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	89525	200.000	186.50	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	93385			75.43- 135.43	104.31
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	256835	200.000	193.42	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	85635			3.74- 63.74	33.34
5.326	5.326 (1.124)	41	68225			0.00- 57.60	26.56
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	145803	200.000	186.60	80.00- 120.00	100.00
5.340	5.340 (0.914)	77	34339			0.00- 54.57	23.55
119 tert-Amyl methyl ether					CAS #: 994-05-8		
5.452	5.452 (1.151)	73	107565	200.000	213.69	80.00- 120.00	100.00
5.452	5.452 (1.151)	87	26377			0.00- 53.11	24.52
5.452	5.452 (1.151)	55	33108			0.00- 55.69	30.78
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	79043	200.000	203.90	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	24559			2.82- 62.82	31.07
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	53222	200.000	188.18	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
121 Heptane (continued)							
5.564	5.564 (0.952)	43	84078			135.26- 195.26	157.98
5.564	5.564 (0.952)	100	17480			2.82- 62.82	32.84
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	70648	200.000	190.92	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	62636			62.46- 122.46	88.66
6.082	6.082 (1.041)	97	44923			34.46- 94.46	63.59
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	92165	200.000	190.24	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	44078			18.08- 78.08	47.83
6.194	6.194 (1.060)	55	78017			54.72- 114.72	84.65
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	56435	200.000	187.43	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	42848			42.01- 102.01	75.92
6.390	6.390 (1.093)	41	34452			29.49- 89.49	61.05
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	33346	200.000	196.25	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	25038			47.39- 107.39	75.09
6.530	6.530 (1.117)	57	8791			0.00- 56.09	26.36
138 Bromodichloromethane					CAS #: 75-27-4		
6.725	6.725 (1.151)	83	114773	200.000	189.98	80.00- 120.00	100.00
6.725	6.725 (1.151)	85	69838			32.69- 92.69	60.85
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	83452	200.000	191.45	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	26900			0.72- 60.72	32.23
7.327	7.327 (1.254)	39	46674			28.06- 88.06	55.93
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	17669	200.000	174.15	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	108546			626.49- 686.49	614.33
7.565	7.565 (1.294)	58	48438			241.15- 301.15	274.14
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	175929	200.000	187.90	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	103059			28.28- 88.28	58.58
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	63851	200.000	183.84	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	20485			3.40- 63.40	32.08
8.293	8.293 (0.845)	39	32468			26.11- 86.11	50.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	59997	200.000	191.45	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	37199			31.77- 91.77	62.00
8.614	8.614 (0.877)	83	54864			59.52- 119.52	91.44
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	73159	200.000	186.79	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	57053			46.35- 106.35	77.98
8.628	8.628 (0.879)	131	54040			44.43- 104.43	73.87
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	56555	200.000	182.27	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	94155			150.37- 210.37	166.48
9.006	9.006 (0.917)	100	10699			0.00- 49.21	18.92
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	99621	200.000	187.72	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	77468			47.05- 107.05	77.76
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	90230	200.000	197.36	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	82962			66.34- 126.34	91.95
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	134970	200.000	193.48	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	44011			1.70- 61.70	32.61
9.846	9.846 (1.003)	77	88424			32.92- 92.92	65.51
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	67146	200.000	183.89	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	228203			302.14- 362.14	339.86
169 m,p-Xylene					CAS #: 108-38-3		
10.083	10.083 (1.027)	106	83933	200.000	189.67	80.00- 120.00	100.00
10.083	10.083 (1.027)	91	179506			180.25- 240.25	213.87
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	76282	200.000	183.47	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	179277			199.46- 259.46	235.02
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	123382	200.000	186.14	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	71841			27.66- 87.66	58.23
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	89062	200.000	184.78	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
174 Bromoform (continued)							
10.671	10.671 (1.087)	171	45595			22.21- 82.21	51.19
175 Cumene					CAS #: 98-82-8		
10.783	10.783 (1.098)	105	253026	200.000	195.32	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	63153			0.00- 55.22	24.96
10.769	10.769 (1.097)	51	30890			0.00- 41.79	12.21
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	128220	200.000	208.35	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	80215			32.79- 92.79	62.56
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	323791	200.000	200.28	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	64000			0.00- 50.77	19.77
11.105	11.105 (1.131)	105	12035			0.00- 33.59	3.72
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	244110	200.000	193.67	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	67575			0.00- 57.71	27.68
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	212176	200.000	198.38	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	94782			15.95- 75.95	44.67
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	199324	200.000	198.82	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	83897			13.66- 73.66	42.09
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	123468	200.000	193.22	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	80008			32.83- 92.83	64.80
11.707	11.707 (1.192)	111	57261			14.66- 74.66	46.38
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	122761	200.000	192.82	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	79470			32.12- 92.12	64.74
11.763	11.763 (1.198)	111	57627			13.33- 73.33	46.94
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	122031	200.000	182.84	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	22498			0.00- 49.13	18.44
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	116560	200.000	199.14	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	73112			33.72- 93.72	62.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
214 1,2-Dichlorobenzene (continued)							
11.986	11.986 (1.221)	111	56463			16.61- 76.61	48.44
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	66830	200.000	218.92	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	61371			64.47- 124.47	91.83
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	65461	200.000	244.51	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	41232			34.58- 94.58	62.99
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	2920	20.0000	4.055	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	442			0.00- 42.78	15.14

QC Flag Legend

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

Report Date: 16-Oct-2015 12:53

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101515.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: GD
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 200ppbv (200ppbv)

Calibration Date: 15-OCT-2015
Calibration Time: 16:53
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

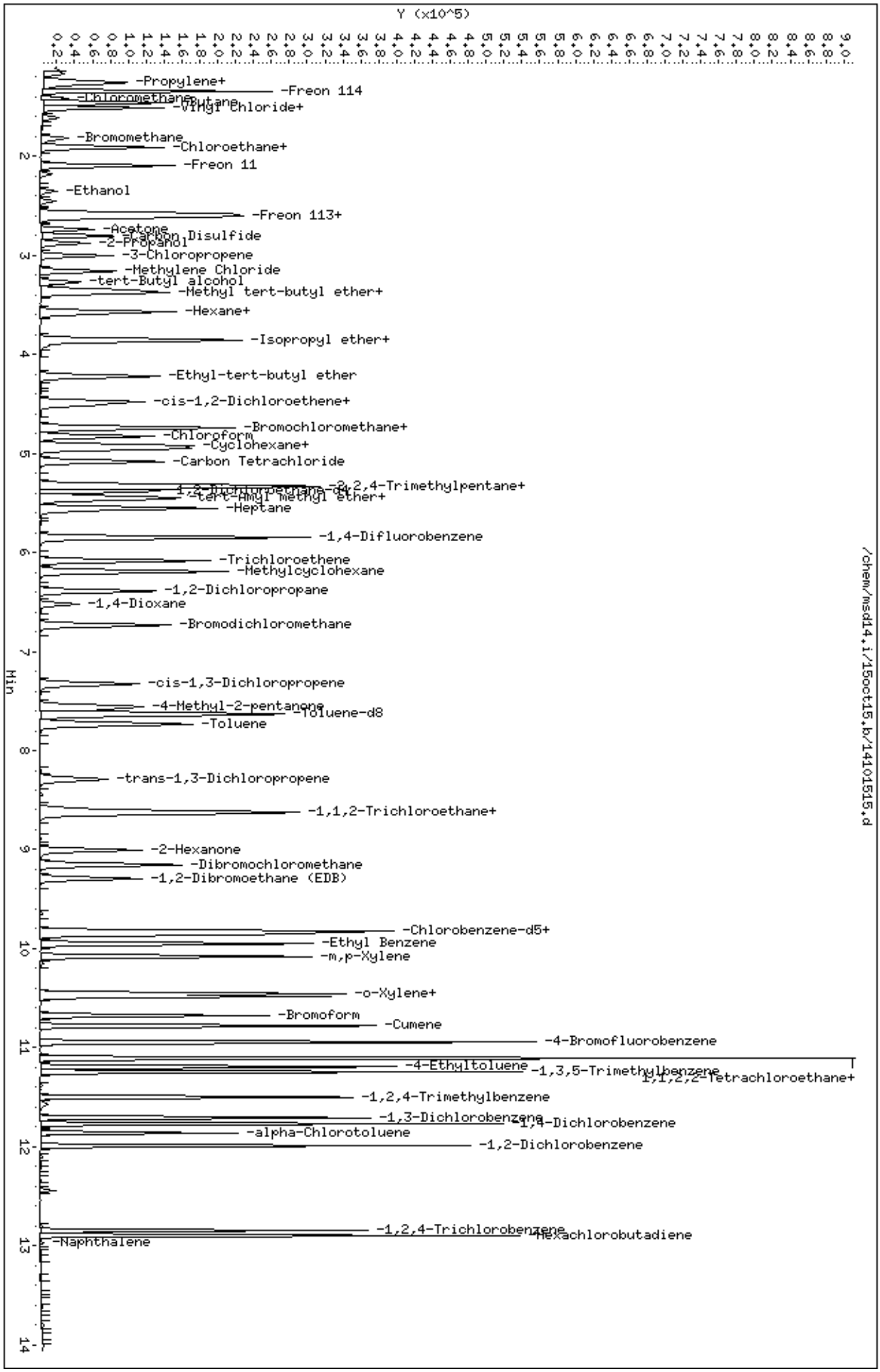
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	52116	0.00
123 1,4-Difluorobenze	239209	143525	334893	239209	0.00
163 Chlorobenzene-d5	200350	120210	280490	200350	0.00

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

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

Data File: /chem/msd14.i/15oct15.b/14101515.d
Date : 15-OCT-2015 16:53
Client ID: CCV
Sample Info: 50ml #2736-239
Column phase: RTX-624

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



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Client Sample ID: LCS

Lab ID#: 1510223B-15A

EPA METHOD TO-15 GC/MS

File Name:	**14101516**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 05:15 PM**	

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Freon 114	99	70-130
Chloromethane	105	70-130
Vinyl Chloride	121	70-130
1,3-Butadiene	109	70-130
Bromomethane	96	70-130
Chloroethane	111	70-130
Freon 11	109	70-130
Ethanol	89	70-130
Freon 113	98	70-130
1,1-Dichloroethene	107	70-130
Acetone	108	70-130
2-Propanol	98	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	90	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	94	70-130
trans-1,2-Dichloroethene	88	70-130
Hexane	99	70-130
1,1-Dichloroethane	105	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	113	70-130
Tetrahydrofuran	83	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	101	70-130
Carbon Tetrachloride	97	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	100	70-130
1,2-Dichloroethane	110	70-130
Heptane	100	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	98	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	94	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	100	70-130
trans-1,3-Dichloropropene	94	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	102	70-130
2-Hexanone	102	70-130

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Client Sample ID: LCS

Lab ID#: 1510223B-15A

EPA METHOD TO-15 GC/MS

File Name:	**14101516**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 05:15 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	98	70-130
o-Xylene	105	70-130
Styrene	97	70-130
Bromoform	99	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	109	70-130
1,2,4-Trimethylbenzene	103	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	118	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 15-Oct-2015 17:57

