
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 #: 0807189

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	53
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	54	61
b. Surrogate Recover Summary Form (If Applicable)	62	62
c. Internal Standard Summary Form (If Applicable)	63	63
d. Duplicate Results Summary Sheet	64	65
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	66	208
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	209	223
i. Second Source LCS(Summary + Raw Data)	224	238
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	239	240
l. GC/MS Tune (Results + Raw Data)	241	260
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	261	262
b. Chain-of-Custody Records	263	263
c. Sample Log-In Sheet	264	264
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	265	267
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	268	269
g. Variance Table	--	--
h. Canister Certification	270	277
i. Data Review Check Sheet	278	278

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/28/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0807189

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:	07/10/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/23/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS 5	Modified TO-15	8.5 "Hg	5 psi
02A	DW AMS 3	Modified TO-15	5.0 "Hg	5 psi
03A	XX AMS X	Modified TO-15	8.0 "Hg	5 psi
03AA	XX AMS X Lab Duplicate	Modified TO-15	8.0 "Hg	5 psi
04A	Trip Blank	Modified TO-15	4.6psi	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 07/23/08

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

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0807189

Three 6 Liter Summa Canister (100% Certified) and one 6 Liter Summa Canister samples were received on July 10, 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; Compounds exceeding this criterion and associated data are flagged and narrated.
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

There were no receiving discrepancies.

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
UW AMS 5	0807189-01A	7/ 9/2008	7/10/2008	NA	12	7/21/2008	NA	Good
DW AMS 3	0807189-02A	7/ 9/2008	7/10/2008	NA	12	7/21/2008	NA	Good
XX AMS X	0807189-03A	7/ 9/2008	7/10/2008	NA	13	7/22/2008	NA	Good
XX AMS X Lab Duplicate	0807189-03AA	7/ 9/2008	7/10/2008	NA	13	7/22/2008	NA	Good
Trip Blank	0807189-04A	7/ 9/2008	7/10/2008	NA	13	7/22/2008	NA	Good
Lab Blank	0807189-05A	NA	NA	NA	NA	7/21/2008	NA	Good
CCV	0807189-06A	NA	NA	NA	NA	7/21/2008	NA	Good
LCS	0807189-07A	NA	NA	NA	NA	7/21/2008	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: UW AMS 5

Lab ID#: 0807189-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	8.9	8.9	21
2-Butanone (Methyl Ethyl Ketone)	0.94	1.3	2.8	3.9

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0807189-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072117**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 7/21/08 11:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0807189-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072117**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 7/21/08 11:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	8.9	8.9	21
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	1.3	2.8	3.9
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	Not Detected	7.0	Not Detected
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072117.d
Lab Smp Id: 0807189-01A
Inj Date : 21-JUL-2008 23:04
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #34009
Misc Info : 8.5"Hg-5psi GEI
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1
Dil Factor: 1.87000
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	246581	25.0000		80.00- 120.00	100.00
7.131	7.159 (1.000)	128	184428			49.31- 109.31	74.79
7.131	7.132 (1.000)	49	548146			184.61- 244.61	222.30
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	865458	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	142780			0.00- 47.46	16.50
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	696559	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	419509			0.00- 30.00	60.23
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	476643	27.0838	27.084	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	225239			25.06- 85.06	47.26
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	723942	23.7775	23.778	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	96384			0.00- 42.67	13.31

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	476340			42.35- 102.35	65.80
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	411800	23.2826	23.282	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	565295			106.89- 166.89	137.27
16.035	16.035 (1.115)	176	400538			68.79- 128.79	97.27
30 Acetone					CAS #: 67-64-1		
3.952	3.924 (0.552)	58	51534	4.76422	8.909	80.00- 120.00	100.00
3.924	3.924 (0.548)	43	184488			0.00- 30.00	357.99
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	5617	0.70572	1.320	80.00- 120.00	100.00
6.772	6.772 (0.946)	43	32703			606.68- 666.68	582.19
6.772	6.772 (0.946)	57	2458			0.00- 30.00	43.77

Report Date: 23-Jul-2008 11:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072117.d
Lab Smp Id: 0807189-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.5"Hg-5psi GEI

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	246581	-18.20
88 1,4-Difluorobenze	1065036	639022	1491050	865458	-18.74
125 Chlorobenzene-d5	834138	500483	1167793	696559	-16.49

		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: 23-Jul-2008 11:56

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807189-01A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.5"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.084	108.34	70-130
$ 104 Toluene-d8	25.000	23.778	95.11	70-130
$ 140 Bromofluorobenzene	25.000	23.282	93.13	70-130

