
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0806100

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Comments:

Completed by:

Kara McKiernan Kara McKiernan / Document Control 6/23/08

(Signature) (Print Name & Title) (Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806100

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	06/05/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	06/18/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS 3	Modified TO-15	21.0 "Hg	5 psi
02A	UW AMS 5	Modified TO-15	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 06/18/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0806100

Two 6 Liter Summa Canister samples were received on June 05, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample DW AMS 3 was received with significant vacuum remaining in the canister. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

There were no analytical discrepancies.

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.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
DW AMS 3	0806100-01A	6/ 4/2008	6/ 5/2008	NA	9	6/13/2008	NA	Good
UW AMS 5	0806100-02A	6/ 4/2008	6/ 5/2008	NA	9	6/13/2008	NA	Good
Lab Blank	0806100-03A	NA	NA	NA	NA	6/12/2008	NA	Good
CCV	0806100-04A	NA	NA	NA	NA	6/12/2008	NA	Good
LCS	0806100-05A	NA	NA	NA	NA	6/12/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0806100-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	8.9	65	21	150
Carbon Disulfide	2.2	38	7.0	120
2-Butanone (Methyl Ethyl Ketone)	2.2	6.2	6.6	18
Methyl tert-butyl ether	2.2	6.6	8.0	24

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0806100-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061222**	**Date of Collection: 6/4/08**	
Dil. Factor:	**4.47**	**Date of Analysis: 6/13/08 12:01 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.2	Not Detected	11	Not Detected
Freon 114	2.2	Not Detected	16	Not Detected
Vinyl Chloride	2.2	Not Detected	5.7	Not Detected
Bromomethane	2.2	Not Detected	8.7	Not Detected
Chloroethane	2.2	Not Detected	5.9	Not Detected
Freon 11	2.2	Not Detected	12	Not Detected
1,1-Dichloroethene	2.2	Not Detected	8.9	Not Detected
Freon 113	2.2	Not Detected	17	Not Detected
Methylene Chloride	2.2	Not Detected	7.8	Not Detected
1,1-Dichloroethane	2.2	Not Detected	9.0	Not Detected
cis-1,2-Dichloroethene	2.2	Not Detected	8.9	Not Detected
Chloroform	2.2	Not Detected	11	Not Detected
1,1,1-Trichloroethane	2.2	Not Detected	12	Not Detected
Carbon Tetrachloride	2.2	Not Detected	14	Not Detected
Benzene	2.2	Not Detected	7.1	Not Detected
1,2-Dichloroethane	2.2	Not Detected	9.0	Not Detected
Trichloroethene	2.2	Not Detected	12	Not Detected
1,2-Dichloropropane	2.2	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	2.2	Not Detected	10	Not Detected
Toluene	2.2	Not Detected	8.4	Not Detected
trans-1,3-Dichloropropene	2.2	Not Detected	10	Not Detected
1,1,2-Trichloroethane	2.2	Not Detected	12	Not Detected
Tetrachloroethene	2.2	Not Detected	15	Not Detected
1,2-Dibromoethane (EDB)	2.2	Not Detected	17	Not Detected
Chlorobenzene	2.2	Not Detected	10	Not Detected
Ethyl Benzene	2.2	Not Detected	9.7	Not Detected
m,p-Xylene	2.2	Not Detected	9.7	Not Detected
o-Xylene	2.2	Not Detected	9.7	Not Detected
Styrene	2.2	Not Detected	9.5	Not Detected
1,1,2,2-Tetrachloroethane	2.2	Not Detected	15	Not Detected
1,3,5-Trimethylbenzene	2.2	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.2	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.2	Not Detected	13	Not Detected
1,4-Dichlorobenzene	2.2	Not Detected	13	Not Detected
alpha-Chlorotoluene	2.2	Not Detected	12	Not Detected
1,2-Dichlorobenzene	2.2	Not Detected	13	Not Detected
1,3-Butadiene	2.2	Not Detected	4.9	Not Detected
Hexane	2.2	Not Detected	7.9	Not Detected
Cyclohexane	2.2	Not Detected	7.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0806100-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061222**	**Date of Collection: 6/4/08**	
Dil. Factor:	**4.47**	**Date of Analysis: 6/13/08 12:01 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	2.2	Not Detected	9.2	Not Detected
Bromodichloromethane	2.2	Not Detected	15	Not Detected
Dibromochloromethane	2.2	Not Detected	19	Not Detected
Cumene	2.2	Not Detected	11	Not Detected
Propylbenzene	2.2	Not Detected	11	Not Detected
Chloromethane	8.9	Not Detected	18	Not Detected
1,2,4-Trichlorobenzene	8.9	Not Detected	66	Not Detected
Hexachlorobutadiene	8.9	Not Detected	95	Not Detected
Acetone	8.9	65	21	150
Carbon Disulfide	2.2	38	7.0	120
2-Propanol	8.9	Not Detected	22	Not Detected
trans-1,2-Dichloroethene	2.2	Not Detected	8.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.2	6.2	6.6	18
Tetrahydrofuran	2.2	Not Detected	6.6	Not Detected
1,4-Dioxane	8.9	Not Detected	32	Not Detected
4-Methyl-2-pentanone	2.2	Not Detected	9.2	Not Detected
2-Hexanone	8.9	Not Detected	37	Not Detected
Bromoform	2.2	Not Detected	23	Not Detected
4-Ethyltoluene	2.2	Not Detected	11	Not Detected
Ethanol	8.9	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.2	6.6	8.0	24
3-Chloropropene	8.9	Not Detected	28	Not Detected
2,2,4-Trimethylpentane	2.2	Not Detected	10	Not Detected
Naphthalene	8.9	Not Detected	47	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-12jun.b/8061222.d
Lab Smp Id: 0806100-01A
Inj Date : 13-JUN-2008 00:01
Operator : kr Inst ID: msd8.i
Smp Info : 200ml #9939
Misc Info : 21.0"Hg-5psi
Comment :
Method : /chem/msd8.i/8-12jun.b/t14q604a.m
Meth Date : 17-Jun-2008 09:28 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1
Dil Factor: 4.47000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.159	7.159 (1.000)	130	221327	25.0000		80.00- 120.00	100.00
7.159	7.159 (1.000)	128	165038			48.04- 108.04	74.57
7.132	7.159 (1.000)	49	452887			169.92- 229.92	204.62
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	807211	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	136003			0.00- 47.02	16.85
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	578047	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	361962			0.00- 30.00	62.62
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	362702	22.6353	22.635	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	176520			0.00- 30.00	48.67
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	693186	22.3715	22.371	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	81610			0.00- 30.00	11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	441648			0.00- 30.00	63.71
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	310707	23.7199	23.720	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	450880			113.59- 173.59	145.11
16.035	16.035 (1.115)	176	319548			67.10- 127.10	102.85
30 Acetone					CAS #: 67-64-1		
3.952	3.924 (0.552)	58	116606	14.5700	65.128	80.00- 120.00	100.00
3.952	3.924 (0.552)	43	468159			0.00- 30.00	401.49
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.118 (0.571)	76	345176	8.53084	38.133	80.00- 120.00	100.00
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.691)	73	46909	1.48415	6.634	80.00- 120.00	100.00
4.947	4.947 (0.691)	57	10871			0.00- 56.94	23.18
4.947	4.947 (0.691)	41	14794			0.00- 30.00	31.54
65 2-Butanone					CAS #: 78-93-3		
6.800	6.772 (0.950)	72	10377	1.39513	6.236	80.00- 120.00	100.00
6.800	6.772 (0.950)	43	56924			528.82- 588.82	548.57
6.800	6.772 (0.950)	57	6239			0.00- 30.00	60.13

Report Date: 18-Jun-2008 12:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8061222.d
Lab Smp Id: 0806100-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 21.0"Hg-5psi

Calibration Date: 12-JUN-2008
Calibration Time: 07:35
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	273341	164005	382677	221327	-19.03
88 1,4-Difluorobenze	1026488	615893	1437083	807211	-21.36
125 Chlorobenzene-d5	781025	468615	1093435	578047	-25.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.16	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 18-Jun-2008 12:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-12jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0806100-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 21.0"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	22.635	90.54	70-130
$ 104 Toluene-d8	25.000	22.371	89.49	70-130
$ 140 Bromofluorobenzene	25.000	23.720	94.88	70-130

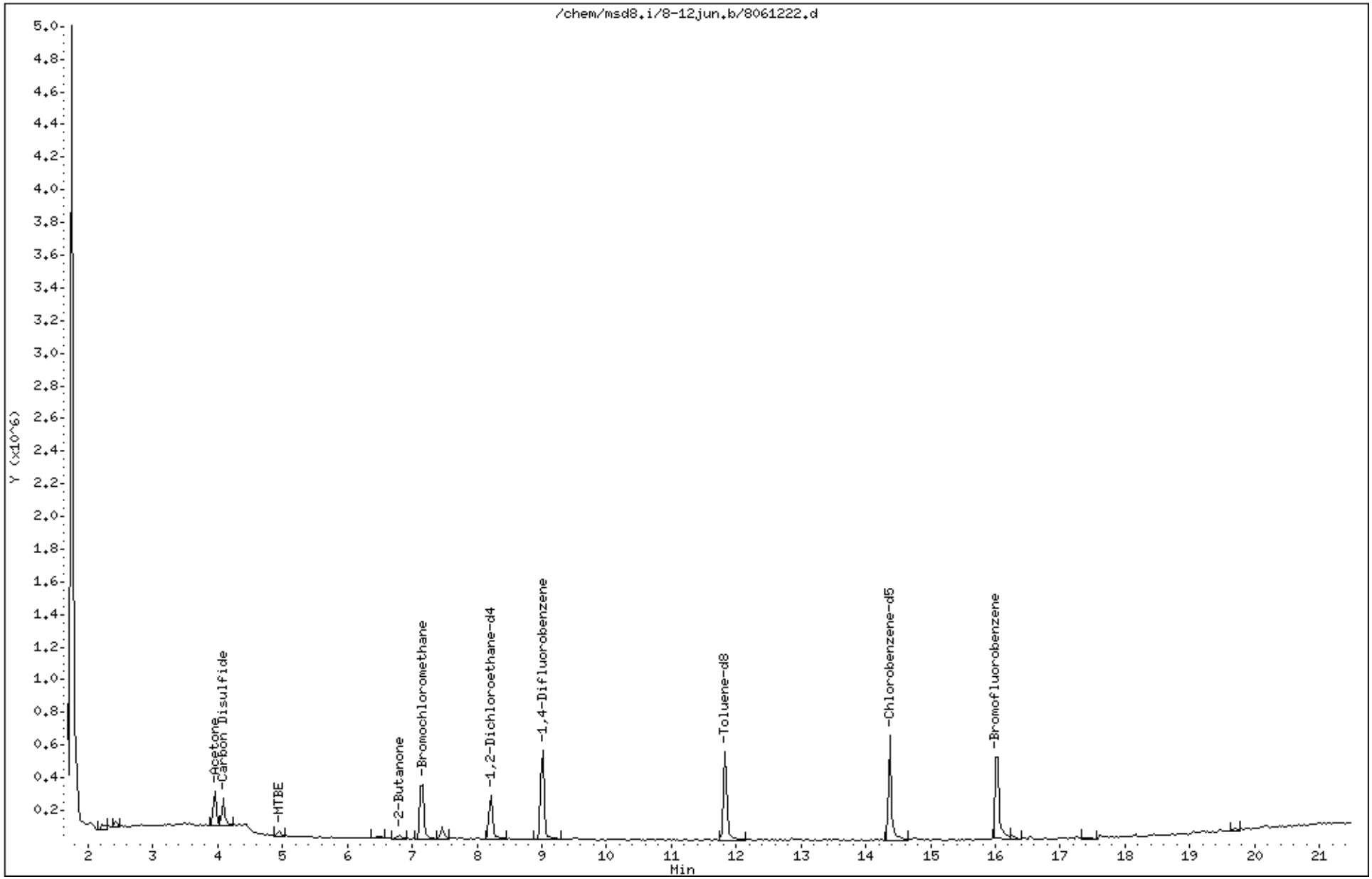
0013

Data File: /chem/msd8.i/8-12jun.b/8061222.d
Date : 13-JUN-2008 00:01
Client ID:
Sample Info: 200ml #9939

Column phase: RTx-624

Instrument: msd8.i

Operator: kr
Column diameter: 0.53



Data File: /chem/msd8.i/8-12jun.b/8061222.d

Date : 13-JUN-2008 00:01

Client ID:

Instrument: msd8.i

Sample Info: 200ml #9939

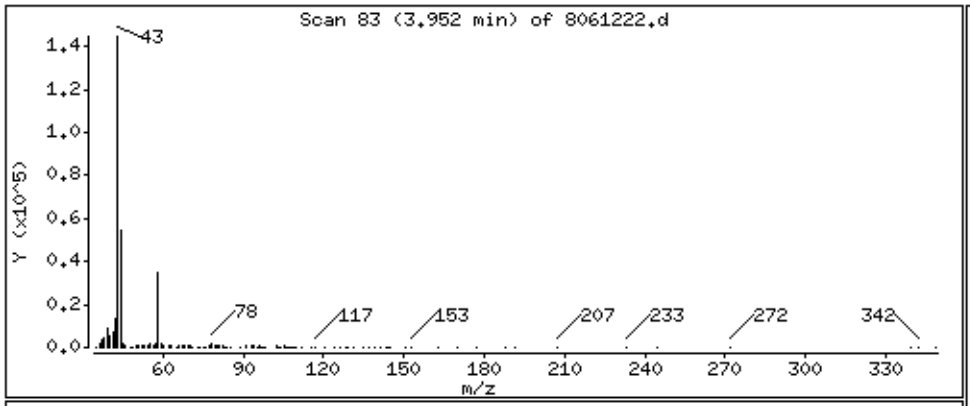
Operator: kr

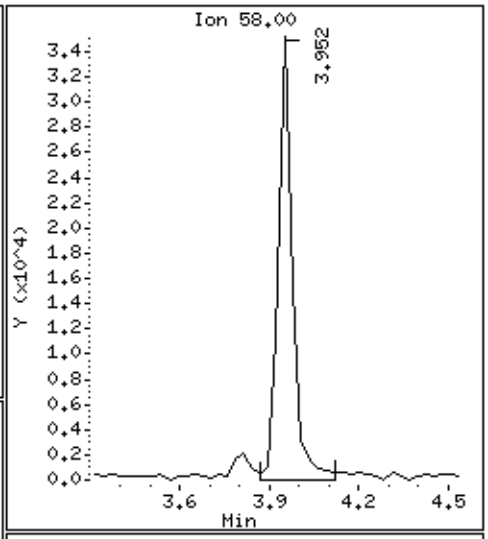
Column phase: RTx-624

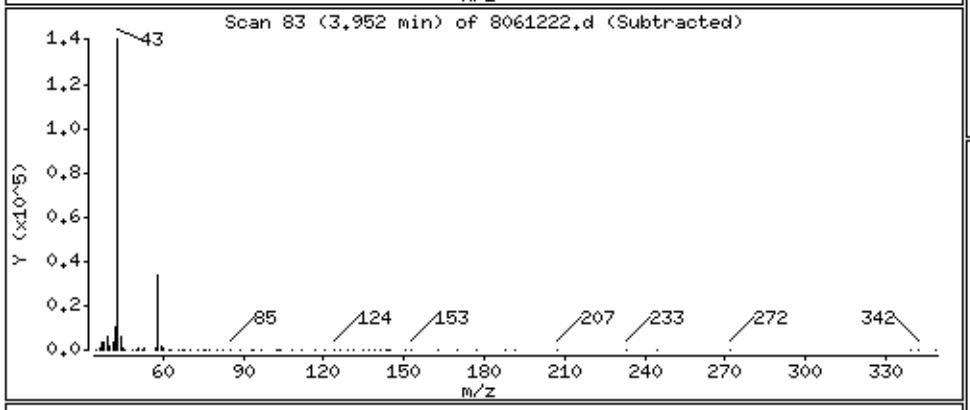
Column diameter: 0.53

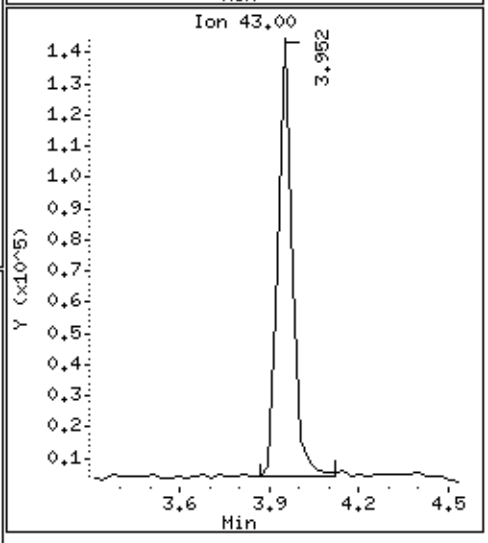
30 Acetone

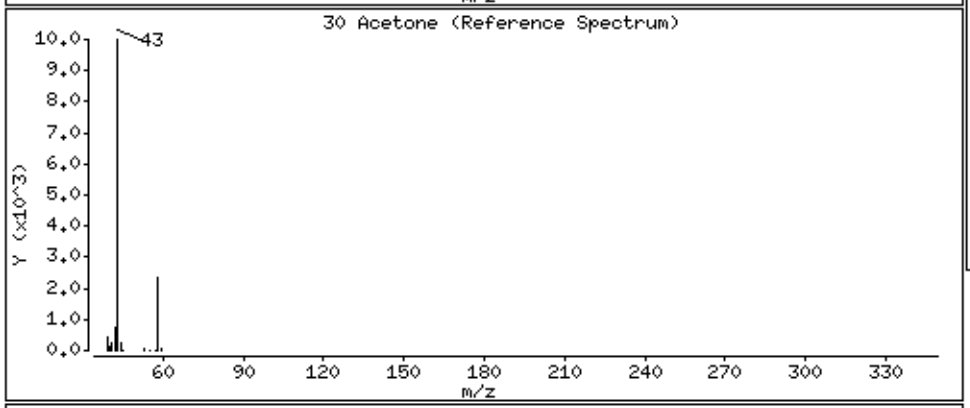
Concentration: 65.128 PPBV

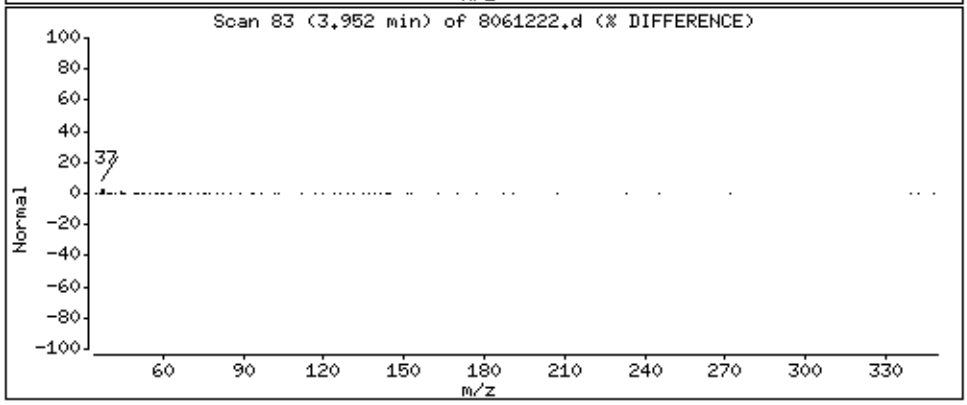












Data File: /chem/msd8.i/8-12jun.b/8061222.d

Date : 13-JUN-2008 00:01

Client ID:

Instrument: msd8.i

Sample Info: 200ml #9939

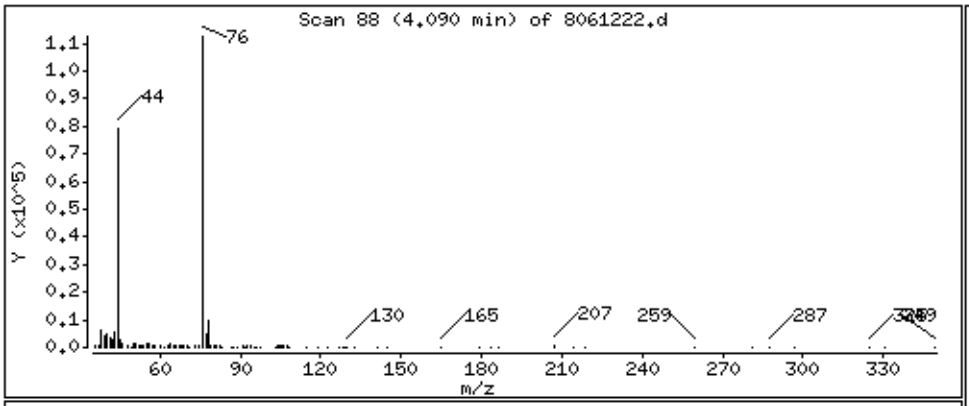
Operator: kr

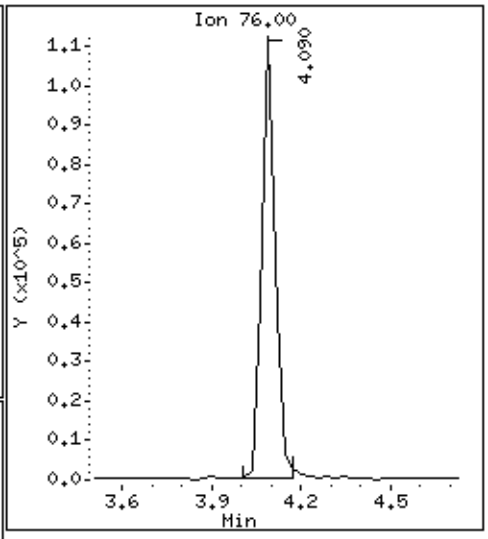
Column phase: RTx-624

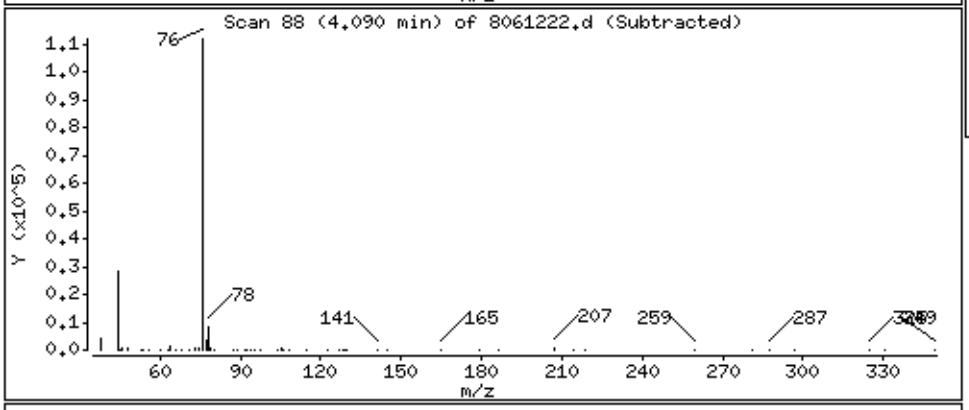
Column diameter: 0.53

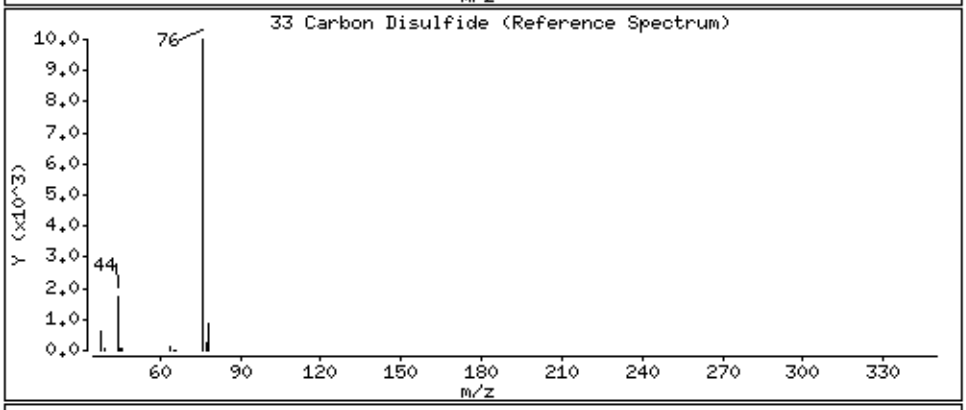
33 Carbon Disulfide

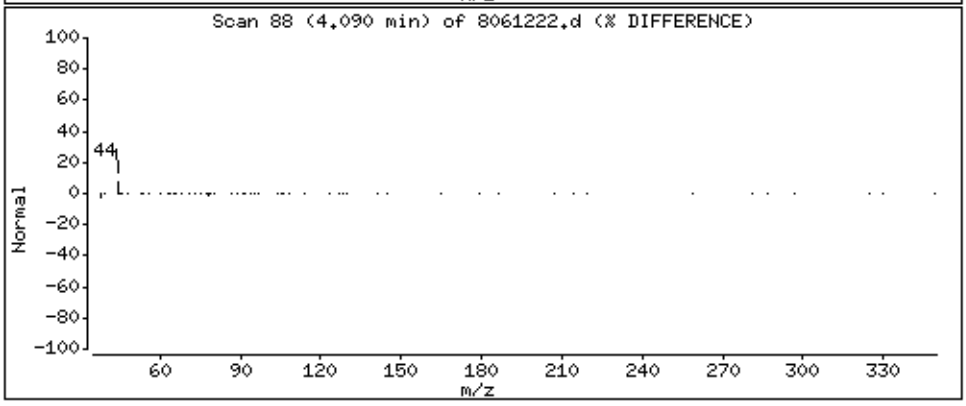
Concentration: 38.133 PPBV











Data File: /chem/msd8.i/8-12jun.b/8061222.d

Date : 13-JUN-2008 00:01

Client ID:

Instrument: msd8.i

Sample Info: 200ml #9939

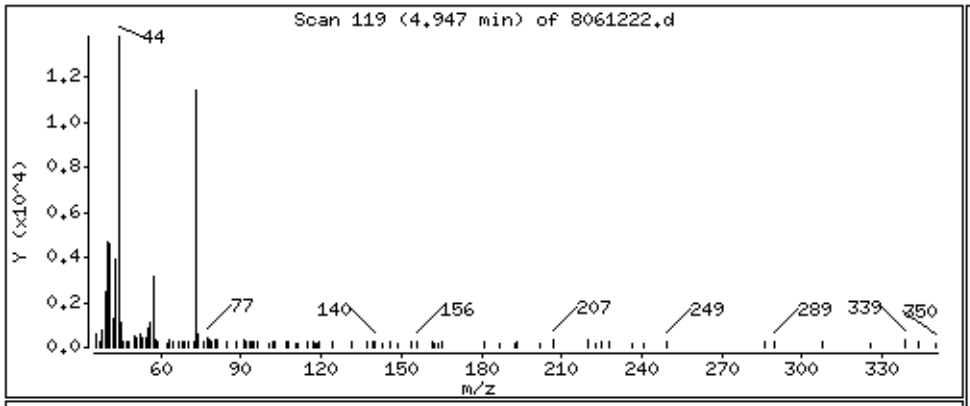
Operator: kr

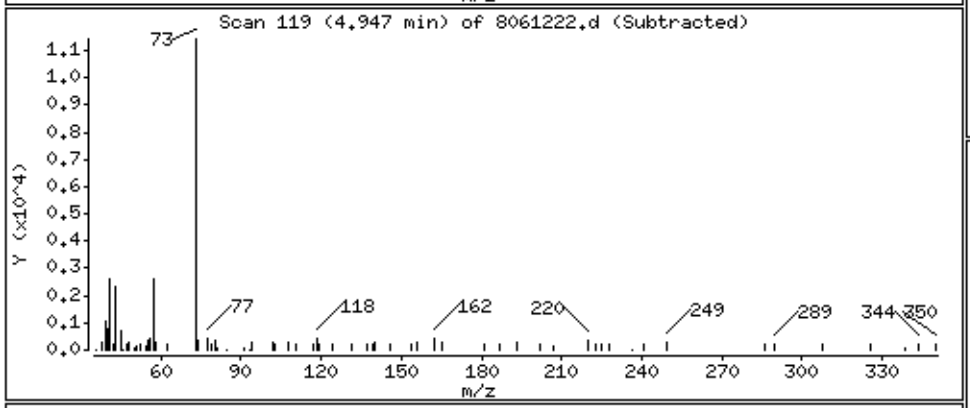
Column phase: RTx-624

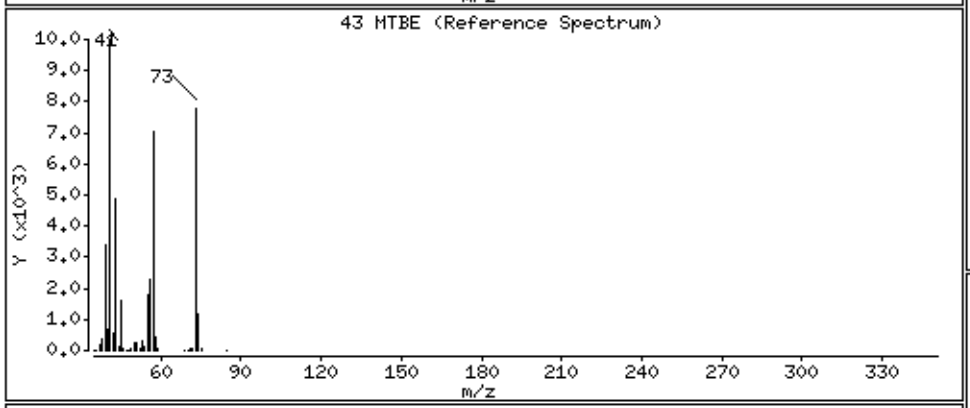
Column diameter: 0.53

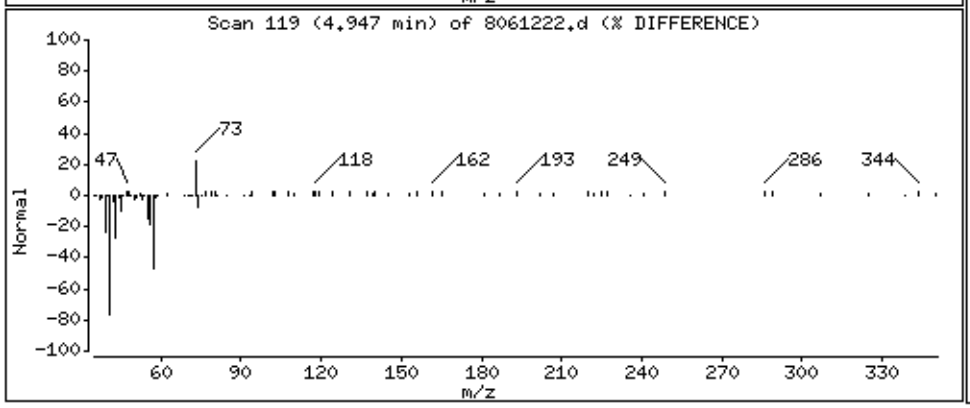
43 MTBE

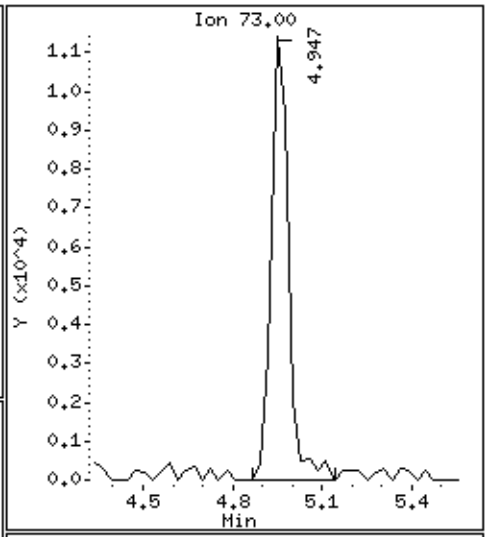
Concentration: 6.634 PPBV

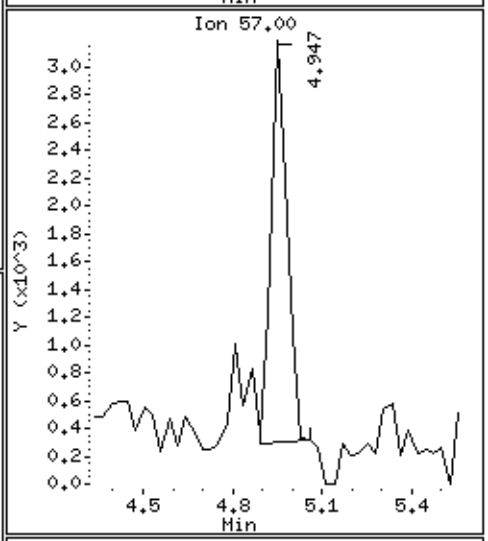


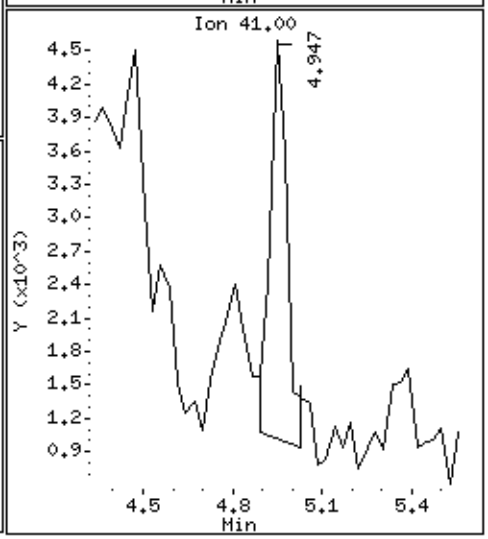












Data File: /chem/msd8.i/8-12jun.b/8061222.d

Date : 13-JUN-2008 00:01

Client ID:

Instrument: msd8.i

Sample Info: 200ml #9939

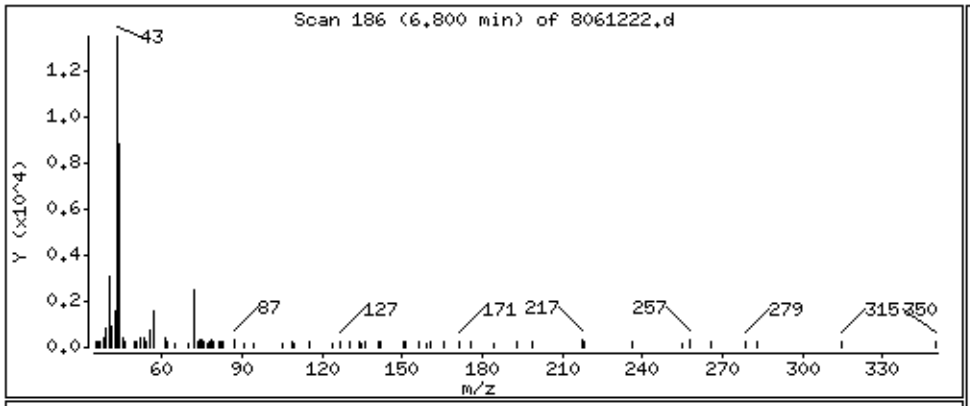
Operator: kr

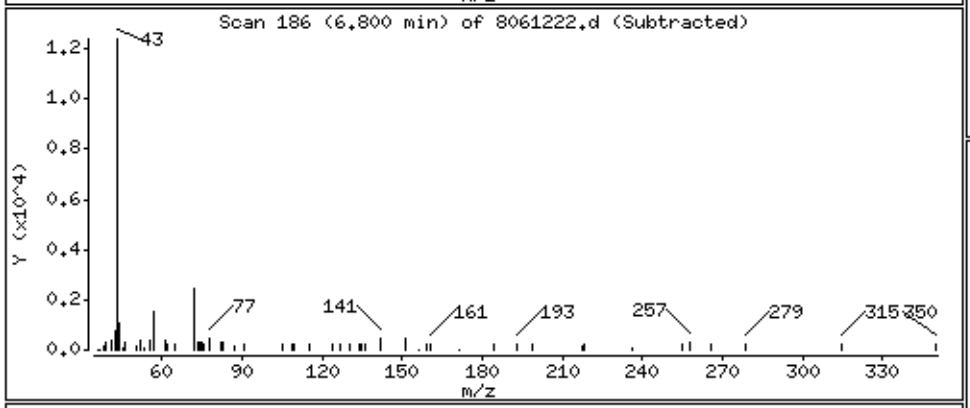
Column phase: RTx-624

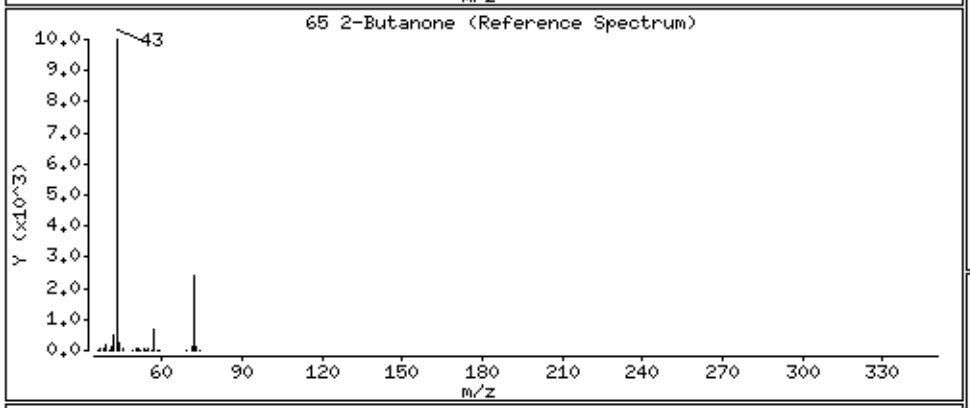
Column diameter: 0.53

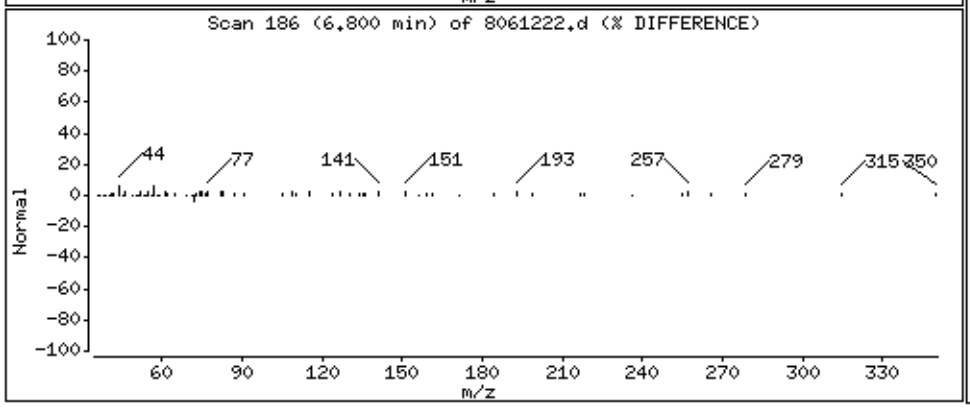
65 2-Butanone

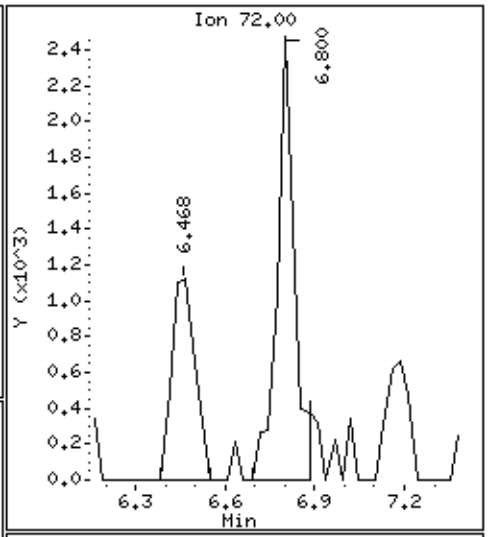
Concentration: 6.236 PPBV

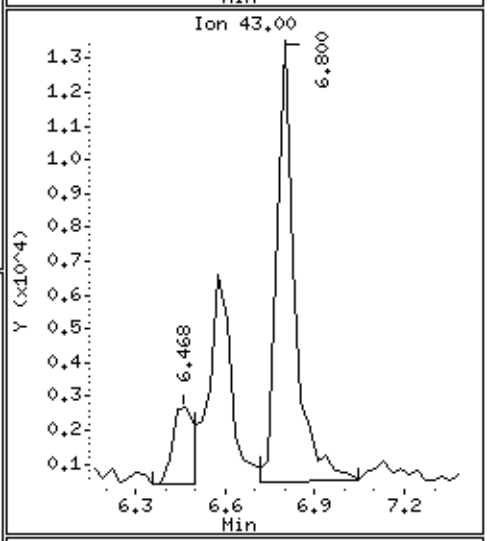


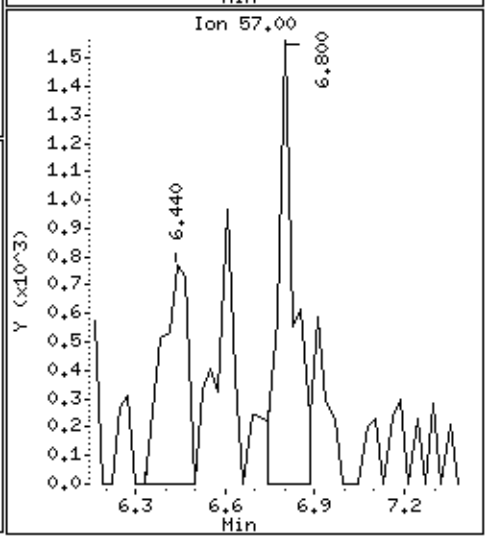












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0806100-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.5	30	8.3	71
2-Butanone (Methyl Ethyl Ketone)	0.88	1.1	2.6	3.4