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCS
Client Smp ID: LCS
Level: LOW
Operator: GD
Data Type: MS DATA
SampleType: LCS
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	95.945	95.94	60-140
11 Freon 12	100.00	110.51	110.51	70-130
15 Freon 114	100.00	98.817	98.82	70-130
17 Chloromethane	100.00	105.28	105.28	70-130
23 Butane	100.00	118.23	118.23	60-140
25 Vinyl Chloride	100.00	121.18	121.18	70-130
26 1,3-Butadiene	100.00	108.88	108.89	70-130
29 Bromomethane	100.00	95.918	95.92	70-130
30 Chloroethane	100.00	110.76	110.76	70-130
31 Isopentane	100.00	97.540	97.54	60-140
35 Freon 11	100.00	109.08	109.08	70-130
42 Ethanol	100.00	89.386	89.39	70-130
49 Freon 113	100.00	98.235	98.23	70-130
50 1,1-Dichloroethene	100.00	106.71	106.71	70-130
52 Acetone	100.00	107.61	107.61	70-130
56 Carbon Disulfide	100.00	90.448	90.45	70-130
57 2-Propanol	100.00	97.974	97.97	70-130
58 3-Chloropropene	100.00	89.991	89.99	70-130
66 Methylene Chloride	100.00	103.59	103.59	70-130
72 Methyl tert-butyl	100.00	93.581	93.58	70-130
73 trans-1,2-Dichloro	100.00	87.940	87.94	70-130
78 Hexane	100.00	99.216	99.22	70-130
82 1,1-Dichloroethane	100.00	104.94	104.94	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	100.00	113.47	113.47	70-130
92 2-Butanone	100.00	97.014	97.01	70-130
99 Tetrahydrofuran	100.00	82.922	82.92	70-130
100 Chloroform	100.00	105.22	105.22	70-130
103 1,1,1-Trichloroeth	100.00	102.97	102.97	70-130
106 Carbon Tetrachlori	100.00	96.933	96.93	70-130
102 Cyclohexane	100.00	100.78	100.78	70-130
113 2,2,4-Trimethylpen	100.00	103.80	103.80	70-130
116 Benzene	100.00	99.971	99.97	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	109.77	109.77	70-130
121 Heptane	100.00	99.515	99.51	70-130
125 Trichloroethene	100.00	100.33	100.33	70-130
127 Methylcyclohexane	100.00	100.61	100.61	60-140
132 1,2-Dichloropropan	100.00	98.495	98.50	70-130
136 1,4-Dioxane	100.00	103.39	103.39	70-130
138 Bromodichlorometha	100.00	102.42	102.42	70-130
144 cis-1,3-Dichloropr	100.00	93.701	93.70	70-130
145 4-Methyl-2-pentano	100.00	94.295	94.30	70-130
147 Toluene	100.00	100.32	100.32	70-130
150 trans-1,3-Dichloro	100.00	93.920	93.92	70-130
155 1,1,2-Trichloroeth	100.00	102.75	102.75	70-130
156 Tetrachloroethene	100.00	102.43	102.43	70-130
158 2-Hexanone	100.00	102.42	102.42	70-130
160 Dibromochlorometha	100.00	98.575	98.58	70-130
161 1,2-Dibromoethane	100.00	102.44	102.44	70-130
165 Chlorobenzene	100.00	101.99	101.99	70-130
167 Ethyl Benzene	100.00	99.703	99.70	70-130
169 m,p-Xylene	100.00	97.756	97.76	70-130
171 o-Xylene	100.00	104.63	104.63	70-130
172 Styrene	100.00	97.295	97.29	70-130
174 Bromoform	100.00	98.719	98.72	70-130
175 Cumene	100.00	103.65	103.65	70-130
181 1,1,2,2-Tetrachlor	100.00	107.02	107.02	70-130
182 Propylbenzene	100.00	105.73	105.73	70-130
188 4-Ethyltoluene	100.00	104.30	104.30	70-130
190 1,3,5-Trimethylben	100.00	108.97	108.97	70-130
196 1,2,4-Trimethylben	100.00	103.06	103.06	70-130
208 1,3-Dichlorobenzen	100.00	105.88	105.88	70-130
209 1,4-Dichlorobenzen	100.00	101.87	101.87	70-130
212 alpha-Chlorotoluen	100.00	96.000	96.00	70-130
214 1,2-Dichlorobenzen	100.00	105.24	105.24	70-130
226 1,2,4-Trichloroben	100.00	113.48	113.48	70-130
227 Hexachlorobutadien	100.00	118.30	118.30	70-130
228 Naphthalene	10.000	7.143	71.43	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	427.12	106.78	70-130
$ 146 Toluene-d8	400.00	409.13	102.28	70-130
$ 177 4-Bromofluorobenze	400.00	402.26	100.56	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101516.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 15-OCT-2015 17:15
Operator : GD Inst ID: msd14.i
Smp Info : 50mL #2736-184A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 15-Oct-2015 17:13 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	49216	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	37878			48.38- 108.38	76.96
4.739	4.739 (1.000)	49	78696			122.49- 182.49	159.90
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	228859	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39686			0.00- 47.28	17.34
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	187455	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	129838			33.96- 93.96	69.26
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	92600	427.117	427.12	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	46889			22.50- 82.50	50.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	247893	409.128	409.13	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	30037			0.00- 42.36	12.12
7.621	7.621 (1.304)	100	158819			36.13- 96.13	64.07
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	108005	402.257	402.26	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	165292			113.45- 173.45	153.04
10.951	10.951 (1.115)	176	105411			68.10- 128.10	97.60
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	14315	95.9446	95.945	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	9705			35.71- 95.71	67.80
1.227	1.241 (0.259)	39	10976			44.83- 104.83	76.67
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	63058	110.512	110.51	80.00- 120.00	100.00
1.255	1.269 (0.265)	87	21251			1.94- 61.94	33.70
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	35695	98.8170	98.817	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	11426			2.09- 62.09	32.01
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	20155	105.284	105.28	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	6694			1.48- 61.48	33.21
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	6040	118.228	118.23	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	34792			577.93- 637.93	576.03
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.506 (0.318)	62	26606	121.181	121.18	80.00- 120.00	100.00
1.507	1.506 (0.318)	64	8724			1.45- 61.45	32.79
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.520 (0.321)	54	18954	108.885	108.88	80.00- 120.00	100.00
1.521	1.520 (0.321)	39	16661			71.31- 131.31	87.90
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	14906	95.9175	95.918	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	14184			64.67- 124.67	95.16
1.814	1.814 (0.383)	79	2857			0.00- 47.98	19.17
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	12459	110.757	110.76	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	3863			1.09- 61.09	31.01
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	24352	97.5405	97.540	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	19022			42.08- 102.08	78.11
1.912	1.912 (0.404)	72	2182			0.00- 38.91	8.96
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	62229	109.076	109.08	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	41513			34.26- 94.26	66.71
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	8532	89.3865	89.386	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	2077			0.00- 52.18	24.34
2.360	2.360 (0.498)	46	3374			11.33- 71.33	39.55
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	32282	98.2347	98.235	80.00- 120.00	100.00
2.598	2.584 (0.548)	153	21713			33.38- 93.38	67.26
2.584	2.584 (0.545)	101	47689			106.88- 166.88	147.73
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	43157	106.709	106.71	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	23168			24.64- 84.64	53.68
2.612	2.612 (0.551)	98	14917			4.54- 64.54	34.56
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	12425	107.615	107.61	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	36926			297.27- 357.27	297.19
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	57288	90.4478	90.448	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	37412	97.9737	97.974	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	8701			0.00- 50.08	23.26
2.878	2.878 (0.607)	59	1397			0.00- 33.79	3.73
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	8866	89.9907	89.991	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	23943			228.46- 288.46	270.05
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	29643	103.594	103.59	80.00- 120.00	100.00
3.158	3.172 (0.666)	84	20938			42.33- 102.33	70.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	9089			1.58- 61.58	30.66
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	48695	93.5814	93.581	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	12125			0.00- 54.23	24.90
3.353	3.353 (0.708)	41	11284			0.00- 52.85	23.17
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	19737	87.9396	87.940	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	31955			124.68- 184.68	161.90
3.381	3.381 (0.714)	98	12757			31.63- 91.63	64.63
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	39624	99.2156	99.216	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	22628			29.53- 89.53	57.11
3.577	3.577 (0.755)	86	7103			0.00- 47.08	17.93
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.871	3.871 (0.817)	63	45749	104.941	104.94	80.00- 120.00	100.00
3.871	3.857 (0.817)	65	13921			1.34- 61.34	30.43
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	7103			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	22628			321.46- 381.46	318.57
3.577	3.577 (0.755)	42	11371			153.71- 213.71	160.09
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	39728	113.470	113.47	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	26718			40.63- 100.63	67.25
4.487	4.487 (0.947)	98	17730			13.70- 73.70	44.63
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	10591	97.0136	97.014	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	44371			377.26- 437.26	418.95
4.515	4.515 (0.953)	57	3593			5.15- 65.15	33.93
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	23883	82.9217	82.922	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	10451			10.11- 70.11	43.76
4.725	4.725 (0.997)	72	10470			11.95- 71.95	43.84
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	53060	105.224	105.22	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	33336			32.70- 92.70	62.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.920 (1.038)	84	34571	100.782	100.78	80.00- 120.00	100.00
4.921	4.920 (1.038)	56	41795			89.66- 149.66	120.90
4.921	4.920 (1.038)	41	21243			35.66- 95.66	61.45
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.948 (1.044)	97	52155	102.967	102.97	80.00- 120.00	100.00
4.949	4.948 (1.044)	99	33340			33.85- 93.85	63.92
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	43942	96.9331	96.933	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	45805			75.43- 135.43	104.24
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	130156	103.797	103.80	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	43455			3.74- 63.74	33.39
5.326	5.326 (1.124)	41	34018			0.00- 57.60	26.14
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	74732	99.9712	99.971	80.00- 120.00	100.00
5.354	5.340 (0.916)	77	17378			0.00- 54.57	23.25
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	40710	109.766	109.77	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	12928			2.82- 62.82	31.76
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	26927	99.5147	99.515	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	41998			135.26- 195.26	155.97
5.564	5.564 (0.952)	100	8874			2.82- 62.82	32.96
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	35520	100.329	100.33	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	32725			62.46- 122.46	92.13
6.082	6.082 (1.041)	97	23659			34.46- 94.46	66.61
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	46635	100.613	100.61	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	22538			18.08- 78.08	48.33
6.194	6.194 (1.060)	55	38919			54.72- 114.72	83.45
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	28374	98.4951	98.495	80.00- 120.00	100.00
6.404	6.390 (1.096)	62	21673			42.01- 102.01	76.38
6.390	6.390 (1.093)	41	17309			29.49- 89.49	61.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	16807	103.389	103.39	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	12909			47.39- 107.39	76.81
6.530	6.530 (1.117)	57	4275			0.00- 56.09	25.44
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.725 (1.151)	83	59198	102.420	102.42	80.00- 120.00	100.00
6.726	6.725 (1.151)	85	36244			32.69- 92.69	61.23
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	39077	93.7006	93.701	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	12453			0.72- 60.72	31.87
7.327	7.327 (1.254)	39	21392			28.06- 88.06	54.74
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	9153	94.2953	94.295	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	55336			626.49- 686.49	604.57
7.565	7.565 (1.294)	58	22425			241.15- 301.15	245.00
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	89867	100.322	100.32	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	52730			28.28- 88.28	58.68
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	30520	93.9203	93.920	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	9847			3.40- 63.40	32.26
8.293	8.293 (0.845)	39	15617			26.11- 86.11	51.17
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	30127	102.746	102.75	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	18767			31.77- 91.77	62.29
8.614	8.614 (0.877)	83	28893			59.52- 119.52	95.90
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	37537	102.433	102.43	80.00- 120.00	100.00
8.628	8.628 (0.879)	129	27222			46.35- 106.35	72.52
8.614	8.628 (0.877)	131	27486			44.43- 104.43	73.22
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	29733	102.417	102.42	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	51011			150.37- 210.37	171.56
9.006	9.006 (0.917)	100	5749			0.00- 49.21	19.34
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	48946	98.5751	98.575	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	39197			47.05- 107.05	80.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	43822	102.444	102.44	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	42065			66.34- 126.34	95.99
165 Chlorobenzene					CAS #: 108-90-7		
9.860	9.860 (1.004)	112	66567	101.988	101.99	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	20799			1.70- 61.70	31.25
9.846	9.846 (1.003)	77	45868			32.92- 92.92	68.91
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	34063	99.7028	99.703	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	115420			302.14- 362.14	338.84
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.083 (1.027)	106	40474	97.7557	97.756	80.00- 120.00	100.00
10.084	10.083 (1.027)	91	89727			180.25- 240.25	221.69
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	40701	104.626	104.63	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	91580			199.46- 259.46	225.01
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	60339	97.2946	97.295	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	36210			27.66- 87.66	60.01
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	44518	98.7188	98.719	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	23233			22.21- 82.21	52.19
175 Cumene					CAS #: 98-82-8		
10.769	10.783 (1.097)	105	125630	103.650	103.65	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	31086			0.00- 55.22	24.74
10.769	10.769 (1.097)	51	15618			0.00- 41.79	12.43
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	61622	107.019	107.02	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	39397			32.79- 92.79	63.93
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	159927	105.727	105.73	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	32534			0.00- 50.77	20.34
11.105	11.105 (1.131)	105	6001			0.00- 33.59	3.75
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	123007	104.302	104.30	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	33364			0.00- 57.71	27.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	109044	108.969	108.97	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	49228			15.95- 75.95	45.15
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	96672	103.060	103.06	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	41817			13.66- 73.66	43.26
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	63304	105.881	105.88	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	39998			32.83- 92.83	63.18
11.707	11.707 (1.192)	111	29032			14.66- 74.66	45.86
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	60679	101.866	101.87	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	39455			32.12- 92.12	65.02
11.763	11.763 (1.198)	111	27505			13.33- 73.33	45.33
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.860	11.860 (1.208)	91	59949	95.9997	96.000	80.00- 120.00	100.00
11.860	11.860 (1.208)	126	10778			0.00- 49.13	17.98
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	57634	105.238	105.24	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	36236			33.72- 93.72	62.87
11.986	11.986 (1.221)	111	28171			16.61- 76.61	48.88
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	32412	113.479	113.48	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	30638			64.47- 124.47	94.53
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	29632	118.296	118.30	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	18639			34.58- 94.58	62.90
228 Naphthalene					CAS #: 91-20-3		
12.966	12.966 (1.321)	128	4813	7.14340	7.143	80.00- 120.00	100.00(a)
12.966	12.966 (1.321)	127	582			0.00- 42.78	12.09