Data File: /chem/msd8.i/8-21jul.b/8072117.d

Page 1

Date : 21-JUL-2008 23:04

Client ID:

Instrument: msd8.i

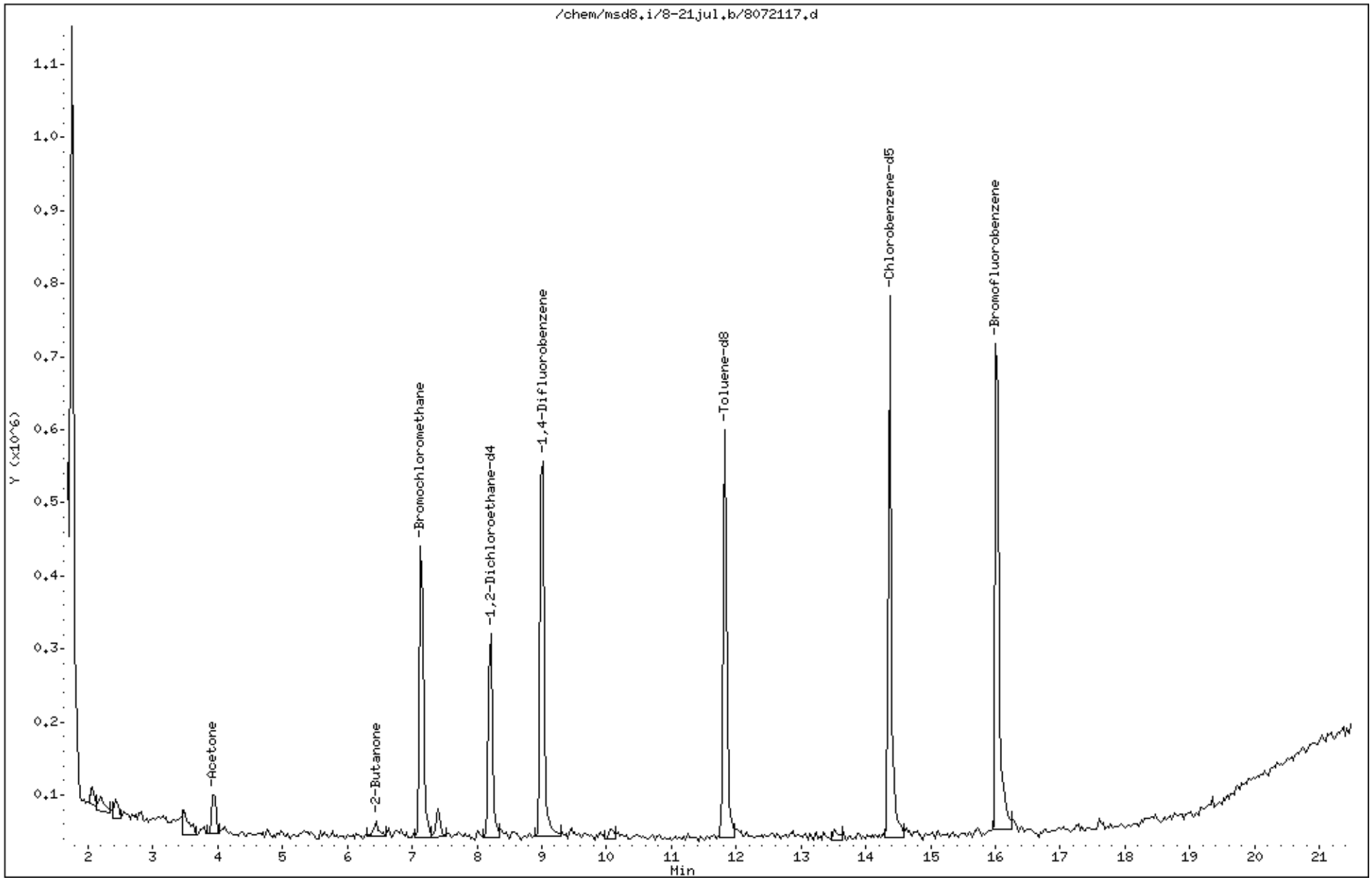
Sample Info: 200mL #34009

Operator: smd

Column phase: RTx-624

Column diameter: 0.53

0013



Data File: /chem/msd8.i/8-21jul.b/8072117.d

Date : 21-JUL-2008 23:04

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34009

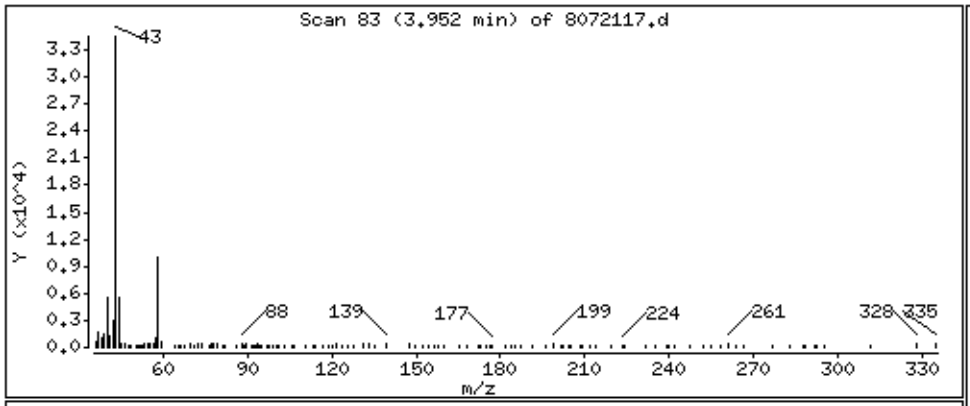
Operator: smd

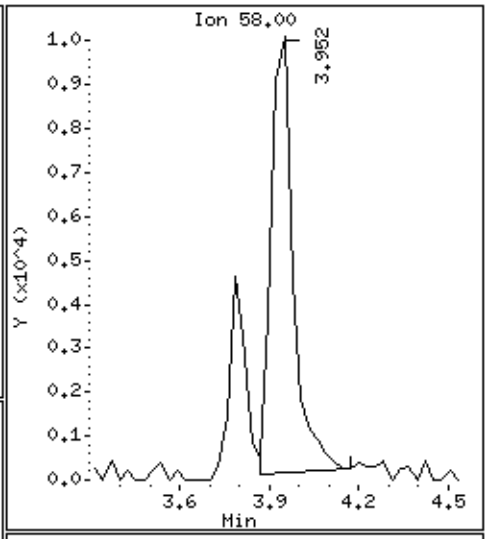
Column phase: RTx-624

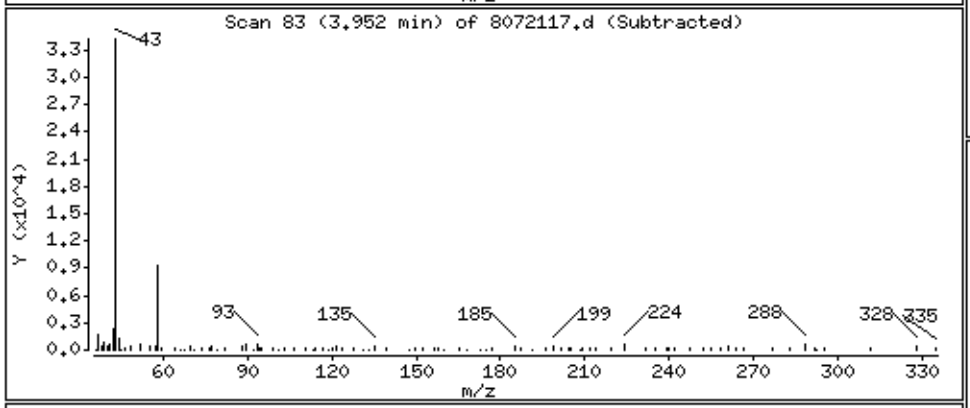
Column diameter: 0.53

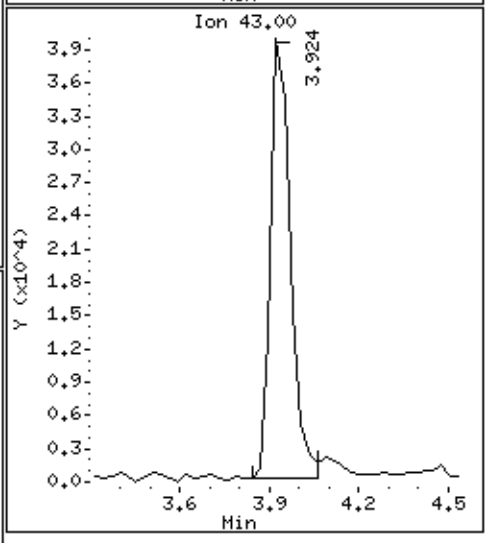
30 Acetone

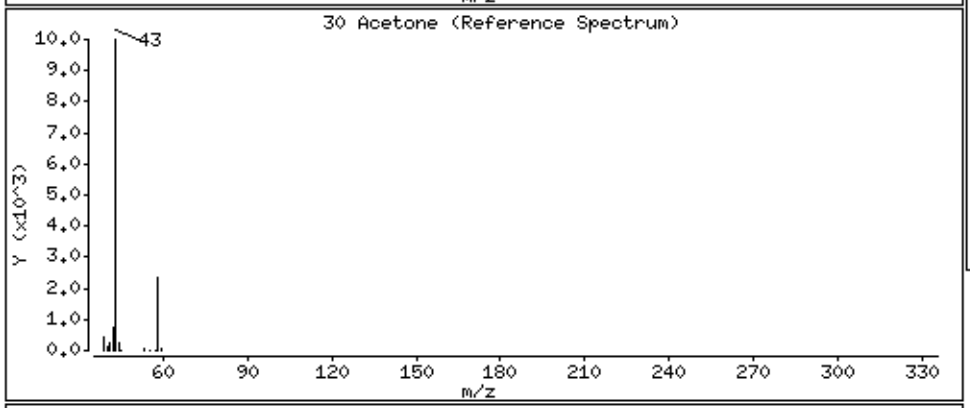
Concentration: 8.909 PPBV

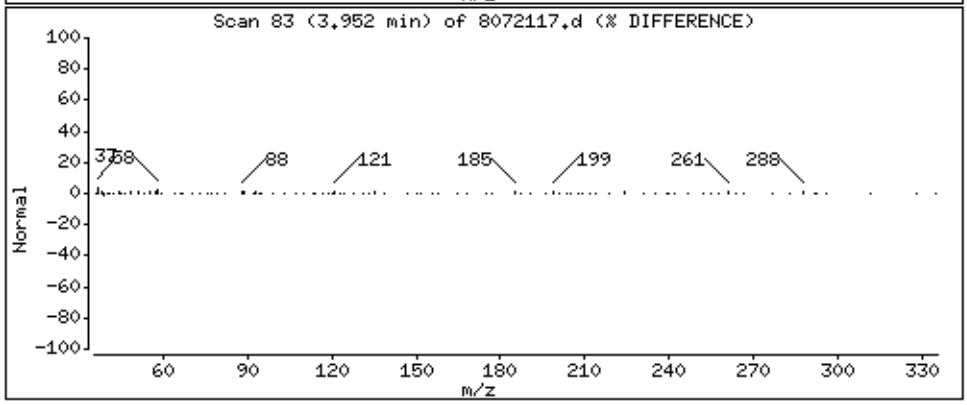












Data File: /chem/msd8.i/8-21jul.b/8072117.d

Date : 21-JUL-2008 23:04

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34009

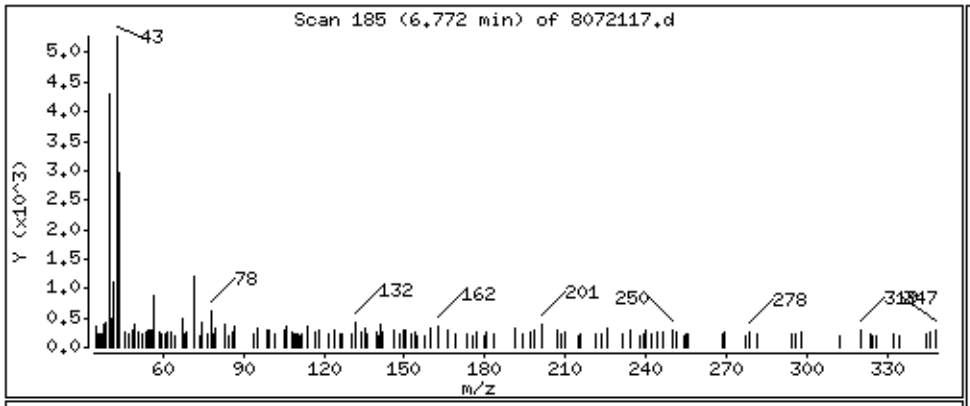
Operator: smd

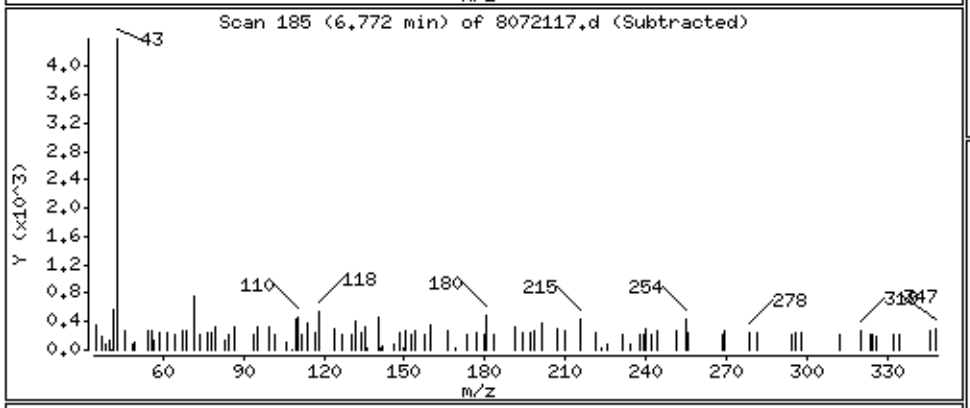