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0806100-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061223**	**Date of Collection: 6/4/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 6/13/08 12:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Toluene	0.88	Not Detected	3.3	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	Not Detected	3.8	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0806100-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061223**	**Date of Collection: 6/4/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 6/13/08 12:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	30	8.3	71
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	1.1	2.6	3.4
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-12jun.b/8061223.d
Lab Smp Id: 0806100-02A
Inj Date : 13-JUN-2008 00:43
Operator : kr Inst ID: msd8.i
Smp Info : 200ml #34434
Misc Info : 7.0"Hg-5psi
Comment :
Method : /chem/msd8.i/8-12jun.b/t14q604a.m
Meth Date : 17-Jun-2008 09:28 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.159	7.159 (1.000)	130	235997	25.0000		80.00- 120.00	100.00
7.159	7.159 (1.000)	128	180854			48.04- 108.04	76.63
7.132	7.159 (1.000)	49	460153			169.92- 229.92	194.98
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	835454	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	134133			0.00- 47.02	16.06
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	599658	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	368729			0.00- 30.00	61.49
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	362305	21.2050	21.205	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	182003			0.00- 30.00	50.23
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	686474	21.4059	21.406	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	79993			0.00- 30.00	11.65

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	437879			0.00- 30.00	63.79
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	334276	24.5995	24.600	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	464433			113.59- 173.59	138.94
16.035	16.035 (1.115)	176	307153			67.10- 127.10	91.89
30 Acetone					CAS #: 67-64-1		
3.952	3.924 (0.552)	58	146239	17.1368	29.989	80.00- 120.00	100.00
3.952	3.924 (0.552)	43	634582			0.00- 30.00	433.93
65 2-Butanone					CAS #: 78-93-3		
6.800	6.772 (0.950)	72	5180	0.65313	1.143	80.00- 120.00	100.00
6.800	6.772 (0.950)	43	21605			528.82- 588.82	417.04
6.800	6.772 (0.950)	57	3322			0.00- 30.00	64.14

Report Date: 18-Jun-2008 12:14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8061223.d
Lab Smp Id: 0806100-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 7.0"Hg-5psi

Calibration Date: 12-JUN-2008
Calibration Time: 07:35
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	273341	164005	382677	235997	-13.66
88 1,4-Difluorobenze	1026488	615893	1437083	835454	-18.61
125 Chlorobenzene-d5	781025	468615	1093435	599658	-23.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.16	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 18-Jun-2008 12:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-12jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0806100-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 7.0"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	21.205	84.82	70-130
$ 104 Toluene-d8	25.000	21.406	85.62	70-130
$ 140 Bromofluorobenzene	25.000	24.600	98.40	70-130

Data File: /chem/msd8.i/8-12jun.b/8061223.d

Date : 13-JUN-2008 00:43

Client ID:

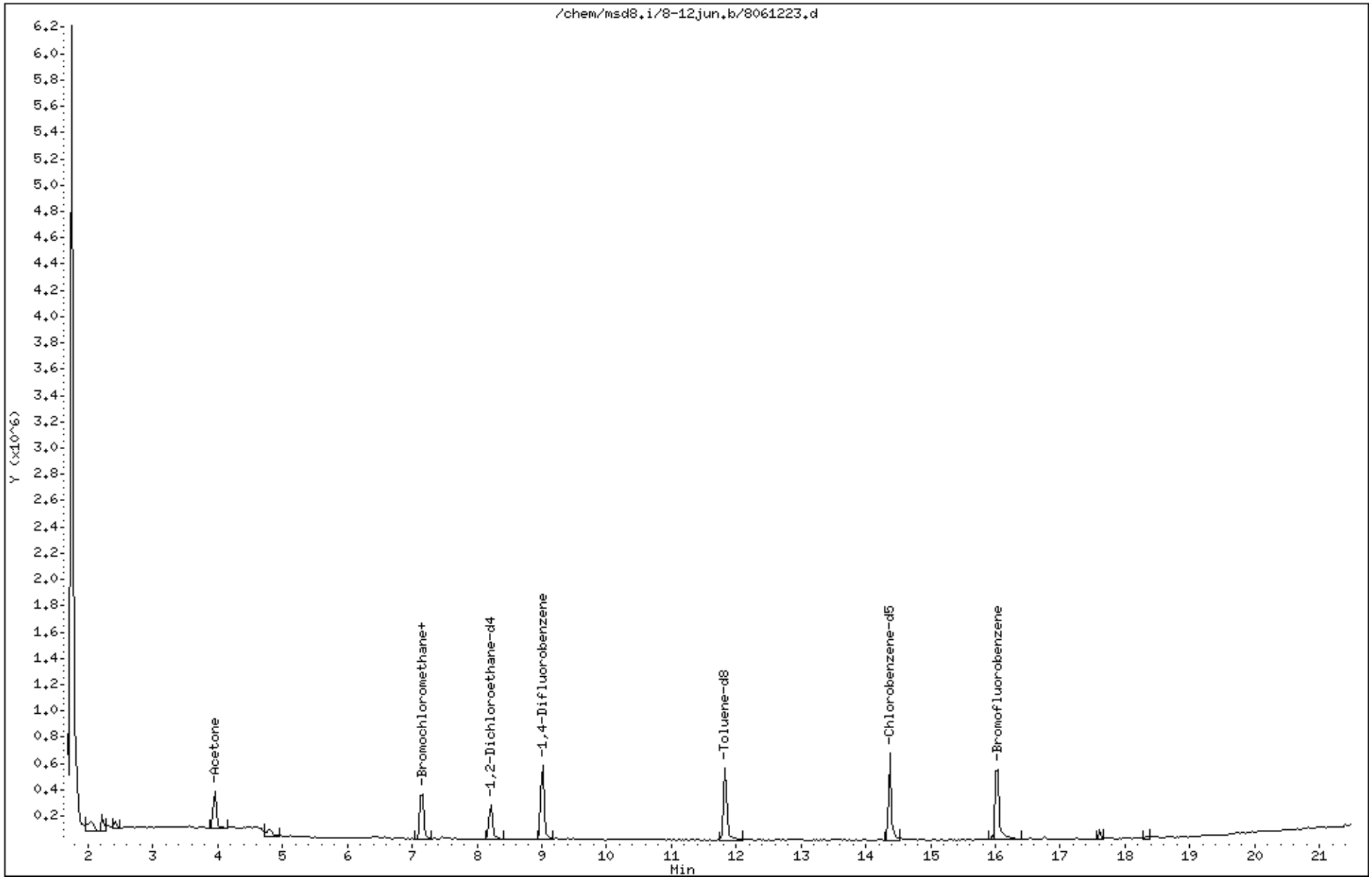
Sample Info: 200ml #34434

Column phase: RTx-624

Instrument: msd8.i

Operator: kr

Column diameter: 0.53



Data File: /chem/msd8.i/8-12jun.b/8061223.d

Date : 13-JUN-2008 00:43

Client ID:

Instrument: msd8.i

Sample Info: 200ml #34434

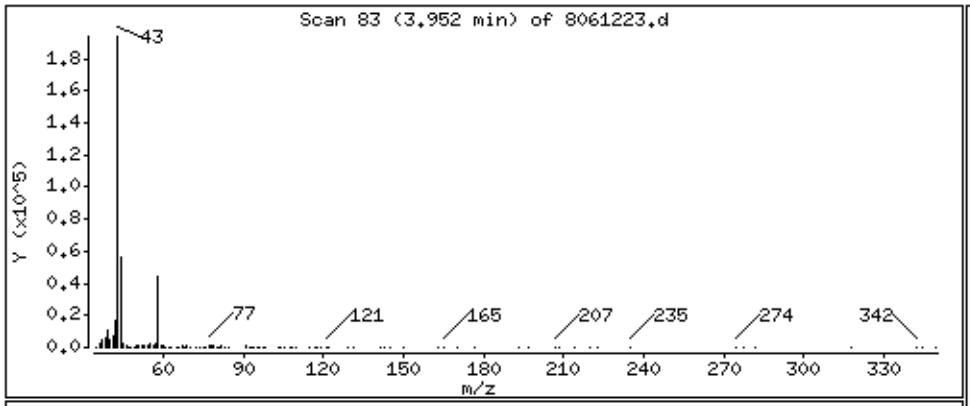
Operator: kr

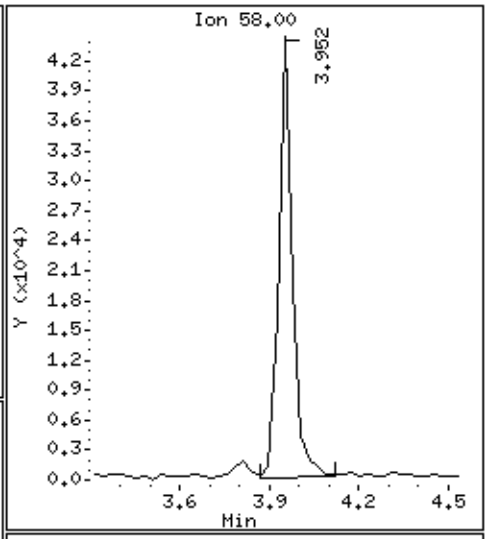
Column phase: RTx-624

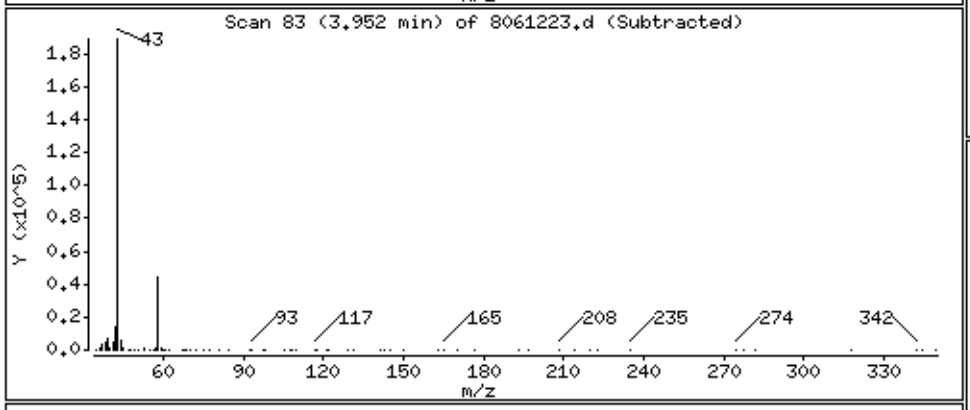
Column diameter: 0.53

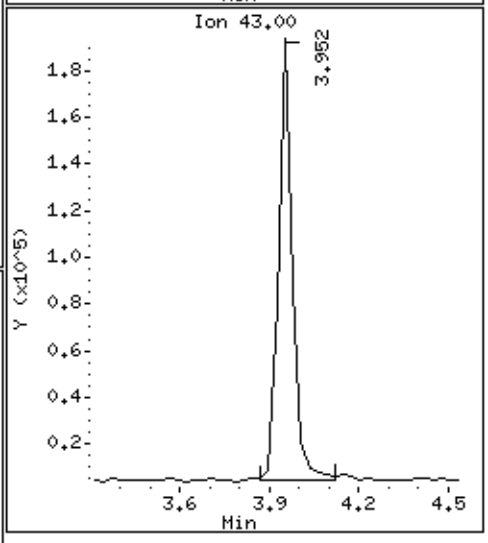
30 Acetone

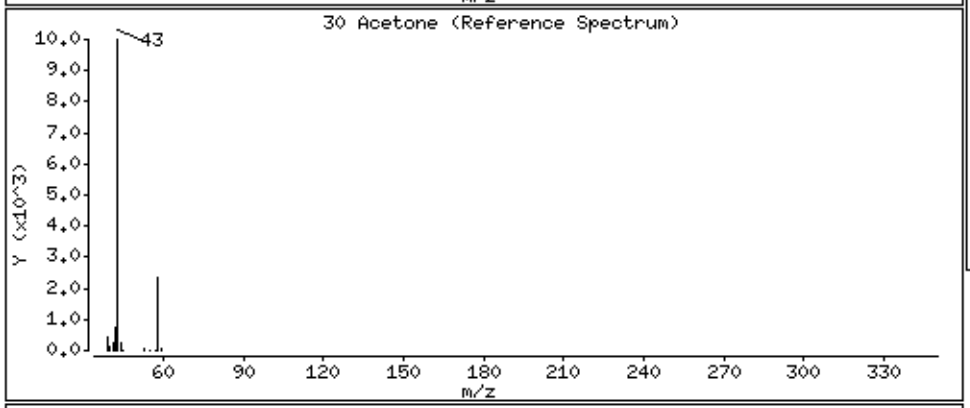
Concentration: 29.989 PPBV

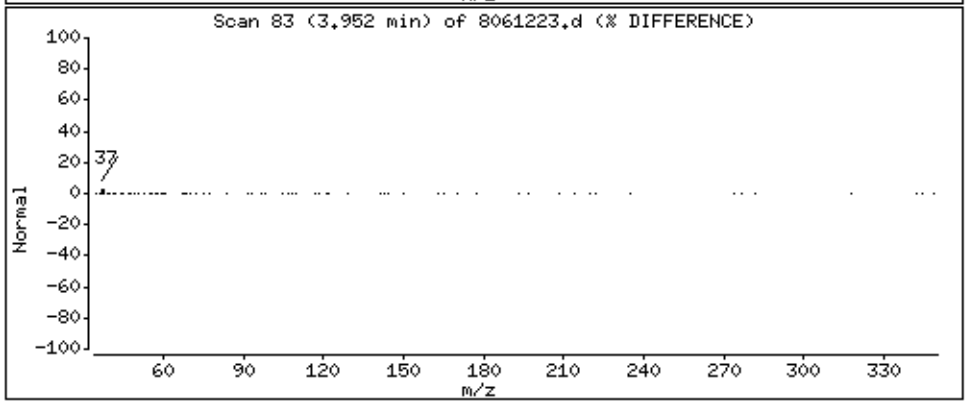












Data File: /chem/msd8.i/8-12jun.b/8061223.d

Date : 13-JUN-2008 00:43

Client ID:

Instrument: msd8.i

Sample Info: 200ml #34434

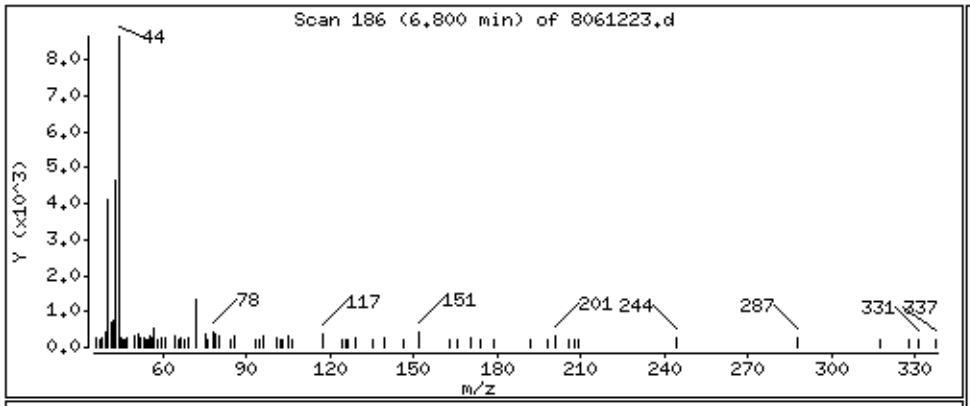
Operator: kr

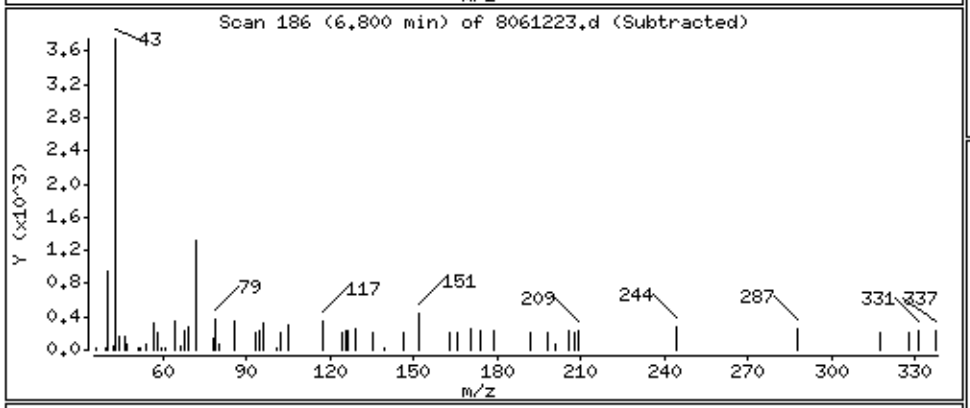
Column phase: RTx-624

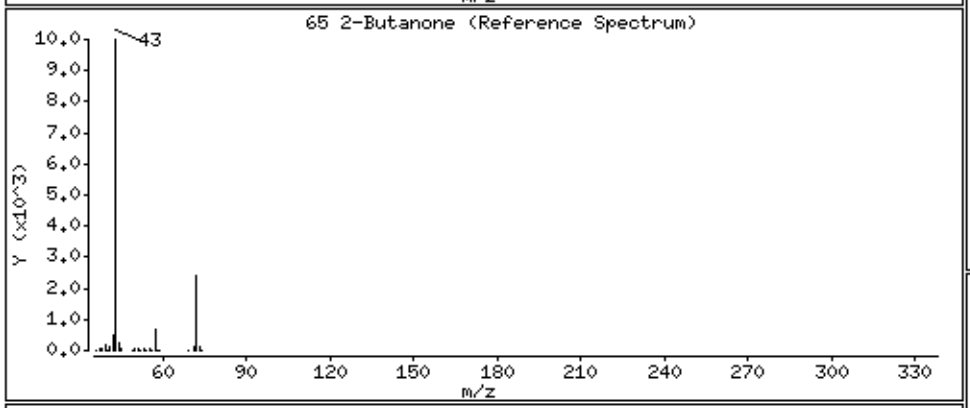
Column diameter: 0.53

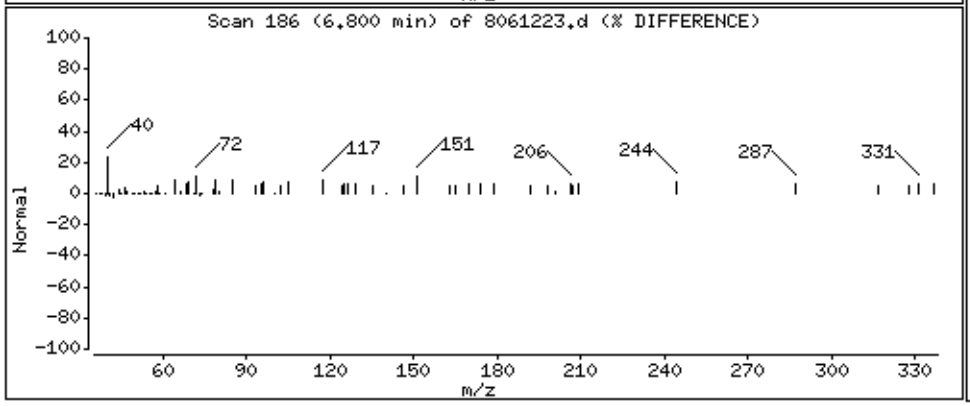
65 2-Butanone

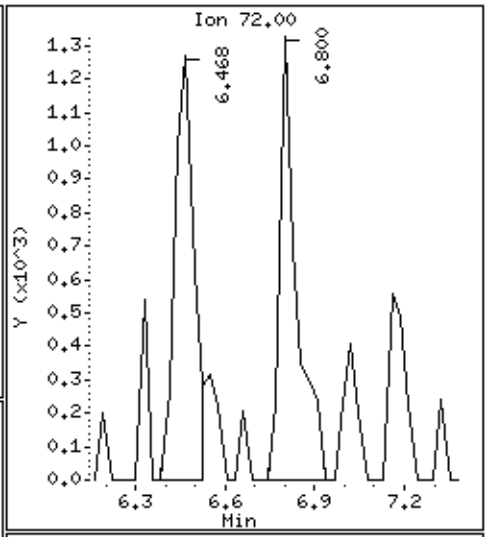
Concentration: 1.143 PPBV

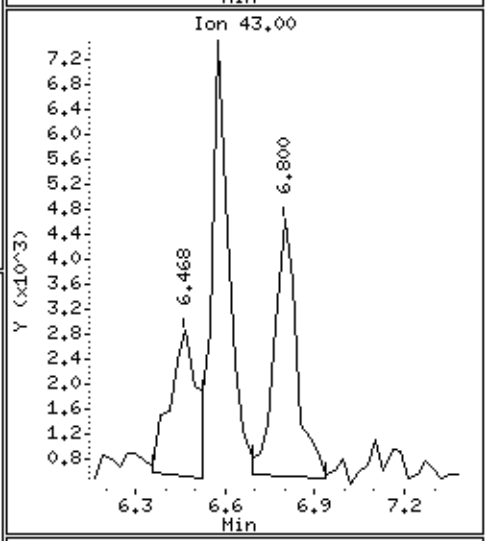


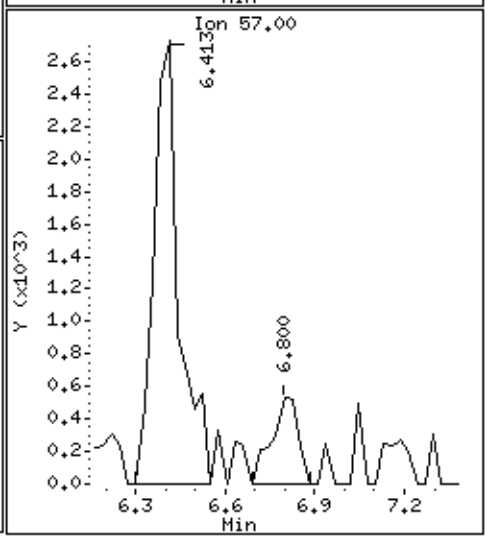












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806100-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 10:46 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806100-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061206**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 10:46 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.50	Not Detected	2.0	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-12jun.b/8061206.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 12-JUN-2008 10:46
Operator : kr Inst ID: msd8.i
Smp Info : 200mL #13673
Misc Info : Cart #14/ Leg #4
Comment :
Method : /var/chem/msd8.i/8-12jun.b/t14q604a.m
Meth Date : 12-Jun-2008 07:55 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.159 (1.000)	130	208100	25.0000		80.00- 120.00	100.00
7.132	7.159 (1.000)	128	160007			48.04- 108.04	76.89
7.132	7.132 (1.000)	49	431011			169.92- 229.92	207.12
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	760163	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	130556			0.00- 47.02	17.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	565719	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	346885			0.00- 30.00	61.32
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	338019	22.4357	22.436	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	161080			0.00- 30.00	47.65
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	673897	23.0950	23.095	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	77904			0.00- 30.00	11.56

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	430573			0.00- 30.00	63.89
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	322579	25.1629	25.163	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	479555			113.59- 173.59	148.66
16.035	16.035 (1.115)	176	314982			67.10- 127.10	97.64

Report Date: 12-Jun-2008 10:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8061206.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: Cart #14/ Leg #4

Calibration Date: 12-JUN-2008
Calibration Time: 07:35
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	273341	164005	382677	208100	-23.87
88 1,4-Difluorobenze	1026488	615893	1437083	760163	-25.95
125 Chlorobenzene-d5	781025	468615	1093435	565719	-27.57

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 12-Jun-2008 10:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-12jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: Cart #14/ Leg #4

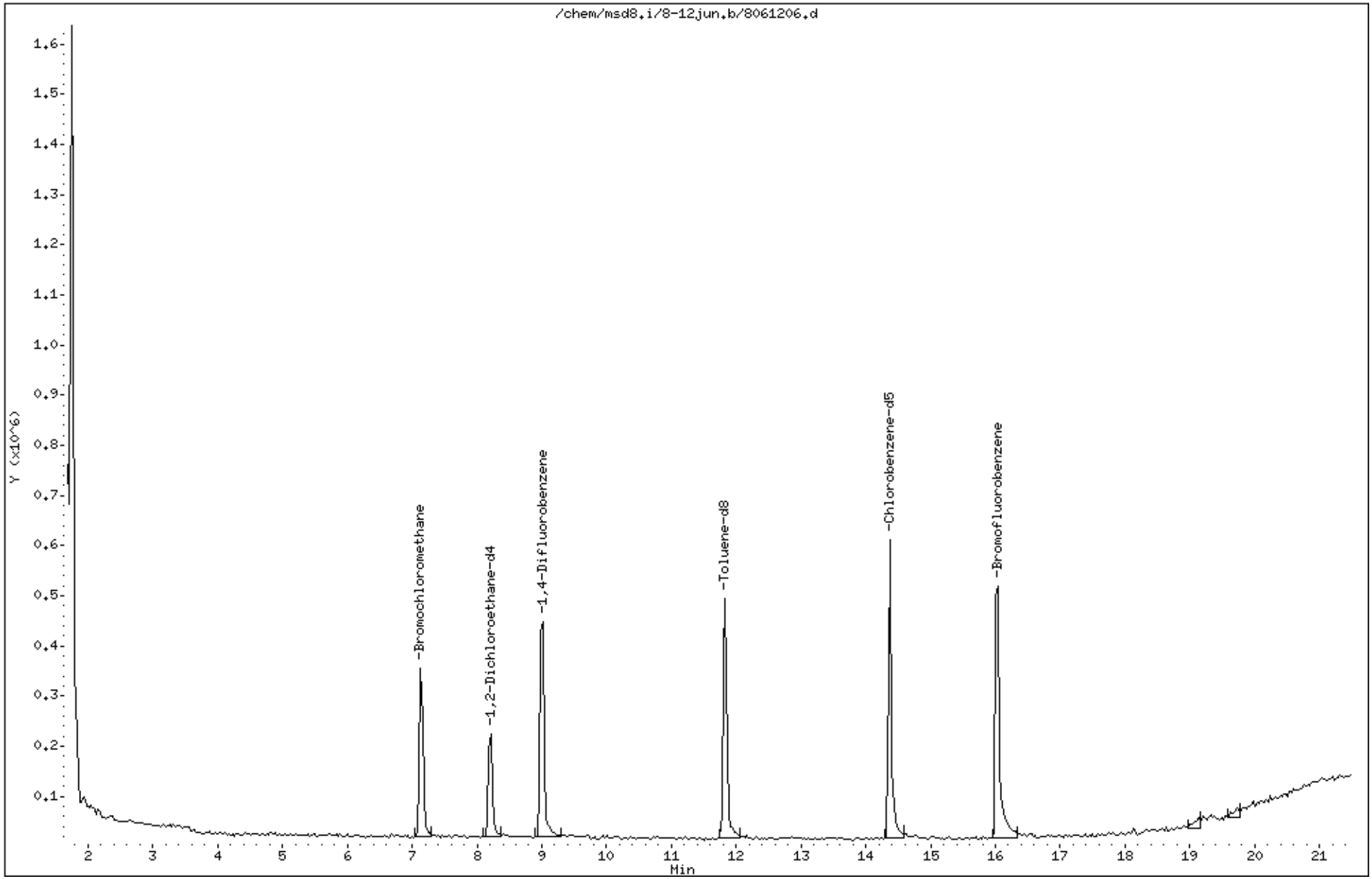
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	22.436	89.74	70-130
$ 104 Toluene-d8	25.000	23.095	92.38	70-130
$ 140 Bromofluorobenzene	25.000	25.163	100.65	70-130

0035

Data File: /chem/msd8.i/8-12jun.b/8061206.d
Date : 12-JUN-2008 10:46
Client ID: Lab Blank
Sample Info: 200mL #13673

Instrument: msd8.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0806100

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS 3	90		89		95				0
02	UW AMS 5	85		86		98				0
03	Lab Blank	90		92		101				0
04	CCV	92		94		108				0
05	LCS	93		95		114				0
06										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

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0806100

Lab File ID: 8061202.d | Date Analyzed: 06/12/2008

Instrument ID: msd8.i | Time Analyzed: 07:35 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	781025		14.38		1026488		9.01		273341		7.16	
	UPPER LIMIT	1093435		14.71		1437083		09.34		382677		07.49	
	LOWER LIMIT	468615		14.05		615893		08.68		164005		06.83	
	CLIENT SAMPLE NO												
01	DW AMS 3	578047		14.38		807211		9.01		221327		7.16	
02	UW AMS 5	599658		14.38		835454		9.01		235997		7.16	
03	Lab Blank	565719		14.38		760163		9.01		208100		7.13	
04	CCV	781025		14.38		1026488		9.01		273341		7.16	
05	LCS	626052		14.38		837073		9.01		216919		7.13	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-04jun.b/8060408.d
Level 2: /chem/msd8.i/8-04jun.b/8060409.d
Level 3: /chem/msd8.i/8-04jun.b/8060410.d
Level 4: /chem/msd8.i/8-04jun.b/8060411.d
Level 5: /chem/msd8.i/8-04jun.b/8060412.d
Level 6: /chem/msd8.i/8-04jun.b/8060413.d
Level 7: /chem/msd8.i/8-04jun.b/8060414.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	RRF	% RSD
1 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	1.78860	1.61302	1.53420	1.50911	1.57972	1.60493	6.869
4 Dichlorodifluoromethane/Fr12	+++++	4.53118	4.02655	4.40948	4.29587	4.14711	3.96202	4.22870	5.259
5 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 114	+++++	3.30293	3.19092	2.87387	2.65325	2.70812	2.64009	2.89486	9.925
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Chloromethane	+++++	+++++	2.05754	1.83763	1.93162	1.91900	1.94072	1.93730	4.062
9 Butane	+++++	+++++	0.58364	0.40885	0.41295	0.39325	0.39748	0.43923	18.470
10 1,3-Butadiene	2.19442	1.58477	1.68420	1.52112	1.58400	1.59285	1.53781	1.67131	14.148
11 Vinyl Chloride	+++++	2.50495	1.78654	1.96825	1.88105	1.86819	1.83187	1.97348	13.542
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Bromomethane	+++++	1.29542	0.68546	1.03154	1.04287	1.08388	1.07522	1.03573	19.022
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Isopentane	+++++	+++++	2.94922	2.73377	2.75173	2.68475	2.64266	2.75242	4.287
16 Chloroethane	+++++	1.11356	0.67494	0.95531	0.95057	0.94683	0.93907	0.93005	15.219
17 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Trichlorofluoromethane/Fr11	+++++	4.51646	4.05593	4.24198	4.24391	4.12947	4.07839	4.21103	4.025
19 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Ethanol	+++++	+++++	0.83615	0.74637	0.76281	0.66795	0.65230	0.73312	10.219
24 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Freon 113	+++++	2.44017	2.18262	2.18210	2.17383	2.08372	2.04903	2.18525	6.274
29 1,1-Dichloroethene	+++++	3.33284	2.95001	2.84087	2.83515	2.82553	2.80697	2.93190	6.917
30 Acetone	+++++	+++++	0.89831	0.91464	0.91522	0.90473	0.88708	0.90399	1.307
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Carbon Disulfide	+++++	4.69336	4.55883	4.51294	4.56646	4.55666	4.53415	4.57040	1.386
34 2-Propanol	+++++	+++++	3.35538	3.61620	3.65494	3.63347	3.50089	3.55218	3.523
35 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Chloropropene	+++++	+++++	0.62806	0.78049	0.77428	0.77206	0.75456	0.74189	8.675

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 tert-Butyl-Alcohol	+++++	+++++	2.89519	2.98093	2.60656	1.98196	1.30619	2.35417	29.931
39 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Methylene Chloride	+++++	2.88851	2.13228	2.25835	2.24109	2.19653	2.16915	2.31432	12.317
41 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 MTBE	+++++	4.42257	3.15516	3.78919	3.68017	3.50219	2.87151	3.57013	15.092
44 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 trans-1,2-Dichloroethene	+++++	1.67322	1.47882	1.55508	1.61060	1.57171	1.54933	1.57313	4.140
46 Hexane	+++++	3.32804	3.09391	3.30138	3.32513	3.33240	3.32758	3.28474	2.866
47 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-04jun.b/t14q604a.m
Cal Date : 05-Jun-2008 10:02 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 1,1-Dichloroethane	+++++	3.01215	2.99209	3.24465	3.28371	3.25759	3.25330	3.17391	4.217
55 Vinyl Acetate	+++++	+++++	0.44939	0.37015	0.38681	0.39424	0.39651	0.39942	7.457
56 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
57 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
58 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
59 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
62 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
63 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
64 cis-1,2-Dichloroethene	+++++	3.04030	2.41130	2.43580	2.45033	2.40156		
	2.39947						2.52313	10.073
65 2-Butanone	+++++	0.98752	0.88041	0.77910	0.78141	0.80600		
	0.80652						0.84016	9.642
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
67 Tetrahydrofuran	+++++	4.01230	2.78976	2.53554	2.54277	2.54149		
	2.55587						2.82962	20.770

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Chloroform	2.80519	3.52974	2.75991	2.90533	2.90698	2.91113	2.89893	2.95960	8.730
71 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Cyclohexane	+++++	2.95840	2.17464	2.27513	2.26904	2.25478	2.23831	2.36172	12.472
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,1,1-Trichloroethane	+++++	3.56477	2.63360	2.96464	2.99658	3.02109	2.99557	3.02937	9.900
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	3.02782	2.39908	2.67621	2.80400	2.79243	2.77958	2.74652	7.485
78 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++	9.95326	9.06340	10.07430	10.29956	10.39013	10.51894	10.04993	5.230
81 Benzene	1.28153	1.15338	1.04004	1.08077	1.08002	1.09663	1.09920	1.11880	7.086
83 1,2-Dichloroethane	+++++	0.57711	0.58083	0.55618	0.54918	0.56175	0.55805	0.56385	2.210
84 Thiopene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Heptane	+++++	0.18849	0.12669	0.12475	0.11820	0.11989	0.11826	0.13271	20.760
86 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
91 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
92 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
94 Trichloroethene	+++++	0.59052	0.44811	0.44135	0.43087	0.43594		
	0.44151						0.46472	13.321
95 Methyl Cyclohexane	+++++	3.66649	2.66682	2.81630	2.87701	2.89718		
	2.93601						2.97664	11.787
96 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1,2-Dichloropropane	+++++	0.43495	0.38196	0.43798	0.43283	0.44503		
	0.44367						0.42940	5.525
98 1,4-Dioxane	+++++	+++++	0.23937	0.23623	0.23774	0.24102		
	0.24618						0.24011	1.597
99 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
100 Bromodichloromethane	+++++	0.56927	0.62096	0.64628	0.64530	0.67810		
	0.68758						0.64125	6.667

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 cis-1,3-Dichloropropene	+++++	0.67137	0.52521	0.53435	0.52973	0.54879		
	0.55881						0.56138	9.855
103 4-Methyl-2-pentanone	+++++	0.38615	0.38580	0.38568	0.37960	0.37851		
	0.39624						0.38533	1.639
105 Toluene	+++++	1.29797	1.02778	1.11110	1.11081	1.15595		
	1.15650						1.14335	7.793
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
108 trans-1,3-Dichloropropene	+++++	0.54839	0.64586	0.65499	0.67985	0.68506		
	0.70385						0.65300	8.480
109 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 1,1,2-Trichloroethane	+++++	0.51277	0.40769	0.43927	0.44981	0.44180		
	0.44576						0.44952	7.660
111 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Tetrachloroethene	+++++	0.69421	0.48549	0.55949	0.57078	0.57261	0.57231	0.57581	11.647
113 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 2-Hexanone	+++++	+++++	0.51192	0.62787	0.64766	0.66079	0.64971	0.61959	9.901
115 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Dibromochloromethane	+++++	0.68340	0.52282	0.58062	0.63689	0.67458	0.68133	0.62994	10.396
117 1,2-Dibromoethane	0.80077	0.83536	0.65695	0.69161	0.71259	0.71698	0.71102	0.73218	8.587
118 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	1.25905	0.99706	1.10138	1.10212	1.10426	1.12132	1.11420	7.526
127 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
129 Ethyl Benzene	+++++	0.69315	0.49483	0.55240	0.57032	0.57777	0.58051	0.57816	11.181
130 m,p-Xylene	+++++	0.88263	0.67435	0.69502	0.74086	0.74156	0.75343	0.74798	9.729
131 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.77446	0.65948	0.70229	0.74138	0.72675	0.72319	0.72126	5.350

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Styrene	0.99596	1.08491	0.91023	1.08156	1.15742	1.18352	1.21905	1.09038	9.991
135 Bromoform	+++++	0.55024	0.42598	0.54560	0.59670	0.62898	0.64227	0.56496	13.935
136 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Cumene	2.22452	1.99285	1.93297	2.08285	2.15869	2.18223	1.99606	2.08145	5.328
138 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
144 1,1,2,2-Tetrachloroethane	+++++	1.00724	1.02105	1.00547	1.04222	1.05161		
	1.05082						1.02973	2.060
145 Propylbenzene	+++++	2.39094	2.23432	2.60574	2.76439	2.85333		
	2.03674						2.48091	12.757
146 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 4-Ethyltoluene	+++++	1.89310	1.78542	2.14098	2.25994	2.34063		
	2.10942						2.08825	10.185
148 1,3,5-Trimethylbenzene	2.21834	1.71808	1.68886	1.80927	1.82530	1.85862		
	1.86762						1.85516	9.375
149 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
151 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
152 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
153 1,2,4-Trimethylbenzene	2.09215	1.81876	1.81478	1.93013	2.03538	2.00226		
	1.79019						1.92624	6.277