QC Flag Legend

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

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101516.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: GD
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 15-OCT-2015
Calibration Time: 16:53
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

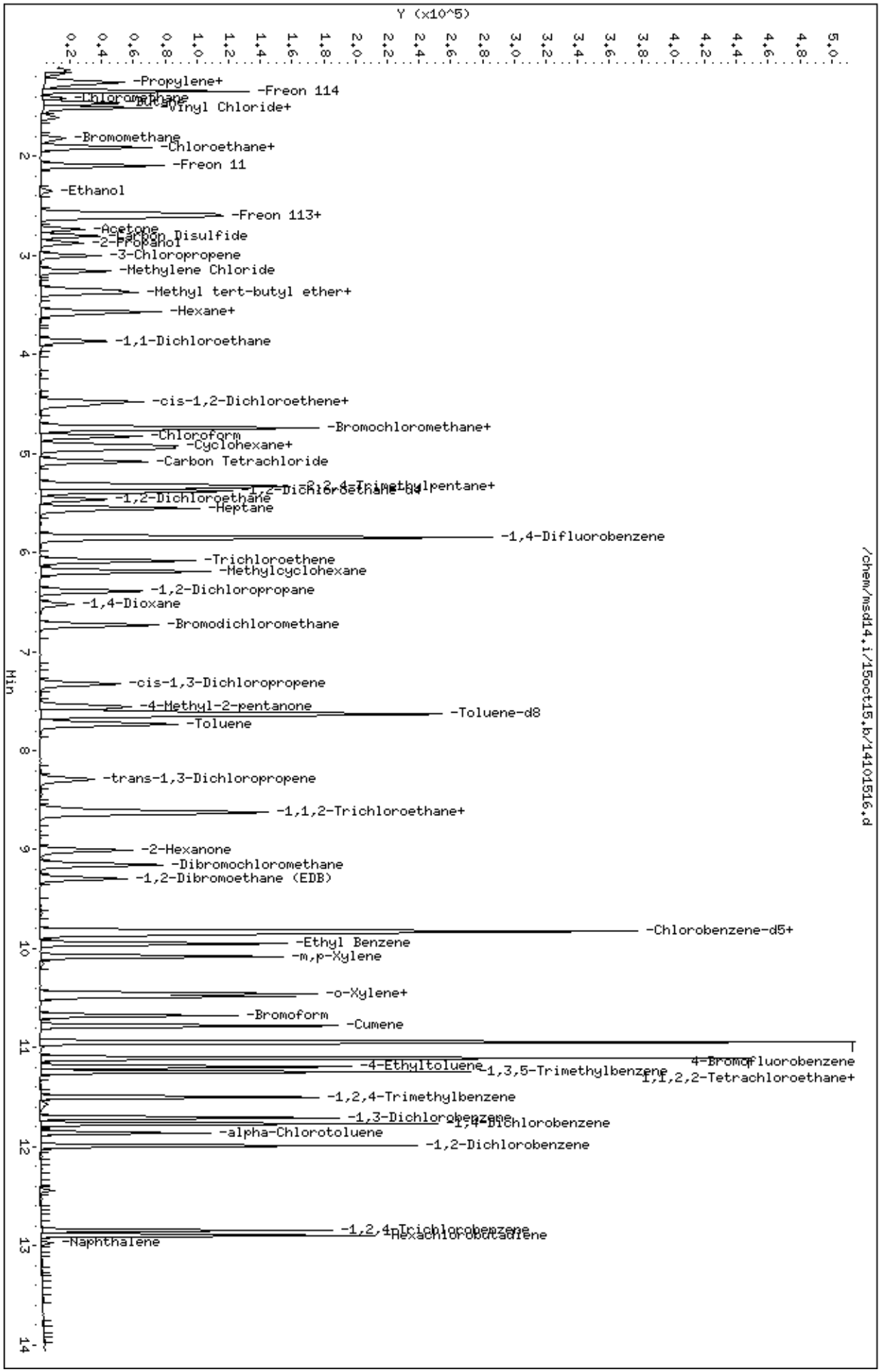
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	49216	-5.56
123 1,4-Difluorobenze	239209	143525	334893	228859	-4.33
163 Chlorobenzene-d5	200350	120210	280490	187455	-6.44

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

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

Data File: /chem/msd14.i/15oct15.b/14101516.d
Date : 15-OCT-2015 17:15
Client ID: LCS
Sample Info: 50mL #2736-184A
Column phase: RTX-624

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



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Client Sample ID: LCSD

Lab ID#: 1510223B-15AA

EPA METHOD TO-15 GC/MS

File Name:	**14101517**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 05:57 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	99	70-130
Chloromethane	105	70-130
Vinyl Chloride	121	70-130
1,3-Butadiene	104	70-130
Bromomethane	96	70-130
Chloroethane	108	70-130
Freon 11	107	70-130
Ethanol	88	70-130
Freon 113	98	70-130
1,1-Dichloroethene	105	70-130
Acetone	105	70-130
2-Propanol	97	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	93	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	92	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	95	70-130
1,1-Dichloroethane	105	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	112	70-130
Tetrahydrofuran	85	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	103	70-130
Cyclohexane	101	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	103	70-130
Benzene	100	70-130
1,2-Dichloroethane	107	70-130
Heptane	98	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	105	70-130
Bromodichloromethane	102	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	91	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	92	70-130
1,1,2-Trichloroethane	98	70-130
Tetrachloroethene	97	70-130
2-Hexanone	96	70-130

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Client Sample ID: LCSD

Lab ID#: 1510223B-15AA

EPA METHOD TO-15 GC/MS

File Name:	**14101517**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/15/15 05:57 PM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	94	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	98	70-130
o-Xylene	99	70-130
Styrene	98	70-130
Bromoform	95	70-130
Cumene	102	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	105	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	94	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	100	70-130
Hexachlorobutadiene	107	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

Report Date: 15-Oct-2015 18:22

Eurofins Air Toxics Inc.

RECOVERY REPORT

Client Name:
Client SDG: 15oct15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: LCSD
Client Smp ID: LCSD
Level: LOW
Operator: GD
Data Type: MS DATA
SampleType: LCSD
SpikeList File: 2926Spectra.spk
Quant Type: ISTD
Sublist File: AT12.sub
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
9 Propylene	100.00	97.803	97.80	60-140
11 Freon 12	100.00	107.54	107.54	70-130
15 Freon 114	100.00	98.798	98.80	70-130
17 Chloromethane	100.00	105.22	105.22	70-130
23 Butane	100.00	113.12	113.12	60-140
25 Vinyl Chloride	100.00	121.16	121.16	70-130
26 1,3-Butadiene	100.00	104.19	104.19	70-130
29 Bromomethane	100.00	96.392	96.39	70-130
30 Chloroethane	100.00	108.01	108.01	70-130
31 Isopentane	100.00	94.850	94.85	60-140
35 Freon 11	100.00	106.93	106.93	70-130
42 Ethanol	100.00	88.140	88.14	70-130
49 Freon 113	100.00	98.122	98.12	70-130
50 1,1-Dichloroethene	100.00	104.91	104.91	70-130
52 Acetone	100.00	105.26	105.26	70-130
56 Carbon Disulfide	100.00	89.804	89.80	70-130
57 2-Propanol	100.00	96.948	96.95	70-130
58 3-Chloropropene	100.00	93.187	93.19	70-130
66 Methylene Chloride	100.00	101.10	101.10	70-130
72 Methyl tert-butyl	100.00	91.779	91.78	70-130
73 trans-1,2-Dichloro	100.00	85.488	85.49	70-130
78 Hexane	100.00	94.906	94.91	70-130
82 1,1-Dichloroethane	100.00	105.21	105.21	70-130
86 Vinyl Acetate	100.00	0.000	0.00*	60-140
91 cis-1,2-Dichloroet	100.00	112.24	112.24	70-130
92 2-Butanone	100.00	93.336	93.34	70-130
99 Tetrahydrofuran	100.00	85.044	85.04	70-130
100 Chloroform	100.00	103.40	103.40	70-130
103 1,1,1-Trichloroeth	100.00	102.66	102.66	70-130
106 Carbon Tetrachlori	100.00	94.330	94.33	70-130
102 Cyclohexane	100.00	100.98	100.99	70-130
113 2,2,4-Trimethylpen	100.00	102.60	102.60	70-130
116 Benzene	100.00	100.20	100.20	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
120 1,2-Dichloroethane	100.00	107.40	107.40	70-130
121 Heptane	100.00	98.404	98.40	70-130
125 Trichloroethene	100.00	101.40	101.40	70-130
127 Methylcyclohexane	100.00	98.439	98.44	60-140
132 1,2-Dichloropropan	100.00	101.30	101.30	70-130
136 1,4-Dioxane	100.00	105.27	105.27	70-130
138 Bromodichlorometha	100.00	102.38	102.38	70-130
144 cis-1,3-Dichloropr	100.00	90.400	90.40	70-130
145 4-Methyl-2-pentano	100.00	91.443	91.44	70-130
147 Toluene	100.00	98.897	98.90	70-130
150 trans-1,3-Dichloro	100.00	92.035	92.03	70-130
155 1,1,2-Trichloroeth	100.00	98.181	98.18	70-130
156 Tetrachloroethene	100.00	97.396	97.40	70-130
158 2-Hexanone	100.00	96.442	96.44	70-130
160 Dibromochlorometha	100.00	94.391	94.39	70-130
161 1,2-Dibromoethane	100.00	98.464	98.46	70-130
165 Chlorobenzene	100.00	99.011	99.01	70-130
167 Ethyl Benzene	100.00	96.746	96.75	70-130
169 m,p-Xylene	100.00	98.209	98.21	70-130
171 o-Xylene	100.00	99.261	99.26	70-130
172 Styrene	100.00	97.615	97.61	70-130
174 Bromoform	100.00	94.916	94.92	70-130
175 Cumene	100.00	101.79	101.79	70-130
181 1,1,2,2-Tetrachlor	100.00	107.42	107.42	70-130
182 Propylbenzene	100.00	103.85	103.85	70-130
188 4-Ethyltoluene	100.00	99.775	99.78	70-130
190 1,3,5-Trimethylben	100.00	104.93	104.93	70-130
196 1,2,4-Trimethylben	100.00	101.04	101.04	70-130
208 1,3-Dichlorobenzen	100.00	99.558	99.56	70-130
209 1,4-Dichlorobenzen	100.00	103.18	103.18	70-130
212 alpha-Chlorotoluen	100.00	94.473	94.47	70-130
214 1,2-Dichlorobenzen	100.00	100.38	100.38	70-130
226 1,2,4-Trichloroben	100.00	100.30	100.30	70-130
227 Hexachlorobutadien	100.00	107.11	107.11	70-130
228 Naphthalene	10.000	6.695	66.95	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 117 1,2-Dichloroethane	400.00	432.55	108.14	70-130
$ 146 Toluene-d8	400.00	409.61	102.40	70-130
$ 177 4-Bromofluorobenze	400.00	394.11	98.53	70-130

Eurofins Air Toxics Inc.