Column phase: RTx-624

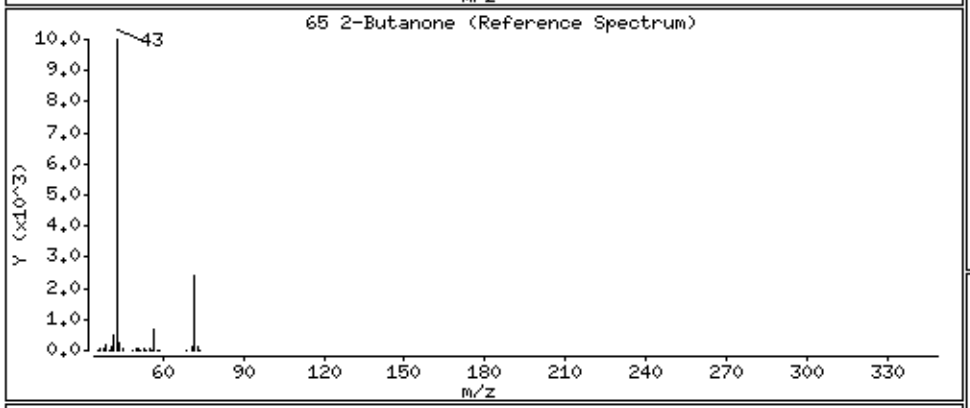
Column diameter: 0.53

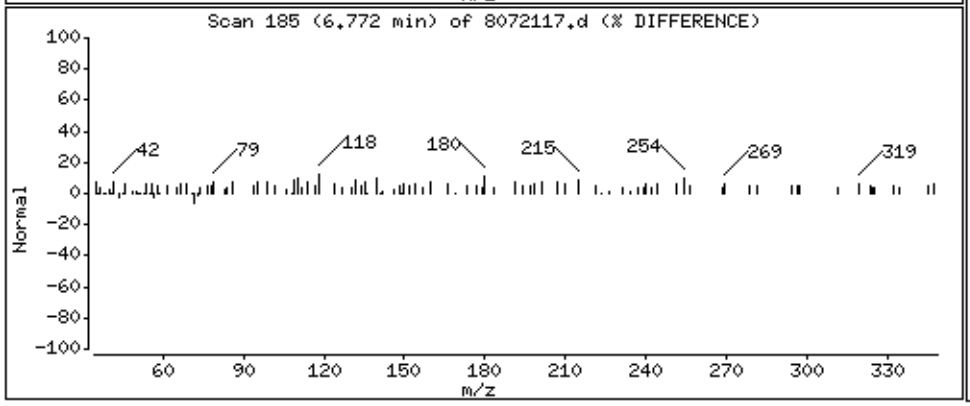
65 2-Butanone

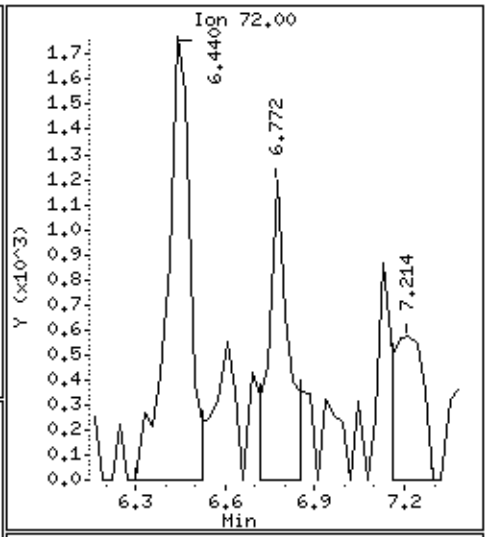
Concentration: 1.320 PPBV

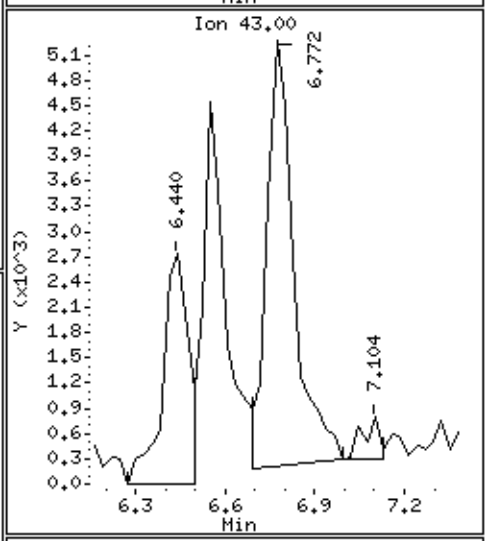


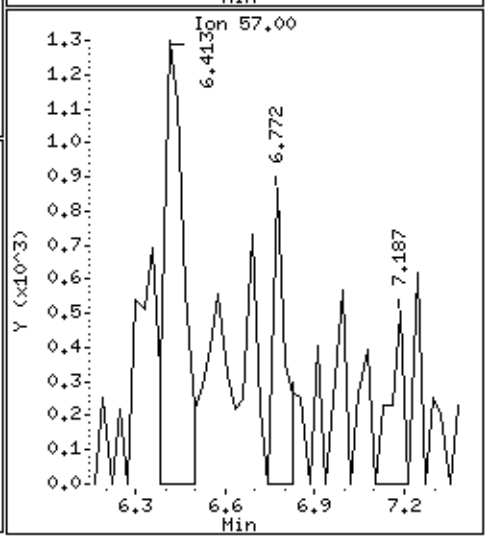












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0807189-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.80	0.96	3.0	3.6
m,p-Xylene	0.80	0.86	3.5	3.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0807189-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072118**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.61**	**Date of Analysis: 7/21/08 11:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
Benzene	0.80	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Toluene	0.80	0.96	3.0	3.6
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.2	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	0.86	3.5	3.7