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	200.000 Level 7							
154 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
156 1,3-Dichlorobenzene	+++++	1.03487	1.02074	1.03124	1.08577	1.08379		
	1.07943						1.05597	2.844
157 1,4-Dichlorobenzene	+++++	1.29476	1.42625	1.37855	1.38531	1.37308		
	1.37601						1.37233	3.117
158 alpha-Chlorotoluene	+++++	1.03736	1.25163	1.48872	1.61853	1.62485		
	1.73656						1.45961	18.169
159 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
160 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dichlorobenzene	+++++	1.30308	1.08985	1.11037	1.16261	1.11803		
	1.09224						1.14603	7.094
162 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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	200.000 Level 7							
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
166 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 1,2,4-Trichlorobenzene	+++++	+++++	1.31543	1.00141	1.08683	1.07595		
	1.08592						1.11311	10.651
168 Hexachlorobutadiene	+++++	+++++	0.80771	0.69978	0.69826	0.68134		
	0.64813						0.70704	8.484
169 Naphthalene	+++++	+++++	2.91068	2.09713	2.25133	2.27801		
	1.96060						2.29955	15.861
170 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
171 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
198 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
199 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 82 1,2-Dichloroethane-d4	1.77263	1.75173	1.72268	1.75319	1.81450	1.84990	2.00509	1.80996	5.305
$ 104 Toluene-d8	0.95085	0.94407	0.94682	0.94864	0.95745	0.96588	1.00377	0.95964	2.168
$ 140 Bromofluorobenzene	0.55614	0.55697	0.55460	0.57167	0.58012	0.57307	0.57307	0.56652	1.821

Calibration History

Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Start Cal Date: 04-JUN-2008 13:36
End Cal Date : 04-JUN-2008 16:24

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
04-JUN-2008 13:36	AFCEElow	/chem/msd8.i/8-04jun.b/8060408.d
Cal Level: 2 , Cal Amount: 0.50000		
04-JUN-2008 14:03	AT08Low	/chem/msd8.i/8-04jun.b/8060409.d
Cal Level: 3 , Cal Amount: 2.00000		
04-JUN-2008 14:31	AT08mdl	/chem/msd8.i/8-04jun.b/8060410.d
Cal Level: 4 , Cal Amount: 25.00000		
04-JUN-2008 14:59	AT08mdl	/chem/msd8.i/8-04jun.b/8060411.d
Cal Level: 5 , Cal Amount: 50.00000		
04-JUN-2008 15:27	AT08mdl	/chem/msd8.i/8-04jun.b/8060412.d
Cal Level: 6 , Cal Amount: 100.00000		
04-JUN-2008 15:54	AT08mdl	/chem/msd8.i/8-04jun.b/8060413.d
Cal Level: 7 , Cal Amount: 200.00000		
04-JUN-2008 16:24	AT08mdl	/chem/msd8.i/8-04jun.b/8060414.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
04-JUN-2008 15:27 | AT08mdl | /chem/msd8.i/8-04jun.b/8060412a.d
Ccal Level: 5 , Ccal Amount: 50.000
04-JUN-2008 15:27 | AT08mdl | /chem/msd8.i/8-04jun.b/8060412.d

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.18
75	30.0 – 60.0% of mass 95	49.23
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.01
173	Less than 2.0% of mass 174	(0.02)[1]
174	50.0 – 100% of mass 95	67.50
175	5.0 – 9.0% of mass 174	(7.45)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.12)[1]
177	5.0 – 9.0% of mass 176	(6.33)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 6/4/08
BFB Injection Time: 1107
BFB File ID: 8060405
Tekmar Purge Flow: 15.5 ml/min
Vacuum: 1.0x10^-5

IS/S Std.#: 1612-26	Exp. Date: 8/28/08
BCM	315196
1,4-DFB	1363279
CB-d5	1057207

Verified CCV IS vs ICAL mid-point (- 40%D) SS *initials*

Verify 176/174 m/z Ratio: (1150976 / 1197056) x100 = 96.151

NOAH Cart #: NA File #: NA

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(\quad)}{(\quad)} =$

Reported Result ______

File ID:
Compound:
Initials: SS 6/4/08

Method: t14q604a.b

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8060405	BFB Tune Check	1426278	50µg	2.0µl	1.00	SS	6/4/08	1107	SS	
2	X	06	System Blank	13673	Humid	50ml				1152	SS	
3	X	07	System Blank	↓	↓	200ml				1243	SS	
4	✓	08	ICAL Level 1	1612-19	0.3ppbv	0.3ml				1336	SS	T14q604a
5	✓	09	2	1ppbv	0.5ppbv	0.5ml				1403	SS	
6	✓	10	3		2.0ppbv	2.0ml				1431	SS	
7	✓	11	4	↓	25ppbv	25ml	↓	↓	↓	1459	SS	

Signature Date: 6/4/08

0058

@ Air Toxics Ltd. **MSD-8** **Logbook #: 1647**

8	✓	8060412	ICAL Level 5	1612-22 (19)	50ppbv	50ml	1.00	SG	6/4/08	1527	SS	
9	✓	↓ 13	↓ 6	↓	100ppbv	100ml	↓	↓	↓	1554	SS	
10	✓	14	7		200ppbv	200ml				1624	SS	
11	✓	15	System Blank	13673	Humid	200ml	1.00		6/5/08	0745	SS	
12	✓	16	1576-33xx 100ppbv	LCS	50ppbv	100ml	1.00			0906	SS	ICAL LCS
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												

ES 6/5/08

Comments: Flow Controller SN AA9506172 Nominal - 22.0 ml/min

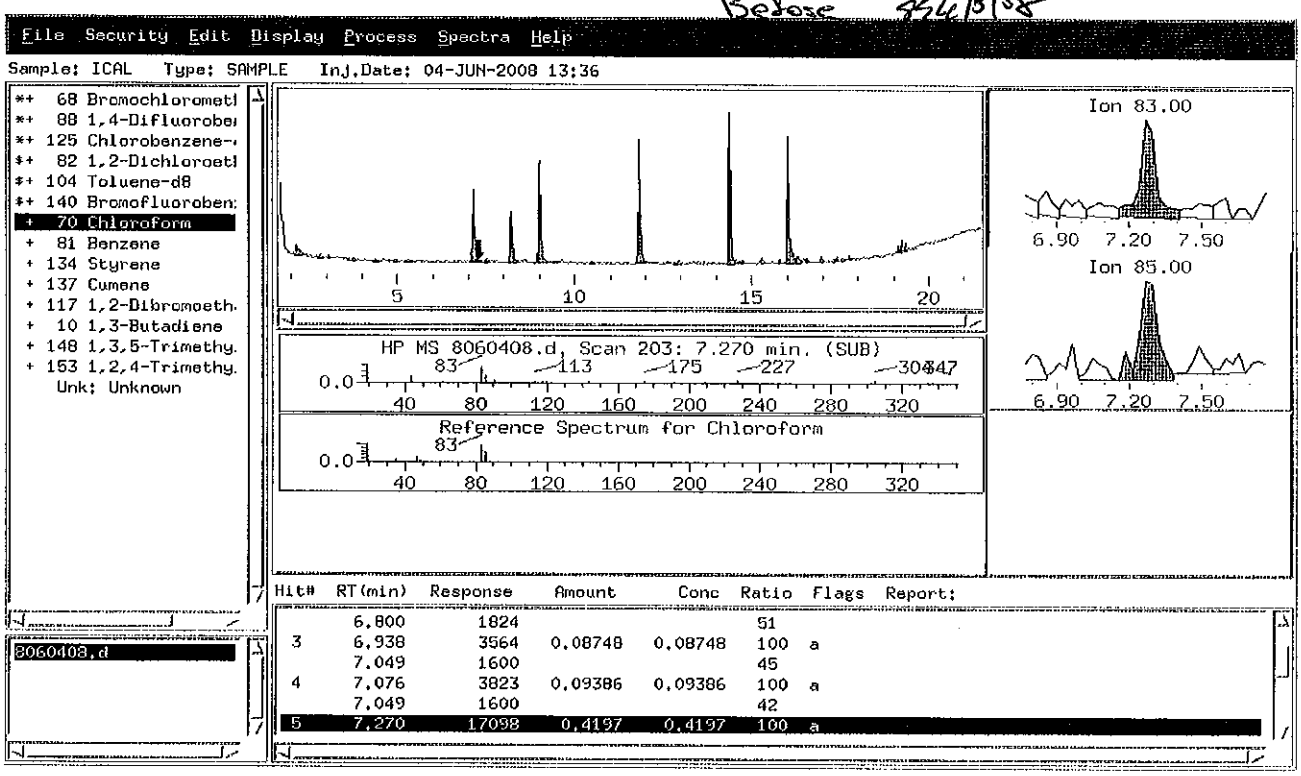
NIST Flow Meter SN 260-7749 Exp 8/08 Actual - 25.0 ml/min

Signature: [signature]

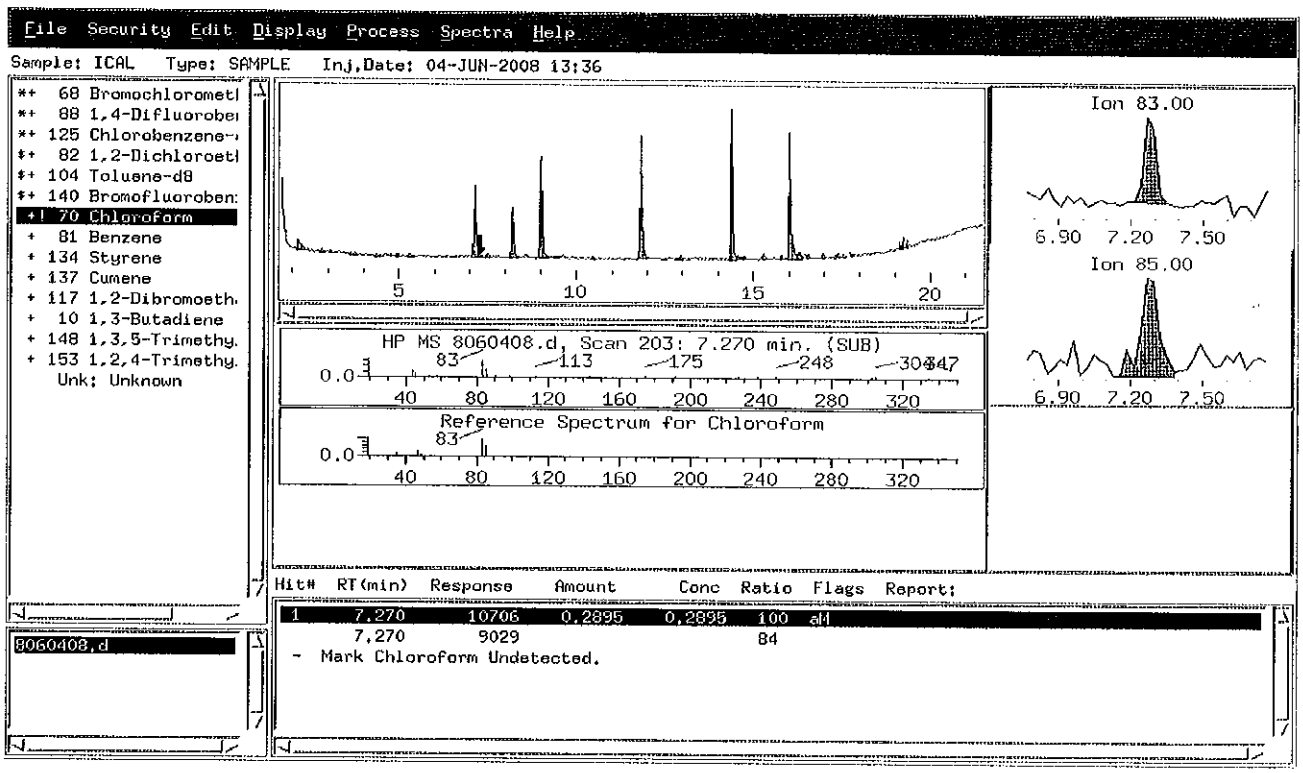
Date: 6/5/08

Revision 01/2008

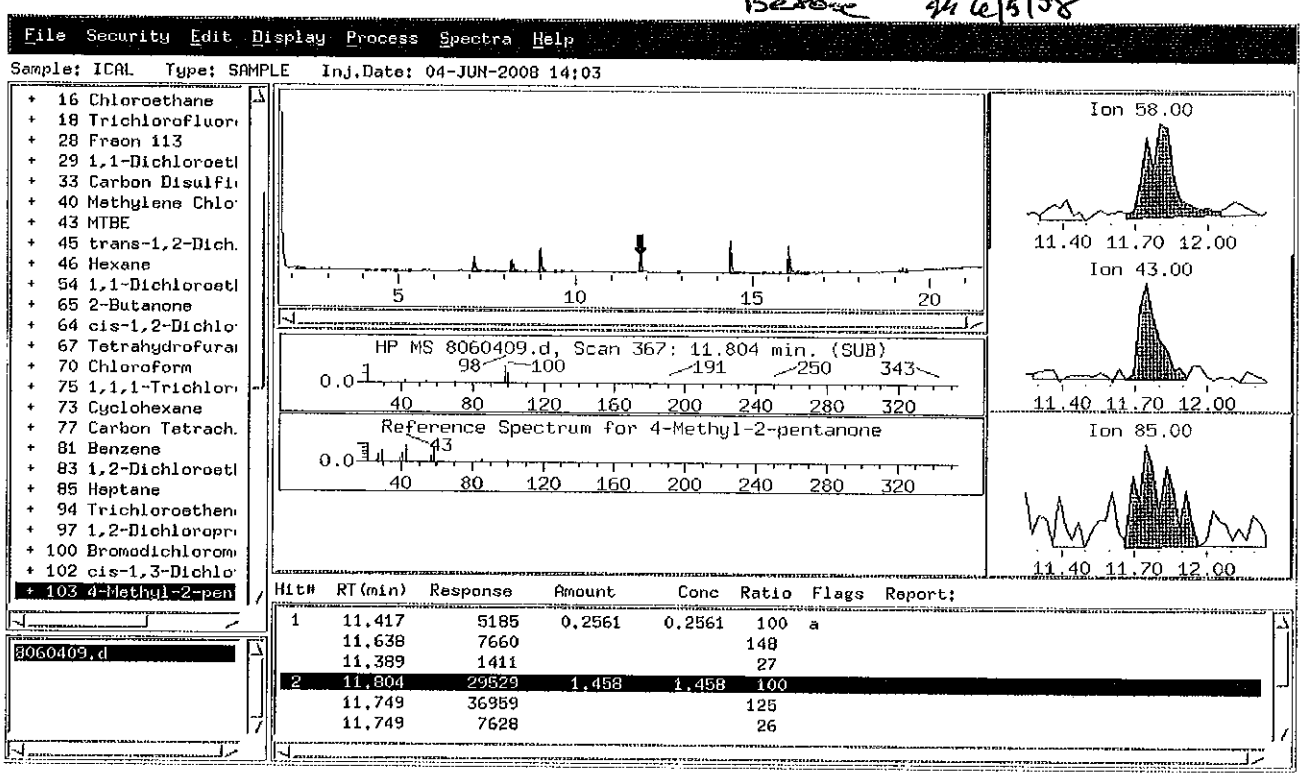
Before 4/4/5/08



Team A	
Date/Initial	6/5/08
Poor Integration	✓
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	



Before 44 6/5/08



Team A

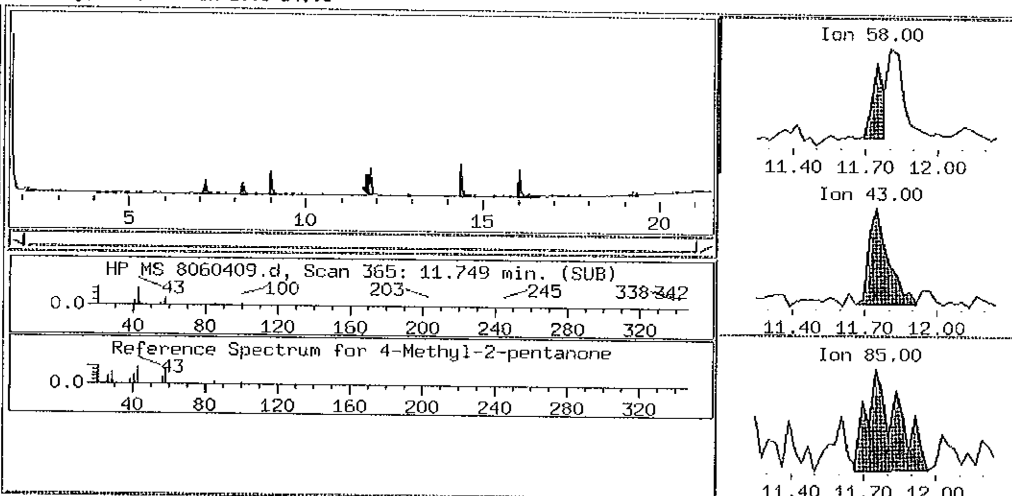
Date/Initial	05/05/08 [illegible]
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	✓

File Security Edit Display Process Spectra Help

Sample: ICAL Type: SAMPLE Inj.Date: 04-JUN-2008 14:03

+ 16 Chloroethane
+ 18 Trichlorofluor
+ 28 Freon 113
+ 29 1,1-Dichloroetl
+ 33 Carbon Disulfi
+ 40 Methylene Chlo
+ 43 MTBE
+ 45 trans-1,2-Dich.
+ 46 Hexane
+ 54 1,1-Dichloroetl
+ 65 2-Butanone
+ 64 cis-1,2-Dichlo
+ 67 Tetrahydrofura
+ 70 Chloroform
+ 75 1,1,1-Trichlor
+ 73 Cyclohexane
+ 77 Carbon Tetrach.
+ 81 Benzene
+ 83 1,2-Dichloroetl
+ 85 Heptane
+ 94 Trichloroethen
+ 97 1,2-Dichloropr
+ 100 Bromodichlorom
+ 102 cis-1,3-Dichlo
+ 103 4-Methyl-2-pen

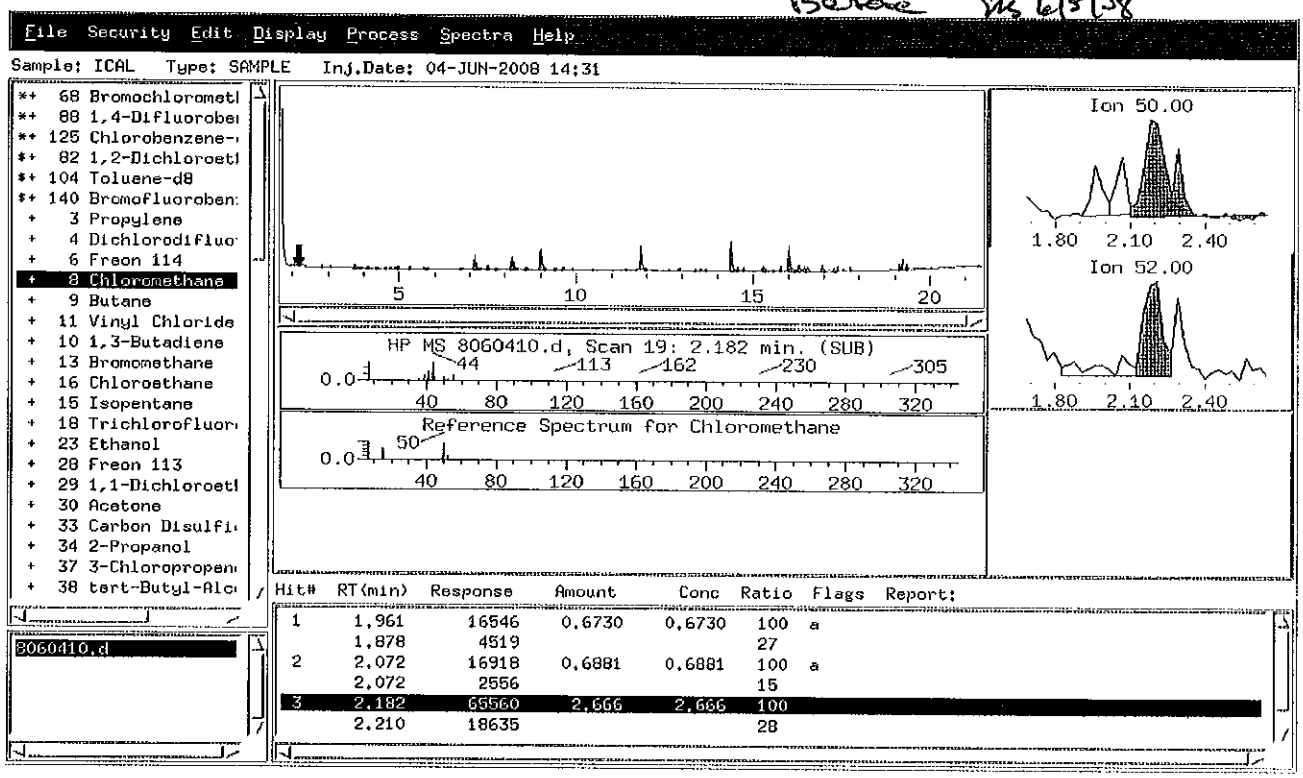
8060409.d



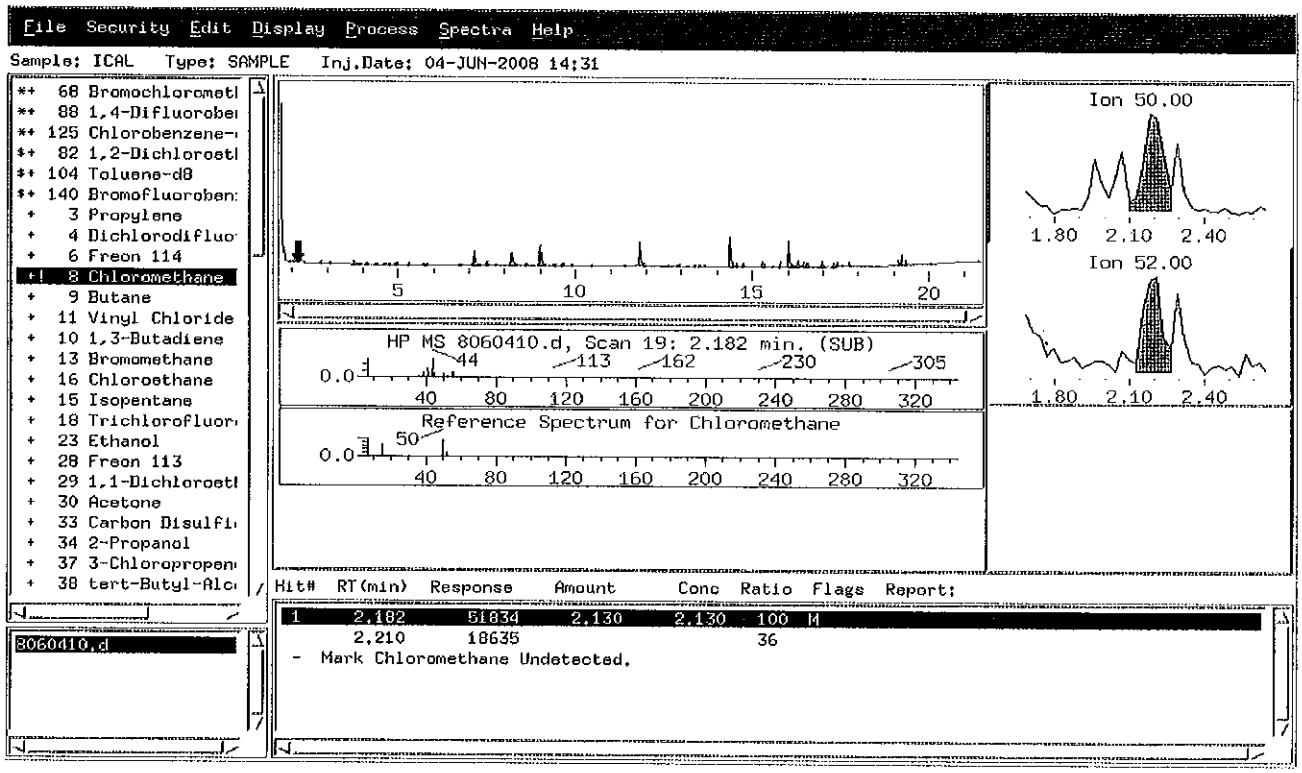
Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	11.749	10193	0.5087	0.5087	100	M	
	11.749	36959			363		
	11.749	7628			75		

- Mark 4-Methyl-2-pentanone Undetected.

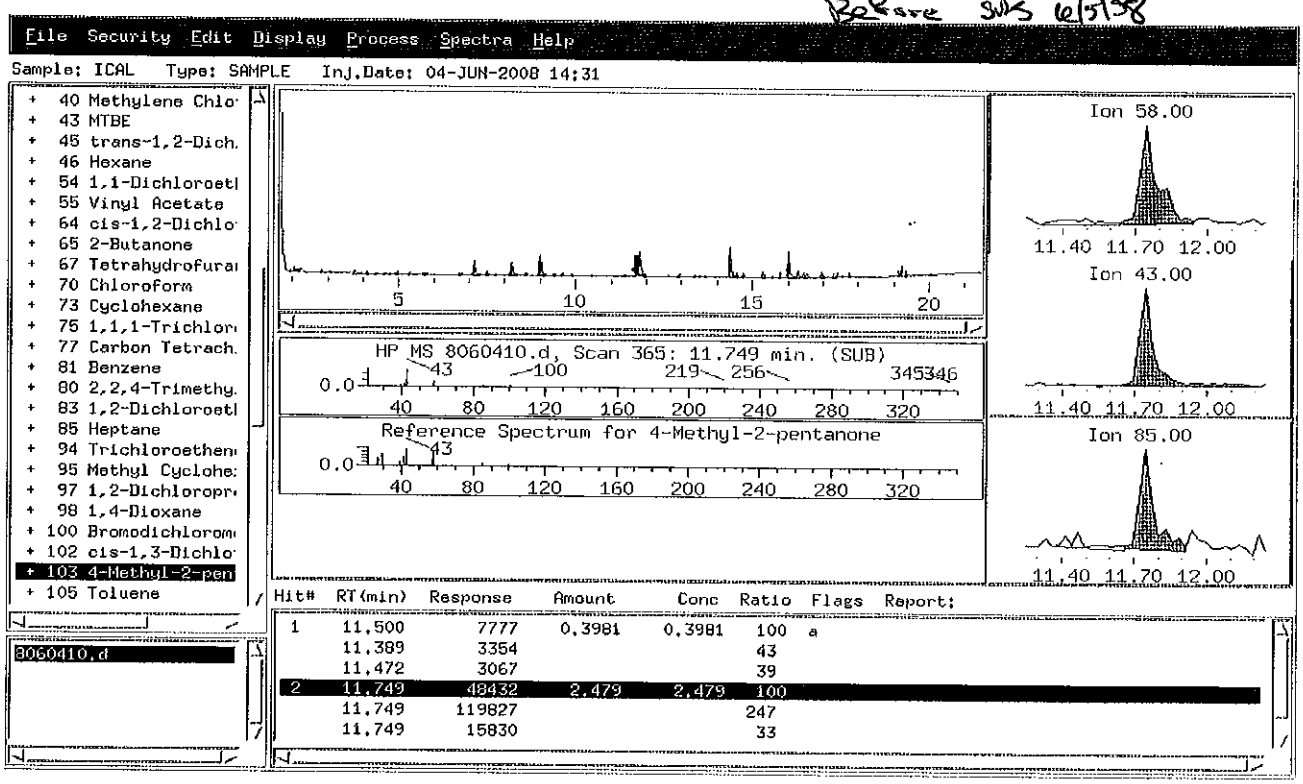
Below MS 6/5/08



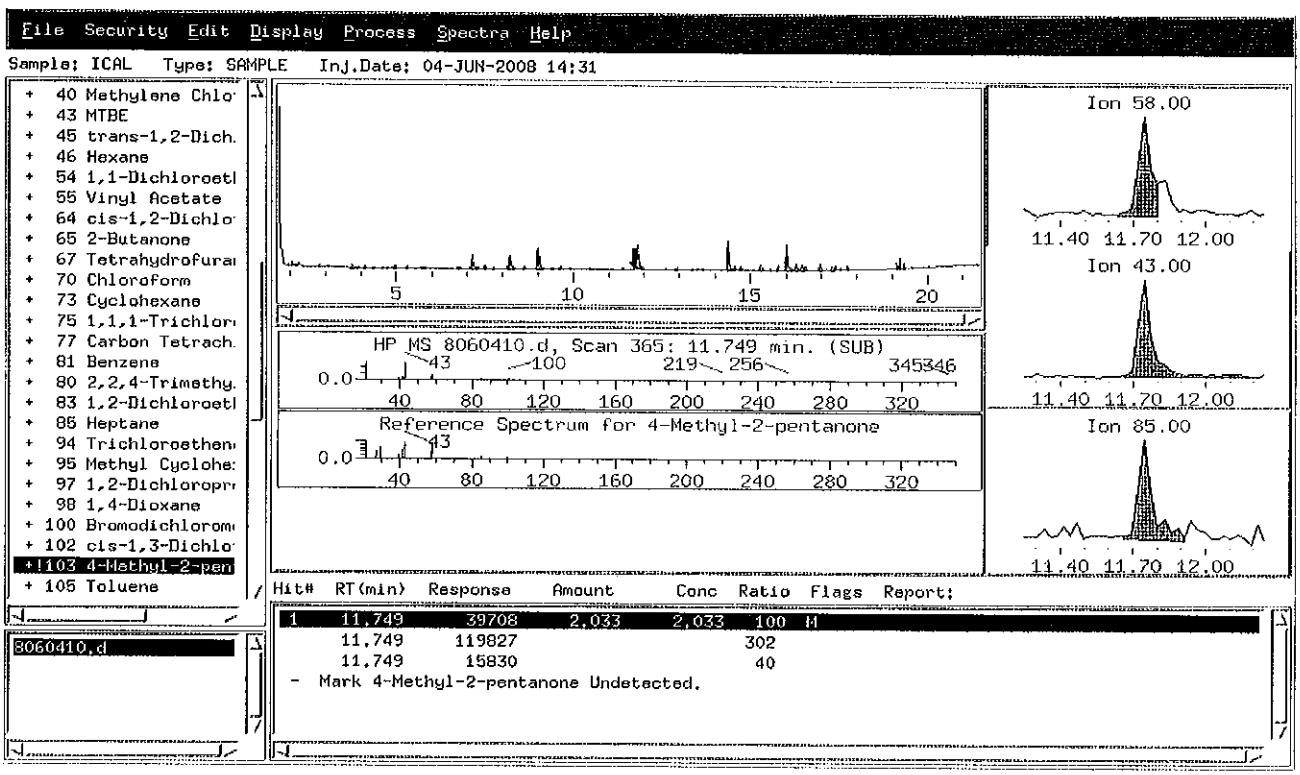
Team A	
Date/Initial	6/5/08
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	✓



Before SWS 6/5/08



Team A	
Date/Initial	6/6 6/5/08
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	✓



Air Toxics Ltd.

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060416.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 05-JUN-2008 09:06
Operator : kr Inst ID: msd8.i
Smp Info : 100mL #1576-336A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:59 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane						CAS #: 74-97-5		
7.131	7.131 (1.000)	130	322734	25.0000			80.00- 120.00	100.00
7.131	7.131 (1.000)	128	251530				46.35- 106.35	77.94
7.131	7.131 (1.000)	49	681261				182.20- 242.20	211.09
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1375007	25.0000			80.00- 120.00	100.00
8.984	8.984 (1.000)	88	237807				0.00- 46.89	17.30
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1084969	25.0000			80.00- 120.00	100.00
14.376	14.376 (1.000)	82	696516				0.00- 30.00	64.20
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.182	8.182 (1.147)	65	582484	24.9293	24.929		80.00- 120.00	100.00
8.210	8.210 (1.151)	67	337257				0.00- 30.00	57.90
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1300976	24.6488	24.649		80.00- 120.00	100.00
11.832	11.832 (1.313)	70	157926				0.00- 30.00	12.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	951968			0.00- 30.00	73.17
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	620087	25.2209	25.221	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	978535			124.57- 184.57	157.81
16.035	16.035 (1.115)	176	599114			69.57- 129.57	96.62
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	1153099	55.6550	55.655	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	799224			0.00- 30.00	69.31
1.906	1.906 (0.267)	39	879694			0.00- 30.00	76.29
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	3089187	56.5889	56.589	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	942963			0.00- 30.00	30.52
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	1935240	51.7846	51.785	80.00- 120.00	100.00
2.044	2.044 (0.287)	137	610996			2.05- 62.05	31.57
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	1291443	51.6383	51.638	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	385750			0.00- 30.00	29.87
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	1386130	54.4085	54.408	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	415649			0.00- 30.00	29.99
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	1073692	49.7642	49.764	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	893734			0.00- 30.00	83.24
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	776562	58.0795	58.079	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	721055			60.83- 120.83	92.85
16 Chloroethane					CAS #: 75-00-3		
2.790	2.790 (0.391)	64	675262	56.2421	56.242	80.00- 120.00	100.00
2.790	2.790 (0.391)	49	204771			0.00- 30.00	30.32
2.790	2.790 (0.391)	66	204886			0.00- 30.00	30.34
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	3068280	56.4419	56.442	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	1972457			34.77- 94.77	64.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	552449	58.3733	58.373	80.00- 120.00	100.00
3.343	3.343 (0.469)	43	120262			0.00- 30.00	21.77
3.343	3.343 (0.469)	46	219620			0.00- 30.00	39.75
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1735596	61.5237	61.524	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	1113811			32.60- 92.60	64.17
3.731	3.758 (0.523)	101	2363541			104.39- 164.39	136.18
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	2291389	60.5402	60.540	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	1119672			20.29- 80.29	48.86
3.786	3.786 (0.531)	98	710349			1.66- 61.66	31.00
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	746205	63.9421	63.942	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	2689320			0.00- 30.00	360.40
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	2560114	55.8289	55.829	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	574871			0.00- 30.00	22.45
4.090	4.090 (0.574)	59	87650			0.00- 30.00	3.42
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	3310887	56.1157	56.116	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	558859	58.3521	58.352	80.00- 120.00	100.00
4.366	4.366 (0.612)	41	2070237			0.00- 30.00	370.44
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	1732343	57.9836	57.984	80.00- 120.00	100.00
4.588	4.588 (0.643)	84	1007398			27.77- 87.77	58.15
4.588	4.588 (0.643)	51	506551			0.00- 30.00	29.24
43 MTBE					CAS #: 1634-04-4		
4.919	4.919 (0.690)	73	2617387	56.7908	56.791	80.00- 120.00	100.00
4.919	4.919 (0.690)	57	732048			0.00- 57.46	27.97
4.919	4.919 (0.690)	41	778249			0.00- 30.00	29.73
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	1144187	56.3414	56.341	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	2068388			150.79- 210.79	180.77
4.975	4.975 (0.698)	98	739460			0.00- 30.00	64.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	2439233	57.5236	57.524	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	1671799			0.00- 30.00	68.54
5.307	5.307 (0.744)	86	342607			0.00- 30.00	14.05
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	2443387	59.6336	59.634	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	727298			0.00- 59.89	29.77
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	278524	54.0166	54.016	80.00- 120.00	100.00
5.777	5.777 (0.810)	43	4021980			0.00- 30.00	1444.03
5.777	5.777 (0.810)	42	333322			0.00- 30.00	119.67
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	575444	53.0561	53.056	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	3060591			519.71- 579.71	531.87
6.772	6.772 (0.950)	57	226763			0.00- 30.00	39.41
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1800140	55.2664	55.266	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	1071403			31.09- 91.09	59.52
6.717	6.717 (0.942)	98	697542			9.46- 69.46	38.75
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	1776172	48.6240	48.624	80.00- 120.00	100.00
7.131	7.131 (1.000)	71	512257			0.00- 58.75	28.84
7.131	7.131 (1.000)	72	552445			0.00- 30.00	31.10
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	2160666	56.5521	56.552	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	1404917			35.26- 95.26	65.02
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	2190289	56.0071	56.007	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1407062			34.76- 94.76	64.24
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	1656488	54.3318	54.332	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	2434033			118.28- 178.28	146.94
7.491	7.491 (1.050)	41	1445060			58.77- 118.77	87.24
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	2027183	57.1748	57.175	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	2090171			71.66- 131.66	103.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.210 (1.147)	57	7416181	57.1625	57.162	80.00- 120.00	100.00
8.182	8.210 (1.147)	56	2308796			0.00- 30.00	31.13
8.182	8.182 (1.147)	41	2061465			0.00- 30.00	27.80
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	3336068	54.2150	54.215	80.00- 120.00	100.00
8.154	8.154 (0.905)	77	798285			0.00- 30.00	23.93
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1739675	56.0970	56.097	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	549112			0.00- 30.00	31.56
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	376496	51.5805	51.580	80.00- 120.00	100.00
8.569	8.597 (0.951)	43	2829752			0.00- 30.00	751.60
8.597	8.597 (0.954)	71	1255430			0.00- 30.00	333.45
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1354502	52.9938	52.994	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	1220870			60.31- 120.31	90.13
9.399	9.399 (1.043)	97	844658			31.76- 91.76	62.36
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	1337598	56.6365	56.636	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	926725			40.22- 100.22	69.28
9.896	9.896 (1.098)	41	902597			38.39- 98.39	67.48
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	721765	54.6546	54.655	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	650872			61.01- 121.01	90.18
10.145	10.145 (1.126)	57	221012			0.00- 30.00	30.62
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	2031525	57.6011	57.601	80.00- 120.00	100.00
10.449	10.449 (1.160)	85	1306893			34.65- 94.65	64.33
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	1649782	53.4328	53.433	80.00- 120.00	100.00
11.389	11.389 (1.264)	77	509253			1.90- 61.90	30.87
11.389	11.389 (1.264)	39	1127930			40.41- 100.41	68.37
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	1146628	54.1038	54.104	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	3257064			0.00- 30.00	284.06
11.749	11.749 (1.304)	85	402423			0.00- 30.00	35.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	3652523	58.0829	58.083	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	2173431			28.89- 88.89	59.50
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1675180	59.1114	59.111	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	519549			0.87- 60.87	31.01
12.606	12.606 (0.877)	39	1078333			36.13- 96.13	64.37
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	1093494	56.0525	56.052	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	676379			32.06- 92.06	61.85
12.910	12.910 (0.898)	83	972784			58.01- 118.01	88.96
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1418798	56.7757	56.776	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	1062206			42.91- 102.91	74.87
12.938	12.938 (0.900)	131	1013730			41.46- 101.46	71.45
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1416827	52.6907	52.691	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	2958811			176.61- 236.61	208.83
13.353	13.353 (0.929)	100	221363			0.00- 30.00	15.62
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1624501	59.4214	59.421	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1252749			0.00- 30.00	77.12
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1711093	53.8490	53.849	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1586762			65.39- 125.39	92.73
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	2651788	54.8402	54.840	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	823360			0.36- 60.36	31.05
14.403	14.403 (1.002)	77	1784822			36.13- 96.13	67.31
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	1378714	54.9473	54.947	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	4575643			0.00- 30.00	331.88
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1760948	54.2478	54.248	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	3760656			0.00- 30.00	213.56
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1769093	56.5174	56.517	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	3990994			192.54- 252.54	225.60
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	2558917	54.0756	54.076	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	1360339			23.06- 83.06	53.16
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1468915	59.9102	59.910	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	760548			21.66- 81.66	51.78
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	2526295	56.5303	56.530	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1615721			34.05- 94.05	63.96
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	5258087	58.0188	58.019	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1491547			0.00- 58.10	28.37
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	4188302	52.0212	52.021	80.00- 120.00	100.00
16.560	16.532 (1.152)	120	1991781			0.00- 30.00	47.56
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	4550668	54.4363	54.436	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1924954			13.27- 73.27	42.30
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2528146	55.1661	55.166	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1589710			0.00- 30.00	62.88
17.279	17.279 (1.202)	111	1187444			0.00- 30.00	46.97
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	3216973	54.0147	54.015	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	2028264			0.00- 30.00	63.05
17.389	17.389 (1.210)	111	1411841			0.00- 30.00	43.89
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	3543909	55.9459	55.946	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	663619			0.00- 30.00	18.73
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2495372	50.1720	50.172	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1562281			31.73- 91.73	62.61
17.749	17.749 (1.235)	111	1290242			18.87- 78.87	51.71