EPA TO-15/MODIFIED TO14A

Data file : /chem/msd14.i/15oct15.b/14101517.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 15-OCT-2015 17:57
Operator : GD Inst ID: msd14.i
Smp Info : 50mL #2736-184A
Misc Info : 100ppbv (100ppbv)
Comment : 5 and 20 - GC/MS
Method : /var/chem/msd14.i/15oct15.b/14550910a.m
Meth Date : 15-Oct-2015 17:13 mskidmor Quant Type: ISTD
Cal Date : 10-SEP-2015 20:31 Cal File: 14091019.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT12.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
* 98 Bromochloromethane					CAS #: 74-97-5		
4.739	4.739 (1.000)	130	49286	400.000		80.00- 120.00	100.00
4.739	4.739 (1.000)	128	37998			48.38- 108.38	77.10
4.739	4.739 (1.000)	49	79017			122.49- 182.49	160.32
* 123 1,4-Difluorobenzene					CAS #: 540-36-3		
5.844	5.844 (1.000)	114	228545	400.000		80.00- 120.00	100.00
5.844	5.844 (1.000)	88	39148			0.00- 47.28	17.13
* 163 Chlorobenzene-d5					CAS #: 3114-55-4		
9.818	9.818 (1.000)	117	194160	400.000		80.00- 120.00	100.00
9.818	9.818 (1.000)	82	127763			33.96- 93.96	65.80
$ 117 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
5.382	5.382 (1.136)	65	93912	432.553	432.55	80.00- 120.00	100.00
5.382	5.382 (1.136)	67	47159			22.50- 82.50	50.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 146 Toluene-d8					CAS #: 2037-26-5		
7.621	7.621 (1.304)	98	247847	409.614	409.61	80.00- 120.00	100.00
7.621	7.621 (1.304)	70	29225			0.00- 42.36	11.79
7.621	7.621 (1.304)	100	158227			36.13- 96.13	63.84
$ 177 4-Bromofluorobenzene					CAS #: 460-00-4		
10.951	10.951 (1.115)	174	109603	394.111	394.11	80.00- 120.00	100.00
10.937	10.937 (1.114)	95	163578			113.45- 173.45	149.25
10.951	10.951 (1.115)	176	106790			68.10- 128.10	97.43
9 Propylene					CAS #: 115-07-1		
1.241	1.241 (0.262)	41	14613	97.8029	97.803	80.00- 120.00	100.00
1.241	1.241 (0.262)	42	9147			35.71- 95.71	62.59
1.241	1.241 (0.262)	39	11395			44.83- 104.83	77.98
11 Freon 12					CAS #: 75-71-8		
1.269	1.269 (0.268)	85	61452	107.544	107.54	80.00- 120.00	100.00
1.255	1.269 (0.265)	87	20279			1.94- 61.94	33.00
15 Freon 114					CAS #: 76-14-2		
1.353	1.353 (0.285)	135	35739	98.7983	98.798	80.00- 120.00	100.00
1.353	1.353 (0.285)	137	11442			2.09- 62.09	32.02
17 Chloromethane					CAS #: 74-87-3		
1.423	1.423 (0.300)	50	20172	105.223	105.22	80.00- 120.00	100.00
1.423	1.423 (0.300)	52	6401			1.48- 61.48	31.73
23 Butane					CAS #: 106-97-8		
1.479	1.479 (0.312)	58	5787	113.115	113.12	80.00- 120.00	100.00
1.479	1.479 (0.312)	43	33990			577.93- 637.93	587.35
25 Vinyl Chloride					CAS #: 75-01-4		
1.507	1.506 (0.318)	62	26640	121.164	121.16	80.00- 120.00	100.00
1.507	1.506 (0.318)	64	8392			1.45- 61.45	31.50
26 1,3-Butadiene					CAS #: 106-99-0		
1.521	1.520 (0.321)	54	18163	104.193	104.19	80.00- 120.00	100.00
1.521	1.520 (0.321)	39	16279			71.31- 131.31	89.63
29 Bromomethane					CAS #: 74-83-9		
1.814	1.814 (0.383)	94	15001	96.3917	96.392	80.00- 120.00	100.00
1.814	1.814 (0.383)	96	14376			64.67- 124.67	95.83
1.814	1.814 (0.383)	79	2723			0.00- 47.98	18.15
30 Chloroethane					CAS #: 75-00-3		
1.898	1.898 (0.401)	64	12167	108.007	108.01	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
30 Chloroethane (continued)							
1.898	1.898 (0.401)	66	3301			1.09- 61.09	27.13
31 Isopentane					CAS #: 78-78-4		
1.912	1.912 (0.404)	43	23714	94.8501	94.850	80.00- 120.00	100.00
1.912	1.912 (0.404)	57	19064			42.08- 102.08	80.39
1.912	1.912 (0.404)	72	2355			0.00- 38.91	9.93
35 Freon 11					CAS #: 75-69-4		
2.094	2.094 (0.442)	101	61092	106.931	106.93	80.00- 120.00	100.00
2.094	2.094 (0.442)	103	39083			34.26- 94.26	63.97
42 Ethanol					CAS #: 64-17-5		
2.360	2.360 (0.498)	45	8425	88.1402	88.140	80.00- 120.00	100.00
2.360	2.360 (0.498)	43	1786			0.00- 52.18	21.20
2.346	2.360 (0.495)	46	3624			11.33- 71.33	43.01
49 Freon 113					CAS #: 76-13-1		
2.584	2.584 (0.545)	151	32291	98.1225	98.122	80.00- 120.00	100.00
2.584	2.584 (0.545)	153	20161			33.38- 93.38	62.44
2.584	2.584 (0.545)	101	47297			106.88- 166.88	146.47
50 1,1-Dichloroethene					CAS #: 75-35-4		
2.612	2.612 (0.551)	61	42491	104.913	104.91	80.00- 120.00	100.00
2.612	2.612 (0.551)	96	22929			24.64- 84.64	53.96
2.612	2.612 (0.551)	98	14331			4.54- 64.54	33.73
52 Acetone					CAS #: 67-64-1		
2.738	2.738 (0.578)	58	12170	105.256	105.26	80.00- 120.00	100.00
2.738	2.738 (0.578)	43	37301			297.27- 357.27	306.50
56 Carbon Disulfide					CAS #: 75-15-0		
2.808	2.808 (0.593)	76	56961	89.8038	89.804	80.00- 120.00	100.00
57 2-Propanol					CAS #: 67-63-0		
2.878	2.878 (0.607)	45	37073	96.9480	96.948	80.00- 120.00	100.00
2.878	2.878 (0.607)	43	9420			0.00- 50.08	25.41
2.878	2.878 (0.607)	59	1477			0.00- 33.79	3.98
58 3-Chloropropene					CAS #: 107-05-1		
3.004	3.004 (0.634)	76	9194	93.1874	93.187	80.00- 120.00	100.00
3.004	3.004 (0.634)	41	23517			228.46- 288.46	255.79
66 Methylene Chloride					CAS #: 75-09-2		
3.158	3.158 (0.666)	49	28970	101.098	101.10	80.00- 120.00	100.00
3.158	3.172 (0.666)	84	20646			42.33- 102.33	71.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
66 Methylene Chloride (continued)							
3.158	3.158 (0.666)	51	8766			1.58- 61.58	30.26
72 Methyl tert-butyl ether					CAS #: 1634-04-4		
3.353	3.353 (0.708)	73	47825	91.7789	91.779	80.00- 120.00	100.00
3.353	3.353 (0.708)	57	11968			0.00- 54.23	25.02
3.353	3.353 (0.708)	41	10962			0.00- 52.85	22.92
73 trans-1,2-Dichloroethene					CAS #: 156-60-5		
3.381	3.381 (0.714)	96	19214	85.4878	85.488	80.00- 120.00	100.00
3.381	3.381 (0.714)	61	31949			124.68- 184.68	166.28
3.381	3.381 (0.714)	98	12866			31.63- 91.63	66.96
78 Hexane					CAS #: 110-54-3		
3.577	3.577 (0.755)	57	37957	94.9066	94.906	80.00- 120.00	100.00
3.577	3.577 (0.755)	43	22691			29.53- 89.53	59.78
3.577	3.577 (0.755)	86	6797			0.00- 47.08	17.91
82 1,1-Dichloroethane					CAS #: 75-34-3		
3.857	3.871 (0.814)	63	45933	105.214	105.21	80.00- 120.00	100.00
3.871	3.857 (0.817)	65	14333			1.34- 61.34	31.20
86 Vinyl Acetate					CAS #: 108-05-4		
3.577	3.577 (0.755)	86	6797			80.00- 120.00	100.00(aR)
3.577	3.577 (0.755)	43	22691			321.46- 381.46	333.84
3.577	3.577 (0.755)	42	11801			153.71- 213.71	173.62
91 cis-1,2-Dichloroethene					CAS #: 156-59-2		
4.487	4.487 (0.947)	61	39352	112.237	112.24	80.00- 120.00	100.00
4.487	4.487 (0.947)	96	27081			40.63- 100.63	68.82
4.487	4.487 (0.947)	98	17758			13.70- 73.70	45.13
92 2-Butanone					CAS #: 78-93-3		
4.515	4.515 (0.953)	72	10204	93.3359	93.336	80.00- 120.00	100.00
4.515	4.515 (0.953)	43	44125			377.26- 437.26	432.43
4.515	4.515 (0.953)	57	3752			5.15- 65.15	36.77
99 Tetrahydrofuran					CAS #: 109-99-9		
4.725	4.725 (0.997)	42	24529	85.0436	85.044	80.00- 120.00	100.00
4.725	4.725 (0.997)	71	10214			10.11- 70.11	41.64
4.725	4.725 (0.997)	72	11381			11.95- 71.95	46.40
100 Chloroform					CAS #: 67-66-3		
4.823	4.823 (1.018)	83	52215	103.401	103.40	80.00- 120.00	100.00
4.823	4.823 (1.018)	85	32544			32.70- 92.70	62.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
102 Cyclohexane					CAS #: 110-82-7		
4.921	4.920 (1.038)	84	34690	100.985	100.98	80.00- 120.00	100.00
4.921	4.920 (1.038)	56	41859			89.66- 149.66	120.67
4.921	4.920 (1.038)	41	21417			35.66- 95.66	61.74
103 1,1,1-Trichloroethane					CAS #: 71-55-6		
4.949	4.948 (1.044)	97	52074	102.661	102.66	80.00- 120.00	100.00
4.949	4.948 (1.044)	99	33861			33.85- 93.85	65.02
106 Carbon Tetrachloride					CAS #: 56-23-5		
5.088	5.088 (1.074)	119	42823	94.3304	94.330	80.00- 120.00	100.00
5.088	5.088 (1.074)	117	46324			75.43- 135.43	108.18
113 2,2,4-Trimethylpentane					CAS #: 540-84-1		
5.326	5.326 (1.124)	57	128838	102.600	102.60	80.00- 120.00	100.00
5.326	5.326 (1.124)	56	43854			3.74- 63.74	34.04
5.326	5.326 (1.124)	41	34547			0.00- 57.60	26.81
116 Benzene					CAS #: 71-43-2		
5.354	5.354 (0.916)	78	74797	100.196	100.20	80.00- 120.00	100.00
5.354	5.340 (0.916)	77	18275			0.00- 54.57	24.43
120 1,2-Dichloroethane					CAS #: 107-06-2		
5.466	5.466 (0.935)	62	39777	107.398	107.40	80.00- 120.00	100.00
5.466	5.466 (0.935)	64	12550			2.82- 62.82	31.55
121 Heptane					CAS #: 142-82-5		
5.564	5.564 (0.952)	71	26590	98.4042	98.404	80.00- 120.00	100.00
5.564	5.564 (0.952)	43	41552			135.26- 195.26	156.27
5.564	5.564 (0.952)	100	8782			2.82- 62.82	33.03
125 Trichloroethene					CAS #: 79-01-6		
6.082	6.082 (1.041)	95	35849	101.398	101.40	80.00- 120.00	100.00
6.082	6.082 (1.041)	130	31569			62.46- 122.46	88.06
6.082	6.082 (1.041)	97	23210			34.46- 94.46	64.74
127 Methylcyclohexane					CAS #: 108-87-2		
6.194	6.194 (1.060)	83	45565	98.4393	98.439	80.00- 120.00	100.00
6.194	6.194 (1.060)	98	21875			18.08- 78.08	48.01
6.194	6.194 (1.060)	55	39825			54.72- 114.72	87.40
132 1,2-Dichloropropane					CAS #: 78-87-5		
6.390	6.390 (1.093)	63	29143	101.304	101.30	80.00- 120.00	100.00
6.390	6.390 (1.093)	62	22031			42.01- 102.01	75.60
6.390	6.390 (1.093)	41	17599			29.49- 89.49	60.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
136 1,4-Dioxane					CAS #: 123-91-1		
6.530	6.530 (1.117)	88	17089	105.268	105.27	80.00- 120.00	100.00
6.530	6.530 (1.117)	58	12888			47.39- 107.39	75.42
6.530	6.530 (1.117)	57	4258			0.00- 56.09	24.92
138 Bromodichloromethane					CAS #: 75-27-4		
6.726	6.725 (1.151)	83	59095	102.383	102.38	80.00- 120.00	100.00
6.726	6.725 (1.151)	85	35300			32.69- 92.69	59.73
144 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
7.327	7.327 (1.254)	75	37649	90.4005	90.400	80.00- 120.00	100.00
7.327	7.327 (1.254)	77	12834			0.72- 60.72	34.09
7.327	7.327 (1.254)	39	20814			28.06- 88.06	55.28
145 4-Methyl-2-pentanone					CAS #: 108-10-1		
7.565	7.565 (1.294)	85	8864	91.4435	91.443	80.00- 120.00	100.00
7.565	7.565 (1.294)	43	54892			626.49- 686.49	619.27
7.565	7.565 (1.294)	58	23462			241.15- 301.15	264.69
147 Toluene					CAS #: 108-88-3		
7.733	7.733 (1.323)	91	88469	98.8968	98.897	80.00- 120.00	100.00
7.733	7.733 (1.323)	92	50851			28.28- 88.28	57.48
150 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
8.293	8.293 (0.845)	75	30977	92.0347	92.035	80.00- 120.00	100.00
8.293	8.293 (0.845)	77	9910			3.40- 63.40	31.99
8.293	8.293 (0.845)	39	15101			26.11- 86.11	48.75
155 1,1,2-Trichloroethane					CAS #: 79-00-5		
8.614	8.614 (0.877)	97	29818	98.1808	98.181	80.00- 120.00	100.00
8.614	8.614 (0.877)	99	19015			31.77- 91.77	63.77
8.614	8.614 (0.877)	83	28168			59.52- 119.52	94.47
156 Tetrachloroethene					CAS #: 127-18-4		
8.628	8.628 (0.879)	166	36968	97.3965	97.396	80.00- 120.00	100.00
8.614	8.628 (0.877)	129	27726			46.35- 106.35	75.00
8.628	8.628 (0.879)	131	27979			44.43- 104.43	75.68
158 2-Hexanone					CAS #: 591-78-6		
9.006	9.006 (0.917)	58	29000	96.4425	96.442	80.00- 120.00	100.00
9.006	9.006 (0.917)	43	50856			150.37- 210.37	175.37
9.006	9.006 (0.917)	100	5832			0.00- 49.21	20.11
160 Dibromochloromethane					CAS #: 124-48-1		
9.160	9.160 (0.933)	129	48545	94.3913	94.391	80.00- 120.00	100.00
9.160	9.160 (0.933)	127	38290			47.05- 107.05	78.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dibromoethane (EDB)					CAS #: 106-93-4		
9.300	9.300 (0.947)	107	43626	98.4636	98.464	80.00- 120.00	100.00
9.300	9.300 (0.947)	109	41392			66.34- 126.34	94.88
165 Chlorobenzene					CAS #: 108-90-7		
9.846	9.860 (1.003)	112	66935	99.0107	99.011	80.00- 120.00	100.00
9.860	9.860 (1.004)	114	21542			1.70- 61.70	32.18
9.846	9.846 (1.003)	77	44193			32.92- 92.92	66.02
167 Ethyl Benzene					CAS #: 100-41-4		
9.944	9.944 (1.013)	106	34235	96.7458	96.746	80.00- 120.00	100.00
9.944	9.944 (1.013)	91	114213			302.14- 362.14	333.61
169 m,p-Xylene					CAS #: 108-38-3		
10.084	10.083 (1.027)	106	42116	98.2088	98.209	80.00- 120.00	100.00
10.084	10.083 (1.027)	91	90399			180.25- 240.25	214.64
171 o-Xylene					CAS #: 95-47-6		
10.461	10.461 (1.066)	106	39995	99.2608	99.261	80.00- 120.00	100.00
10.461	10.461 (1.066)	91	90472			199.46- 259.46	226.21
172 Styrene					CAS #: 100-42-5		
10.489	10.489 (1.068)	104	62703	97.6149	97.615	80.00- 120.00	100.00
10.489	10.489 (1.068)	78	37090			27.66- 87.66	59.15
174 Bromoform					CAS #: 75-25-2		
10.671	10.671 (1.087)	173	44334	94.9157	94.916	80.00- 120.00	100.00
10.671	10.671 (1.087)	171	22659			22.21- 82.21	51.11
175 Cumene					CAS #: 98-82-8		
10.769	10.783 (1.097)	105	127792	101.793	101.79	80.00- 120.00	100.00
10.783	10.783 (1.098)	120	30548			0.00- 55.22	23.90
10.769	10.769 (1.097)	51	15793			0.00- 41.79	12.36
181 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
11.105	11.105 (1.131)	83	64063	107.416	107.42	80.00- 120.00	100.00
11.105	11.105 (1.131)	85	40476			32.79- 92.79	63.18
182 Propylbenzene					CAS #: 103-65-1		
11.105	11.105 (1.131)	91	162712	103.854	103.85	80.00- 120.00	100.00
11.105	11.105 (1.131)	120	32274			0.00- 50.77	19.84
11.105	11.105 (1.131)	105	5627			0.00- 33.59	3.46
188 4-Ethyltoluene					CAS #: 622-96-8		
11.189	11.189 (1.140)	105	121877	99.7754	99.775	80.00- 120.00	100.00
11.203	11.203 (1.141)	120	33297			0.00- 57.71	27.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
190 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
11.245	11.245 (1.145)	105	108762	104.934	104.93	80.00- 120.00	100.00
11.245	11.245 (1.145)	120	46758			15.95- 75.95	42.99
196 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
11.511	11.511 (1.172)	105	98163	101.035	101.04	80.00- 120.00	100.00
11.511	11.511 (1.172)	120	41612			13.66- 73.66	42.39
208 1,3-Dichlorobenzene					CAS #: 541-73-1		
11.707	11.707 (1.192)	146	61653	99.5584	99.558	80.00- 120.00	100.00
11.707	11.707 (1.192)	148	39359			32.83- 92.83	63.84
11.707	11.707 (1.192)	111	28165			14.66- 74.66	45.68
209 1,4-Dichlorobenzene					CAS #: 106-46-7		
11.763	11.763 (1.198)	146	63659	103.178	103.18	80.00- 120.00	100.00
11.763	11.763 (1.198)	148	39267			32.12- 92.12	61.68
11.763	11.763 (1.198)	111	27730			13.33- 73.33	43.56
212 alpha-Chlorotoluene					CAS #: 100-44-7		
11.861	11.860 (1.208)	91	61106	94.4733	94.473	80.00- 120.00	100.00
11.861	11.860 (1.208)	126	11015			0.00- 49.13	18.03
214 1,2-Dichlorobenzene					CAS #: 95-50-1		
11.986	11.986 (1.221)	146	56942	100.384	100.38	80.00- 120.00	100.00
11.986	11.986 (1.221)	148	37549			33.72- 93.72	65.94
11.986	11.986 (1.221)	111	28199			16.61- 76.61	49.52
226 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
12.840	12.840 (1.308)	180	29674	100.305	100.30	80.00- 120.00	100.00
12.840	12.840 (1.308)	182	28044			64.47- 124.47	94.51
227 Hexachlorobutadiene					CAS #: 87-68-3		
12.896	12.896 (1.314)	225	27790	107.111	107.11	80.00- 120.00	100.00
12.896	12.896 (1.314)	223	18034			34.58- 94.58	64.89
228 Naphthalene					CAS #: 91-20-3		
12.980	12.966 (1.322)	128	4672	6.69467	6.695	80.00- 120.00	100.00(a)
12.980	12.966 (1.322)	127	667			0.00- 42.78	14.28