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	2593368	53.6846	53.685	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2477882			65.63- 125.63	95.55
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1570547	51.1832	51.183	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	988739			33.81- 93.81	62.96
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	6792631	63.0884	63.088	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1476914			0.00- 30.00	21.74
16.311	16.311 (1.135)	105	226128			0.00- 30.00	3.33
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	5277187	58.4196	58.420	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1389359			0.00- 30.00	26.33
15.786	15.786 (1.098)	51	710559			0.00- 30.00	13.46
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4614977	46.2433	46.243	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	579438			0.00- 30.00	12.56
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1713331	56.3765	56.376	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	463705			0.00- 30.00	27.06
4.726	4.726 (0.663)	57	187840			0.00- 30.00	10.96
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	285052	50.2717	50.272	80.00- 120.00	100.00
2.237	2.237 (0.314)	43	2359020			0.00- 30.00	827.57
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	1927028	54.2334	54.233	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	1242678			0.00- 30.00	64.49
2.818	2.818 (0.395)	72	114532			0.00- 30.00	5.94
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	2121540	55.2103	55.210	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	946601			0.00- 30.00	44.62
9.620	9.620 (1.349)	55	2162281			0.00- 30.00	101.92

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060416.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	322734	2.39
88 1,4-Difluorobenze	1363279	817967	1908591	1375007	0.86
125 Chlorobenzene-d5	1087207	652324	1522090	1084969	-0.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 05-Jun-2008 10:00

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-04jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	54.076	108.15	70-130
108 trans-1,3-Dichloro	50.000	59.111	118.22	70-130
3 Propylene	50.000	55.655	111.31	60-140
4 Dichlorodifluorome	50.000	56.589	113.18	70-130
6 Freon 114	50.000	51.785	103.57	70-130
8 Chloromethane	50.000	51.638	103.28	70-130
11 Vinyl Chloride	50.000	54.408	108.82	70-130
10 1,3-Butadiene	50.000	49.764	99.53	60-140
13 Bromomethane	50.000	58.079	116.16	70-130
16 Chloroethane	50.000	56.242	112.48	70-130
18 Trichlorofluoromet	50.000	56.442	112.88	70-130
23 Ethanol	50.000	58.373	116.75	60-140
28 Freon 113	50.000	61.524	123.05	70-130
29 1,1-Dichloroethene	50.000	60.540	121.08	70-130
30 Acetone	50.000	63.942	127.88	60-140
33 Carbon Disulfide	50.000	56.116	112.23	60-140
34 2-Propanol	50.000	55.829	111.66	60-140
40 Methylene Chloride	50.000	57.984	115.97	70-130
43 MTBE	50.000	56.791	113.58	60-140
45 trans-1,2-Dichloro	50.000	56.341	112.68	60-140
46 Hexane	50.000	57.524	115.05	60-140
54 1,1-Dichloroethane	50.000	59.634	119.27	70-130
55 Vinyl Acetate	50.000	54.016	108.03	60-140
64 cis-1,2-Dichloroet	50.000	55.266	110.53	70-130
65 2-Butanone	50.000	53.056	106.11	60-140
67 Tetrahydrofuran	50.000	48.624	97.25	60-140
70 Chloroform	50.000	56.552	113.10	70-130
73 Cyclohexane	50.000	54.332	108.66	60-140
75 1,1,1-Trichloroeth	50.000	56.007	112.01	70-130
77 Carbon Tetrachlori	50.000	57.175	114.35	70-130
81 Benzene	50.000	54.215	108.43	70-130
83 1,2-Dichloroethane	50.000	56.097	112.19	70-130
85 Heptane	50.000	51.580	103.16	60-140

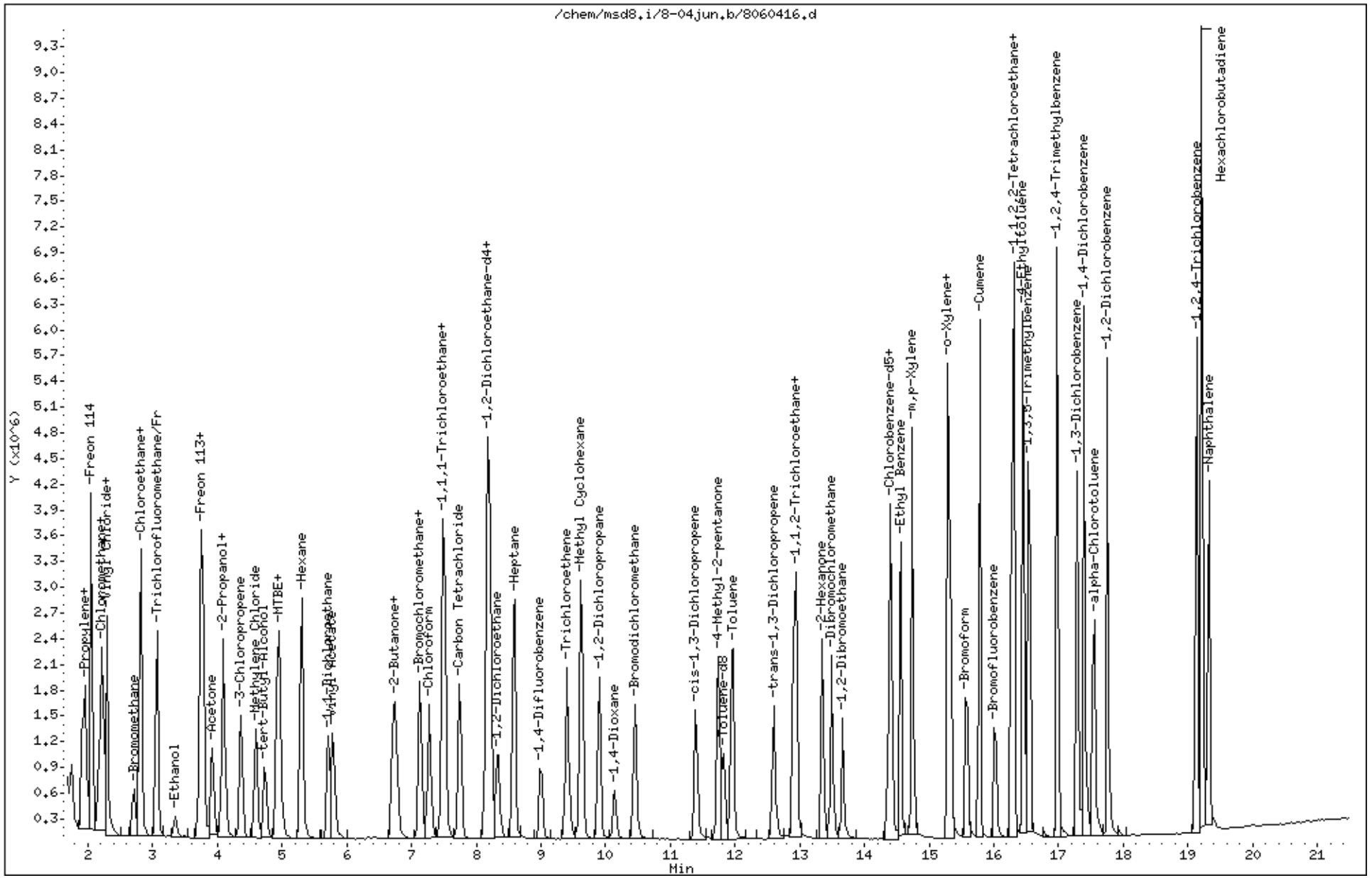
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	52.994	105.99	70-130
97 1,2-Dichloropropan	50.000	56.636	113.27	70-130
98 1,4-Dioxane	50.000	54.655	109.31	60-140
100 Bromodichlorometha	50.000	57.601	115.20	60-140
102 cis-1,3-Dichloropr	50.000	53.433	106.87	70-130
103 4-Methyl-2-pentano	50.000	54.104	108.21	60-140
105 Toluene	50.000	58.083	116.17	70-130
110 1,1,2-Trichloroeth	50.000	56.052	112.10	70-130
112 Tetrachloroethene	50.000	56.776	113.55	70-130
114 2-Hexanone	50.000	52.691	105.38	60-140
116 Dibromochlorometha	50.000	59.421	118.84	60-140
117 1,2-Dibromoethane	50.000	53.849	107.70	70-130
126 Chlorobenzene	50.000	54.840	109.68	70-130
129 Ethyl Benzene	50.000	54.947	109.89	70-130
130 m,p-Xylene	50.000	54.248	108.50	70-130
132 o-Xylene	50.000	56.517	113.03	70-130
135 Bromoform	50.000	59.910	119.82	60-140
144 1,1,2,2-Tetrachlor	50.000	56.530	113.06	70-130
147 4-Ethyltoluene	50.000	58.019	116.04	60-140
148 1,3,5-Trimethylben	50.000	52.021	104.04	70-130
153 1,2,4-Trimethylben	50.000	54.436	108.87	70-130
156 1,3-Dichlorobenzen	50.000	55.166	110.33	70-130
157 1,4-Dichlorobenzen	50.000	54.015	108.03	70-130
158 alpha-Chlorotoluen	50.000	55.946	111.89	70-130
161 1,2-Dichlorobenzen	50.000	50.172	100.34	70-130
167 1,2,4-Trichloroben	50.000	53.685	107.37	70-130
168 Hexachlorobutadien	50.000	51.183	102.37	70-130
137 Cumene	50.000	58.420	116.84	60-140
145 Propylbenzene	50.000	63.088	126.18	60-140
37 3-Chloropropene	50.000	58.352	116.70	60-140
80 2,2,4-Trimethylpen	50.000	57.162	114.32	60-140
169 Naphthalene	50.000	46.243	92.49	60-140
9 Butane	50.000	50.272	100.54	70-130
15 Isopentane	50.000	54.233	108.47	70-130
95 Methyl Cyclohexane	50.000	55.210	110.42	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	24.929	99.72	70-130
$ 104 Toluene-d8	25.000	24.649	98.60	70-130
$ 140 Bromofluorobenzene	25.000	25.221	100.88	70-130

Data File: /chem/msd8.i/8-04jun.b/8060416.d
Date : 05-JUN-2008 09:06
Client ID: LCS-1
Sample Info: 100mL #1576-336A

Instrument: msd8.i
Operator: kr
Column phase: RTx-624
Column diameter: 0.53

0080



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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060408.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 04-JUN-2008 13:36
Operator : kr Inst ID: msd8.i
Smp Info : 0.3mL #1612-19
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 13:36 Cal File: 8060408.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.132 (1.000)	130	318042	25.0000		70.00- 130.00	100.00
7.132	7.132 (1.000)	128	248192			46.35- 106.35	78.04
7.132	7.132 (1.000)	49	686600			182.20- 242.20	215.88
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1349302	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	218984			0.00- 46.89	16.23
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1091659	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	693330			0.00- 30.00	63.51
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	563771	25.0000	24.708	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	282290			0.00- 30.00	50.07
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1282981	25.0000	24.914	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	157938			0.00- 30.00	12.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	849354			0.00- 30.00	66.20
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	607110	25.0000	24.472	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	947788			124.57- 184.57	156.11
16.035	16.035 (1.115)	176	576668			69.57- 129.57	94.99
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	10706	0.30000	0.2946	70.00- 130.00	100.00(aM)
7.270	7.270 (1.019)	85	9029			35.26- 95.26	84.34
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	20750	0.30000	0.3256	70.00- 130.00	100.00(a)
8.182	8.182 (0.908)	77	6397			0.00- 30.00	30.83
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	13047	0.30000	0.2775	70.00- 130.00	100.00(a)
15.343	15.343 (1.067)	78	7497			23.06- 83.06	57.46
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	29141	0.30000	0.3045	70.00- 130.00	100.00(a)
15.786	15.786 (1.098)	120	10516			0.00- 30.00	36.09
15.786	15.786 (1.098)	51	3682			0.00- 30.00	12.64
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	10490	0.30000	0.3175	70.00- 130.00	100.00(a)
13.657	13.657 (0.950)	109	10557			65.39- 125.39	100.64
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	8375	0.30000	0.3485	70.00- 130.00	100.00(a)
2.293	2.293 (0.322)	39	5298			0.00- 30.00	63.26
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.560	16.560 (1.152)	105	29060	0.30000	0.3292	70.00- 130.00	100.00(a)
16.560	16.560 (1.152)	120	10945			0.00- 30.00	37.66
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	27407	0.30000	0.3041	70.00- 130.00	100.00(a)
16.975	16.975 (1.181)	120	10984			13.27- 73.27	40.08

QC Flag Legend

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

QC Flag Legend

M - Compound response manually integrated.

Report Date: 05-Jun-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060408.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	318042	0.90
88 1,4-Difluorobenze	1363279	817967	1908591	1349302	-1.03
125 Chlorobenzene-d5	1087207	652324	1522090	1091659	0.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-04jun.b/8060408.d

Date : 04-JUN-2008 13:36

Client ID: Level 1

Sample Info: 0.3mL #1612-19

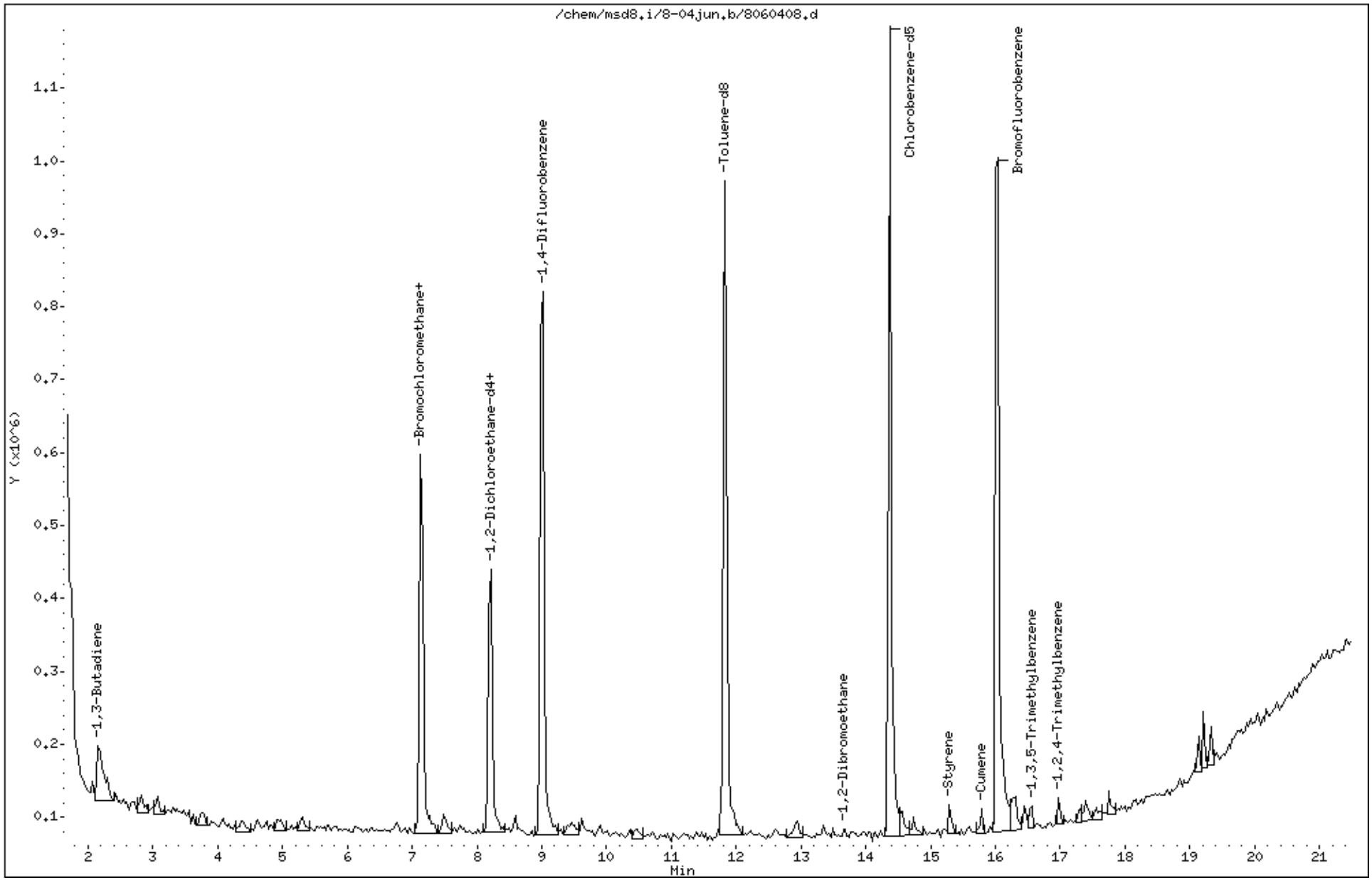
Column phase: RTx-624

Instrument: msd8.i

Operator: kr

Column diameter: 0.53

0085



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060409.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 04-JUN-2008 14:03
Operator : kr Inst ID: msd8.i
Smp Info : 0.5mL #1612-19
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 14:03 Cal File: 8060409.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.159	7.159 (1.000)	130	312601	25.0000		70.00- 130.00	100.00
7.159	7.159 (1.000)	128	238965			46.35- 106.35	76.44
7.131	7.131 (1.000)	49	668454			182.20- 242.20	213.84
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1319681	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	226488			0.00- 46.89	17.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1082168	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	687174			0.00- 30.00	63.50
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	547592	25.0000	24.608	70.00- 130.00	100.00
8.210	8.210 (1.147)	67	287246			0.00- 30.00	52.46
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1245869	25.0000	24.823	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	151359			0.00- 30.00	12.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	818014			0.00- 30.00	65.66
$ 140 Bromofluorobenzene						CAS #: 460-00-4	
16.035	16.035 (1.115)	174	602740	25.0000	24.671	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	901198			124.57- 184.57	149.52
16.035	16.035 (1.115)	176	586608			69.57- 129.57	97.32
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
1.961	1.961 (0.274)	85	28329	0.50000	0.5133	70.00- 130.00	100.00
1.961	1.961 (0.274)	87	9373			0.00- 30.00	33.09
6 Freon 114						CAS #: 76-14-2	
2.072	2.072 (0.289)	135	20650	0.50000	0.5545	70.00- 130.00	100.00
2.072	2.072 (0.289)	137	7541			2.05- 62.05	36.52
11 Vinyl Chloride						CAS #: 75-01-4	
2.320	2.320 (0.324)	62	15661	0.50000	0.5711	70.00- 130.00	100.00
2.320	2.320 (0.324)	64	3848			0.00- 30.00	24.57
10 1,3-Butadiene						CAS #: 106-99-0	
2.293	2.293 (0.320)	54	9908	0.50000	0.4432	70.00- 130.00	100.00(a)
2.293	2.293 (0.320)	39	13252			0.00- 30.00	133.75
13 Bromomethane						CAS #: 74-83-9	
2.708	2.708 (0.378)	94	8099	0.50000	0.5540	70.00- 130.00	100.00
2.708	2.708 (0.378)	96	7913			60.83- 120.83	97.70
16 Chloroethane						CAS #: 75-00-3	
2.846	2.846 (0.398)	64	6962	0.50000	0.5395	70.00- 130.00	100.00
2.846	2.846 (0.398)	49	3062			0.00- 30.00	43.98
2.818	2.818 (0.394)	66	1650			0.00- 30.00	23.70
18 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.067	3.067 (0.428)	101	28237	0.50000	0.5156	70.00- 130.00	100.00
3.067	3.067 (0.428)	103	21195			34.77- 94.77	75.06
28 Freon 113						CAS #: 76-13-1	
3.758	3.758 (0.525)	151	15256	0.50000	0.5289	70.00- 130.00	100.00
3.758	3.758 (0.525)	153	10758			32.60- 92.60	70.52
3.758	3.758 (0.525)	101	21354			104.39- 164.39	139.97
29 1,1-Dichloroethene						CAS #: 75-35-4	
3.786	3.786 (0.529)	61	20837	0.50000	0.5403	70.00- 130.00	100.00
3.786	3.786 (0.529)	96	9597			20.29- 80.29	46.06
3.786	3.786 (0.529)	98	6486			1.66- 61.66	31.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
4.118	4.118 (0.575)	76	29343	0.50000	0.5068	70.00- 130.00	100.00
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.645)	49	18059	0.50000	0.5631	70.00- 130.00	100.00
4.615	4.615 (0.645)	84	9345			27.77- 87.77	51.75
4.615	4.615 (0.645)	51	4739			0.00- 30.00	26.24
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.691)	73	27650	0.50000	0.5458	70.00- 130.00	100.00
4.947	4.947 (0.691)	57	8090			0.00- 57.46	29.26
4.947	4.947 (0.691)	41	10353			0.00- 30.00	37.44
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.695)	96	10461	0.50000	0.5095	70.00- 130.00	100.00
4.975	4.975 (0.695)	61	19256			150.79- 210.79	184.07
4.975	4.975 (0.695)	98	4970			0.00- 30.00	47.51
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.741)	57	20807	0.50000	0.5002	70.00- 130.00	100.00
5.307	5.307 (0.741)	43	18293			0.00- 30.00	87.92
5.307	5.307 (0.741)	86	4424			0.00- 30.00	21.26
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.799)	63	18832	0.50000	0.4784	70.00- 130.00	100.00(a)
5.721	5.721 (0.799)	65	6532			0.00- 59.89	34.69
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	6174	0.50000	0.5582	70.00- 130.00	100.00
6.772	6.772 (0.946)	43	21080			519.71- 579.71	341.43
6.744	6.744 (0.942)	57	2430			0.00- 30.00	39.36
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.938)	61	19008	0.50000	0.5537	70.00- 130.00	100.00
6.717	6.717 (0.938)	96	7818			31.09- 91.09	41.13
6.717	6.717 (0.938)	98	5979			9.46- 69.46	31.46
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (0.996)	42	25085	0.50000	0.6121	70.00- 130.00	100.00
7.131	7.131 (0.996)	71	10196			0.00- 58.75	40.65
7.131	7.131 (0.996)	72	6023			0.00- 30.00	24.01
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.015)	83	22068	0.50000	0.5729	70.00- 130.00	100.00
7.297	7.297 (1.019)	85	14219			35.26- 95.26	64.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.050)	97	22287	0.50000	0.5433	70.00- 130.00	100.00
7.519	7.519 (1.050)	99	15722			34.76- 94.76	70.54
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.046)	84	18496	0.50000	0.5659	70.00- 130.00	100.00
7.491	7.491 (1.046)	56	28377			118.28- 178.28	153.42
7.491	7.491 (1.046)	41	12114			58.77- 118.77	65.50
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.081)	119	18930	0.50000	0.5192	70.00- 130.00	100.00
7.740	7.740 (1.081)	117	19770			71.66- 131.66	104.44
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	30442	0.50000	0.4922	70.00- 130.00	100.00(a)
8.154	8.154 (0.905)	77	11005			0.00- 30.00	36.15
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	15232	0.50000	0.5124	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	8694			0.00- 30.00	57.08
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	4975	0.50000	0.6146	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	26555			0.00- 30.00	533.77
8.597	8.597 (0.954)	71	10312			0.00- 30.00	207.28
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	15586	0.50000	0.5782	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	14400			60.31- 120.31	92.39
9.399	9.399 (1.043)	97	10508			31.76- 91.76	67.42
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	11480	0.50000	0.5012	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	10343			40.22- 100.22	90.10
9.896	9.896 (1.098)	41	7223			38.39- 98.39	62.92
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	15025	0.50000	0.4687	70.00- 130.00	100.00(a)
10.449	10.449 (1.160)	85	12692			34.65- 94.65	84.47
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	17720	0.50000	0.5590	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	8408			1.90- 61.90	47.45
11.389	11.389 (1.264)	39	9212			40.41- 100.41	51.99
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	10192	0.50000	0.5043	70.00- 130.00	100.00(M)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 4-Methyl-2-pentanone (continued)							
11.749	11.749 (1.304)	43	36959			0.00- 30.00	362.63
11.749	11.749 (1.304)	85	7628			0.00- 30.00	74.84
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	34258	0.50000	0.5388	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	18436			28.89- 88.89	53.82
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	11869	0.50000	0.4465	70.00- 130.00	100.00(a)
12.606	12.606 (0.877)	77	4719			0.87- 60.87	39.76
12.606	12.606 (0.877)	39	12688			36.13- 96.13	106.90
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	11098	0.50000	0.5327	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	7678			32.06- 92.06	69.18
12.910	12.910 (0.898)	83	9026			58.01- 118.01	81.33
112 Tetrachloroethene					CAS #: 127-18-4		
12.965	12.965 (0.902)	166	15025	0.50000	0.5488	70.00- 130.00	100.00
12.965	12.965 (0.902)	129	10634			42.91- 102.91	70.78
12.965	12.965 (0.902)	131	10262			41.46- 101.46	68.30
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	10851	0.50000	0.3870	70.00- 130.00	100.00(a)
13.353	13.353 (0.929)	43	28519			176.61- 236.61	262.82
13.353	13.353 (0.929)	100	1740			0.00- 30.00	16.04
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	14791	0.50000	0.5176	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	10095			0.00- 30.00	68.25
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	18080	0.50000	0.5335	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	13593			65.39- 125.39	75.18
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	27250	0.50000	0.5332	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	12756			0.36- 60.36	46.81
14.403	14.403 (1.002)	77	29287			36.13- 96.13	107.48
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	15002	0.50000	0.5486	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	42513			0.00- 30.00	283.38
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	19103	0.50000	0.5437	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
14.735	14.735 (1.025)	91	35557			0.00- 30.00	186.13
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	16762	0.50000	0.5109	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	34379			192.54- 252.54	205.10
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	23481	0.50000	0.5025	70.00- 130.00	100.00
15.343	15.343 (1.067)	78	13446			23.06- 83.06	57.26
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	11909	0.50000	0.4797	70.00- 130.00	100.00(a)
15.592	15.592 (1.085)	171	6829			21.66- 81.66	57.34
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.283	16.283 (1.133)	83	21800	0.50000	0.4915	70.00- 130.00	100.00(a)
16.283	16.283 (1.133)	85	16462			34.05- 94.05	75.51
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	40973	0.50000	0.4558	70.00- 130.00	100.00(a)
16.449	16.449 (1.144)	120	11235			0.00- 58.10	27.42
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.560	16.560 (1.152)	105	37185	0.50000	0.4473	70.00- 130.00	100.00(a)
16.560	16.560 (1.152)	120	18997			0.00- 30.00	51.09
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	39364	0.50000	0.4588	70.00- 130.00	100.00(a)
16.975	16.975 (1.181)	120	14144			13.27- 73.27	35.93
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.306	17.306 (1.204)	146	22398	0.50000	0.4880	70.00- 130.00	100.00(a)
17.306	17.306 (1.204)	148	15251			0.00- 30.00	68.09
17.306	17.306 (1.204)	111	10829			0.00- 30.00	48.35
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	28023	0.50000	0.4831	70.00- 130.00	100.00(a)
17.389	17.389 (1.210)	148	17767			0.00- 30.00	63.40
17.389	17.389 (1.210)	111	12631			0.00- 30.00	45.07
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	22452	0.50000	0.3906	70.00- 130.00	100.00(a)
17.555	17.555 (1.221)	126	7503			0.00- 30.00	33.42
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	28203	0.50000	0.5285	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene (continued)							
17.749	17.749 (1.235)	148	16505			31.73- 91.73	58.52
17.749	17.749 (1.235)	111	13613			18.87- 78.87	48.27
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	43132	0.50000	0.4688	70.00- 130.00	100.00(a)
15.786	15.786 (1.098)	120	11989			0.00- 30.00	27.80
15.786	15.786 (1.098)	51	5033			0.00- 30.00	11.67
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	51748	0.50000	0.4638	70.00- 130.00	100.00(a)
16.311	16.311 (1.135)	120	15660			0.00- 30.00	30.26
16.311	16.311 (1.135)	105	2587			0.00- 30.00	5.00
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.143)	57	62228	0.50000	0.4914	70.00- 130.00	100.00(a)
8.182	8.182 (1.143)	56	22534			0.00- 30.00	36.21
8.182	8.182 (1.143)	41	22998			0.00- 30.00	36.96
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.344)	83	22923	0.50000	0.5603	70.00- 130.00	100.00
9.620	9.620 (1.344)	98	10823			0.00- 30.00	47.21
9.620	9.620 (1.344)	55	21056			0.00- 30.00	91.86

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 05-Jun-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060409.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	312601	-0.82
88 1,4-Difluorobenze	1363279	817967	1908591	1319681	-3.20
125 Chlorobenzene-d5	1087207	652324	1522090	1082168	-0.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.16	0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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.

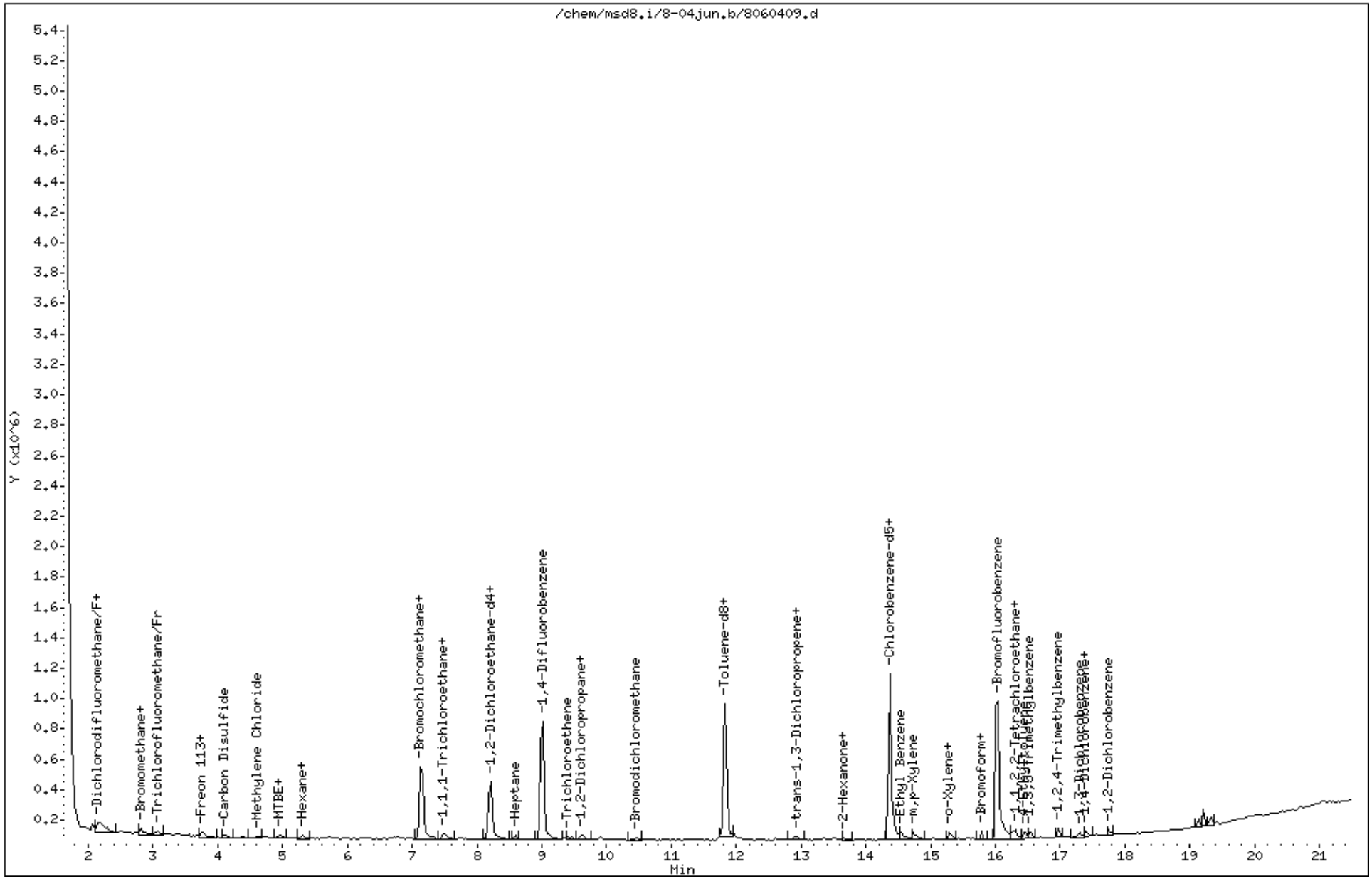
0094

Data File: /chem/msd8.i/8-04jun.b/8060409.d
Date : 04-JUN-2008 14:03
Client ID: Level 2
Sample Info: 0.5mL #1612-19

Instrument: msd8.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060410.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 04-JUN-2008 14:31
Operator : kr Inst ID: msd8.i
Smp Info : 2.0mL #1612-19
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 14:31 Cal File: 8060410.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane						CAS #: 74-97-5		
7.131	7.131 (1.000)	130	314897	25.0000		70.00- 130.00		100.00
7.159	7.159 (1.000)	128	242365			46.35- 106.35		76.97
7.131	7.131 (1.000)	49	682192			182.20- 242.20		216.64
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1286557	25.0000		70.00- 130.00		100.00
9.012	9.012 (1.000)	88	218556			0.00- 46.89		16.99
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1078780	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	672062			0.00- 30.00		62.30
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	542467	25.0000	24.395	70.00- 130.00		100.00
8.210	8.210 (1.151)	67	278394			0.00- 30.00		51.32
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1218134	25.0000	24.922	70.00- 130.00		100.00
11.832	11.832 (1.313)	70	135616			0.00- 30.00		11.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	810592			0.00- 30.00	66.54
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	598289	25.0000	24.673	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	907016			124.57- 184.57	151.60
16.035	16.035 (1.115)	176	575943			69.57- 129.57	96.27
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	45058	2.00000	2.153	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	27557			0.00- 30.00	61.16
1.906	1.906 (0.267)	39	31522			0.00- 30.00	69.96
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	101436	2.00000	1.880	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	31111			0.00- 30.00	30.67
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	80385	2.00000	2.093	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	24679			2.05- 62.05	30.70
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.306)	50	51833	2.00000	2.063	70.00- 130.00	100.00(M)
2.210	2.210 (0.310)	52	18635			0.00- 30.00	35.95
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	14703	2.00000	2.342	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	103241			0.00- 30.00	702.18
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.325)	62	45006	2.00000	1.736	70.00- 130.00	100.00
2.320	2.320 (0.325)	64	16906			0.00- 30.00	37.56
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.321)	54	42428	2.00000	1.912	70.00- 130.00	100.00
2.293	2.293 (0.321)	39	35745			0.00- 30.00	84.25
13 Bromomethane					CAS #: 74-83-9		
2.707	2.707 (0.380)	94	17268	2.00000	1.360	70.00- 130.00	100.00
2.707	2.707 (0.380)	96	16804			60.83- 120.83	97.31
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.399)	64	17003	2.00000	1.478	70.00- 130.00	100.00
2.846	2.846 (0.399)	49	7735			0.00- 30.00	45.49
2.846	2.846 (0.399)	66	6787			0.00- 30.00	39.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	74296	2.00000	2.069	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	40864			0.00- 30.00	55.00
2.818	2.818 (0.395)	72	7173			0.00- 30.00	9.65
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	102176	2.00000	1.899	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	62501			34.77- 94.77	61.17
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	21064	2.00000	2.092	70.00- 130.00	100.00
3.371	3.371 (0.473)	43	8511			0.00- 30.00	40.41
3.343	3.343 (0.469)	46	8304			0.00- 30.00	39.42
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	54984	2.00000	1.927	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	32853			32.60- 92.60	59.75
3.758	3.758 (0.527)	101	72954			104.39- 164.39	132.68
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	74316	2.00000	1.941	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	30903			20.29- 80.29	41.58
3.786	3.786 (0.531)	98	27078			1.66- 61.66	36.44
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	22630	2.00000	1.981	70.00- 130.00	100.00(a)
3.924	3.924 (0.550)	43	79240			0.00- 30.00	350.15
33 Carbon Disulfide					CAS #: 75-15-0		
4.118	4.118 (0.577)	76	114845	2.00000	1.979	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.577)	45	84528	2.00000	1.914	70.00- 130.00	100.00(a)
4.118	4.118 (0.577)	43	30688			0.00- 30.00	36.31
4.145	4.145 (0.581)	59	5374			0.00- 30.00	6.36
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	15822	2.00000	1.791	70.00- 130.00	100.00(a)
4.366	4.366 (0.612)	41	69251			0.00- 30.00	437.69
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.754	4.754 (0.667)	59	72935	2.00000	2.105	70.00- 130.00	100.00
4.754	4.754 (0.667)	41	19129			0.00- 30.00	26.23
4.754	4.754 (0.667)	57	7179			0.00- 30.00	9.84
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	53716	2.00000	1.762	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.615	4.615 (0.647)	84	30565			27.77- 87.77	56.90
4.615	4.615 (0.647)	51	18595			0.00- 30.00	34.62
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.694)	73	79484	2.00000	1.682	70.00- 130.00	100.00
4.947	4.947 (0.694)	57	18604			0.00- 57.46	23.41
4.919	4.919 (0.690)	41	27515			0.00- 30.00	34.62
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	37254	2.00000	1.863	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	65013			150.79- 210.79	174.51
4.975	4.975 (0.698)	98	21574			0.00- 30.00	57.91
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	77941	2.00000	1.904	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	48228			0.00- 30.00	61.88
5.307	5.307 (0.744)	86	12593			0.00- 30.00	16.16
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	75376	2.00000	1.933	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	24103			0.00- 59.89	31.98
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	11321	2.00000	2.150	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	112271			0.00- 30.00	991.71
5.804	5.804 (0.814)	42	10373			0.00- 30.00	91.63
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	60745	2.00000	1.831	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	36952			31.09- 91.09	60.83
6.717	6.717 (0.942)	98	25246			9.46- 69.46	41.56
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	22179	2.00000	1.994	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	105220			519.71- 579.71	474.41
6.772	6.772 (0.950)	57	7961			0.00- 30.00	35.89
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	70279	2.00000	1.791	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	22050			0.00- 58.75	31.37
7.131	7.131 (1.000)	72	20316			0.00- 30.00	28.91
70 Chloroform					CAS #: 67-66-3		
7.297	7.297 (1.023)	83	69527	2.00000	1.840	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	48061			35.26- 95.26	69.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	54783	2.00000	1.763	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	84536			118.28- 178.28	154.31
7.491	7.491 (1.050)	41	51096			58.77- 118.77	93.27
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.518	7.518 (1.054)	97	66345	2.00000	1.718	70.00- 130.00	100.00
7.518	7.518 (1.054)	99	47291			34.76- 94.76	71.28
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	60437	2.00000	1.749	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	63687			71.66- 131.66	105.38
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	107046	2.00000	1.827	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	27184			0.00- 30.00	25.39
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	228323	2.00000	1.855	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	73271			0.00- 30.00	32.09
8.182	8.182 (1.147)	41	61402			0.00- 30.00	26.89
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	59782	2.00000	2.041	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	18657			0.00- 30.00	31.21
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	13039	2.00000	1.754	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	87659			0.00- 30.00	672.28
8.597	8.597 (0.954)	71	38848			0.00- 30.00	297.94
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	46122	2.00000	1.830	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	44426			60.31- 120.31	96.32
9.399	9.399 (1.043)	97	27700			31.76- 91.76	60.06
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	67182	2.00000	1.737	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	37922			0.00- 30.00	56.45
9.620	9.620 (1.349)	55	75741			0.00- 30.00	112.74
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	39313	2.00000	1.834	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	30716			40.22- 100.22	78.13
9.896	9.896 (1.098)	41	33050			38.39- 98.39	84.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	24637	2.00000	2.007	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	26235			61.01- 121.01	106.49
10.145	10.145 (1.126)	57	6440			0.00- 30.00	26.14
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	63912	2.00000	2.030	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	39217			34.65- 94.65	61.36
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	54057	2.00000	1.825	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	18486			1.90- 61.90	34.20
11.389	11.389 (1.264)	39	36289			40.41- 100.41	67.13
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	39708	2.00000	2.010	70.00- 130.00	100.00(M)
11.749	11.749 (1.304)	43	119827			0.00- 30.00	301.77
11.749	11.749 (1.304)	85	15830			0.00- 30.00	39.87
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	105784	2.00000	1.794	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	65593			28.89- 88.89	62.01
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	55739	2.00000	2.068	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	14964			0.87- 60.87	26.85
12.606	12.606 (0.877)	39	33593			36.13- 96.13	60.27
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	35185	2.00000	1.785	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	22486			32.06- 92.06	63.91
12.910	12.910 (0.898)	83	31126			58.01- 118.01	88.46
112 Tetrachloroethene					CAS #: 127-18-4		
12.965	12.965 (0.902)	166	41899	2.00000	1.664	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	35978			42.91- 102.91	85.87
12.938	12.938 (0.900)	131	30978			41.46- 101.46	73.93
114 2-Hexanone					CAS #: 591-78-6		
13.352	13.352 (0.929)	58	44180	2.00000	1.766	70.00- 130.00	100.00(a)
13.352	13.352 (0.929)	43	96814			176.61- 236.61	219.14
13.352	13.352 (0.929)	100	6261			0.00- 30.00	14.17
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	45121	2.00000	1.702	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	37516			0.00- 30.00	83.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	56696	2.00000	1.748	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	55744			65.39- 125.39	98.32
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	86049	2.00000	1.781	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	31141			0.36- 60.36	36.19
14.403	14.403 (1.002)	77	70877			36.13- 96.13	82.37
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	42705	2.00000	1.688	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	148394			0.00- 30.00	347.49
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	58198	2.00000	1.761	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	125574			0.00- 30.00	215.77
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	56915	2.00000	1.819	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	133488			192.54- 252.54	234.54
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	78555	2.00000	1.755	70.00- 130.00	100.00
15.343	15.343 (1.067)	78	45179			23.06- 83.06	57.51
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	36763	2.00000	1.625	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	22486			21.66- 81.66	61.16
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	166820	2.00000	1.861	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	48112			0.00- 30.00	28.84
15.786	15.786 (1.098)	51	21684			0.00- 30.00	13.00
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.283	16.283 (1.133)	83	88119	2.00000	1.995	70.00- 130.00	100.00
16.283	16.283 (1.133)	85	51457			34.05- 94.05	58.39
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	192827	2.00000	1.814	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	43934			0.00- 30.00	22.78
16.311	16.311 (1.135)	105	6621			0.00- 30.00	3.43
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	154086	2.00000	1.804	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	46294			0.00- 58.10	30.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	145753	2.00000	1.813	70.00- 130.00	100.00
16.560	16.560 (1.152)	120	67902			0.00- 30.00	46.59
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	156620	2.00000	1.871	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	62567			13.27- 73.27	39.95
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.306	17.306 (1.204)	146	88092	2.00000	1.950	70.00- 130.00	100.00
17.306	17.306 (1.204)	148	54528			0.00- 30.00	61.90
17.279	17.279 (1.202)	111	39200			0.00- 30.00	44.50
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	123089	2.00000	2.084	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	75557			0.00- 30.00	61.38
17.389	17.389 (1.210)	111	51719			0.00- 30.00	42.02
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	108019	2.00000	1.922	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	21556			0.00- 30.00	19.96
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	94057	2.00000	1.839	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	59788			31.73- 91.73	63.57
17.749	17.749 (1.235)	111	48915			18.87- 78.87	52.01
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	113525	2.00000	2.190	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	109354			65.63- 125.63	96.33
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	69707	2.00000	2.145	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	45131			33.81- 93.81	64.74
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	251199	2.00000	2.255	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	24425			0.00- 30.00	9.72

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060410.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	314897	-0.09
88 1,4-Difluorobenze	1363279	817967	1908591	1286557	-5.63
125 Chlorobenzene-d5	1087207	652324	1522090	1078780	-0.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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.

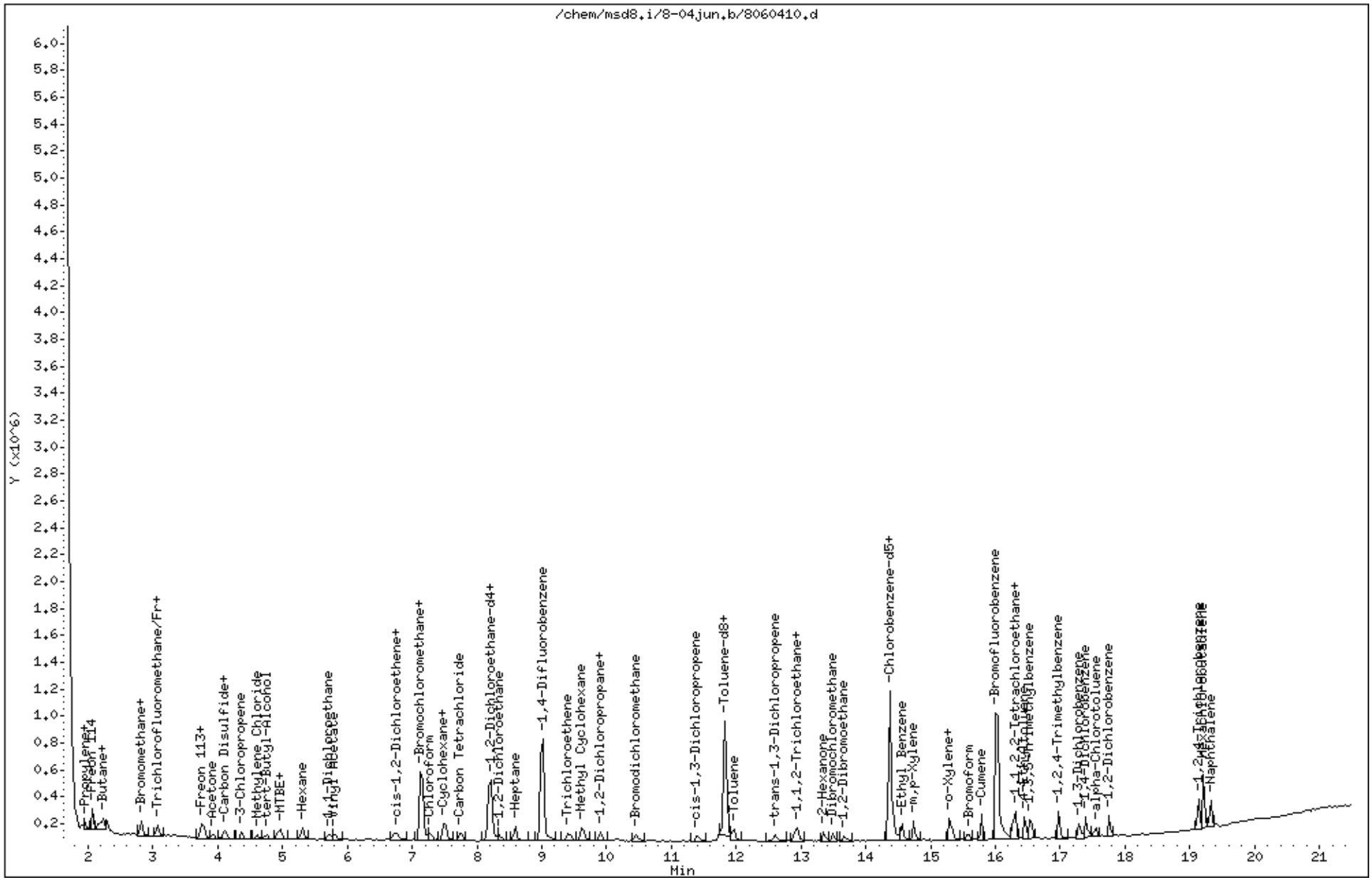
0104

Data File: /chem/msd8.i/8-04jun.b/8060410.d
Date : 04-JUN-2008 14:31
Client ID: Level 3
Sample Info: 2.0mL #1612-19

Instrument: msd8.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060411.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 04-JUN-2008 14:59
Operator : kr Inst ID: msd8.i
Smp Info : 25mL #1612-19
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 14:59 Cal File: 8060411.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.131 (1.000)	130	315548	25.0000		70.00- 130.00	100.00
7.131	7.131 (1.000)	128	243299			46.35- 106.35	77.10
7.131	7.131 (1.000)	49	667054			182.20- 242.20	211.40
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1335927	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	223334			0.00- 46.89	16.72
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1094102	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	649068			0.00- 30.00	59.32
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	553215	25.0000	24.862	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	295737			0.00- 30.00	53.46
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1267318	25.0000	24.976	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	149958			0.00- 30.00	11.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	875267			0.00- 30.00	69.06
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	625465	25.0000	25.344	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	969056			124.57- 184.57	154.93
16.035	16.035 (1.115)	176	595045			69.57- 129.57	95.14
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	508984	25.0000	24.510	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	346749			0.00- 30.00	68.13
1.906	1.906 (0.267)	39	381146			0.00- 30.00	74.88
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	1391404	25.0000	25.543	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	449894			0.00- 30.00	32.33
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	906845	25.0000	23.907	70.00- 130.00	100.00
2.044	2.044 (0.287)	137	283907			2.05- 62.05	31.31
8 Chloromethane					CAS #: 74-87-3		
2.154	2.154 (0.302)	50	579860	25.0000	23.653	70.00- 130.00	100.00
2.154	2.154 (0.302)	52	177949			0.00- 30.00	30.69
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	129013	25.0000	21.818	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	1063065			0.00- 30.00	824.00
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.321)	62	621077	25.0000	24.178	70.00- 130.00	100.00
2.293	2.293 (0.321)	64	185046			0.00- 30.00	29.79
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.321)	54	479987	25.0000	22.190	70.00- 130.00	100.00
2.293	2.293 (0.321)	39	420763			0.00- 30.00	87.66
13 Bromomethane					CAS #: 74-83-9		
2.707	2.707 (0.380)	94	325500	25.0000	25.437	70.00- 130.00	100.00
2.707	2.707 (0.380)	96	295420			60.83- 120.83	90.76
16 Chloroethane					CAS #: 75-00-3		
2.790	2.790 (0.391)	64	301445	25.0000	25.858	70.00- 130.00	100.00
2.790	2.790 (0.391)	49	93045			0.00- 30.00	30.87
2.790	2.790 (0.391)	66	94893			0.00- 30.00	31.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	862636	25.0000	24.308	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	561840			0.00- 30.00	65.13
2.818	2.818 (0.395)	72	54469			0.00- 30.00	6.31
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	1338549	25.0000	24.868	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	871003			34.77- 94.77	65.07
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	235514	25.0000	23.868	70.00- 130.00	100.00
3.343	3.343 (0.469)	43	51664			0.00- 30.00	21.94
3.343	3.343 (0.469)	46	96707			0.00- 30.00	41.06
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	688557	25.0000	24.303	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	437564			32.60- 92.60	63.55
3.758	3.758 (0.527)	101	934627			104.39- 164.39	135.74
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	896432	25.0000	23.755	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	443571			20.29- 80.29	49.48
3.786	3.786 (0.531)	98	281610			1.66- 61.66	31.41
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	288614	25.0000	25.144	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	1035021			0.00- 30.00	358.62
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	1424049	25.0000	24.618	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	1141085	25.0000	25.522	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	257979			0.00- 30.00	22.61
4.090	4.090 (0.574)	59	38446			0.00- 30.00	3.37
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	246283	25.0000	26.817	70.00- 130.00	100.00
4.366	4.366 (0.612)	41	892858			0.00- 30.00	362.53
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	940628	25.0000	26.356	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	243349			0.00- 30.00	25.87
4.726	4.726 (0.663)	57	96759			0.00- 30.00	10.29
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	712617	25.0000	23.722	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.588	4.588 (0.643)	84	402692			27.77- 87.77	56.51
4.588	4.588 (0.643)	51	213946			0.00- 30.00	30.02
43 MTBE					CAS #: 1634-04-4		
4.919	4.919 (0.690)	73	1195670	25.0000	25.182	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	325475			0.00- 57.46	27.22
4.919	4.919 (0.690)	41	344224			0.00- 30.00	28.79
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	490702	25.0000	24.614	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	898719			150.79- 210.79	183.15
4.975	4.975 (0.698)	98	317379			0.00- 30.00	64.68
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	1041744	25.0000	25.301	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	716719			0.00- 30.00	68.80
5.307	5.307 (0.744)	86	143186			0.00- 30.00	13.74
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	1023842	25.0000	25.890	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	302309			0.00- 59.89	29.53
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	116799	25.0000	23.012	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	1683039			0.00- 30.00	1440.97
5.804	5.804 (0.814)	42	156323			0.00- 30.00	133.84
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	768611	25.0000	23.562	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	462816			31.09- 91.09	60.21
6.717	6.717 (0.942)	98	286734			9.46- 69.46	37.31
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	245842	25.0000	22.724	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	1350800			519.71- 579.71	549.46
6.772	6.772 (0.950)	57	95360			0.00- 30.00	38.79
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	800086	25.0000	21.342	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	222083			0.00- 58.75	27.76
7.131	7.131 (1.000)	72	239798			0.00- 30.00	29.97
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	916771	25.0000	24.362	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	584519			35.26- 95.26	63.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	717914	25.0000	23.510	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	1069316			118.28- 178.28	148.95
7.491	7.491 (1.050)	41	650797			58.77- 118.77	90.65
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.518	7.518 (1.054)	97	935485	25.0000	24.381	70.00- 130.00	100.00
7.518	7.518 (1.054)	99	607982			34.76- 94.76	64.99
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	844474	25.0000	24.536	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	889389			71.66- 131.66	105.32
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	1443826	25.0000	23.971	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	339685			0.00- 30.00	23.53
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	3178926	25.0000	25.575	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	998958			0.00- 30.00	31.42
8.182	8.182 (1.147)	41	912362			0.00- 30.00	28.70
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	743016	25.0000	24.574	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	228207			0.00- 30.00	30.71
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	166654	25.0000	22.351	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	1262844			0.00- 30.00	757.76
8.597	8.597 (0.954)	71	540007			0.00- 30.00	324.03
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	589615	25.0000	23.097	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	517080			60.31- 120.31	87.70
9.399	9.399 (1.043)	97	357944			31.76- 91.76	60.71
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	888678	25.0000	23.417	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	413695			0.00- 30.00	46.55
9.620	9.620 (1.349)	55	949300			0.00- 30.00	106.82
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	585109	25.0000	25.951	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	398095			40.22- 100.22	68.04
9.896	9.896 (1.098)	41	403005			38.39- 98.39	68.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	315588	25.0000	24.837	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	295229			61.01- 121.01	93.55
10.145	10.145 (1.126)	57	90733			0.00- 30.00	28.75
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	863385	25.0000	26.041	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	552225			34.65- 94.65	63.96
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	713848	25.0000	23.637	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	228247			1.90- 61.90	31.97
11.389	11.389 (1.264)	39	503312			40.41- 100.41	70.51
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	515235	25.0000	25.089	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	1421515			0.00- 30.00	275.90
11.749	11.749 (1.304)	85	178143			0.00- 30.00	34.58
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	1484352	25.0000	24.432	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	887228			28.89- 88.89	59.77
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	716623	25.0000	25.898	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	211213			0.87- 60.87	29.47
12.606	12.606 (0.877)	39	472013			36.13- 96.13	65.87
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	480605	25.0000	24.275	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	300483			32.06- 92.06	62.52
12.910	12.910 (0.898)	83	437972			58.01- 118.01	91.13
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	612134	25.0000	24.220	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	447578			42.91- 102.91	73.12
12.938	12.938 (0.900)	131	424571			41.46- 101.46	69.36
114 2-Hexanone					CAS #: 591-78-6		
13.352	13.352 (0.929)	58	686957	25.0000	26.345	70.00- 130.00	100.00
13.352	13.352 (0.929)	43	1398468			176.61- 236.61	203.57
13.352	13.352 (0.929)	100	100191			0.00- 30.00	14.58
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	635260	25.0000	23.956	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	518900			0.00- 30.00	81.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	756692	25.0000	23.382	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	728541			65.39- 125.39	96.28
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1205019	25.0000	24.697	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	364386			0.36- 60.36	30.24
14.403	14.403 (1.002)	77	767967			36.13- 96.13	63.73
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	604385	25.0000	23.906	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	2021957			0.00- 30.00	334.55
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	760427	25.0000	23.223	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	1616805			0.00- 30.00	212.62
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	768380	25.0000	24.405	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	1735002			192.54- 252.54	225.80
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	1183341	25.0000	25.850	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	634763			23.06- 83.06	53.64
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	596944	25.0000	25.754	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	308672			21.66- 81.66	51.71
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	2278852	25.0000	25.054	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	601075			0.00- 30.00	26.38
15.786	15.786 (1.098)	51	292373			0.00- 30.00	12.83
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1100082	25.0000	24.668	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	719427			34.05- 94.05	65.40
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	2850940	25.0000	26.069	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	627644			0.00- 30.00	22.02
16.311	16.311 (1.135)	105	95253			0.00- 30.00	3.34
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	2342446	25.0000	26.499	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	660432			0.00- 58.10	28.19

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	1979531	25.0000	24.424	70.00- 130.00	100.00
16.560	16.560 (1.152)	120	935611			0.00- 30.00	47.26
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	2111754	25.0000	24.895	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	937134			13.27- 73.27	44.38
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1128285	25.0000	24.714	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	713692			0.00- 30.00	63.25
17.279	17.279 (1.202)	111	521622			0.00- 30.00	46.23
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	1508274	25.0000	25.134	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	966463			0.00- 30.00	64.08
17.389	17.389 (1.210)	111	670422			0.00- 30.00	44.45
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	1628809	25.0000	27.588	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	306604			0.00- 30.00	18.82
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1214863	25.0000	23.798	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	765773			31.73- 91.73	63.03
17.749	17.749 (1.235)	111	593765			18.87- 78.87	48.88
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	1095643	25.0000	22.066	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	1062901			65.63- 125.63	97.01
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	765633	25.0000	23.794	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	484464			33.81- 93.81	63.28
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	2294476	25.0000	21.667	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	293485			0.00- 30.00	12.79

Report Date: 05-Jun-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060411.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	315548	0.11
88 1,4-Difluorobenze	1363279	817967	1908591	1335927	-2.01
125 Chlorobenzene-d5	1087207	652324	1522090	1094102	0.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

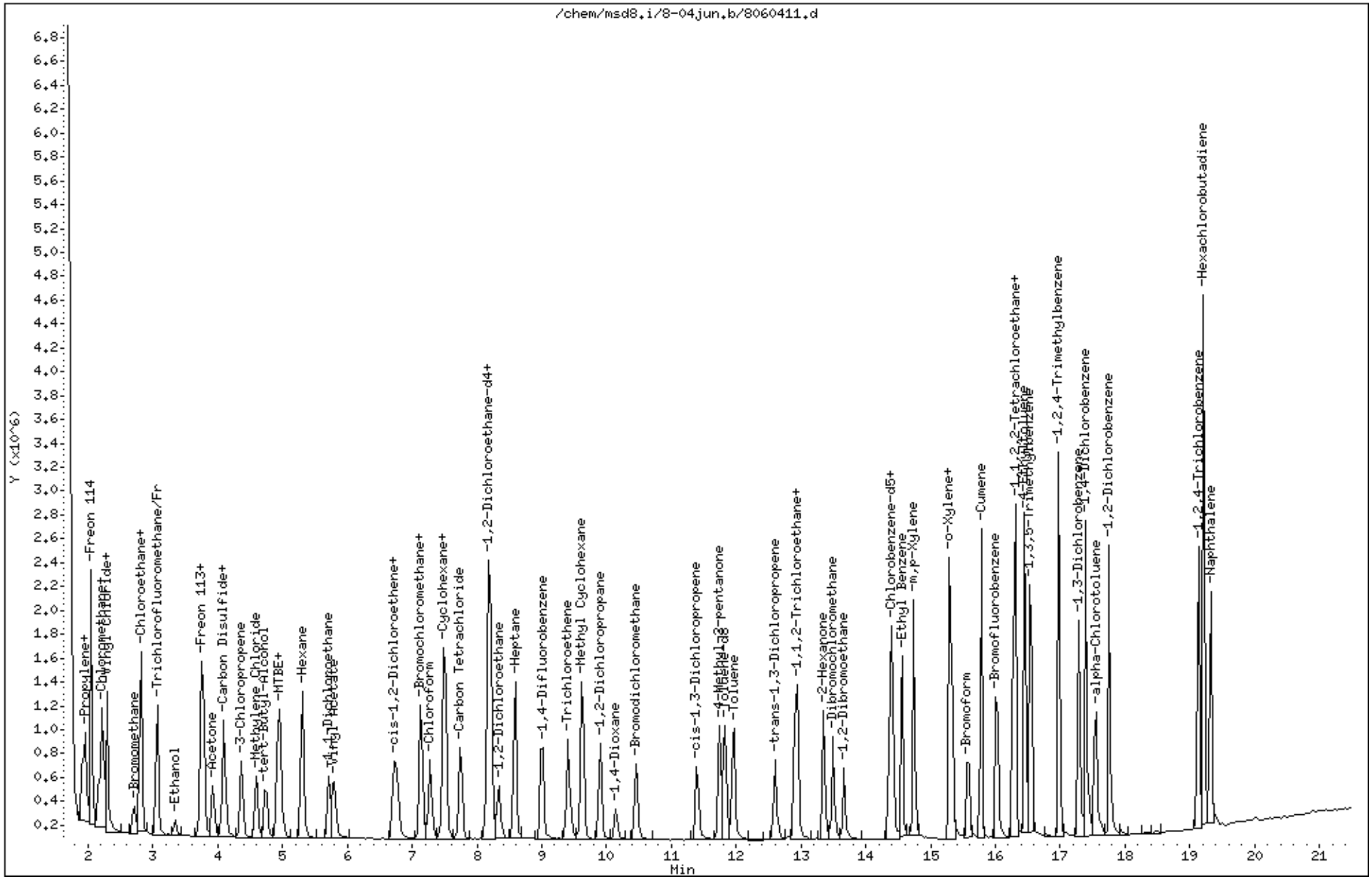
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0114

Data File: /chem/msd8.i/8-04jun.b/8060411.d
Date : 04-JUN-2008 14:59
Client ID: Level 4
Sample Info: 25mL #1612-19

Instrument: msd8.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060412.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 04-JUN-2008 15:27
Operator : kr Inst ID: msd8.i
Smp Info : 50mL #1612-19
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:45 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 15:27 Cal File: 8060412.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.131 (1.000)	130	315196	25.0000		80.00- 120.00	100.00
7.131	7.131 (1.000)	128	240642			46.35- 106.35	76.35
7.131	7.131 (1.000)	49	668855			182.20- 242.20	212.20
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1363279	25.0000		80.00- 120.00	100.00
8.984	8.984 (1.000)	88	230193			0.00- 46.89	16.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1087207	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	661566			30.85- 90.85	60.85
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.182	8.182 (1.147)	65	571922	25.0000	25.000	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	332360			28.11- 88.11	58.11
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1305269	25.0000	25.000	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	150112			0.00- 41.50	11.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	867073			36.43- 96.43	66.43
$ 140 Bromofluorobenzene						CAS #: 460-00-4	
16.035	16.035 (1.115)	174	630707	25.0000	25.000	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	974894			124.57- 184.57	154.57
16.035	16.035 (1.115)	176	627969			69.57- 129.57	99.57
3 Propylene						CAS #: 115-07-1	
1.906	1.906 (0.267)	41	967150	50.0000	50.000	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	643182			36.50- 96.50	66.50
1.906	1.906 (0.267)	39	742895			46.81- 106.81	76.81
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
1.961	1.961 (0.275)	85	2708080	50.0000	50.000	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	842921			1.13- 61.13	31.13
6 Freon 114						CAS #: 76-14-2	
2.044	2.044 (0.287)	135	1672588	50.0000	50.000	80.00- 120.00	100.00
2.044	2.044 (0.287)	137	536102			2.05- 62.05	32.05
8 Chloromethane						CAS #: 74-87-3	
2.155	2.155 (0.302)	50	1217679	50.0000	50.000	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	350817			0.00- 58.81	28.81
9 Butane						CAS #: 106-97-8	
2.237	2.237 (0.314)	58	260318	50.0000	50.000	80.00- 120.00	100.00
2.237	2.237 (0.314)	43	2072485			766.14- 826.14	796.14
11 Vinyl Chloride						CAS #: 75-01-4	
2.293	2.293 (0.322)	62	1185798	50.0000	50.000	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	368532			1.08- 61.08	31.08
10 1,3-Butadiene						CAS #: 106-99-0	
2.293	2.293 (0.322)	54	998542	50.0000	50.000	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	726170			42.72- 102.72	72.72
13 Bromomethane						CAS #: 74-83-9	
2.708	2.708 (0.380)	94	657420	50.0000	50.000	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	597102			60.83- 120.83	90.83
16 Chloroethane						CAS #: 75-00-3	
2.790	2.790 (0.391)	64	599232	50.0000	50.000	80.00- 120.00	100.00
2.790	2.790 (0.391)	49	185116			0.89- 60.89	30.89
2.790	2.790 (0.391)	66	192309			2.09- 62.09	32.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	1734668	50.0000	50.000	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	1097056			33.24- 93.24	63.24
2.818	2.818 (0.395)	72	105137			0.00- 36.06	6.06
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	2675329	50.0000	50.000	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	1732820			34.77- 94.77	64.77
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	480871	50.0000	50.000	80.00- 120.00	100.00
3.343	3.343 (0.469)	43	102025			0.00- 51.22	21.22
3.343	3.343 (0.469)	46	187007			8.89- 68.89	38.89
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1370368	50.0000	50.000	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	857784			32.60- 92.60	62.60
3.758	3.758 (0.527)	101	1841634			104.39- 164.39	134.39
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	1787258	50.0000	50.000	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	898793			20.29- 80.29	50.29
3.786	3.786 (0.531)	98	565931			1.66- 61.66	31.66
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	576946	50.0000	50.000	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	2057661			326.65- 386.65	356.65
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	2878658	50.0000	50.000	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	2304047	50.0000	50.000	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	502518			0.00- 51.81	21.81
4.090	4.090 (0.574)	59	71618			0.00- 33.11	3.11
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	488100	50.0000	50.000	80.00- 120.00	100.00
4.366	4.366 (0.612)	41	1811110			341.05- 401.05	371.05
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1643157	50.0000	50.000	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	416933			0.00- 55.37	25.37
4.726	4.726 (0.663)	57	169309			0.00- 40.30	10.30
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	1412767	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.588	4.588 (0.643)	84	816110			27.77- 87.77	57.77
4.588	4.588 (0.643)	51	419318			0.00- 59.68	29.68
43 MTBE					CAS #: 1634-04-4		
4.919	4.919 (0.690)	73	2319949	50.0000	50.000	80.00- 120.00	100.00
4.919	4.919 (0.690)	57	637033			0.00- 57.46	27.46
4.919	4.919 (0.690)	41	701698			0.25- 60.25	30.25
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	1015310	50.0000	50.000	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1835577			150.79- 210.79	180.79
4.975	4.975 (0.698)	98	638038			32.84- 92.84	62.84
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	2096133	50.0000	50.000	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	1467854			40.03- 100.03	70.03
5.307	5.307 (0.744)	86	295374			0.00- 44.09	14.09
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	2070022	50.0000	50.000	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	618787			0.00- 59.89	29.89
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	243843	50.0000	50.000	80.00- 120.00	100.00
5.777	5.777 (0.810)	43	3519741			1413.45-1473.45	1443.45
5.777	5.777 (0.810)	42	299582			92.86- 152.86	122.86
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1544668	50.0000	50.000	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	943710			31.09- 91.09	61.09
6.717	6.717 (0.942)	98	609455			9.46- 69.46	39.46
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	492596	50.0000	50.000	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	2707872			519.71- 579.71	549.71
6.772	6.772 (0.950)	57	210299			12.69- 72.69	42.69
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	1602941	50.0000	50.000	80.00- 120.00	100.00
7.131	7.131 (1.000)	71	460800			0.00- 58.75	28.75
7.131	7.131 (1.000)	72	481624			0.05- 60.05	30.05
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	1832535	50.0000	50.000	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	1195941			35.26- 95.26	65.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane						CAS #: 110-82-7	
7.491	7.491 (1.050)	84	1430385	50.0000	50.000	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	2120933			118.28- 178.28	148.28
7.491	7.491 (1.050)	41	1269753			58.77- 118.77	88.77
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
7.519	7.519 (1.054)	97	1889018	50.0000	50.000	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1223378			34.76- 94.76	64.76
77 Carbon Tetrachloride						CAS #: 56-23-5	
7.740	7.740 (1.085)	119	1767618	50.0000	50.000	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	1797025			71.66- 131.66	101.66
81 Benzene						CAS #: 71-43-2	
8.154	8.154 (0.905)	78	2944738	50.0000	50.000	80.00- 120.00	100.00
8.154	8.154 (0.905)	77	712634			0.00- 54.20	24.20
80 2,2,4-Trimethylpentane						CAS #: 540-84-1	
8.210	8.210 (1.151)	57	6492758	50.0000	50.000	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	2045896			1.51- 61.51	31.51
8.182	8.182 (1.147)	41	1823310			0.00- 58.08	28.08
83 1,2-Dichloroethane						CAS #: 107-06-2	
8.348	8.348 (0.926)	62	1497370	50.0000	50.000	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	468747			1.30- 61.30	31.30
85 Heptane						CAS #: 142-82-5	
8.597	8.597 (0.954)	100	322288	50.0000	50.000	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	2520346			752.02- 812.02	782.02
8.597	8.597 (0.954)	71	1102115			311.97- 371.97	341.97
94 Trichloroethene						CAS #: 79-01-6	
9.399	9.399 (1.043)	95	1174792	50.0000	50.000	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	1060983			60.31- 120.31	90.31
9.399	9.399 (1.043)	97	725517			31.76- 91.76	61.76
95 Methyl Cyclohexane						CAS #: 108-87-2	
9.620	9.620 (1.349)	83	1813642	50.0000	50.000	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	819733			15.20- 75.20	45.20
9.620	9.620 (1.349)	55	1871793			73.21- 133.21	103.21
97 1,2-Dichloropropane						CAS #: 78-87-5	
9.896	9.896 (1.098)	63	1180136	50.0000	50.000	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	828723			40.22- 100.22	70.22
9.896	9.896 (1.098)	41	807038			38.39- 98.39	68.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	648201	50.0000	50.000	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	589947			61.01- 121.01	91.01
10.145	10.145 (1.126)	57	184501			0.00- 58.46	28.46
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	1759458	50.0000	50.000	80.00- 120.00	100.00
10.449	10.449 (1.160)	85	1137577			34.65- 94.65	64.65
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	1444327	50.0000	50.000	80.00- 120.00	100.00
11.389	11.389 (1.264)	77	460691			1.90- 61.90	31.90
11.389	11.389 (1.264)	39	1017013			40.41- 100.41	70.41
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	1034990	50.0000	50.000	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	2923645			252.48- 312.48	282.48
11.749	11.749 (1.304)	85	373392			6.08- 66.08	36.08
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	3028691	50.0000	50.000	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1783703			28.89- 88.89	58.89
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1478275	50.0000	50.000	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	456414			0.87- 60.87	30.87
12.606	12.606 (0.877)	39	977513			36.13- 96.13	66.13
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	978067	50.0000	50.000	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	606946			32.06- 92.06	62.06
12.910	12.910 (0.898)	83	860843			58.01- 118.01	88.01
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1241102	50.0000	50.000	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	904858			42.91- 102.91	72.91
12.938	12.938 (0.900)	131	886908			41.46- 101.46	71.46
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1408276	50.0000	50.000	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	2909595			176.61- 236.61	206.61
13.353	13.353 (0.929)	100	221337			0.00- 45.72	15.72
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1384871	50.0000	50.000	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1074217			47.57- 107.57	77.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1549456	50.0000	50.000	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1478007			65.39- 125.39	95.39
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	2396468	50.0000	50.000	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	727670			0.36- 60.36	30.36
14.403	14.403 (1.002)	77	1584824			36.13- 96.13	66.13
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	1240114	50.0000	50.000	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	4148329			304.51- 364.51	334.51
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1610928	50.0000	50.000	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	3450728			184.21- 244.21	214.21
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1612065	50.0000	50.000	80.00- 120.00	100.00
15.288	15.288 (1.063)	91	3587514			192.54- 252.54	222.54
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	2516707	50.0000	50.000	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	1335266			23.06- 83.06	53.06
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1297473	50.0000	50.000	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	670279			21.66- 81.66	51.66
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	4693886	50.0000	50.000	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1241250			0.00- 56.44	26.44
15.786	15.786 (1.098)	51	638451			0.00- 43.60	13.60
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	2266215	50.0000	50.000	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1451462			34.05- 94.05	64.05
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	6010935	50.0000	50.000	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1328736			0.00- 52.11	22.11
16.311	16.311 (1.135)	105	202029			0.00- 33.36	3.36
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	4914037	50.0000	50.000	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1381017			0.00- 58.10	28.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	3968963	50.0000	50.000	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1881075			17.39- 77.39	47.39
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	4425764	50.0000	50.000	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1914915			13.27- 73.27	43.27
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2360921	50.0000	50.000	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1487167			32.99- 92.99	62.99
17.279	17.279 (1.202)	111	1096947			16.46- 76.46	46.46
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	3012247	50.0000	50.000	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	1890066			32.75- 92.75	62.75
17.389	17.389 (1.210)	111	1316613			13.71- 73.71	43.71
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	3519357	50.0000	50.000	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	621059			0.00- 47.65	17.65
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2527989	50.0000	50.000	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1560513			31.73- 91.73	61.73
17.749	17.749 (1.235)	111	1235382			18.87- 78.87	48.87
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	2363212	50.0000	50.000	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2260055			65.63- 125.63	95.63
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1518313	50.0000	50.000	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	968844			33.81- 93.81	63.81
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4895325	50.0000	50.000	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	614486			0.00- 42.55	12.55

Report Date: 05-Jun-2008 09:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060412.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	315196	0.00
88 1,4-Difluorobenze	1363279	817967	1908591	1363279	0.00
125 Chlorobenzene-d5	1087207	652324	1522090	1087207	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

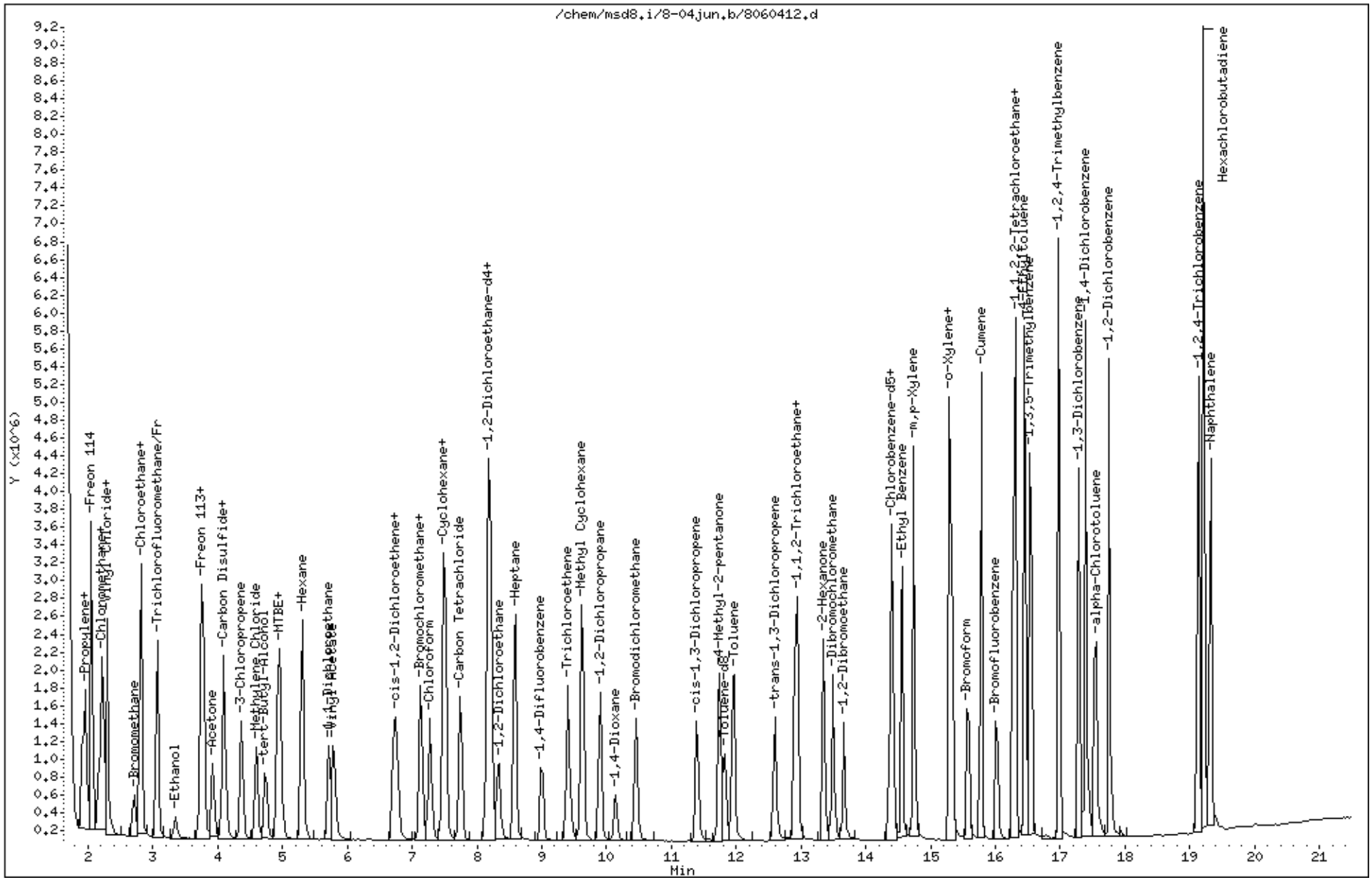
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0124

Data File: /chem/msd8.i/8-04jun.b/8060412.d
Date : 04-JUN-2008 15:27
Client ID: Level 5
Sample Info: 50mL #1612-19