QC Flag Legend

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

Report Date: 15-Oct-2015 18:22

Eurofins Air Toxics Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd14.i
Lab File ID: 14101517.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: GD
Method File: /var/chem/msd14.i/15oct15.b/14550910a.m
Misc Info: 100ppbv (100ppbv)

Calibration Date: 15-OCT-2015
Calibration Time: 16:53
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

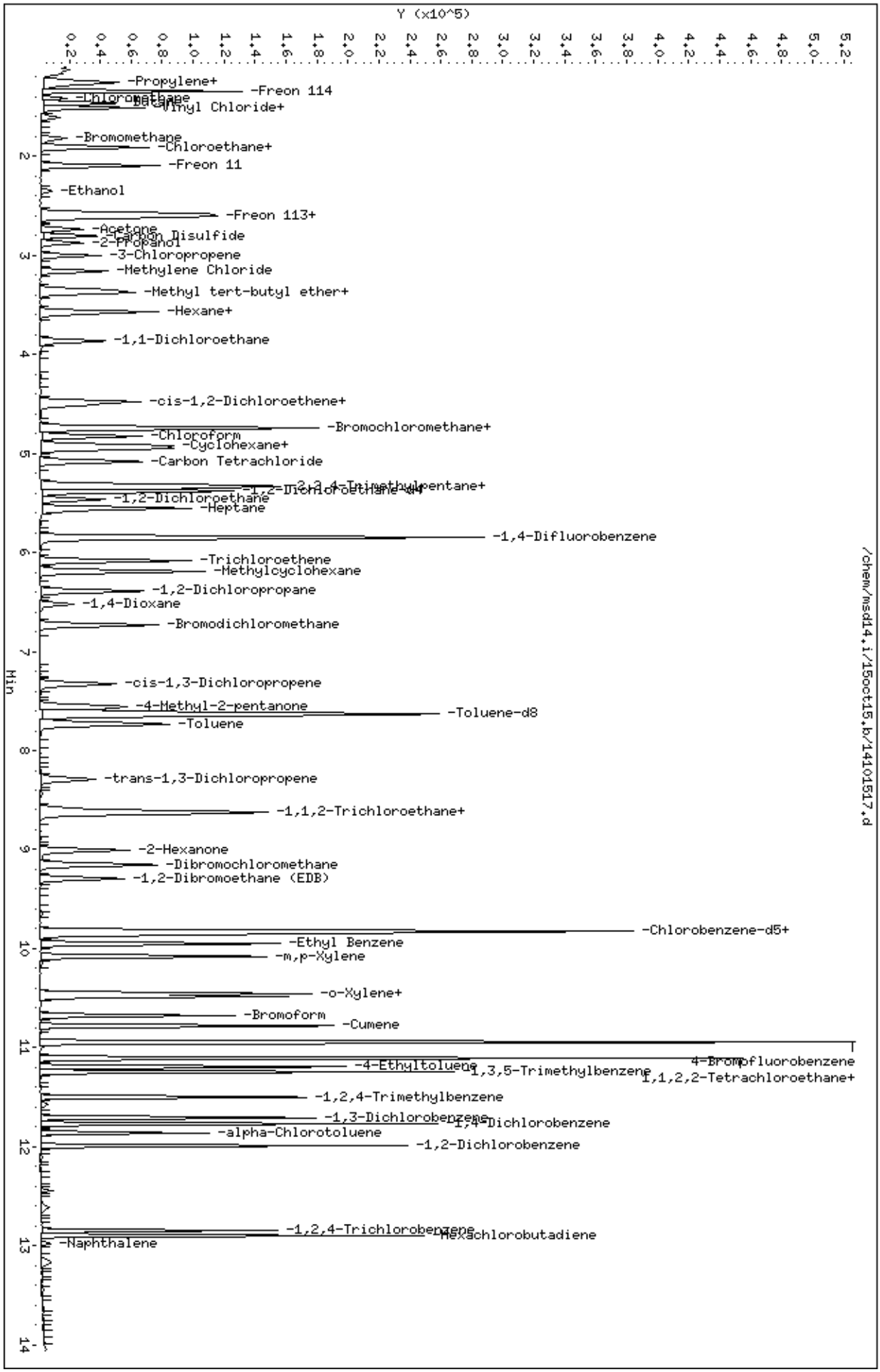
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
98 Bromochloromethan	52116	31270	72962	49286	-5.43
123 1,4-Difluorobenze	239209	143525	334893	228545	-4.46
163 Chlorobenzene-d5	200350	120210	280490	194160	-3.09