Instrument: msd8.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060413.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 04-JUN-2008 15:54
Operator : kr Inst ID: msd8.i
Smp Info : 100mL #1612-19
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 15:54 Cal File: 8060413.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.131 (1.000)	130	325230	25.0000		70.00- 130.00	100.00
7.131	7.131 (1.000)	128	260750			46.35- 106.35	80.17
7.131	7.131 (1.000)	49	692662			182.20- 242.20	212.98
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1377364	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	237471			0.00- 46.89	17.24
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1127759	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	691046			0.00- 30.00	61.28
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	601644	25.0000	26.019	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	383049			0.00- 30.00	63.67
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1330368	25.0000	25.357	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	159267			0.00- 30.00	11.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	1024018			0.00- 30.00	76.97
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	646288	25.0000	25.338	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	1039479			124.57- 184.57	160.84
16.035	16.035 (1.115)	176	622665			69.57- 129.57	96.34
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	1963230	100.000	93.662	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	1331148			0.00- 30.00	67.80
1.906	1.906 (0.267)	39	1462957			0.00- 30.00	74.52
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	5395054	100.000	96.849	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	1657749			0.00- 30.00	30.73
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	3523042	100.000	91.931	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	1099590			2.05- 62.05	31.21
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	2496461	100.000	99.099	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	734382			0.00- 30.00	29.42
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	511585	100.000	87.452	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	4171354			0.00- 30.00	815.38
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	2430370	100.000	93.326	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	740649			0.00- 30.00	30.47
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	2072165	100.000	94.053	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	1786835			0.00- 30.00	86.23
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	1410045	100.000	105.45	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	1291748			60.83- 120.83	91.61
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.395)	64	1231752	100.000	102.00	70.00- 130.00	100.00
2.818	2.818 (0.395)	49	371425			0.00- 30.00	30.15
2.818	2.818 (0.395)	66	369016			0.00- 30.00	29.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	3492646	100.000	96.578	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	2210887			0.00- 30.00	63.30
2.818	2.818 (0.395)	72	216893			0.00- 30.00	6.21
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	5372113	100.000	97.449	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	3476126			34.77- 94.77	64.71
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.473)	45	868946	100.000	88.667	70.00- 130.00	100.00
3.371	3.371 (0.473)	43	179236			0.00- 30.00	20.63
3.371	3.371 (0.473)	46	347578			0.00- 30.00	40.00
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	2710756	100.000	94.180	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	1731432			32.60- 92.60	63.87
3.758	3.758 (0.527)	101	3704708			104.39- 164.39	136.67
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	3675790	100.000	95.558	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	1775251			20.29- 80.29	48.30
3.786	3.786 (0.531)	98	1146802			1.66- 61.66	31.20
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	1176976	100.000	99.615	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	4234355			0.00- 30.00	359.77
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	5927854	100.000	99.542	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	4726849	100.000	101.92	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	1020878			0.00- 30.00	21.60
4.090	4.090 (0.574)	59	160825			0.00- 30.00	3.40
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	1004385	100.000	104.51	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	3691122			0.00- 30.00	367.50
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	2578366	100.000	75.758	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	659366			0.00- 30.00	25.57
4.726	4.726 (0.663)	57	278835			0.00- 30.00	10.81
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	2857509	100.000	93.734	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.615	4.615 (0.647)	84	1651964			27.77- 87.77	57.81
4.615	4.615 (0.647)	51	850277			0.00- 30.00	29.76
43 MTBE					CAS #: 1634-04-4		
4.919	4.919 (0.690)	73	4556071	100.000	94.402	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	1229352			0.00- 57.46	26.98
4.919	4.919 (0.690)	41	1323293			0.00- 30.00	29.04
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	2044666	100.000	99.608	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	3636652			150.79- 210.79	177.86
4.975	4.975 (0.698)	98	1307222			0.00- 30.00	63.93
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	4335190	100.000	101.72	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	2993819			0.00- 30.00	69.06
5.307	5.307 (0.744)	86	588614			0.00- 30.00	13.58
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	4237860	100.000	103.15	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	1271125			0.00- 59.89	29.99
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	512881	100.000	98.524	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	7387374			0.00- 30.00	1440.37
5.804	5.804 (0.814)	42	617184			0.00- 30.00	120.34
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	3124242	100.000	94.258	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	1887490			31.09- 91.09	60.41
6.717	6.717 (0.942)	98	1202325			9.46- 69.46	38.48
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	1048536	100.000	95.172	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	5594496			519.71- 579.71	533.55
6.772	6.772 (0.950)	57	398304			0.00- 30.00	37.99
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	3306278	100.000	88.112	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	946099			0.00- 58.75	28.62
7.131	7.131 (1.000)	72	1045475			0.00- 30.00	31.62
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	3787151	100.000	98.027	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	2447527			35.26- 95.26	64.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	2933284	100.000	94.484	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	4427489			118.28- 178.28	150.94
7.491	7.491 (1.050)	41	2605947			58.77- 118.77	88.84
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	3930190	100.000	99.504	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	2527783			34.76- 94.76	64.32
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	3632726	100.000	101.92	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	3789513			71.66- 131.66	104.32
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	6041829	100.000	97.733	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	1452145			0.00- 30.00	24.03
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	13516732	100.000	104.36	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	4206202			0.00- 30.00	31.12
8.210	8.210 (1.151)	41	3735422			0.00- 30.00	27.64
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	3094922	100.000	99.422	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	957924			0.00- 30.00	30.95
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	660502	100.000	88.409	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	5152255			0.00- 30.00	780.05
8.597	8.597 (0.954)	71	2236542			0.00- 30.00	338.61
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	2401786	100.000	92.880	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	2169163			60.31- 120.31	90.31
9.399	9.399 (1.043)	97	1482970			31.76- 91.76	61.74
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	3768996	100.000	97.066	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	1706625			0.00- 30.00	45.28
9.620	9.620 (1.349)	55	3961527			0.00- 30.00	105.11
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	2451854	100.000	104.33	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	1693452			40.22- 100.22	69.07
9.896	9.896 (1.098)	41	1662191			38.39- 98.39	67.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	1327896	100.000	101.02	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	1226160			61.01- 121.01	92.34
10.145	10.145 (1.126)	57	391280			0.00- 30.00	29.47
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	3735985	100.000	107.30	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	2376893			34.65- 94.65	63.62
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	3023534	100.000	97.669	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	941678			1.90- 61.90	31.14
11.389	11.389 (1.264)	39	2106798			40.41- 100.41	69.68
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	2085361	100.000	98.789	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	6131995			0.00- 30.00	294.05
11.749	11.749 (1.304)	85	748526			0.00- 30.00	35.89
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	6368644	100.000	101.33	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	3748429			28.89- 88.89	58.86
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	3090345	100.000	106.57	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	973784			0.87- 60.87	31.51
12.606	12.606 (0.877)	39	2064844			36.13- 96.13	66.82
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	1992963	100.000	98.119	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	1246651			32.06- 92.06	62.55
12.910	12.910 (0.898)	83	1796170			58.01- 118.01	90.13
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	2583061	100.000	99.323	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	1903240			42.91- 102.91	73.68
12.938	12.938 (0.900)	131	1858990			41.46- 101.46	71.97
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	2980864	100.000	107.96	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	6219944			176.61- 236.61	208.66
13.353	13.353 (0.929)	100	459728			0.00- 30.00	15.42
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	3043062	100.000	108.86	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	2327144			0.00- 30.00	76.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	3234314	100.000	97.454	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	3071736			65.39- 125.39	94.97
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	4981373	100.000	99.235	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	1478119			0.36- 60.36	29.67
14.403	14.403 (1.002)	77	3230136			36.13- 96.13	64.84
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	2606349	100.000	100.01	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	8819043			0.00- 30.00	338.37
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	3345219	100.000	99.288	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	7088960			0.00- 30.00	211.91
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	3278389	100.000	100.81	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	7476482			192.54- 252.54	228.05
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	5338919	100.000	110.72	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	2870282			23.06- 83.06	53.76
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	2837331	100.000	114.46	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	1475813			21.66- 81.66	52.01
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	9844126	100.000	104.13	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	2541601			0.00- 30.00	25.82
15.786	15.786 (1.098)	51	1320242			0.00- 30.00	13.41
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	4743860	100.000	102.54	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	3035737			34.05- 94.05	63.99
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	12871485	100.000	111.04	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	2736518			0.00- 30.00	21.26
16.311	16.311 (1.135)	105	437277			0.00- 30.00	3.40
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	10558685	100.000	112.31	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	2940663			0.00- 58.10	27.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	8384307	100.000	100.30	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	3929144			0.00- 30.00	46.86
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	9032278	100.000	102.74	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	3843628			13.27- 73.27	42.55
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	4889003	100.000	103.09	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	3054678			0.00- 30.00	62.48
17.279	17.279 (1.202)	111	2288824			0.00- 30.00	46.82
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	6194029	100.000	100.11	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	3861840			0.00- 30.00	62.35
17.389	17.389 (1.210)	111	2324023			0.00- 30.00	37.52
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	7329777	100.000	115.71	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	1354487			0.00- 30.00	18.48
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	5043491	100.000	96.650	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	3138419			31.73- 91.73	62.23
17.749	17.749 (1.235)	111	2543532			18.87- 78.87	50.43
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	4853650	100.000	96.075	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	4590187			65.63- 125.63	94.57
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	3073529	100.000	94.398	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	1970523			33.81- 93.81	64.11
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	10276189	100.000	95.542	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	1258706			0.00- 30.00	12.25

Report Date: 05-Jun-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060413.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	325230	3.18
88 1,4-Difluorobenze	1363279	817967	1908591	1377364	1.03
125 Chlorobenzene-d5	1087207	652324	1522090	1127759	3.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

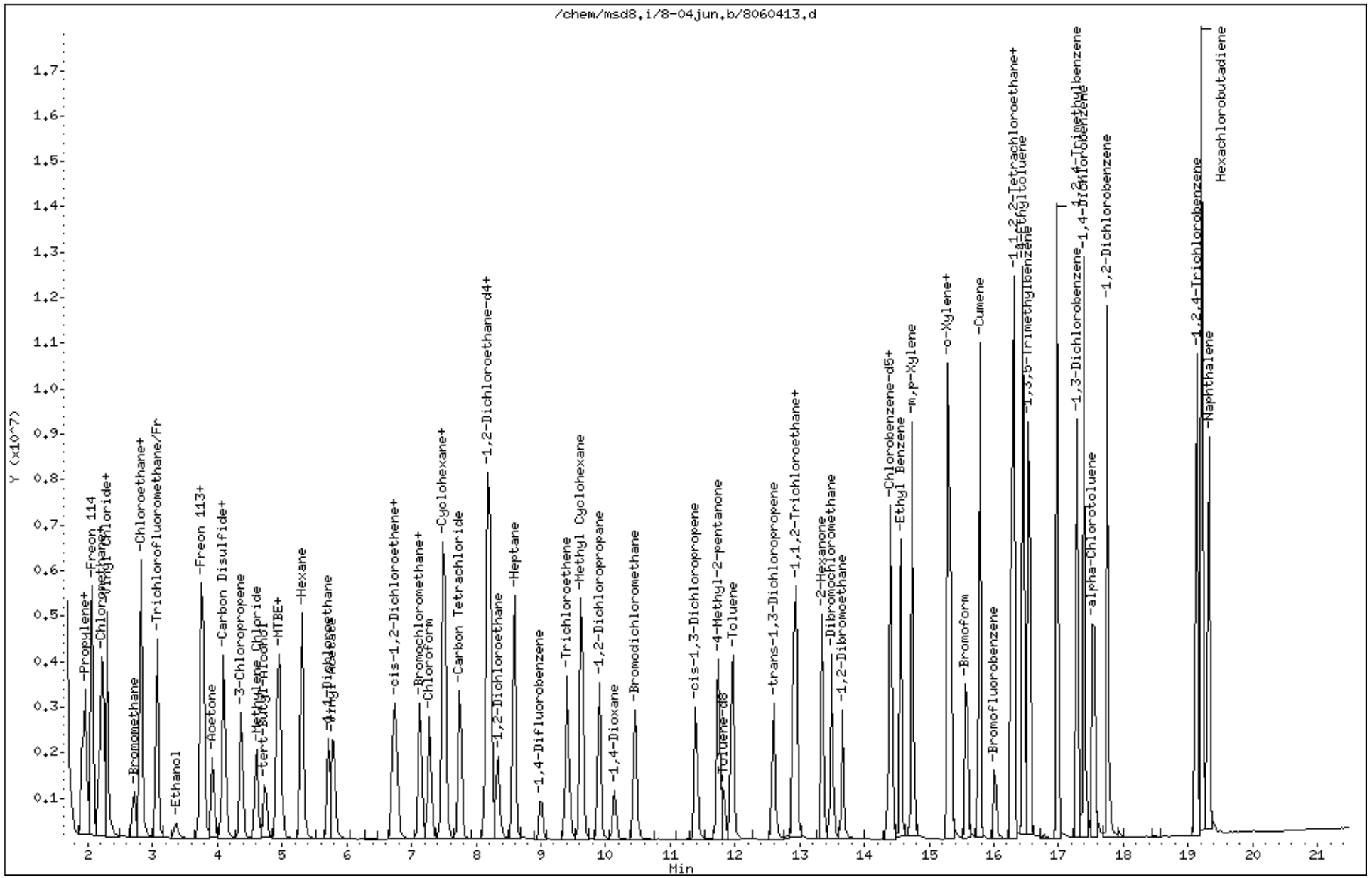
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0134

Data File: /chem/msd8.i/8-04jun.b/8060413.d
Date : 04-JUN-2008 15:54
Client ID: Level 6
Sample Info: 100mL #1612-19

Instrument: msd8.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04jun.b/8060414.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 04-JUN-2008 16:24
Operator : kr Inst ID: msd8.i
Smp Info : 200mL #1612-19
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-04jun.b/t14q604a.m
Meth Date : 05-Jun-2008 09:52 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.131 (1.000)	130	328589	25.0000		70.00- 130.00	100.00
7.131	7.131 (1.000)	128	260992			46.35- 106.35	79.43
7.131	7.131 (1.000)	49	720827			182.20- 242.20	219.37
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1382972	25.0000		70.00- 130.00	100.00
8.984	8.984 (1.000)	88	235598			0.00- 46.89	17.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1136054	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	695737			0.00- 30.00	61.24
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	658851	25.0000	27.695	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	481504			0.00- 30.00	73.08
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1388188	25.0000	26.150	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	162928			0.00- 30.00	11.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	1169371			0.00- 30.00	84.24
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	651038	25.0000	25.289	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	1011722			124.57- 184.57	155.40
16.035	16.035 (1.115)	176	645062			69.57- 129.57	99.08
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	4152640	200.000	196.86	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	2732044			0.00- 30.00	65.79
1.906	1.906 (0.267)	39	3095880			0.00- 30.00	74.55
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	10415008	200.000	187.39	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	3175782			0.00- 30.00	30.49
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	6940029	200.000	182.40	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	2155740			2.05- 62.05	31.06
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.310)	50	5101599	200.000	200.35	70.00- 130.00	100.00(A)
2.182	2.182 (0.306)	52	1441710			0.00- 30.00	28.26
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	1044848	200.000	180.98	70.00- 130.00	100.00
2.238	2.238 (0.314)	43	8603706			0.00- 30.00	823.44
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	4815469	200.000	185.65	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	1458133			0.00- 30.00	30.28
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	4042470	200.000	184.02	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	3672694			0.00- 30.00	90.85
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	2826445	200.000	207.62	70.00- 130.00	100.00(A)
2.708	2.708 (0.380)	96	2574886			60.83- 120.83	91.10
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.395)	64	2468535	200.000	201.94	70.00- 130.00	100.00(A)
2.818	2.818 (0.395)	49	755070			0.00- 30.00	30.59
2.818	2.818 (0.395)	66	733612			0.00- 30.00	29.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	6946779	200.000	192.02	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	4390067			0.00- 30.00	63.20
2.818	2.818 (0.395)	72	414860			0.00- 30.00	5.97
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	10720922	200.000	193.70	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	6834094			34.77- 94.77	63.75
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.473)	45	1714721	200.000	177.95	70.00- 130.00	100.00
3.371	3.371 (0.473)	43	342332			0.00- 30.00	19.96
3.371	3.371 (0.473)	46	676684			0.00- 30.00	39.46
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	5386297	200.000	187.53	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	3399962			32.60- 92.60	63.12
3.758	3.758 (0.527)	101	7375498			104.39- 164.39	136.93
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	7378714	200.000	191.48	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	3570104			20.29- 80.29	48.38
3.786	3.786 (0.531)	98	2313782			1.66- 61.66	31.36
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	2331872	200.000	196.26	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	8481803			0.00- 30.00	363.73
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	11918987	200.000	198.41	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.577)	45	9202833	200.000	197.11	70.00- 130.00	100.00
4.118	4.118 (0.577)	43	1955163			0.00- 30.00	21.25
4.118	4.118 (0.577)	59	320236			0.00- 30.00	3.48
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	1983526	200.000	203.42	70.00- 130.00	100.00(A)
4.367	4.367 (0.612)	41	7299414			0.00- 30.00	368.00
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	3433610	200.000	110.97	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	879315			0.00- 30.00	25.61
4.726	4.726 (0.663)	57	376659			0.00- 30.00	10.97
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	5702070	200.000	187.45	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.615	4.615 (0.647)	84	3309344			27.77- 87.77	58.04
4.615	4.615 (0.647)	51	1732621			0.00- 30.00	30.39
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	7548361	200.000	160.86	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	2028494			0.00- 57.46	26.87
4.920	4.920 (0.690)	41	2144519			0.00- 30.00	28.41
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	4072747	200.000	196.97	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	7355831			150.79- 210.79	180.61
4.975	4.975 (0.698)	98	2549821			0.00- 30.00	62.61
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	8747251	200.000	202.61	70.00- 130.00	100.00(A)
5.307	5.307 (0.744)	43	5988778			0.00- 30.00	68.46
5.307	5.307 (0.744)	86	1206838			0.00- 30.00	13.80
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	8551995	200.000	205.00	70.00- 130.00	100.00(A)
5.721	5.721 (0.802)	65	2506758			0.00- 59.89	29.31
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	1042303	200.000	198.54	70.00- 130.00	100.00
5.777	5.777 (0.810)	43	15287594			0.00- 30.00	1466.71
5.777	5.777 (0.810)	42	1247903			0.00- 30.00	119.73
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	6307518	200.000	190.20	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	3779026			31.09- 91.09	59.91
6.717	6.717 (0.942)	98	2396745			9.46- 69.46	38.00
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	2120114	200.000	191.99	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	11487506			519.71- 579.71	541.83
6.772	6.772 (0.950)	57	820244			0.00- 30.00	38.69
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	6718648	200.000	180.65	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	1907129			0.00- 58.75	28.39
7.131	7.131 (1.000)	72	2011829			0.00- 30.00	29.94
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	7620465	200.000	195.90	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	4899118			35.26- 95.26	64.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	5883879	200.000	189.55	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	8830348			118.28- 178.28	150.08
7.491	7.491 (1.050)	41	5199199			58.77- 118.77	88.36
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	7874500	200.000	197.77	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	4958996			34.76- 94.76	62.98
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	7306715	200.000	202.41	70.00- 130.00	100.00(A)
7.740	7.740 (1.085)	117	7595231			71.66- 131.66	103.95
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	12161272	200.000	196.50	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	2866601			0.00- 30.00	23.57
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	27651273	200.000	209.33	70.00- 130.00	100.00(A)
8.210	8.210 (1.151)	56	8476089			0.00- 30.00	30.65
8.210	8.210 (1.151)	41	7477828			0.00- 30.00	27.04
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	6174169	200.000	197.94	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	1911304			0.00- 30.00	30.96
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	1308394	200.000	178.22	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	10452208			0.00- 30.00	798.86
8.597	8.597 (0.954)	71	4449869			0.00- 30.00	340.10
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	4884760	200.000	190.01	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	4375898			60.31- 120.31	89.58
9.399	9.399 (1.043)	97	2964840			31.76- 91.76	60.70
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	7717915	200.000	197.27	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	3416304			0.00- 30.00	44.26
9.620	9.620 (1.349)	55	8071043			0.00- 30.00	104.58
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	4908614	200.000	206.64	70.00- 130.00	100.00(A)
9.896	9.896 (1.098)	62	3410328			40.22- 100.22	69.48
9.896	9.896 (1.098)	41	3321711			38.39- 98.39	67.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	2723629	200.000	205.05	70.00- 130.00	100.00(A)
10.145	10.145 (1.126)	58	2455043			61.01- 121.01	90.14
10.145	10.145 (1.126)	57	794436			0.00- 30.00	29.17
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	7607228	200.000	214.45	70.00- 130.00	100.00(A)
10.449	10.449 (1.160)	85	4807278			34.65- 94.65	63.19
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	6182543	200.000	199.08	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	1928174			1.90- 61.90	31.19
11.389	11.389 (1.264)	39	4287997			40.41- 100.41	69.36
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	4383876	200.000	205.66	70.00- 130.00	100.00(A)
11.749	11.749 (1.304)	43	12638852			0.00- 30.00	288.30
11.749	11.749 (1.304)	85	1552830			0.00- 30.00	35.42
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	12795271	200.000	202.30	70.00- 130.00	100.00(A)
11.970	11.970 (1.328)	92	7611522			28.89- 88.89	59.49
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	6396877	200.000	215.57	70.00- 130.00	100.00(A)
12.606	12.606 (0.877)	77	1972155			0.87- 60.87	30.83
12.606	12.606 (0.877)	39	4290330			36.13- 96.13	67.07
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	4051229	200.000	198.33	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	2500101			32.06- 92.06	61.71
12.910	12.910 (0.898)	83	3625047			58.01- 118.01	89.48
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	5201358	200.000	198.78	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	3862229			42.91- 102.91	74.25
12.938	12.938 (0.900)	131	3735037			41.46- 101.46	71.81
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	5904888	200.000	209.72	70.00- 130.00	100.00(A)
13.353	13.353 (0.929)	43	12380629			176.61- 236.61	209.67
13.353	13.353 (0.929)	100	938522			0.00- 30.00	15.89
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	6192176	200.000	216.31	70.00- 130.00	100.00(A)
13.491	13.491 (0.938)	127	4733210			0.00- 30.00	76.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	6462047	200.000	194.22	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	6076133			65.39- 125.39	94.03
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	10191034	200.000	201.28	70.00- 130.00	100.00(A)
14.403	14.403 (1.002)	114	3034178			0.36- 60.36	29.77
14.403	14.403 (1.002)	77	6624204			36.13- 96.13	65.00
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	5275923	200.000	200.81	70.00- 130.00	100.00(A)
14.569	14.569 (1.013)	91	18153677			0.00- 30.00	344.09
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	6847542	200.000	201.46	70.00- 130.00	100.00(A)
14.735	14.735 (1.025)	91	14833490			0.00- 30.00	216.63
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	6572647	200.000	200.53	70.00- 130.00	100.00(A)
15.288	15.288 (1.063)	91	15161879			192.54- 252.54	230.68
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	11079210	200.000	223.60	70.00- 130.00	100.00(A)
15.316	15.316 (1.065)	78	5735600			23.06- 83.06	51.77
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	5837221	200.000	227.37	70.00- 130.00	100.00(A)
15.592	15.592 (1.085)	171	2990616			21.66- 81.66	51.23
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	18141057	200.000	191.79	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	5114131			0.00- 30.00	28.19
15.786	15.786 (1.098)	51	2614997			0.00- 30.00	14.41
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	9550325	200.000	204.10	70.00- 130.00	100.00(A)
16.256	16.256 (1.131)	85	6113363			34.05- 94.05	64.01
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	18510768	200.000	164.19	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	5602144			0.00- 30.00	30.26
16.311	16.311 (1.135)	105	846310			0.00- 30.00	4.57
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	19171284	200.000	202.03	70.00- 130.00	100.00(A)
16.449	16.449 (1.144)	120	5882818			0.00- 58.10	30.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	16973711	200.000	201.34	70.00- 130.00	100.00(A)
16.560	16.560 (1.152)	120	7973037			0.00- 30.00	46.97
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	16270015	200.000	185.87	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	7646825			13.27- 73.27	47.00
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	9810328	200.000	204.44	70.00- 130.00	100.00(A)
17.279	17.279 (1.202)	148	6161325			0.00- 30.00	62.80
17.279	17.279 (1.202)	111	4455262			0.00- 30.00	45.41
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	12505750	200.000	200.54	70.00- 130.00	100.00(A)
17.389	17.389 (1.210)	148	7692670			0.00- 30.00	61.51
17.389	17.389 (1.210)	111	4928623			0.00- 30.00	39.41
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	15782563	200.000	237.95	70.00- 130.00	100.00(A)
17.555	17.555 (1.221)	126	2874885			0.00- 30.00	18.22
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	9926704	200.000	190.61	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	6092689			31.73- 91.73	61.38
17.749	17.749 (1.235)	111	4923551			18.87- 78.87	49.60
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	9869271	200.000	195.11	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	9281169			65.63- 125.63	94.04
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	5890513	200.000	183.34	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	3740905			33.81- 93.81	63.51
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	17818769	200.000	170.52	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	2579279			0.00- 30.00	14.48

QC Flag Legend

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

Report Date: 05-Jun-2008 09:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8060414.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd8.i/8-04jun.b/t14q604a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 04-JUN-2008
Calibration Time: 15:27
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	315196	189118	441274	328589	4.25
88 1,4-Difluorobenze	1363279	817967	1908591	1382972	1.44
125 Chlorobenzene-d5	1087207	652324	1522090	1136054	4.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

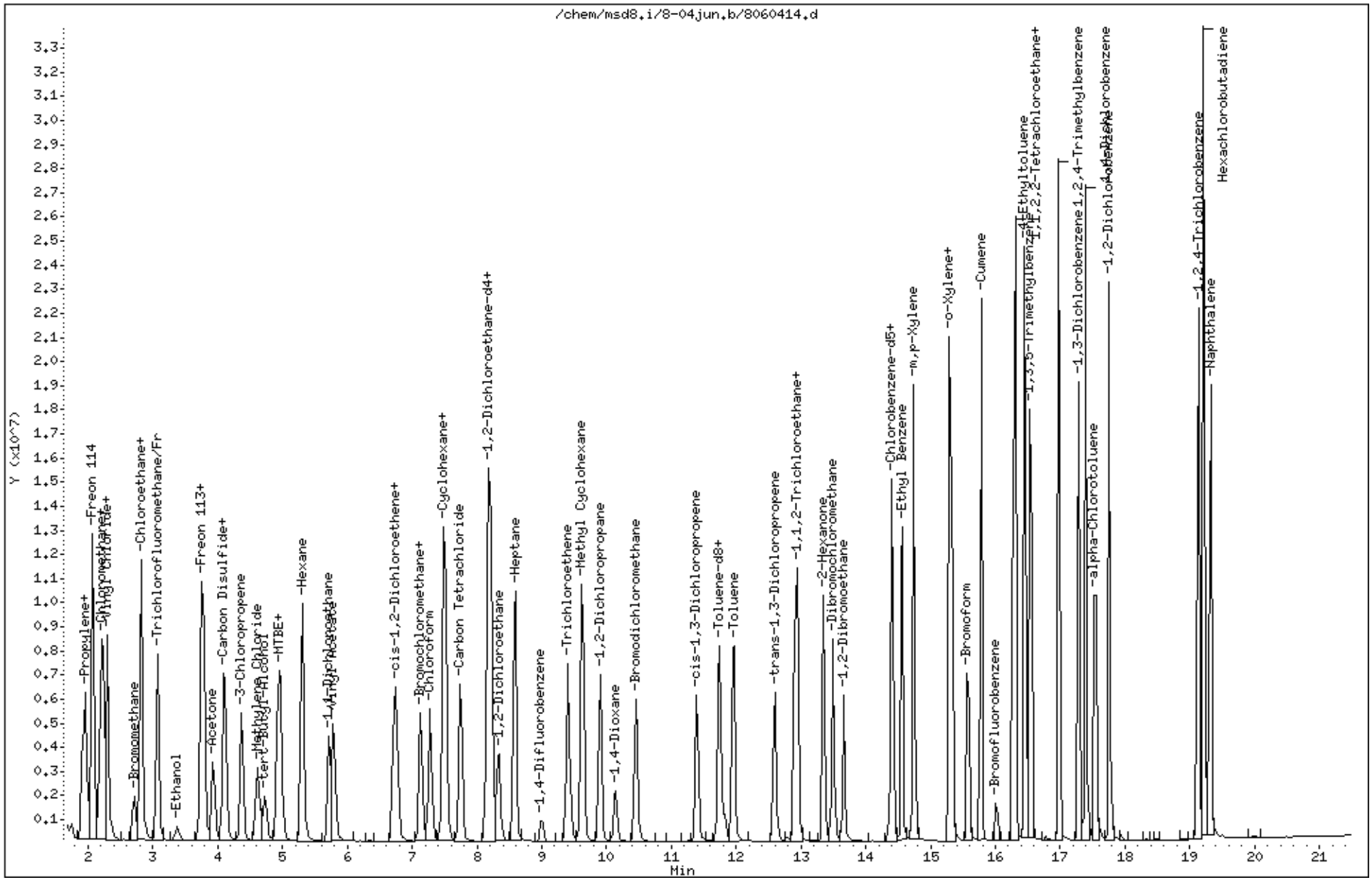
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0144

Data File: /chem/msd8.i/8-04jun.b/8060414.d
Date : 04-JUN-2008 16:24
Client ID: Level 7
Sample Info: 200mL #1612-19

Instrument: msd8.i
Operator: kr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806100-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 07:35 AM**

Compound	%Recovery
Freon 12	94
Freon 114	98
Vinyl Chloride	92
Bromomethane	97
Chloroethane	96
Freon 11	92
1,1-Dichloroethene	88
Freon 113	99
Methylene Chloride	93
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	85
Chloroform	88
1,1,1-Trichloroethane	90
Carbon Tetrachloride	93
Benzene	92
1,2-Dichloroethane	98
Trichloroethene	92
1,2-Dichloropropane	90
cis-1,3-Dichloropropene	84
Toluene	87
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	94
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	92
Chlorobenzene	90
Ethyl Benzene	90
m,p-Xylene	88
o-Xylene	92
Styrene	91
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	94
1,3-Butadiene	91
Hexane	93
Cyclohexane	80

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806100-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 07:35 AM**	

Compound	%Recovery
Heptane	83
Bromodichloromethane	101
Dibromochloromethane	109
Cumene	97
Propylbenzene	103
Chloromethane	92
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	111
Acetone	94
Carbon Disulfide	96
2-Propanol	95
trans-1,2-Dichloroethene	97
2-Butanone (Methyl Ethyl Ketone)	81
Tetrahydrofuran	82
1,4-Dioxane	90
4-Methyl-2-pentanone	83
2-Hexanone	86
Bromoform	109
4-Ethyltoluene	100
Ethanol	101
Methyl tert-butyl ether	89
3-Chloropropene	93
2,2,4-Trimethylpentane	85
Naphthalene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 12-JUN-2008 07:35
Lab File ID: 8061202.d Init. Cal. Date(s): 04-JUN-2008 04-JUN-2008
Analysis Type: AIR Init. Cal. Times: 13:36 16:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-12jun.b/t14q604a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 82 1,2-Dichloroethane-d4	1.80996	1.67066	0.010	7.69628	30.00000	Averaged
$ 104 Toluene-d8	0.95964	0.90748	0.010	5.43506	30.00000	Averaged
$ 140 Bromofluorobenzene	0.56652	0.61229	0.010	-8.07944	30.00000	Averaged
3 Propylene	1.60493	1.64588	0.010	-2.55128	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	4.22870	3.97357	0.010	6.03336	30.00000	Averaged
6 Freon 114	2.89486	2.83733	0.010	1.98745	30.00000	Averaged
8 Chloromethane	1.93730	1.78173	0.010	8.03037	30.00000	Averaged
11 Vinyl Chloride	1.97348	1.82171	0.010	7.69023	30.00000	Averaged
10 1,3-Butadiene	1.67131	1.51942	0.010	9.08833	30.00000	Averaged
13 Bromomethane	1.03573	1.00730	0.010	2.74549	30.00000	Averaged
16 Chloroethane	0.93005	0.88873	0.010	4.44261	30.00000	Averaged
18 Trichlorofluoromethane/Fr11	4.21103	3.85389	0.010	8.48088	30.00000	Averaged
23 Ethanol	0.73312	0.74185	0.010	-1.19177	30.00000	Averaged
28 Freon 113	2.18525	2.16008	0.010	1.15139	30.00000	Averaged
29 1,1-Dichloroethene	2.93190	2.59343	0.010	11.54426	30.00000	Averaged
30 Acetone	0.90399	0.85002	0.010	5.97061	30.00000	Averaged
34 2-Propanol	3.55218	3.37261	0.010	5.05517	30.00000	Averaged
33 Carbon Disulfide	4.57040	4.40888	0.010	3.53418	30.00000	Averaged
37 3-Chloropropene	0.74189	0.69041	0.010	6.93865	30.00000	Averaged
40 Methylene Chloride	2.31432	2.14759	0.010	7.20431	30.00000	Averaged
43 MTBE	3.57013	3.19089	0.010	10.62271	30.00000	Averaged
45 trans-1,2-Dichloroethene	1.57313	1.53073	0.010	2.69495	30.00000	Averaged
46 Hexane	3.28474	3.05544	0.010	6.98077	30.00000	Averaged
54 1,1-Dichloroethane	3.17391	2.85691	0.010	9.98788	30.00000	Averaged
55 Vinyl Acetate	0.39942	0.36816	0.010	7.82719	30.00000	Averaged
65 2-Butanone	0.84016	0.68160	0.010	18.87270	30.00000	Averaged
64 cis-1,2-Dichloroethene	2.52313	2.14031	0.010	15.17222	30.00000	Averaged
67 Tetrahydrofuran	2.82962	2.32504	0.010	17.83208	30.00000	Averaged
70 Chloroform	2.95960	2.61106	0.010	11.77665	30.00000	Averaged
75 1,1,1-Trichloroethane	3.02937	2.72228	0.010	10.13735	30.00000	Averaged
73 Cyclohexane	2.36172	1.90253	0.010	19.44284	30.00000	Averaged
77 Carbon Tetrachloride	2.74652	2.54709	0.010	7.26136	30.00000	Averaged
80 2,2,4-Trimethylpentane	10.04993	8.55865	0.010	14.83877	30.00000	Averaged
81 Benzene	1.11880	1.03343	0.010	7.63055	30.00000	Averaged
83 1,2-Dichloroethane	0.56385	0.55571	0.010	1.44379	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 12-JUN-2008 07:35
Lab File ID: 8061202.d Init. Cal. Date(s): 04-JUN-2008 04-JUN-2008
Analysis Type: AIR Init. Cal. Times: 13:36 16:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-12jun.b/t14q604a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
85 Heptane	0.13271	0.11024	0.010	16.92971	30.00000	Averaged
94 Trichloroethene	0.46472	0.42524	0.010	8.49399	30.00000	Averaged
97 1,2-Dichloropropane	0.42940	0.38571	0.010	10.17456	30.00000	Averaged
98 1,4-Dioxane	0.24011	0.21494	0.010	10.48344	30.00000	Averaged
100 Bromodichloromethane	0.64125	0.64628	0.010	-0.78437	30.00000	Averaged
102 cis-1,3-Dichloropropene	0.56138	0.47468	0.010	15.44358	30.00000	Averaged
103 4-Methyl-2-pentanone	0.38533	0.31906	0.010	17.19690	30.00000	Averaged
105 Toluene	1.14335	0.99239	0.010	13.20377	30.00000	Averaged
108 trans-1,3-Dichloropropene	0.65300	0.63311	0.010	3.04628	30.00000	Averaged
110 1,1,2-Trichloroethane	0.44952	0.42480	0.010	5.49926	30.00000	Averaged
112 Tetrachloroethene	0.57581	0.59590	0.010	-3.48917	30.00000	Averaged
114 2-Hexanone	0.61959	0.53074	0.010	14.33976	30.00000	Averaged
116 Dibromochloromethane	0.62994	0.68838	0.010	-9.27653	30.00000	Averaged
117 1,2-Dibromoethane	0.73218	0.67636	0.010	7.62364	30.00000	Averaged
126 Chlorobenzene	1.11420	1.00378	0.010	9.90977	30.00000	Averaged
129 Ethyl Benzene	0.57816	0.52306	0.010	9.52993	30.00000	Averaged
130 m,p-Xylene	0.74798	0.66076	0.010	11.66059	30.00000	Averaged
132 o-Xylene	0.72126	0.66332	0.010	8.03292	30.00000	Averaged
134 Styrene	1.09038	0.99120	0.010	9.09598	30.00000	Averaged
135 Bromoform	0.56496	0.61461	0.010	-8.78785	30.00000	Averaged
144 1,1,2,2-Tetrachloroethane	1.02973	0.91786	0.010	10.86449	30.00000	Averaged
147 4-Ethyltoluene	2.08825	2.08753	0.010	0.03447	30.00000	Averaged
148 1,3,5-Trimethylbenzene	1.85516	1.71940	0.010	7.31779	30.00000	Averaged
153 1,2,4-Trimethylbenzene	1.92624	1.85117	0.010	3.89692	30.00000	Averaged
156 1,3-Dichlorobenzene	1.05597	1.03563	0.010	1.92644	30.00000	Averaged
157 1,4-Dichlorobenzene	1.37233	1.32513	0.010	3.43919	30.00000	Averaged
158 alpha-Chlorotoluene	1.45961	1.42636	0.010	2.27816	30.00000	Averaged
161 1,2-Dichlorobenzene	1.14603	1.07802	0.010	5.93473	30.00000	Averaged
167 1,2,4-Trichlorobenzene	1.11311	1.08468	0.010	2.55377	30.00000	Averaged
168 Hexachlorobutadiene	0.70704	0.78458	0.010	-10.96686	30.00000	Averaged
145 Propylbenzene	2.48091	2.55741	0.010	-3.08363	30.00000	Averaged
137 Cumene	2.08145	2.02231	0.010	2.84142	30.00000	Averaged
169 Naphthalene	2.29955	2.03053	0.010	11.69885	30.00000	Averaged
38 tert-Butyl-Alcohol	2.35417	2.02684	0.010	13.90401	40.00000	Averaged
9 Butane	0.43923	0.39529	0.010	10.00411	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 12-JUN-2008 07:35
Lab File ID: 8061202.d Init. Cal. Date(s): 04-JUN-2008 04-JUN-2008
Analysis Type: AIR Init. Cal. Times: 13:36 16:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-12jun.b/t14q604a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
15 Isopentane	2.75242	2.76711	0.010	-0.53357	30.00000	Averaged
95 Methyl Cyclohexane	2.97664	2.36021	0.010	20.70864	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-12jun.b/8061202.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 12-JUN-2008 07:35
Operator : ct Inst ID: msd8.i
Smp Info : 50mL #1612-20
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd8.i/8-12jun.b/t14q604a.m
Meth Date : 12-Jun-2008 07:55 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.159	7.159 (1.000)	130	273341	25.0000		80.00- 120.00		100.00
7.159	7.159 (1.000)	128	213322			48.04- 108.04		78.04
7.132	7.132 (1.000)	49	546476			169.92- 229.92		199.92
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.012	9.012 (1.000)	114	1026488	25.0000		80.00- 120.00		100.00
9.012	9.012 (1.000)	88	174705			0.00- 47.02		17.02
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	781025	25.0000		80.00- 120.00		100.00
14.376	14.376 (1.000)	82	466388			0.00- 30.00		59.71
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.210	8.210 (1.147)	65	456661	25.0000	23.076	80.00- 120.00		100.00
8.210	8.210 (1.147)	67	259115			0.00- 30.00		56.74
$ 104 Toluene-d8					CAS #: 2037-26-5			
11.832	11.832 (1.313)	98	931519	25.0000	23.641	80.00- 120.00		100.00
11.832	11.832 (1.313)	70	112428			0.00- 30.00		12.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	665594			0.00- 30.00	71.45
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	478215	25.0000	27.020	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	686681			113.59- 173.59	143.59
16.035	16.035 (1.115)	176	464357			67.10- 127.10	97.10
3 Propylene					CAS #: 115-07-1		
1.934	1.934 (0.270)	41	899774	50.0000	51.276	80.00- 120.00	100.00
1.934	1.934 (0.270)	42	586877			0.00- 30.00	65.22
1.934	1.934 (0.270)	39	648004			0.00- 30.00	72.02
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.278)	85	2172284	50.0000	46.983	80.00- 120.00	100.00
1.989	1.989 (0.278)	87	673799			0.00- 30.00	31.02
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.289)	135	1551121	50.0000	49.006	80.00- 120.00	100.00
2.072	2.072 (0.289)	137	496354			2.00- 62.00	32.00
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.305)	50	974042	50.0000	45.985	80.00- 120.00	100.00
2.182	2.182 (0.305)	52	277546			0.00- 30.00	28.49
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.321 (0.324)	62	995899	50.0000	46.155	80.00- 120.00	100.00
2.321	2.321 (0.324)	64	303235			0.00- 30.00	30.45
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.324)	54	830639	50.0000	45.456	80.00- 120.00	100.00
2.321	2.321 (0.324)	39	770973			0.00- 30.00	92.82
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.382)	94	550673	50.0000	48.627	80.00- 120.00	100.00
2.735	2.735 (0.382)	96	496502			60.16- 120.16	90.16
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.394)	64	485853	50.0000	47.779	80.00- 120.00	100.00
2.818	2.818 (0.394)	49	155232			0.00- 30.00	31.95
2.818	2.818 (0.394)	66	146888			0.00- 30.00	30.23
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.432)	101	2106860	50.0000	45.760	80.00- 120.00	100.00
3.095	3.095 (0.432)	103	1409692			36.91- 96.91	66.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.471)	45	405558	50.0000	50.596	80.00- 120.00	100.00
3.371	3.371 (0.471)	43	80826			0.00- 30.00	19.93
3.371	3.371 (0.471)	46	153604			0.00- 30.00	37.87
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.525)	151	1180882	50.0000	49.424	80.00- 120.00	100.00
3.758	3.758 (0.525)	153	760920			34.44- 94.44	64.44
3.758	3.758 (0.525)	101	1524700			99.12- 159.12	129.12
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.814	3.814 (0.533)	61	1417786	50.0000	44.228	80.00- 120.00	100.00
3.814	3.814 (0.533)	96	724012			21.07- 81.07	51.07
3.814	3.814 (0.533)	98	483568			4.11- 64.11	34.11
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.548)	58	464692	50.0000	47.015	80.00- 120.00	100.00
3.924	3.924 (0.548)	43	1680286			0.00- 30.00	361.59
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.575)	45	1843749	50.0000	47.472	80.00- 120.00	100.00
4.118	4.118 (0.575)	43	429271			0.00- 30.00	23.28
4.118	4.118 (0.575)	59	58678			0.00- 30.00	3.18
33 Carbon Disulfide					CAS #: 75-15-0		
4.118	4.118 (0.575)	76	2410259	50.0000	48.233	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.394	4.394 (0.614)	76	377437	50.0000	46.531	80.00- 120.00	100.00
4.367	4.367 (0.610)	41	1502615			0.00- 30.00	398.11
40 Methylene Chloride					CAS #: 75-09-2		
4.616	4.616 (0.645)	49	1174051	50.0000	46.398	80.00- 120.00	100.00
4.616	4.616 (0.645)	84	681273			28.03- 88.03	58.03
4.616	4.616 (0.645)	51	350754			0.00- 30.00	29.88
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.691)	73	1744404	50.0000	44.689	80.00- 120.00	100.00
4.947	4.947 (0.691)	57	470011			0.00- 56.94	26.94
4.947	4.947 (0.691)	41	578705			0.00- 30.00	33.17
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.695)	96	836825	50.0000	48.652	80.00- 120.00	100.00
4.975	4.975 (0.695)	61	1416634			139.29- 199.29	169.29
4.975	4.975 (0.695)	98	530587			0.00- 30.00	63.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.334	5.334 (0.745)	57	1670359	50.0000	46.510	80.00- 120.00	100.00
5.334	5.334 (0.745)	43	1222631			0.00- 30.00	73.20
5.334	5.334 (0.745)	86	233811			0.00- 30.00	14.00
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.722	5.722 (0.799)	63	1561824	50.0000	45.006	80.00- 120.00	100.00
5.722	5.722 (0.799)	65	460228			0.00- 59.47	29.47
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.811)	86	201265	50.0000	46.086	80.00- 120.00	100.00
5.804	5.804 (0.811)	43	2747289			0.00- 30.00	1365.01
5.804	5.804 (0.811)	42	238681			0.00- 30.00	118.59
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	372618	50.0000	40.564	80.00- 120.00	100.00
6.772	6.772 (0.946)	43	2082255			528.82- 588.82	558.82
6.772	6.772 (0.946)	57	140215			0.00- 30.00	37.63
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.938)	61	1170073	50.0000	42.414	80.00- 120.00	100.00
6.745	6.745 (0.942)	96	732205			32.58- 92.58	62.58
6.745	6.745 (0.942)	98	479347			10.97- 70.97	40.97
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (0.996)	42	1271062	50.0000	41.084	80.00- 120.00	100.00
7.132	7.132 (0.996)	71	338031			0.00- 56.59	26.59
7.132	7.132 (0.996)	72	368302			0.00- 30.00	28.98
70 Chloroform					CAS #: 67-66-3		
7.298	7.298 (1.019)	83	1427423	50.0000	44.112	80.00- 120.00	100.00
7.298	7.298 (1.019)	85	916746			34.22- 94.22	64.22
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.050)	97	1488223	50.0000	44.931	80.00- 120.00	100.00
7.519	7.519 (1.050)	99	948423			33.73- 93.73	63.73
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.046)	84	1040083	50.0000	40.278	80.00- 120.00	100.00
7.491	7.491 (1.046)	56	1551912			119.21- 179.21	149.21
7.491	7.491 (1.046)	41	1004038			66.53- 126.53	96.53
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.768	7.768 (1.085)	119	1392449	50.0000	46.369	80.00- 120.00	100.00
7.768	7.768 (1.085)	117	1463850			75.13- 135.13	105.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.147)	57	4678872	50.0000	42.581	80.00- 120.00	100.00
8.210	8.210 (1.147)	56	1496641			0.00- 30.00	31.99
8.210	8.210 (1.147)	41	1457213			0.00- 30.00	31.14
81 Benzene					CAS #: 71-43-2		
8.182	8.182 (0.908)	78	2121597	50.0000	46.185	80.00- 120.00	100.00
8.182	8.182 (0.908)	77	515386			0.00- 30.00	24.29
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1140858	50.0000	49.278	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	349464			0.00- 30.00	30.63
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	226329	50.0000	41.535	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	1902347			0.00- 30.00	840.52
8.597	8.597 (0.954)	71	760875			0.00- 30.00	336.18
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	873017	50.0000	45.753	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	805691			62.29- 122.29	92.29
9.399	9.399 (1.043)	97	534982			31.28- 91.28	61.28
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.897 (1.098)	63	791858	50.0000	44.913	80.00- 120.00	100.00
9.897	9.897 (1.098)	62	547167			39.10- 99.10	69.10
9.897	9.897 (1.098)	41	656366			52.89- 112.89	82.89
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	441256	50.0000	44.758	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	392980			59.06- 119.06	89.06
10.145	10.145 (1.126)	57	125517			0.00- 30.00	28.45
100 Bromodichloromethane					CAS #: 75-27-4		
10.477	10.477 (1.163)	83	1326795	50.0000	50.392	80.00- 120.00	100.00
10.477	10.477 (1.163)	85	838798			33.22- 93.22	63.22
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	974505	50.0000	42.278	80.00- 120.00	100.00
11.390	11.390 (1.264)	77	302458			1.04- 61.04	31.04
11.390	11.390 (1.264)	39	814257			53.56- 113.56	83.56
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	655029	50.0000	41.402	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	1974089			0.00- 30.00	301.37
11.749	11.749 (1.304)	85	235669			0.00- 30.00	35.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	2037344	50.0000	43.398	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1179160			27.88- 87.88	57.88
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	988945	50.0000	48.477	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	315988			1.95- 61.95	31.95
12.606	12.606 (0.877)	39	778095			48.68- 108.68	78.68
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	663551	50.0000	47.250	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	404207			30.92- 90.92	60.92
12.910	12.910 (0.898)	83	578393			57.17- 117.17	87.17
112 Tetrachloroethene					CAS #: 127-18-4		
12.966	12.966 (0.902)	166	930831	50.0000	51.744	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	666972			41.65- 101.65	71.65
12.938	12.938 (0.900)	131	643413			39.12- 99.12	69.12
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	829049	50.0000	42.830	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1870044			195.56- 255.56	225.56
13.353	13.353 (0.929)	100	129558			0.00- 30.00	15.63
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1075280	50.0000	54.638	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	812080			0.00- 30.00	75.52
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1056512	50.0000	46.188	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	991723			63.87- 123.87	93.87
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1567962	50.0000	45.045	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	480628			0.65- 60.65	30.65
14.403	14.403 (1.002)	77	1014697			34.71- 94.71	64.71
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	817054	50.0000	45.235	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	2809717			0.00- 30.00	343.88
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1032136	50.0000	44.170	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2267015			0.00- 30.00	219.64
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1036141	50.0000	45.984	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	2380562			199.75- 259.75	229.75
134 Styrene					CAS #: 100-42-5		
15.344	15.344 (1.067)	104	1548301	50.0000	45.452	80.00- 120.00	100.00
15.344	15.344 (1.067)	78	871726			26.30- 86.30	56.30
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	960050	50.0000	54.394	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	497608			21.83- 81.83	51.83
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1433742	50.0000	44.568	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	938210			35.44- 95.44	65.44
147 4-Ethyltoluene					CAS #: 622-96-8		
16.450	16.450 (1.144)	105	3260824	50.0000	49.983	80.00- 120.00	100.00
16.450	16.450 (1.144)	120	900307			0.00- 57.61	27.61
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	2685790	50.0000	46.341	80.00- 120.00	100.00
16.560	16.560 (1.152)	120	1246329			0.00- 30.00	46.40
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	2891625	50.0000	48.052	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1252009			13.30- 73.30	43.30
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1617707	50.0000	49.037	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1000091			0.00- 30.00	61.82
17.279	17.279 (1.202)	111	730482			0.00- 30.00	45.16
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.390	17.390 (1.210)	146	2069923	50.0000	48.280	80.00- 120.00	100.00
17.390	17.390 (1.210)	148	1307541			0.00- 30.00	63.17
17.390	17.390 (1.210)	111	901546			0.00- 30.00	43.55
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	2228042	50.0000	48.861	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	386351			0.00- 30.00	17.34
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1683917	50.0000	47.033	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1049223			32.31- 92.31	62.31
17.749	17.749 (1.235)	111	823243			18.89- 78.89	48.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.132	19.132 (1.331)	180	1694326	50.0000	48.723	80.00- 120.00	100.00
19.132	19.132 (1.331)	182	1637027			66.62- 126.62	96.62
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1225561	50.0000	55.483	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	798911			35.19- 95.19	65.19
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	3994808	50.0000	51.542	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	876066			0.00- 30.00	21.93
16.311	16.311 (1.135)	105	139896			0.00- 30.00	3.50
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3158953	50.0000	48.579	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	835120			0.00- 30.00	26.44
15.786	15.786 (1.098)	51	467043			0.00- 30.00	14.78
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	3171792	50.0000	44.150	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	393484			0.00- 30.00	12.41
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.754	4.754 (0.664)	59	1108042	50.0000	43.048	80.00- 120.00	100.00
4.754	4.754 (0.664)	41	350238			0.00- 30.00	31.61
4.754	4.754 (0.664)	57	122266			0.00- 30.00	11.03
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.313)	58	216099	50.0000	44.998	80.00- 120.00	100.00
2.238	2.238 (0.313)	43	1861978			0.00- 30.00	861.63
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.398)	43	1512734	50.0000	50.267	80.00- 120.00	100.00
2.846	2.846 (0.398)	57	898491			0.00- 30.00	59.40
2.846	2.846 (0.398)	72	83091			0.00- 30.00	5.49
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.648	9.648 (1.348)	83	1290290	50.0000	39.646	80.00- 120.00	100.00
9.648	9.648 (1.348)	98	574249			0.00- 30.00	44.51
9.620	9.620 (1.344)	55	1351031			0.00- 30.00	104.71

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8061202.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 12-JUN-2008
Calibration Time: 07:35
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	273341	164005	382677	273341	0.00
88 1,4-Difluorobenze	1026488	615893	1437083	1026488	0.00
125 Chlorobenzene-d5	781025	468615	1093435	781025	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.16	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

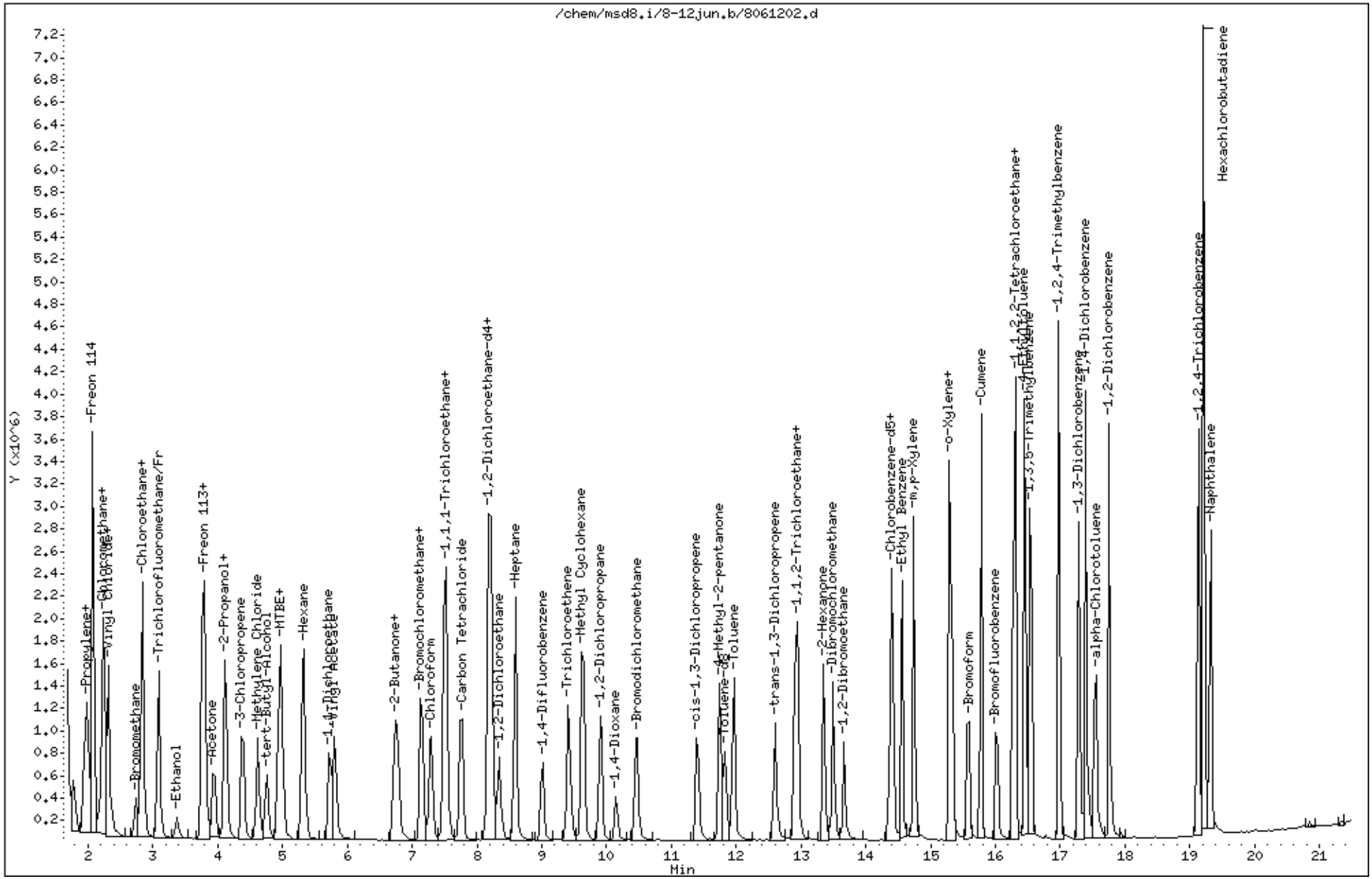
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0159

Data File: /chem/msd8.i/8-12jun.b/8061202.d
Date : 12-JUN-2008 07:35
Client ID: CCV-1
Sample Info: 50mL #1612-20

Instrument: msd8.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806100-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 08:03 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	114
Vinyl Chloride	111
Bromomethane	121
Chloroethane	111
Freon 11	109
1,1-Dichloroethene	119
Freon 113	130
Methylene Chloride	118
1,1-Dichloroethane	112
cis-1,2-Dichloroethene	101
Chloroform	108
1,1,1-Trichloroethane	109
Carbon Tetrachloride	112
Benzene	109
1,2-Dichloroethane	118
Trichloroethene	106
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	99
Toluene	107
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	112
Tetrachloroethene	119
1,2-Dibromoethane (EDB)	108
Chlorobenzene	115
Ethyl Benzene	108
m,p-Xylene	104
o-Xylene	110
Styrene	96
1,1,2,2-Tetrachloroethane	111
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	118
1,4-Dichlorobenzene	118
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	118
1,3-Butadiene	115
Hexane	111
Cyclohexane	96

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MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8061203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/12/08 08:03 AM**	

Compound	%Recovery
Heptane	100
Bromodichloromethane	119
Dibromochloromethane	127
Cumene	116
Propylbenzene	120
Chloromethane	117
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	132 Q
Acetone	131
Carbon Disulfide	116
2-Propanol	110
trans-1,2-Dichloroethene	116
2-Butanone (Methyl Ethyl Ketone)	98
Tetrahydrofuran	96
1,4-Dioxane	104
4-Methyl-2-pentanone	95
2-Hexanone	93
Bromoform	133
4-Ethyltoluene	117
Ethanol	120
Methyl tert-butyl ether	114
3-Chloropropene	115
2,2,4-Trimethylpentane	101
Naphthalene	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	114	70-130

Report Date: 12-Jun-2008 08:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-12jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	47.898	95.80	70-130
108 trans-1,3-Dichloro	50.000	58.112	116.23	70-130
3 Propylene	50.000	67.454	134.91	60-140
4 Dichlorodifluorome	50.000	55.816	111.63	70-130
6 Freon 114	50.000	56.772	113.54	70-130
8 Chloromethane	50.000	58.433	116.87	70-130
11 Vinyl Chloride	50.000	55.306	110.61	70-130
10 1,3-Butadiene	50.000	57.476	114.95	60-140
13 Bromomethane	50.000	60.670	121.34	70-130
16 Chloroethane	50.000	55.333	110.67	70-130
18 Trichlorofluoromet	50.000	54.656	109.31	70-130
23 Ethanol	50.000	59.859	119.72	60-140
28 Freon 113	50.000	65.124	130.25*	70-130
29 1,1-Dichloroethene	50.000	59.406	118.81	70-130
30 Acetone	50.000	65.584	131.17	60-140
33 Carbon Disulfide	50.000	58.159	116.32	60-140
34 2-Propanol	50.000	55.004	110.01	60-140
40 Methylene Chloride	50.000	59.197	118.39	70-130
43 MTBE	50.000	56.806	113.61	60-140
45 trans-1,2-Dichloro	50.000	58.155	116.31	60-140
46 Hexane	50.000	55.539	111.08	60-140
54 1,1-Dichloroethane	50.000	56.100	112.20	70-130
55 Vinyl Acetate	50.000	50.573	101.15	60-140
64 cis-1,2-Dichloroet	50.000	50.694	101.39	70-130
65 2-Butanone	50.000	48.797	97.59	60-140
67 Tetrahydrofuran	50.000	47.827	95.65	60-140
70 Chloroform	50.000	53.757	107.51	70-130
73 Cyclohexane	50.000	48.039	96.08	60-140
75 1,1,1-Trichloroeth	50.000	54.407	108.81	70-130
77 Carbon Tetrachlori	50.000	56.168	112.34	70-130
81 Benzene	50.000	54.590	109.18	70-130
83 1,2-Dichloroethane	50.000	59.289	118.58	70-130
85 Heptane	50.000	50.242	100.48	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	52.916	105.83	70-130
97 1,2-Dichloropropan	50.000	52.708	105.42	70-130
98 1,4-Dioxane	50.000	52.041	104.08	60-140
100 Bromodichlorometha	50.000	59.749	119.50	60-140
102 cis-1,3-Dichloropr	50.000	49.694	99.39	70-130
103 4-Methyl-2-pentano	50.000	47.590	95.18	60-140
105 Toluene	50.000	53.523	107.05	70-130
110 1,1,2-Trichloroeth	50.000	55.936	111.87	70-130
112 Tetrachloroethene	50.000	59.600	119.20	70-130
114 2-Hexanone	50.000	46.594	93.19	60-140
116 Dibromochlorometha	50.000	63.745	127.49	60-140
117 1,2-Dibromoethane	50.000	54.040	108.08	70-130
126 Chlorobenzene	50.000	57.358	114.72	70-130
129 Ethyl Benzene	50.000	53.750	107.50	70-130
130 m,p-Xylene	50.000	51.948	103.90	70-130
132 o-Xylene	50.000	54.972	109.94	70-130
135 Bromoform	50.000	66.606	133.21	60-140
144 1,1,2,2-Tetrachlor	50.000	55.633	111.27	70-130
147 4-Ethyltoluene	50.000	58.446	116.89	60-140
148 1,3,5-Trimethylben	50.000	52.238	104.48	70-130
153 1,2,4-Trimethylben	50.000	55.942	111.88	70-130
156 1,3-Dichlorobenzen	50.000	59.206	118.41	70-130
157 1,4-Dichlorobenzen	50.000	58.900	117.80	70-130
158 alpha-Chlorotoluen	50.000	58.850	117.70	70-130
161 1,2-Dichlorobenzen	50.000	58.937	117.87	70-130
167 1,2,4-Trichloroben	50.000	61.508	123.02	70-130
168 Hexachlorobutadien	50.000	65.966	131.93*	70-130
137 Cumene	50.000	58.208	116.42	60-140
145 Propylbenzene	50.000	60.229	120.46	60-140
37 3-Chloropropene	50.000	57.336	114.67	60-140
80 2,2,4-Trimethylpen	50.000	50.699	101.40	60-140
169 Naphthalene	50.000	47.814	95.63	60-140
9 Butane	50.000	57.204	114.41	70-130
15 Isopentane	50.000	59.403	118.81	70-130
95 Methyl Cyclohexane	50.000	47.404	94.81	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	23.182	92.73	70-130
$ 104 Toluene-d8	25.000	23.810	95.24	70-130
$ 140 Bromofluorobenzene	25.000	28.506	114.02	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-12jun.b/8061203.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 12-JUN-2008 08:03
Operator : ct Inst ID: msd8.i
Smp Info : 100mL #1576-336A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /var/chem/msd8.i/8-12jun.b/t14q604a.m
Meth Date : 12-Jun-2008 07:55 sscott Quant Type: ISTD
Cal Date : 04-JUN-2008 16:24 Cal File: 8060414.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.159 (1.000)	130	216919	25.0000		80.00- 120.00	100.00
7.132	7.159 (1.000)	128	167167			48.04- 108.04	77.06
7.132	7.132 (1.000)	49	450426			169.92- 229.92	207.65
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	837073	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	140998			0.00- 47.02	16.84
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	626052	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	400714			0.00- 30.00	64.01
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	364070	23.1824	23.182	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	212741			0.00- 30.00	58.43
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	765053	23.8100	23.810	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	91176			0.00- 30.00	11.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	530011			0.00- 30.00	69.28
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	404411	28.5061	28.506	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	568451			113.59- 173.59	140.56
16.035	16.035 (1.115)	176	386806			67.10- 127.10	95.65
3 Propylene					CAS #: 115-07-1		
1.906	1.934 (0.267)	41	939340	67.4542	67.454	80.00- 120.00	100.00
1.906	1.934 (0.267)	42	607459			0.00- 30.00	64.67
1.906	1.934 (0.267)	39	669469			0.00- 30.00	71.27
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.989 (0.275)	85	2047962	55.8158	55.816	80.00- 120.00	100.00
1.961	1.989 (0.275)	87	635405			0.00- 30.00	31.03
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	1426010	56.7723	56.772	80.00- 120.00	100.00
2.072	2.072 (0.290)	137	441575			2.00- 62.00	30.97
8 Chloromethane					CAS #: 74-87-3		
2.155	2.182 (0.302)	50	982226	58.4328	58.433	80.00- 120.00	100.00
2.155	2.182 (0.302)	52	290586			0.00- 30.00	29.58
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.321 (0.322)	62	947028	55.3061	55.306	80.00- 120.00	100.00
2.293	2.321 (0.322)	64	296367			0.00- 30.00	31.29
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.321 (0.322)	54	833488	57.4757	57.476	80.00- 120.00	100.00
2.293	2.321 (0.322)	39	695247			0.00- 30.00	83.41
13 Bromomethane					CAS #: 74-83-9		
2.708	2.735 (0.380)	94	545231	60.6702	60.670	80.00- 120.00	100.00
2.708	2.735 (0.380)	96	497271			60.16- 120.16	91.20
16 Chloroethane					CAS #: 75-00-3		
2.791	2.818 (0.391)	64	446526	55.3331	55.333	80.00- 120.00	100.00
2.791	2.818 (0.391)	49	145788			0.00- 30.00	32.65
2.791	2.818 (0.391)	66	143615			0.00- 30.00	32.16
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.095 (0.430)	101	1997042	54.6565	54.656	80.00- 120.00	100.00
3.067	3.095 (0.430)	103	1299717			36.91- 96.91	65.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.344	3.371 (0.469)	45	380765	59.8587	59.859	80.00- 120.00	100.00
3.344	3.371 (0.469)	43	77687			0.00- 30.00	20.40
3.344	3.371 (0.469)	46	148709			0.00- 30.00	39.06
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1234811	65.1242	65.124	80.00- 120.00	100.00(R)
3.758	3.758 (0.527)	153	787492			34.44- 94.44	63.77
3.758	3.758 (0.527)	101	1608055			99.12- 159.12	130.23
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.814 (0.531)	61	1511250	59.4059	59.406	80.00- 120.00	100.00
3.786	3.814 (0.531)	96	782099			21.07- 81.07	51.75
3.786	3.814 (0.531)	98	502088			4.11- 64.11	33.22
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	514425	65.5840	65.584	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	1876461			0.00- 30.00	364.77
34 2-Propanol					CAS #: 67-63-0		
4.090	4.118 (0.574)	45	1695305	55.0041	55.004	80.00- 120.00	100.00
4.090	4.118 (0.574)	43	397977			0.00- 30.00	23.48
4.118	4.118 (0.577)	59	58262			0.00- 30.00	3.44
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.118 (0.574)	76	2306363	58.1588	58.159	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.394 (0.612)	76	369082	57.3357	57.336	80.00- 120.00	100.00
4.367	4.367 (0.612)	41	1475459			0.00- 30.00	399.76
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.616 (0.643)	49	1188727	59.1972	59.197	80.00- 120.00	100.00
4.615	4.616 (0.647)	84	697727			28.03- 88.03	58.70
4.588	4.616 (0.643)	51	353178			0.00- 30.00	29.71
43 MTBE					CAS #: 1634-04-4		
4.920	4.947 (0.690)	73	1759689	56.8060	56.806	80.00- 120.00	100.00
4.920	4.947 (0.690)	57	471747			0.00- 56.94	26.81
4.920	4.947 (0.690)	41	599056			0.00- 30.00	34.04
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	793798	58.1552	58.155	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1347393			139.29- 199.29	169.74
4.975	4.975 (0.698)	98	501888			0.00- 30.00	63.23

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.307	5.334 (0.744)	57	1582910	55.5389	55.539	80.00- 120.00	100.00
5.307	5.334 (0.744)	43	1175464			0.00- 30.00	74.26
5.307	5.334 (0.744)	86	217012			0.00- 30.00	13.71
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.722 (0.802)	63	1544947	56.0997	56.100	80.00- 120.00	100.00
5.721	5.722 (0.802)	65	474500			0.00- 59.47	30.71
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	175270	50.5730	50.573	80.00- 120.00	100.00
5.804	5.804 (0.814)	43	2570910			0.00- 30.00	1466.83
5.777	5.804 (0.810)	42	218251			0.00- 30.00	124.52
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	355722	48.7969	48.797	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	1963436			528.82- 588.82	551.96
6.772	6.772 (0.950)	57	137911			0.00- 30.00	38.77
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1109832	50.6944	50.694	80.00- 120.00	100.00
6.717	6.745 (0.942)	96	704719			32.58- 92.58	63.50
6.717	6.745 (0.942)	98	436938			10.97- 70.97	39.37
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	1174250	47.8271	47.827	80.00- 120.00	100.00
7.132	7.132 (1.000)	71	299932			0.00- 56.59	25.54
7.132	7.132 (1.000)	72	329716			0.00- 30.00	28.08
70 Chloroform					CAS #: 67-66-3		
7.270	7.298 (1.019)	83	1380472	53.7572	53.757	80.00- 120.00	100.00
7.270	7.298 (1.019)	85	870641			34.22- 94.22	63.07
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1430092	54.4068	54.407	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	920982			33.73- 93.73	64.40
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	984419	48.0390	48.039	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1507349			119.21- 179.21	153.12
7.491	7.491 (1.050)	41	970561			66.53- 126.53	98.59
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.768 (1.085)	119	1338537	56.1681	56.168	80.00- 120.00	100.00
7.740	7.768 (1.085)	117	1395376			75.13- 135.13	104.25

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	4420989	50.6989	50.699	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	1402501			0.00- 30.00	31.72
8.182	8.210 (1.147)	41	1347053			0.00- 30.00	30.47
81 Benzene					CAS #: 71-43-2		
8.155	8.182 (0.905)	78	2044992	54.5906	54.590	80.00- 120.00	100.00
8.155	8.182 (0.905)	77	495397			0.00- 30.00	24.22
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1119342	59.2892	59.289	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	340279			0.00- 30.00	30.40
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	223254	50.2420	50.242	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	1790379			0.00- 30.00	801.94
8.597	8.597 (0.954)	71	700446			0.00- 30.00	313.74
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	823383	52.9163	52.916	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	754584			62.29- 122.29	91.64
9.399	9.399 (1.043)	97	499522			31.28- 91.28	60.67
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.897 (1.098)	63	757817	52.7080	52.708	80.00- 120.00	100.00
9.896	9.897 (1.098)	62	522923			39.10- 99.10	69.00
9.896	9.897 (1.098)	41	632473			52.89- 112.89	83.46
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	418381	52.0409	52.041	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	378141			59.06- 119.06	90.38
10.145	10.145 (1.126)	57	121702			0.00- 30.00	29.09
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.477 (1.160)	83	1282869	59.7492	59.749	80.00- 120.00	100.00
10.449	10.477 (1.160)	85	819500			33.22- 93.22	63.88
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	934081	49.6944	49.694	80.00- 120.00	100.00
11.390	11.390 (1.264)	77	291967			1.04- 61.04	31.26
11.390	11.390 (1.264)	39	768390			53.56- 113.56	82.26
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	614007	47.5905	47.590	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	1864050			0.00- 30.00	303.59
11.749	11.749 (1.304)	85	209155			0.00- 30.00	34.06

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	2049019	53.5233	53.523	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1206410			27.88- 87.88	58.88
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	950283	58.1125	58.112	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	303525			1.95- 61.95	31.94
12.606	12.606 (0.877)	39	727280			48.68- 108.68	76.53
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	629656	55.9356	55.936	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	389392			30.92- 90.92	61.84
12.910	12.910 (0.898)	83	545844			57.17- 117.17	86.69
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.966 (0.900)	166	859413	59.6006	59.600	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	632581			41.65- 101.65	73.61
12.938	12.938 (0.900)	131	629187			39.12- 99.12	73.21
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	722949	46.5941	46.594	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1633004			195.56- 255.56	225.88
13.353	13.353 (0.929)	100	113546			0.00- 30.00	15.71
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1005582	63.7452	63.745	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	775398			0.00- 30.00	77.11
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	990837	54.0397	54.040	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	936672			63.87- 123.87	94.53
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1600388	57.3577	57.358	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	487007			0.65- 60.65	30.43
14.403	14.403 (1.002)	77	1018201			34.71- 94.71	63.62
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	778221	53.7504	53.750	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	2631489			0.00- 30.00	338.14
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	973036	51.9482	51.948	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2133313			0.00- 30.00	219.24
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	992894	54.9719	54.972	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	2277098			199.75- 259.75	229.34
134 Styrene					CAS #: 100-42-5		
15.343	15.344 (1.067)	104	1307885	47.8985	47.898	80.00- 120.00	100.00
15.316	15.344 (1.065)	78	769438			26.30- 86.30	58.83
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	942323	66.6056	66.606	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	492001			21.83- 81.83	52.21
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1434598	55.6332	55.633	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	923980			35.44- 95.44	64.41
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.450 (1.144)	105	3056395	58.4463	58.446	80.00- 120.00	100.00
16.449	16.450 (1.144)	120	861633			0.00- 57.61	28.19
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	2426844	52.2385	52.238	80.00- 120.00	100.00
16.532	16.560 (1.150)	120	1142394			0.00- 30.00	47.07
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	2698472	55.9420	55.942	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1157512			13.30- 73.30	42.90
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1565631	59.2060	59.206	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	985781			0.00- 30.00	62.96
17.279	17.279 (1.202)	111	730305			0.00- 30.00	46.65
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.390 (1.210)	146	2024167	58.9003	58.900	80.00- 120.00	100.00
17.389	17.390 (1.210)	148	1277837			0.00- 30.00	63.13
17.389	17.390 (1.210)	111	866694			0.00- 30.00	42.82
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	2151084	58.8505	58.850	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	377659			0.00- 30.00	17.56
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1691438	58.9372	58.937	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1053032			32.31- 92.31	62.26
17.749	17.749 (1.235)	111	807812			18.89- 78.89	47.76

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.132 (1.331)	180	1714496	61.5076	61.508	80.00- 120.00	100.00
19.131	19.132 (1.331)	182	1667295			66.62- 126.62	97.25
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1167980	65.9657	65.966	80.00- 120.00	100.00(R)
19.214	19.214 (1.337)	223	743338			35.19- 95.19	63.64
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	3741866	60.2291	60.229	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	834545			0.00- 30.00	22.30
16.311	16.311 (1.135)	105	133798			0.00- 30.00	3.58
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3034053	58.2084	58.208	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	806891			0.00- 30.00	26.59
15.786	15.786 (1.098)	51	450982			0.00- 30.00	14.86
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	2753379	47.8137	47.814	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	345650			0.00- 30.00	12.55
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.754 (0.663)	59	1104550	54.0742	54.074	80.00- 120.00	100.00
4.726	4.754 (0.663)	41	348048			0.00- 30.00	31.51
4.726	4.754 (0.663)	57	116843			0.00- 30.00	10.58
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	218010	57.2038	57.204	80.00- 120.00	100.00
2.238	2.238 (0.314)	43	1809929			0.00- 30.00	830.20
15 Isopentane					CAS #: 78-78-4		
2.818	2.846 (0.395)	43	1418665	59.4027	59.403	80.00- 120.00	100.00
2.818	2.846 (0.395)	57	863428			0.00- 30.00	60.86
2.818	2.846 (0.395)	72	82480			0.00- 30.00	5.81
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.648 (1.349)	83	1224335	47.4042	47.404	80.00- 120.00	100.00
9.620	9.648 (1.349)	98	554094			0.00- 30.00	45.26
9.620	9.620 (1.349)	55	1302480			0.00- 30.00	106.38

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8061203.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd8.i/8-12jun.b/t14q604a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 12-JUN-2008
Calibration Time: 07:35
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	273341	164005	382677	216919	-20.64
88 1,4-Difluorobenze	1026488	615893	1437083	837073	-18.45
125 Chlorobenzene-d5	781025	468615	1093435	626052	-19.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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.