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

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

Data File: /chem/msd14.i/15oct15.b/14101517.d
Date : 15-OCT-2015 17:57
Client ID: LCSD
Sample Info: 50mL #2736-184A
Column phase: RTX-624

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



Eurofins Air Toxics, Inc. **MSD-14** **Logbook #: 2756**

BFB Verification of 176/174 m/z Ratio: 55842 / 58426 x100 = 95.58%	
Method Name:	

IS/S Std. #: 2736-293	Exp. Date: 1/7/16
BCM	52116
1,4-DFB	239209
CB-d5	202350
Verified CCV IS vs ICAL mid-point (-40%D): gd	

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

Calculation Check: File ID: 14101515 Compound: tol.-d8 Initials: gd

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(262693)}{(239209)} \times \frac{(400)}{(1.05900)}$ = Reported Result: 414.80

	Use	File	Lab ID#	Can#	Pressure	Amount Loaded	Verified Vol Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
1	/	14101514	BFB tune check	2249 1265	50 ng	2.0 µL	NA	1.00	gd	10/15/15	1629	gd	
2	/	15	CCV (200ppbv)	2736-239	200 ppbv	50 mL					1653		Exp. 11/20/15 Ø out, No Nap, VA
3	/	16	LCS (100ppbv)	2736-184A	100 ppbv						1715		Exp. 10/30/15 Ø out, No Nap, VA
4	/	17	LCSD								1757		
5	/	18	Lab Blank	34496	Humid						1836		
6	/	19	1510081-15A	37427	6.9"Hg-14.2psi	50 mL		2.00			1912		
7	X	20	1510134A-09A	~~2077~~ 2077 ~~gd 10/15/15~~	5.1"Hg-15.3psi	10 mL		12.3			1943		overdil.
8	/	21	-09A			25 mL		4.92			2029		Dil TC
9	X	22	-10A	35665	2.8"Hg-14.9psi	25 mL		6.44			2101		overrange
10	X	23	-10A			7.0 mL		15.8			2131		overdil.
11	/	24	-10A			15 mL		7.40			2211		Dil TC
12	C	25	-09A	2077	5.1"Hg-15.3psi	25 mL		4.92			2235		
13	✓	26	-11A	37360	3.9"Hg-15.1psi	12.5 mL		9.32	AG	10/16/15	0801	CB	
14	✓	27	-12A	37715	3.3"Hg-14.9psi	7 mL		16.1	CB		0823	CB	Dil TC; 'E' Effect 10mL
15	✓	28	-13A	34652	3.3"Hg-14.6psi	5 mL		22.4	CB		0847	CB	Dil TC 10mL

Reviewed 10/16/15 Date

Eurofins Air Toxics, Inc. **MSD-14** **Logbook #: 2756**

	Use	File	Lab ID#	Can#	Pressure	Amount Loaded	Verified Vol Loaded	DF	Loaded By Initials	Date Analyzed	Time Analyzed	Reviewed By Initials	Comments/Standard Expiration Date
16	✓	14101529	1510134A-14A	35688	3.3"Hg-14.6psi	1mL	NA	112 ~~[illegible]~~	CB	10/16/15	0907	CB	Dil TC 1mL
17	✓	30	-15A	8015	3.7"Hg-15psi	1mL		115	CB		0926	CB	Dil TC 1mL
18	✓	31	-16A	3059	4.5"Hg-14.8psi	2mL		59.0	CB		0948	CB	Dil TC 10mL
19	✓	32	-17A	34606	3.5"Hg-14.6psi	1mL		112	CB		1019	CB	Dil TC 1mL
20	✓	33	-18A	31770	3.5"Hg-14.5psi	3mL		37.5	CB		1044	CB	Dil TC 10mL
21	✓	34	-19A	36483	2.8"Hg-14.8psi	1mL		111	CB		1106	CB	Dil TC 1mL
22	✓	35	-20A	36438	4.1"Hg-15.2psi	0.5mL		235	CB		1125	CB	Dil TC 1mL
23	✓	36	1510129-01A	Vial 189126	Vial	25mL		2.00	CB		1203	CB	
24	✓	37	-02A	189355	↓	↓		↓	CB		1231	CB	
25	X	38	Naph CCV	2736-297	20ppbv	0.5mL		1.00	CB		1253	CB	exp 11/9/16
26	✓	39	System Blank	34446	Humid	50mL		↓	CB		1311	CB	
27	✓	40	1510129-03A	191130	Vial	25mL		2.00	CB		1409	CB	
28	✓	41	15102238-11A	12362	5.1"Hg-15psi	15mL		8.10	CB		1437	CB	Dil matrix 25mL
29	✓	42	-12A	36541	4.3"Hg-15psi	15mL		7.87	CB		1500	CB	dil Matrix 25mL
30		~~43~~	~~1510134-01A~~	~~Vial~~	~~18345-2 15233~~	~~25mL~~	~~NA~~	~~2.00~~	~~CB~~				
31													
32													
33													
34													
35													
36												CB 10/16/15	

Reviewed 10/16/15 Date

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/10sep15.b/14091001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-SEP-2015 08:34
Operator : mjs Inst ID: msd14.i
Smp Info : 2.0ml #2299-1265;BFB;BFB
Misc Info : 50ng
Comment :
Method : /chem/msd14.i/10sep15.b/bfb20.m
Meth Date : 08-Sep-2015 17:42 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.468	2.483	-0.015	95	132472			100.00- 100.00	100.00
2.468	2.483	-0.015	50	32736			8.00- 40.00	24.71
2.468	2.483	-0.015	75	72904			30.00- 66.00	55.03
2.468	2.483	-0.015	96	8799			5.00- 9.00	6.64
2.468	2.483	-0.015	173	946			0.00- 1.99	1.23
2.468	2.483	-0.015	174	77146			50.01- 120.00	58.24
2.468	2.483	-0.015	175	5963			4.00- 9.00	7.73
2.468	2.483	-0.015	176	75200			93.00- 101.00	97.48
2.468	2.483	-0.015	177	5163			5.00- 9.00	6.87

Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

Client ID: BFB

Instrument: msd14.i

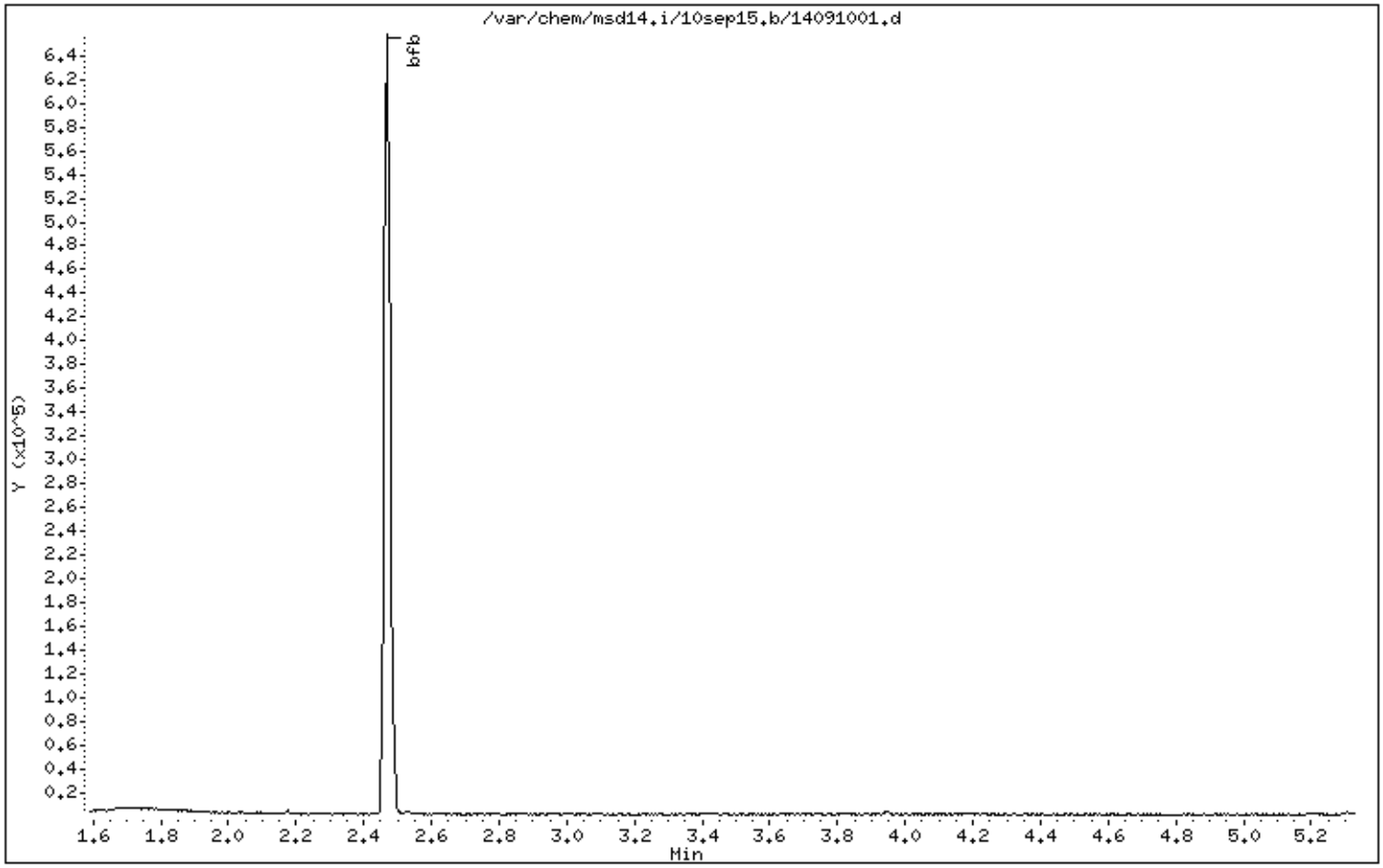
Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