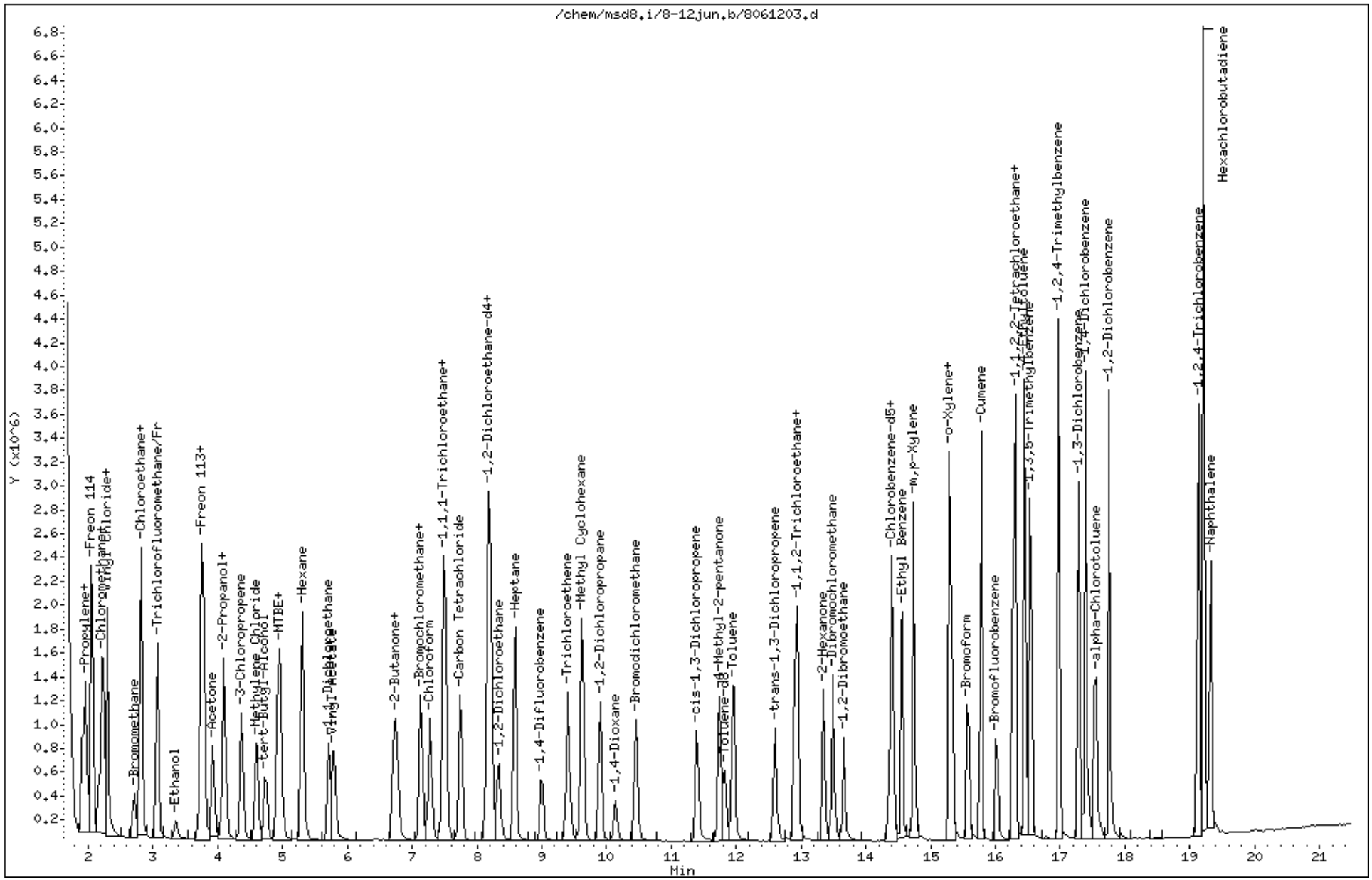
0173

Data File: /chem/msd8.i/8-12jun.b/8061203.d
Date : 12-JUN-2008 08:03
Client ID: LCS-1
Sample Info: 100mL #1576-336A

Instrument: msd8.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



0174

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	22.75
75	30.0 – 60.0% of mass 95	53.22
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.35
173	Less than 2.0% of mass 174	(1.37)[1]
174	50.0 – 100% of mass 95	71.97
175	5.0 – 9.0% of mass 174	(7.59)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.05)[1]
177	5.0 – 9.0% of mass 176	(6.25)[2]

[1] - value in parenthesis is % mass 174 [2] - value in parenthesis is % mass 176

BFB Injection Date: 6/12/08
BFB Injection Time: 0718
BFB File ID: 80612Q1
Tekmar Purge Flow: —
Vacuum: 1.0x10-5

IS/S Std.#:	1612-218	Exp. Date: 8/28/08
BCM	273341	
1,4-DFB	1026488	
CB-d5	781025	

Verified CCV IS vs ICAL mid-point (- 40%D) SS (initials)

Verify 176/174 m/z Ratio: (757952 / 780992) x100 = 97.049

NOAH Cart #: 14/15 **File #:** 80612Q6 / 80612Q7

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(\ 931519\ )}{(\ 1026488\ )} \times \frac{(\ 25.000\ )}{(\ 0.956639\ )}$ = 23.6412

File ID:	80612Q2
Compound:	Toluene-d8
Initials:	SS

Reported Result 23.641

Method: tl4q60q1a.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	80612Q1	BFB Tune Check	1476239	50psig	20ml	1.00	SS	6/12/08	0718	SS	
2	✓	02	VOA-25 200ppbv	CCV-1	50psig	50ml				0735	SS	
3	✓	03	1576-336A 100ppbv	ICS-1	50psig	100ml				0805	SS	
4		04	1547-193 200ppbv	TVH Cal	100psig	100ml				0848	SS	
5	X	05	Lab Blank	1363	Humid	200ml				0940	SS	Can#5/Lg#6
6	✓	06	Lab Blank	1373	Humid	200ml				1044	SS	Can#14/Lg#9
7	✓	07	Can#11/Lg#3	↓	↓	↓				1137	SS	

Signature

6/12/08
Date

8	X	8061208	0806077A - 02A	36413	4.5"Hg-15psi	20ml	23.8	SS	6/12/08	1257	SS	
9	X	09	↓ 02AA	↓	↓	↓	↓	↓	↓	1332	SS	Vac.
10	✓	10	0806077A - 02A	36413	4.5"Hg-15psi 5.5"Hg-15psi	20ml	23.0	SS		1422	SS	
11	✓	11	↓ 02AB	↓	↓	↓	23.0	SS		1511	SS	
12	✓	12	0806146A - 09A	36395	2.0"Hg-15psi	200ml	2.61	KR		1559	KR	
13	✓	13	- 10A	12030	5.5"Hg	1mL	4.94			1635	KR	
14	✓	14	- 11A	34497	5.0"Hg	200ml	2.61			1801	KR	
15	✓	15	0806065 - 01A	35251	1.5"Hg-5psi	45ml	6.27			1837	/SS	
16	✓	16	-02A	33577	2.5"Hg	200ml	1.46			1919	/SS	
17	✓	17	-03A	35275	2.0"Hg	80ml	3.60			1957	/SS	
18	✓	18	0806106A - 01A	8417	6.0"Hg	200ml	1.39	↓		2034	/SS	
19	✓	19	0806136 - 01AA	33542	4.0"Hg-5psi	200mL	1.55	DM		2154	CB	
20	✓	20	-01A	↓	↓ -		1.55			2236	CB	
21	✓	21	-02A	9403	9.0"Hg-		1.47		↓	2318	CB	DF=1.91
22	✓	22	0806100 - 01A	9939	21.0"Hg-		1.45		6/13/08	0001	CB	DF=4.47
23	✓	23	-02A	34434	7.0"Hg-		1.75			0043	CB	
24	✓	24	0806135 - 01A	414	7.5"Hg-		1.79			0125	CB	
25	✓	25	-02A	4354	↓ -	↓	↓			0208	CB	
26	X	26	0806182A - 01A	34008	2.0"Hg-	30mL	9.60			0243	CB	RR 150mL
27	X	27	-02A	34423	6.5"Hg-	0.2mL	17.10	↓		0318	CB	RR 1.5mL
28	✓	28	-01A	34008	2.0"Hg-	150mL	1.92	CB		0447	CB	
29	X	29	-02A	34423	6.5"Hg-	1.5mL	2.28	↓		0525	CB	
30	✓	30	-02A	↓	↓ -	0.5mL	6.84	↓	↓	0607		
31											SS 6/13/08	

Comments:

Signature

6/12/08
Date

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-04jun.b/8060405.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 04-JUN-2008 11:07
Operator : srs Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-04jun.b/bfb30.m
Meth Date : 04-Jun-2008 10:55 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	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.582	3.748	-0.166	95	1787404			100.00- 100.00	100.00
3.582	3.748	-0.166	50	432273			15.00- 40.00	24.18
3.582	3.748	-0.166	75	878176			30.00- 60.00	49.13
3.582	3.748	-0.166	96	107443			5.00- 9.00	6.01
3.582	3.748	-0.166	173	184			0.00- 2.00	0.02
3.582	3.748	-0.166	174	1197559			50.00- 100.00	67.00
3.582	3.748	-0.166	175	89188			5.00- 9.00	7.45
3.582	3.748	-0.166	176	1151075			95.00- 101.00	96.12
3.582	3.748	-0.166	177	72861			5.00- 9.00	6.33

Data File: /var/chem/msd8.i/8-04jun.b/8060405.d

Date : 04-JUN-2008 11:07

Client ID: BFB

Instrument: msd8.i

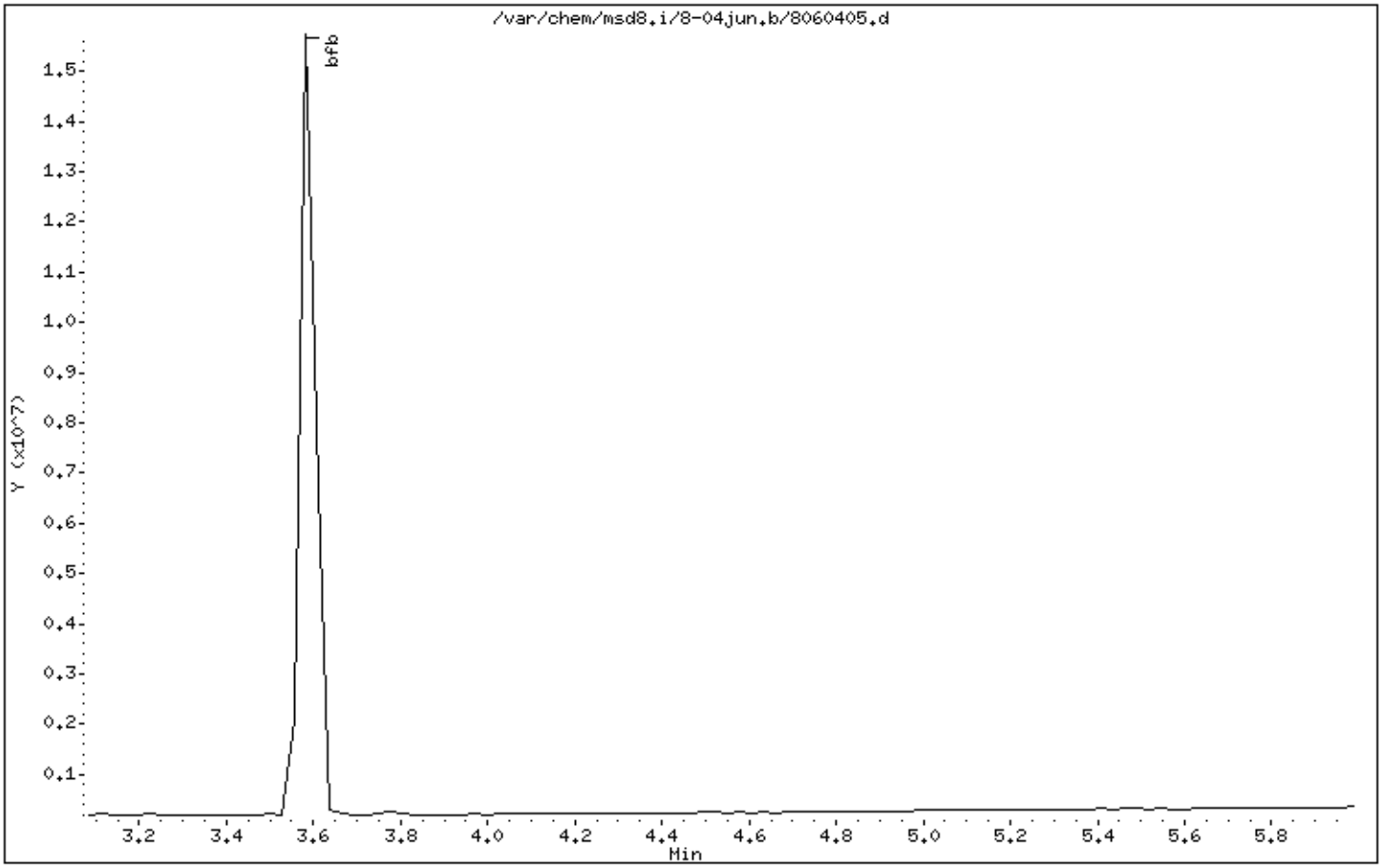
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-04jun.b/8060405.d

Date : 04-JUN-2008 11:07

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

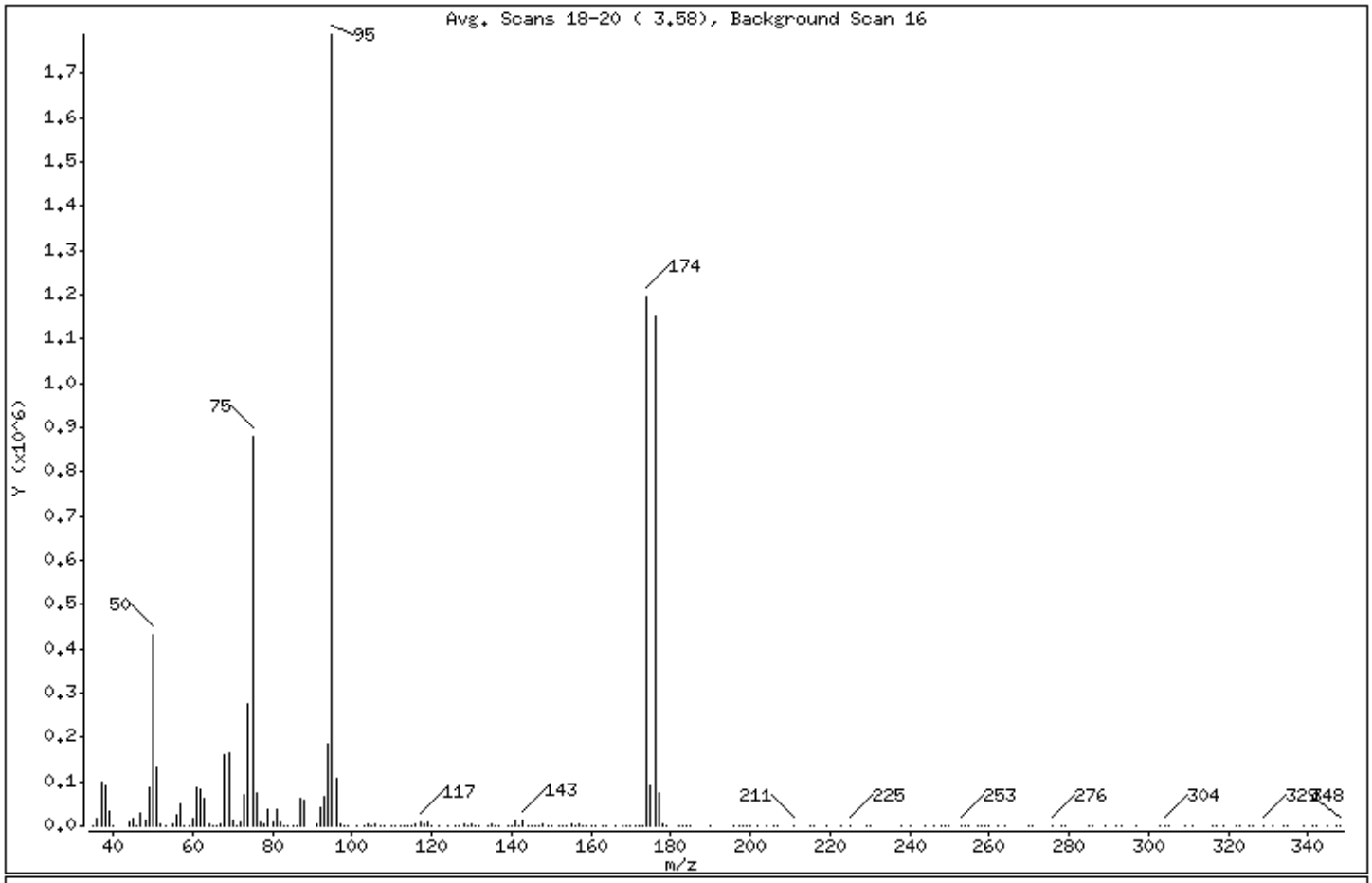
Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.18
75	30.00 - 60.00% of mass 95	49.13
96	5.00 - 9.00% of mass 95	6.01
173	Less than 2.00% of mass 174	0.01 (0.02)
174	50.00 - 100.00% of mass 95	67.00
175	5.00 - 9.00% of mass 174	4.99 (7.45)
176	95.00 - 101.00% of mass 174	64.40 (96.12)
177	5.00 - 9.00% of mass 176	4.08 (6.33)

Data File: /var/chem/msd8.i/8-04jun.b/8060405.d

Date : 04-JUN-2008 11:07

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53

Data File: 8060405.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	279	91.00	4083	149.00	916	240.00	247
36.00	17496	92.00	42480	150.00	877	244.00	95
37.00	99912	93.00	64656	152.00	334	246.00	176
38.00	89640	94.00	186816	153.00	690	248.00	3
39.00	34072	95.00	1787392	154.00	499	249.00	174
40.00	353	96.00	107440	155.00	2758	250.00	39
44.00	7277	97.00	2065	156.00	593	253.00	361
45.00	17112	98.00	164	157.00	2214	254.00	131
46.00	1023	99.00	158	158.00	250	255.00	168
47.00	27736	101.00	339	159.00	1466	257.00	167
48.00	11219	103.00	507	160.00	159	258.00	94
49.00	86536	104.00	5191	161.00	1292	259.00	86
50.00	432256	105.00	1908	163.00	249	260.00	27
51.00	130688	106.00	3930	164.00	546	262.00	86
52.00	4698	107.00	1450	166.00	573	264.00	129
53.00	203	108.00	155	168.00	347	270.00	57
55.00	5032	110.00	620	169.00	192	271.00	323
56.00	26592	111.00	750	170.00	643	276.00	329
57.00	50752	112.00	722	171.00	452	278.00	293
58.00	1600	113.00	315	172.00	699	279.00	71
59.00	305	114.00	300	173.00	184	285.00	116
60.00	16576	115.00	1147	174.00	1197056	286.00	109
61.00	85256	116.00	4168	175.00	89184	289.00	87
62.00	82528	117.00	7439	176.00	1150976	292.00	54
63.00	62192	118.00	4440	177.00	72856	293.00	85
64.00	5350	119.00	6194	178.00	2373	297.00	155
65.00	164	120.00	405	179.00	4	303.00	68
66.00	354	122.00	188	182.00	29	304.00	262
67.00	3708	124.00	768	183.00	15	305.00	76
68.00	162048	126.00	542	184.00	248	309.00	192
69.00	164096	127.00	91	185.00	63	311.00	126
70.00	12679	128.00	3872	190.00	157	316.00	70
71.00	54	129.00	1926	196.00	369	317.00	75
72.00	7356	130.00	3642	197.00	53	319.00	141
73.00	68496	131.00	1509	198.00	77	322.00	294

Date : 04-JUN-2008 11:07

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8060405.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	275712	132.00	18	199.00	316	323.00	175
75.00	878144	134.00	119	200.00	218	325.00	293
76.00	74512	135.00	2058	202.00	290	326.00	104
77.00	7874	136.00	341	204.00	233	329.00	350
78.00	5197	137.00	1875	206.00	30	331.00	23
79.00	35112	139.00	315	207.00	251	334.00	296
80.00	9255	140.00	611	211.00	379	335.00	54
81.00	35656	141.00	12371	215.00	188	339.00	143
82.00	7229	142.00	1475	216.00	264	341.00	18
83.00	702	143.00	12559	219.00	31	342.00	114
84.00	15	144.00	723	223.00	267	345.00	89
85.00	110	145.00	987	225.00	352	347.00	70
86.00	1577	146.00	1569	229.00	74	348.00	83
87.00	60312	147.00	541	230.00	193		
88.00	58704	148.00	2760	238.00	178		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-12jun.b/8061201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 12-JUN-2008 07:18
Operator : srs Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-12jun.b/bfb30.m
Meth Date : 12-Jun-2008 07:06 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	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.582	3.748	-0.166	95	1085163			100.00- 100.00	100.00
3.582	3.748	-0.166	50	301161			15.00- 40.00	27.75
3.582	3.748	-0.166	75	577549			30.00- 60.00	53.22
3.582	3.748	-0.166	96	68858			5.00- 9.00	6.35
3.582	3.748	-0.166	173	10683			0.00- 2.00	1.37
3.582	3.748	-0.166	174	780994			50.00- 100.00	71.97
3.582	3.748	-0.166	175	58669			5.00- 9.00	7.51
3.582	3.748	-0.166	176	757966			95.00- 101.00	97.05
3.582	3.748	-0.166	177	47364			5.00- 9.00	6.25

Data File: /var/chem/msd8.i/8-12jun.b/8061201.d

Date : 12-JUN-2008 07:18

Client ID: BFB

Instrument: msd8.i

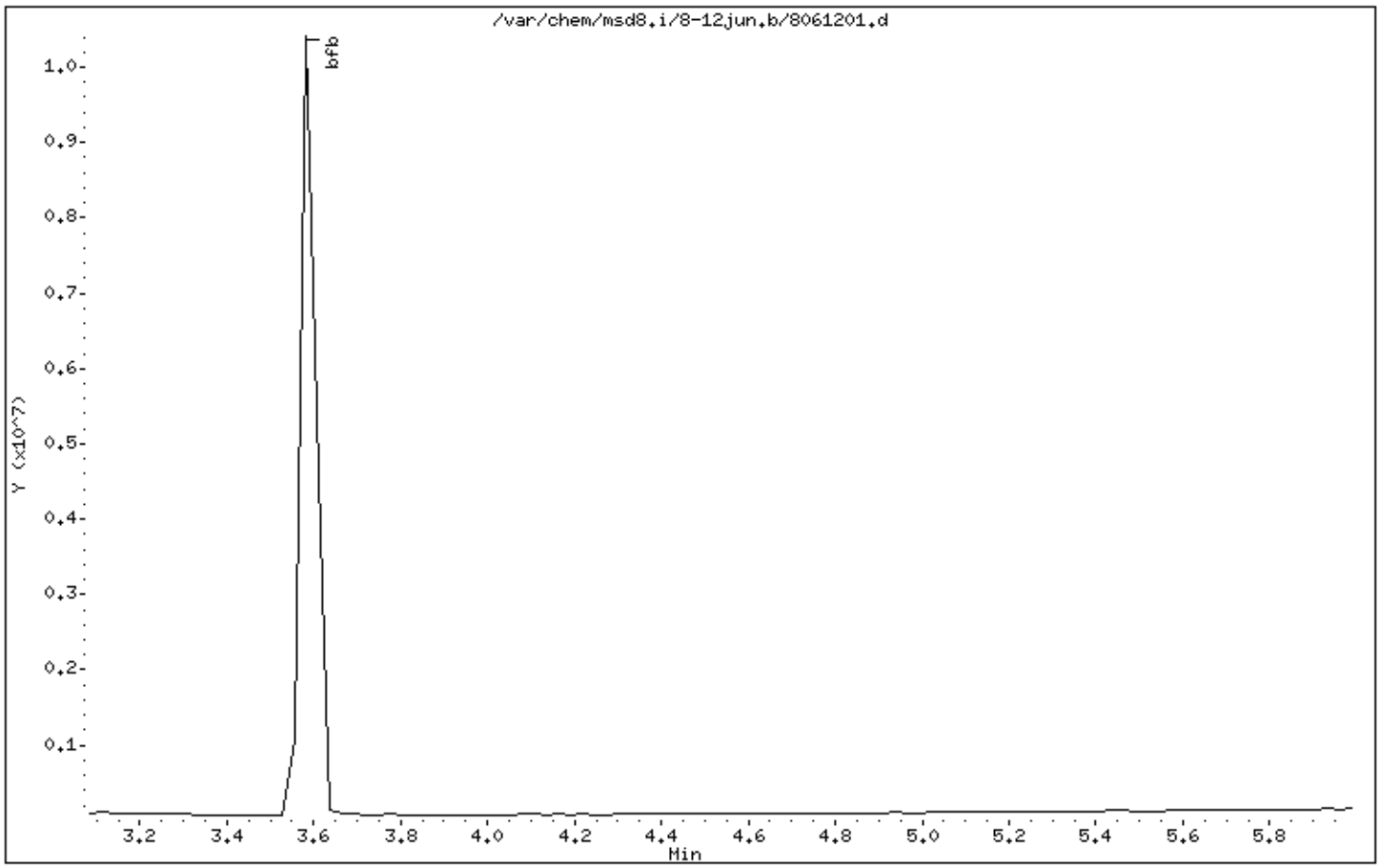
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-12jun.b/8061201.d

Date : 12-JUN-2008 07:18

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

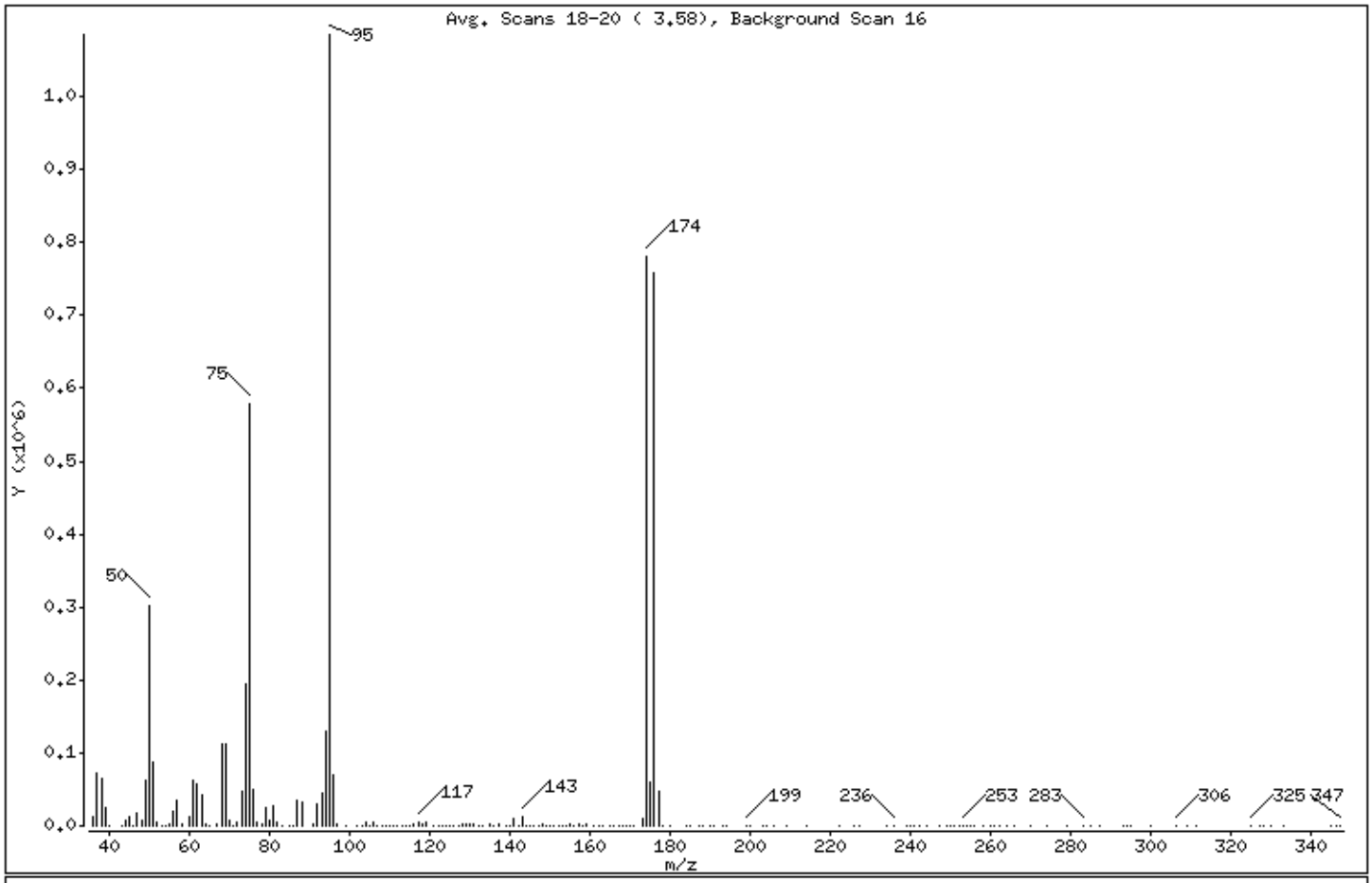
Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.75
75	30.00 - 60.00% of mass 95	53.22
96	5.00 - 9.00% of mass 95	6.35
173	Less than 2.00% of mass 174	0.98 (1.37)
174	50.00 - 100.00% of mass 95	71.97
175	5.00 - 9.00% of mass 174	5.41 (7.51)
176	95.00 - 101.00% of mass 174	69.85 (97.05)
177	5.00 - 9.00% of mass 176	4.36 (6.25)

Date : 12-JUN-2008 07:18

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8061201.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12259	91.00	2978	145.00	886	226.00	70
37.00	72720	92.00	29624	146.00	1171	227.00	74
38.00	65408	93.00	43920	147.00	822	234.00	156
39.00	24032	94.00	129664	148.00	2163	236.00	303
40.00	1010	95.00	1084928	149.00	782	239.00	70
43.00	241	96.00	68856	150.00	1211	240.00	82
44.00	6500	97.00	1498	151.00	217	241.00	70
45.00	11700	99.00	105	152.00	498	242.00	66
46.00	1173	102.00	73	153.00	945	244.00	146
47.00	17432	103.00	358	154.00	602	247.00	164
48.00	8319	104.00	4144	155.00	2471	249.00	91
49.00	63472	105.00	1177	156.00	414	250.00	205
50.00	301120	106.00	3753	157.00	1321	251.00	76
51.00	87952	107.00	1048	158.00	312	252.00	174
52.00	3849	108.00	189	159.00	1375	253.00	300
53.00	545	109.00	32	161.00	1027	254.00	195
54.00	352	110.00	810	162.00	95	255.00	36
55.00	3194	111.00	882	163.00	24	256.00	83
56.00	20032	112.00	863	165.00	366	258.00	76
57.00	35744	113.00	716	166.00	237	260.00	72
58.00	1340	114.00	258	167.00	83	261.00	257
60.00	11421	115.00	1205	168.00	279	262.00	175
61.00	61264	116.00	3716	169.00	541	264.00	108
62.00	56912	117.00	5783	170.00	878	266.00	75
63.00	42992	118.00	3641	171.00	708	270.00	61
64.00	3343	119.00	4674	173.00	10683	274.00	66
65.00	733	121.00	88	174.00	780992	279.00	71
67.00	2465	122.00	384	175.00	58664	283.00	163
68.00	111568	123.00	427	176.00	757952	285.00	69
69.00	111176	124.00	373	177.00	47360	287.00	71
70.00	7990	125.00	160	178.00	1232	293.00	87
71.00	113	126.00	530	180.00	96	294.00	94
72.00	5568	127.00	188	184.00	172	295.00	77
73.00	48216	128.00	2913	185.00	68	300.00	72
74.00	193856	129.00	1618	187.00	77	306.00	186

Date : 12-JUN-2008 07:18

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8061201.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 189

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	577536	130.00	3582	188.00	82	309.00	93
76.00	50320	131.00	1400	190.00	82	311.00	86
77.00	4606	132.00	143	191.00	188	325.00	162
78.00	2888	133.00	14	193.00	24	327.00	28
79.00	26120	135.00	1671	194.00	56	328.00	77
80.00	7337	136.00	450	199.00	177	330.00	81
81.00	27024	137.00	1992	200.00	71	333.00	67
82.00	5560	139.00	320	203.00	152	345.00	49
83.00	426	140.00	990	204.00	128	346.00	140
85.00	295	141.00	10834	206.00	111	347.00	67
86.00	1074	142.00	1059	209.00	40		
87.00	33720	143.00	11259	214.00	79		
88.00	33072	144.00	444	222.00	165		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0806100
# of pages (Including Cover): 1

6/23/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancy has been observed:

Sample DW AMS 3 was received at 21.0" Hg. This high vacuum will result in a higher dilution factor. ATL will proceed with the analysis unless otherwise notified.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

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

0188

Contact	
Company	GEI Consultants, Inc.
Address	455 Winding Brook Glastonbury CT 06033
Phone	860-368-5300 Cell:
Collected By: Signature:	

Project Info:

P.O. #

Project # 061140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

☒ Normal

☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AW AMS 3	06/04/08 600/1400	TO-15 + Naphthalene	-30	-22	
02A	UW AMS 5	06/04/08 600/1400	TO-15 + Naphthalene	-30	-10	

Relinquished By: (Signature) Date/Time: 06/04/08 1430

Received By: (Signature) Date/Time: 6/5/08 1000

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Notes: used flow controllers included
Initial and final can pressures in inches Hg\
Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		MW	NA	good	Yes No (None)	0806100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0806100

Client

Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 06/19/08
Date Completed: 6/18/08
Date Received: 6/5/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 885.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS 3	Modified TO-15	6/4/2008	21.0 "Hg	$225.00
02A	UW AMS 5	Modified TO-15	6/4/2008	7.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 58429	$100.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 58429	$70.00
	Fuel Surcharge (5) @ $2.00 each.	$10.00
	6 Liter Summa Canister (3) @ $50.00 each., Shipment 58428	$150.00
	Blue Body Flow Controller (3) @ $35.00 each., Shipment 58428	$105.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Bay Shore OU1 South Perimeter Air/9699

BILL TO: Ms. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report BL

Identification

Initiated By: B. Stephens **Date:** 6/11/08

Discrepancy Type: (circle all that apply) I. (II.) III.

Workorder(s) affected: 0806100 **Sample(s) affected:** 01A

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required:

- ☐ COC improperly relinquished / received.
- ☐ Sample tags / can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply): ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☑ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

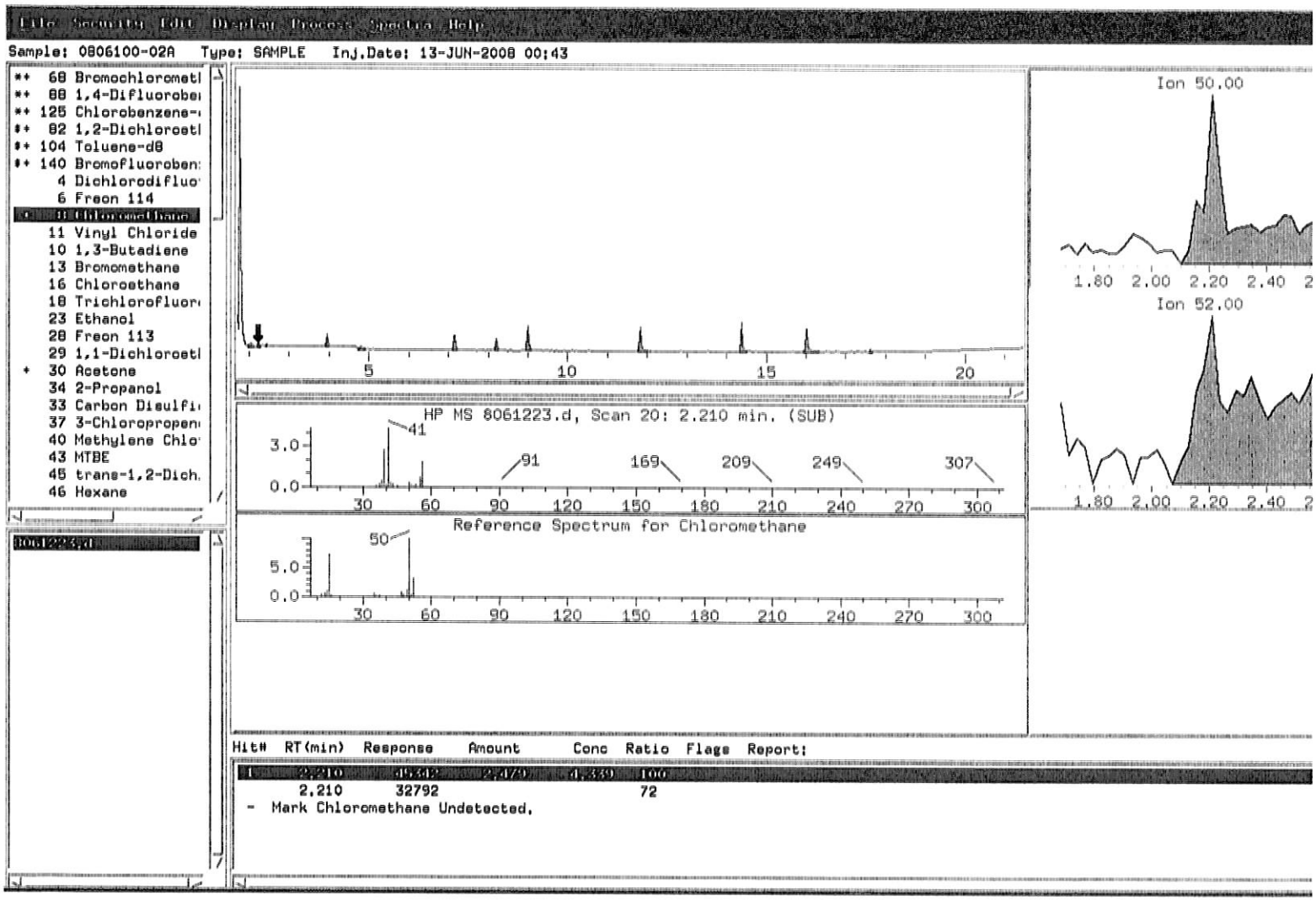
Initials: _____ **Date:** _____ ☐ **CSR Notified** (see section below)
(if not the original initiator)

Describe the Discrepancy: Receipt Vacuum 01A was 21.0"Hg

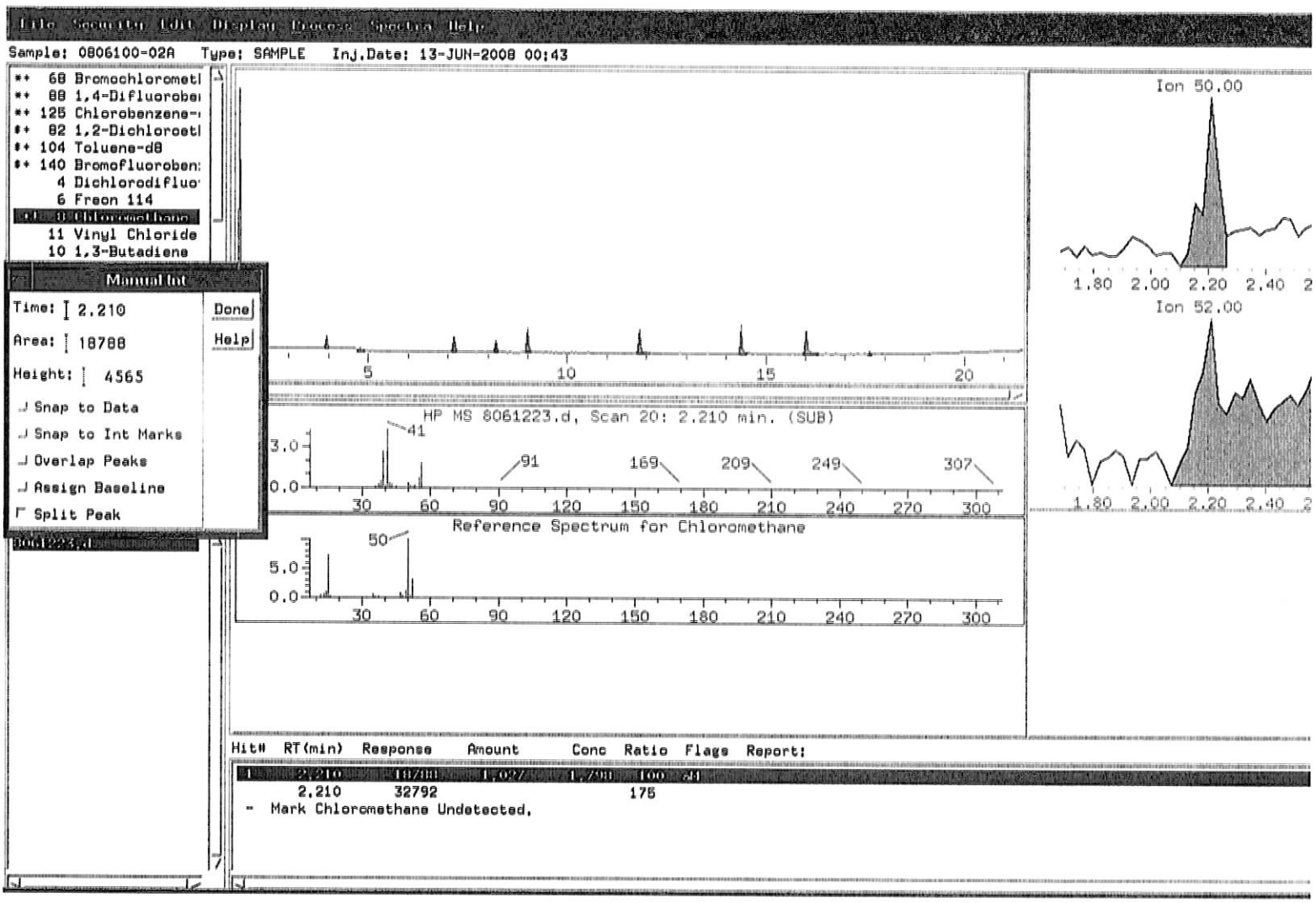
Other Records

BS 6-18-08

Before



BT 6-18-08
After
Below R.L.
Not detect



DILUTION FACTORS

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

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

Initial Vacuum ("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

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

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

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	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	
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	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
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	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0320192

L	M	Q	
☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
☐	☑	☐	The final report has the correct reporting list, special units, and header info.
☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
☑	☐	☐	Corrective Action issued - # _____
☐	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES / NO)***

☐	☑	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☑	☐	☐	Hold time is met for all samples
	☑	☐	☐	Appropriate data qualifier flags are applied
	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☑	☑	☐	Samples analyzed within the project or method specific clock
	☐	☐		Retention times have been verified
☑	☐	☐	☐	Appropriate ICAL(s) included
	☑	☐	☐	At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☐	☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☐	☐		TICs resemble reference spectra
	☐	☐		TICs between duplicate samples are consistent
N/A	☐	☐	☑	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐	Special units for all samples in the final report are correctly calculated
	☐	☐	☐	Manually entered results checked (i.e. special CCV compounds)
	☐	☐	☐	TPH/NMOC (verify calculations and correct reference compound used)
	☐			Chain of Custody scanned correctly
		☐		Verify sample id's vs. chain of custody
☑	☑			Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☐	☑			Final pressure consistent with canister size (6l vs. 1L)
☐	☑			Verify receipt pressures against logbook and Target
☐	☐			Verify canister ID #'s
	☑	☑		Extra printed copies are provided per client profile
	☐	☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: Out in CCV

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
6/13/08	R: RJA/AB/6-18-08	6/18/08	

T:_____

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Rev. 08/29/05

Not Applicable