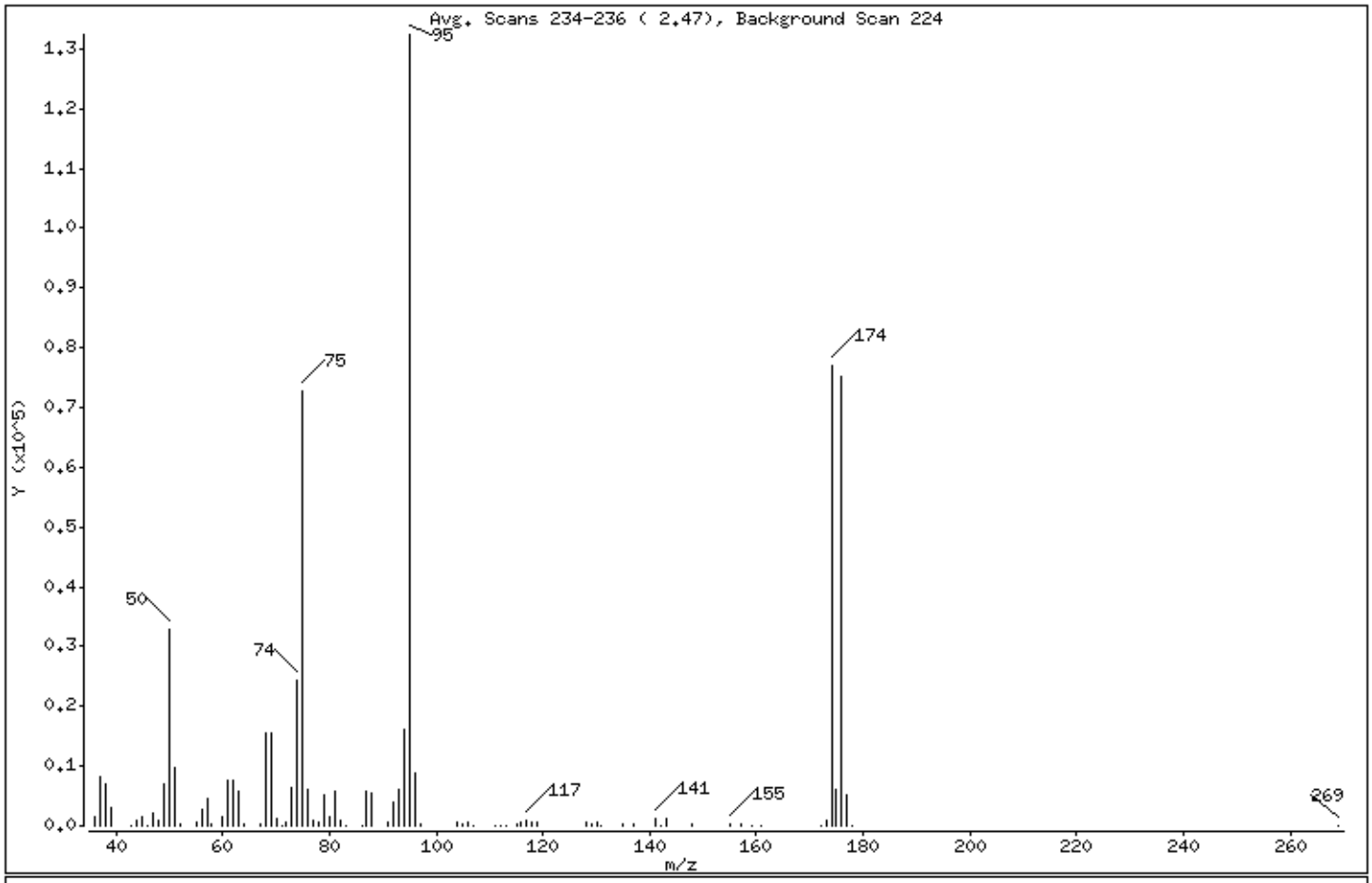
Client ID: BFB Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0 Operator: mjs

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.71
75	30.00 - 66.00% of mass 95	55.03
96	5.00 - 9.00% of mass 95	6.64
173	Less than 1.99% of mass 174	0.71 (1.23)
174	50.01 - 120.00% of mass 95	58.24
175	4.00 - 9.00% of mass 174	4.50 (7.73)
176	93.00 - 101.00% of mass 174	56.77 (97.48)
177	5.00 - 9.00% of mass 176	3.90 (6.87)

Data File: /var/chem/msd14.i/10sep15.b/14091001.d

Date : 10-SEP-2015 08:34

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: mjs

Column phase:

Column diameter: 2.00

Data File: 14091001.d
Spectrum: Avg. Scans 234-236 (2.47), Background Scan 224
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1554	64.00	412	92.00	3925	135.00	289
37.00	8325	67.00	446	93.00	6032	137.00	224
38.00	7119	68.00	15528	94.00	16156	141.00	1340
39.00	2953	69.00	15516	95.00	132416	142.00	146
43.00	139	70.00	1249	96.00	8799	143.00	1270
44.00	918	71.00	62	97.00	315	148.00	271
45.00	1477	72.00	755	104.00	704	155.00	322
46.00	88	73.00	6259	105.00	186	157.00	174
47.00	2233	74.00	24408	106.00	649	159.00	54
48.00	953	75.00	72904	107.00	115	161.00	149
49.00	7138	76.00	6071	111.00	135	172.00	122
50.00	32736	77.00	856	112.00	121	173.00	946
51.00	9685	78.00	472	113.00	144	174.00	77144
52.00	436	79.00	5271	115.00	219	175.00	5963
55.00	571	80.00	1457	116.00	652	176.00	75200
56.00	2635	81.00	5680	117.00	765	177.00	5163
57.00	4445	82.00	1007	118.00	492	178.00	79
58.00	172	83.00	139	119.00	670	269.00	56
60.00	1593	86.00	113	128.00	462		
61.00	7574	87.00	5656	129.00	265		
62.00	7603	88.00	5555	130.00	457		
63.00	5712	91.00	576	131.00	56		

Eurofins Air Toxics Inc.

Data file : /var/chem/msd14.i/15oct15.b/14101514.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-OCT-2015 16:29
Operator : GD Inst ID: msd14.i
Smp Info : 2.0ml #2299-1265;BFB;BFB
Misc Info : 50ng
Comment :
Method : /var/chem/msd14.i/15oct15.b/bfb20.m
Meth Date : 15-Oct-2015 16:40 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
2.430	2.483	-0.053	95	96381			100.00- 100.00	100.00
2.430	2.483	-0.053	50	22261			8.00- 40.00	23.10
2.430	2.483	-0.053	75	51061			30.00- 66.00	52.98
2.430	2.483	-0.053	96	6650			5.00- 9.00	6.90
2.430	2.483	-0.053	173	536			0.00- 1.99	0.92
2.430	2.483	-0.053	174	58426			50.01- 120.00	60.62
2.430	2.483	-0.053	175	4094			4.00- 9.00	7.01
2.430	2.483	-0.053	176	55842			93.00- 101.00	95.58
2.430	2.483	-0.053	177	3843			5.00- 9.00	6.88

Data File: /var/chem/msd14.i/15oct15.b/14101514.d

Date : 15-OCT-2015 16:29

Client ID: BFB

Instrument: msd14.i

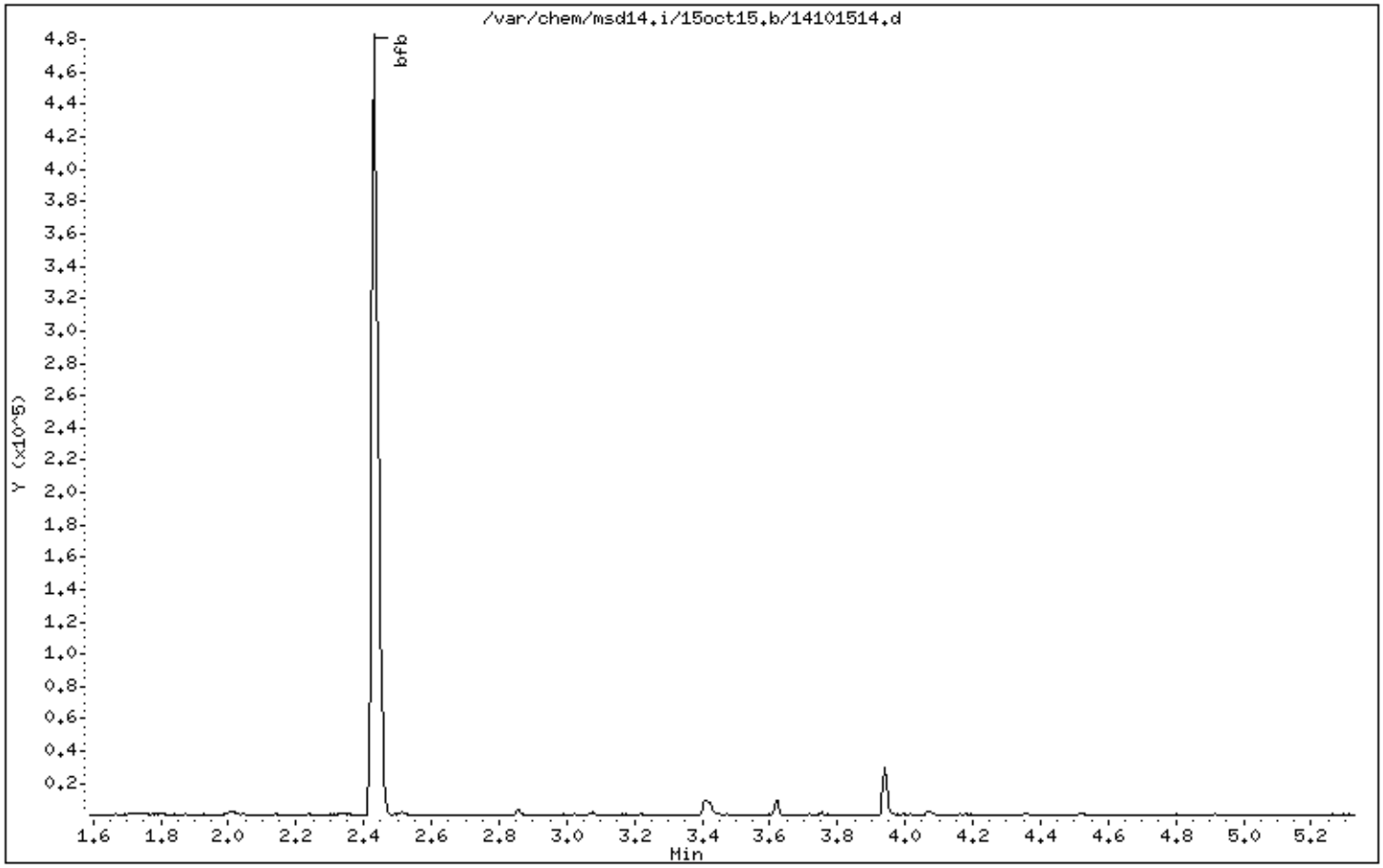
Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: GD

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd14.i/15oct15.b/14101514.d

Date : 15-OCT-2015 16:29

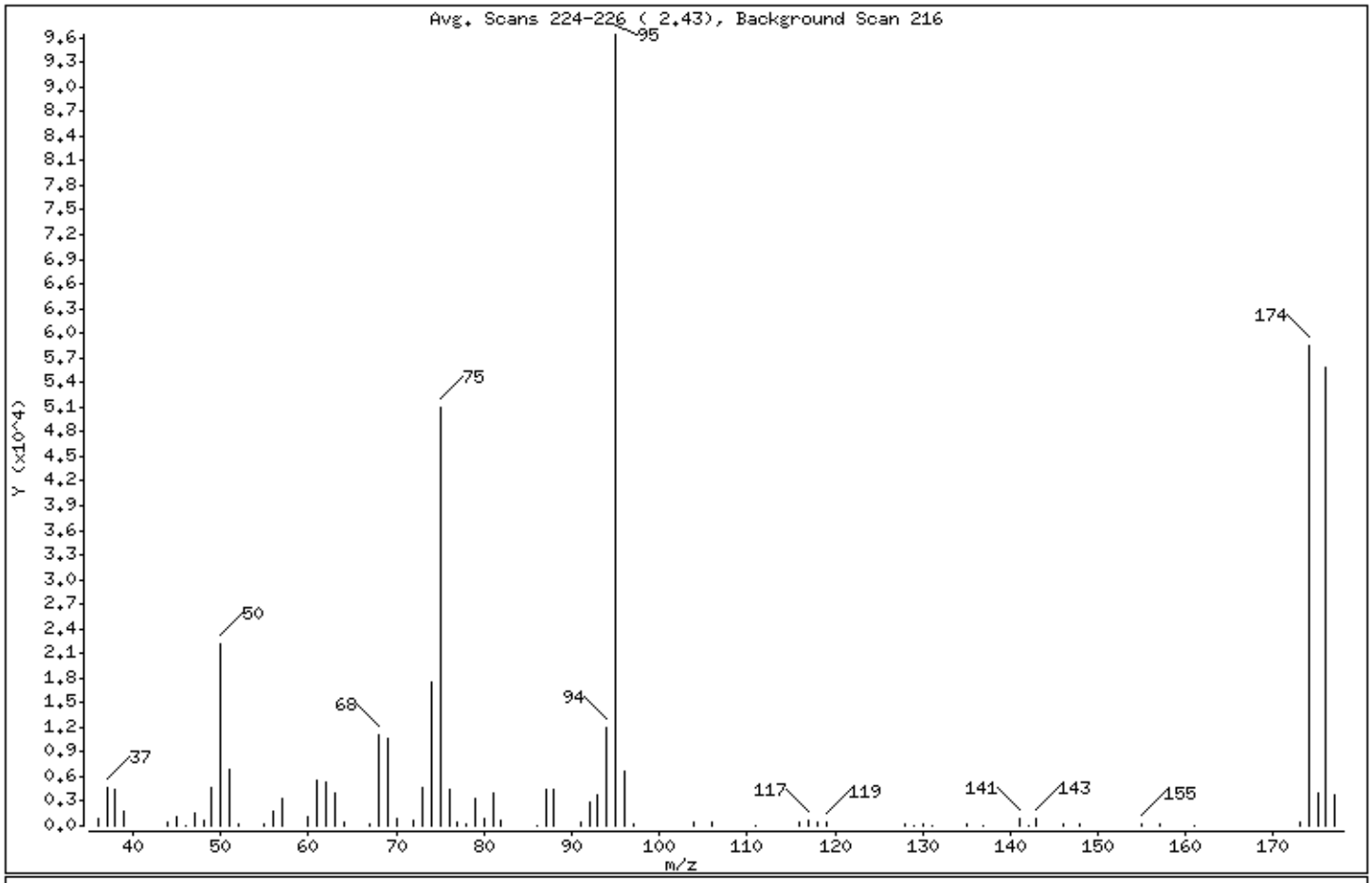
Client ID: BFB Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0 Operator: GD

Column phase: Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.10
75	30.00 - 66.00% of mass 95	52.98
96	5.00 - 9.00% of mass 95	6.90
173	Less than 1.99% of mass 174	0.56 (0.92)
174	50.01 - 120.00% of mass 95	60.62
175	4.00 - 9.00% of mass 174	4.25 (7.01)
176	93.00 - 101.00% of mass 174	57.94 (95.58)
177	5.00 - 9.00% of mass 176	3.99 (6.88)

Data File: /var/chem/msd14.i/15oct15.b/14101514.d

Date : 15-OCT-2015 16:29

Client ID: BFB

Instrument: msd14.i

Sample Info: 2.0ml #2299-1265;BFB;BFB

Volume Injected (uL): 1.0

Operator: GD

Column phase:

Column diameter: 2.00

Data File: 14101514.d
Spectrum: Avg. Scans 224-226 (2.43), Background Scan 216
Location of Maximum: 95.00
Number of points: 72

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	919	63.00	3908	88.00	4376	135.00	111
37.00	4649	64.00	360	91.00	429	137.00	65
38.00	4375	67.00	255	92.00	2868	141.00	818
39.00	1719	68.00	11169	93.00	3869	142.00	52
44.00	519	69.00	10666	94.00	12044	143.00	991
45.00	1090	70.00	899	95.00	96376	146.00	192
46.00	62	72.00	645	96.00	6650	148.00	259
47.00	1599	73.00	4574	97.00	115	155.00	155
48.00	684	74.00	17504	104.00	409	157.00	135
49.00	4745	75.00	51056	106.00	541	161.00	73
50.00	22256	76.00	4458	111.00	50	173.00	536
51.00	6968	77.00	516	116.00	396	174.00	58424
52.00	276	78.00	321	117.00	578	175.00	4094
55.00	273	79.00	3401	118.00	368	176.00	55840
56.00	1795	80.00	953	119.00	469	177.00	3843
57.00	3249	81.00	3927	128.00	265		
60.00	1022	82.00	741	129.00	79		
61.00	5446	86.00	51	130.00	324		
62.00	5251	87.00	4405	131.00	110		

Shipping/ Receiving Documents

Eurofins Air Toxics, Inc. Sample Receipt Confirmation Cover Page

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

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

For corrections call: **Brian Whittaker at 916-985-1000**

EATL will proceed with the analysis as specified on the Chain of Custody (COC) and Sample Receipt Summary page.

Please note : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the COC will be provided with the final report.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 P.M. PST

eurofins | Air Toxics

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Terry Taylor
Collected by: (Print and Sign) Terry Taylor
Company AMAI Email
Address City State Zip
Phone Fax

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

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)
10A	BSSSV-2100915	11427	10/9/15	1623	DO NOT ANALYZE	18	3		
11A	BSSSV-2101015	12362	10/10/15	1315	TO-15, CH_4, VAP	30	5.5		
12A	BSSSV-2D101015	36541	10/10/15	1315	TO-15, CH_4, VAP	30	5		

ATL 10-12-15

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	10/12/15 12:00	UPS ATL	101315 0945
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Shipped via Fed Ex by AMAI
Tracking no. 774714639650 [signature]

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		N/A	Good	Yes No None	1510223

Form 1293 rev.11

eurofins | Air Toxics

SAMPLE RECEIPT SUMMARY

WORKORDER 1510223B

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: 10/16/15 2:00 pm
Date Completed: 10/16/15
Date Received: 10/13/15
PO#:
Project#: BMS VI

Total $: $ 0.00
Logged By: MH

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
10A(cancelled	B8SSV-2100915	TO-15	10/9/2015		$0.00
11A	B8SSV-2101015	TO-15	10/10/2015	5.1 "Hg	$0.00
12A	B8SSV-2D101015	TO-15	10/10/2015	4.3 "Hg	$0.00
13A	Lab Blank	TO-15	NA	NA	$0.00
14A	CCV	TO-15	NA	NA	$0.00
15A	LCS	TO-15	NA	NA	$0.00
15AA	LCSD	TO-15	NA	NA	$0.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: BMS/19256

BILL TO: Accounts Payable
Anderson Mulholland & Associates, Inc.
2700 Westchester Avenue
Suite 417
Purchase, NY 10577

Analysis Code: TO-14A

TERMS: NET 30

Reporting Method: TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

DILUTION FACTORS

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

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59
4.2	1.04	1.31	1.57
4.4	1.03	1.29	1.55
4.6	1.02	1.28	1.54
4.8	1.01	1.27	1.52
5.0	1.00	1.25	1.51
5.2	NA	1.24	1.49
5.4	NA	1.23	1.48
5.6	NA	1.22	1.46
5.8	NA	1.20	1.45
6.0	NA	1.19	1.43
6.2	NA	1.18	1.42
6.4	NA	1.17	1.41
6.6	NA	1.16	1.39
6.8	NA	1.15	1.38
7.0	NA	1.14	1.37
7.2	NA	1.13	1.36
7.4	NA	1.12	1.34

Initial Pressure (psi)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
7.6	NA	1.11	1.33
7.8	NA	1.10	1.32
8.0	NA	1.09	1.31
8.2	NA	1.08	1.30
8.4	NA	1.07	1.29
8.6	NA	1.06	1.27
8.8	NA	1.05	1.26
9.0	NA	1.04	1.25
9.2	NA	1.03	1.24
9.4	NA	1.02	1.23
9.6	NA	1.02	1.22
9.8	NA	1.01	1.21
10.0	NA	1.00	1.20
10.2	NA	NA	1.19
10.4	NA	NA	1.18
10.6	NA	NA	1.17
10.8	NA	NA	1.16
11.0	NA	NA	1.16
11.2	NA	NA	1.15
11.4	NA	NA	1.14
11.6	NA	NA	1.13
11.8	NA	NA	1.12
12.0	NA	NA	1.11
12.2	NA	NA	1.10
12.4	NA	NA	1.10
12.6	NA	NA	1.09
12.8	NA	NA	1.08
13.0	NA	NA	1.07
13.2	NA	NA	1.06
13.4	NA	NA	1.06
13.6	NA	NA	1.05
13.8	NA	NA	1.04
14.0	NA	NA	1.03
14.2	NA	NA	1.03
14.4	NA	NA	1.02
14.6	NA	NA	1.01
14.8	NA	NA	1.01

Compound Listing

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
75-35-4	1,1-Dichloroethene	0.50	
67-64-1	Acetone	5.0	
67-63-0	2-Propanol	2.0	
75-15-0	Carbon Disulfide	2.0	
107-05-1	3-Chloropropene	2.0	
75-09-2	Methylene Chloride	5.0	
1634-04-4	Methyl tert-butyl ether	0.50	
156-60-5	trans-1,2-Dichloroethene	0.50	
110-54-3	Hexane	0.50	
75-34-3	1,1-Dichloroethane	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0	
156-59-2	cis-1,2-Dichloroethene	0.50	
109-99-9	Tetrahydrofuran	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
110-82-7	Cyclohexane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
540-84-1	2,2,4-Trimethylpentane	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
142-82-5	Heptane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
123-91-1	1,4-Dioxane	2.0	
75-27-4	Bromodichloromethane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-10-1	4-Methyl-2-pentanone	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
591-78-6	2-Hexanone	2.0	
124-48-1	Dibromochloromethane	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
75-25-2	Bromoform	0.50	
98-82-8	Cumene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
103-65-1	Propylbenzene	0.50	
622-96-8	4-Ethyltoluene	0.50	

Compound Listing

TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
91-20-3	Naphthalene	1.0	
74-87-3	Chloromethane	5.0	
75-01-4	Vinyl Chloride	0.50	
106-99-0	1,3-Butadiene	0.50	
74-83-9	Bromomethane	5.0	
75-00-3	Chloroethane	2.0	
75-69-4	Freon 11	0.50	
64-17-5	Ethanol	2.0	
76-13-1	Freon 113	0.50	

Eurofins Air Toxics, Inc.	Data Review Checklist			Release Date: 03/26/15
Workorder #	Form F1.27	Revision #11	Revision date: 03/26/15	Page 1 of 2

S1	S2	S3	S4	D	Section 1 – Spec Out				
					Initials/Instrument/Date	S1: CB/14/10-16-15	S2:	S3:	S4:
✓					Project Identification (PID), Project Requirements Table (PRT), Daily QC and ICAL met Criteria				
✓					Lumen QC and ICAL evaluation (ref. SOP/Method) report initialed and in folder				
MM				✓	Manual Integrations included and approved				
✓					Chain of Custody verified for special comments (add comments below)				
MM					Non-standard Target sublist printed				

Profile, analyses, reporting, special notes and unusual circumstances:

Ø out in QC - No Naph

A1	A2	A3	A4	D	Section 2 – Sample Analysis				
				✓	Initials/Date	A1: CB/10-16-15	A2:	A3:	A4:
✓					Internal Standard/Surrogate Recoveries, Dilution Factors, Load Volumes, Initial/Final Pressures, and Canister #s Verified				
MM				MM	a) Tedlar Bag IDs verified against COC b) Tedlar Bag ID confirmed with loading sequence/leg of instrument				
MM				MM	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				
MM				MM	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: 01A - 02A - Dil matrix - TO-15 only due to QC not passing for Naph

D1	D2	D3	D4	T	3T	Section 3 – Target Data Reduction	Technical Review Needed? Circle one: Yes/No		T:	
						Initials/Instrument/Date	D1: ES 10/16/15	D2:	D3:	D4:
MM						CAR # (if applicable)				
✓						Spectra Verified (documentation of spectral defense included if applicable)				
MM						TICs resemble reference spectra/ TICs between sample dups. are consistent (if applicable)				
✓						Lab Narrative is correct				
MM						TPH/NMOC calculations complete and included in folder				

Special notes: Naph only reported separately in D folder

A	3T	Section 4- Atlas Data Entry	Lumen verified and included in folder	Circle one: Yes/No
		Initials/Date: ES 10/16/15	3rd Tier: (needed only for DOD or per client request)	
✓		Sample Discrepancy Report (SDR) complete and approved (if applicable)		
MM		Manually entered results are checked		
✓		At least one result per sample is verified against Target quant sheets		
✓		Appropriate data quallfier flags are applied		
✓		Final Invoice is correct/ Final PDF report, COC and EDD reviewed and correct		

Special Notes:

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) *3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects*

Workorder # :				Reason for Reissue:
W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	QA Review (Initials/Date)

Workorder # :				Reason for Reissue:
W	T	3T	Q	
				Reissue Request form Present
				Client or QA or Lab contact present with reason for reissue
				Review all affected data
				Report header has correct R1, R2 etc
				The Lab Narrative clearly explains the reissue (Date, Reason and whether client requested)
				Date for Reissue in Report Header matches date in Lab Narrative
				Check Project Profile for correct reporting instructions (multiple clients, # hardcopies, etc)
				Corrective Action issued - #
				The reissued workorder has been approved by QA Manager or a Technical Director

Additional Comments:

Write Up (Initials/Date)	Tech Review (Initials/Date)	*3rd Tier Review ** 3rd Tier Report Review is for DoD & Client Specific projects only* (Initials/Date)	QA Review (Initials/Date)

Note (1) *Please check all the appropriate boxes. Indicate "NA" for any statement that doesn't apply*
Note (2) 3rd Tier Report Reviewer and Write Up Reviewer must be separate individuals for DoD & Client Specific Projects

Not Applicable