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0807189-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072118**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.61**	**Date of Analysis: 7/21/08 11:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.80	Not Detected	3.3	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	3.2	Not Detected	7.6	Not Detected
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
Ethanol	3.2	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072118.d
Lab Smp Id: 0807189-02A
Inj Date : 21-JUL-2008 23:47
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #4164
Misc Info : 5.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1
Dil Factor: 1.61000
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	246562	25.0000		80.00- 120.00	100.00
7.159	7.159 (1.000)	128	189021			49.31- 109.31	76.66
7.132	7.132 (1.000)	49	547868			184.61- 244.61	222.20
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	845869	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	131800			0.00- 47.46	15.58
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	660534	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	426724			0.00- 30.00	64.60
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	475881	27.0425	27.042	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	213657			25.06- 85.06	44.90
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	737236	24.7749	24.775	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	93688			0.00- 42.67	12.71

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	472904			42.35- 102.35	64.15
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	399586	23.8242	23.824	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	535490			106.89- 166.89	134.01
16.035	16.035 (1.115)	176	377178			68.79- 128.79	94.39
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	26492	0.59953	0.9652	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	16961			28.42- 88.42	64.02
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	12172	0.53578	0.8626	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	22754			0.00- 30.00	186.93

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072118.d
Lab Smp Id: 0807189-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 5.0"Hg-5psi GEI

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	246562	-18.21
88 1,4-Difluorobenze	1065036	639022	1491050	845869	-20.58
125 Chlorobenzene-d5	834138	500483	1167793	660534	-20.81

		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: 23-Jul-2008 12:00

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807189-02A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 5.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.042	108.17	70-130
$ 104 Toluene-d8	25.000	24.775	99.10	70-130
$ 140 Bromofluorobenzene	25.000	23.824	95.30	70-130

Data File: /chem/msd8.i/8-21jul.b/8072118.d

Date : 21-JUL-2008 23:47

Client ID:

Sample Info: 200mL #4164

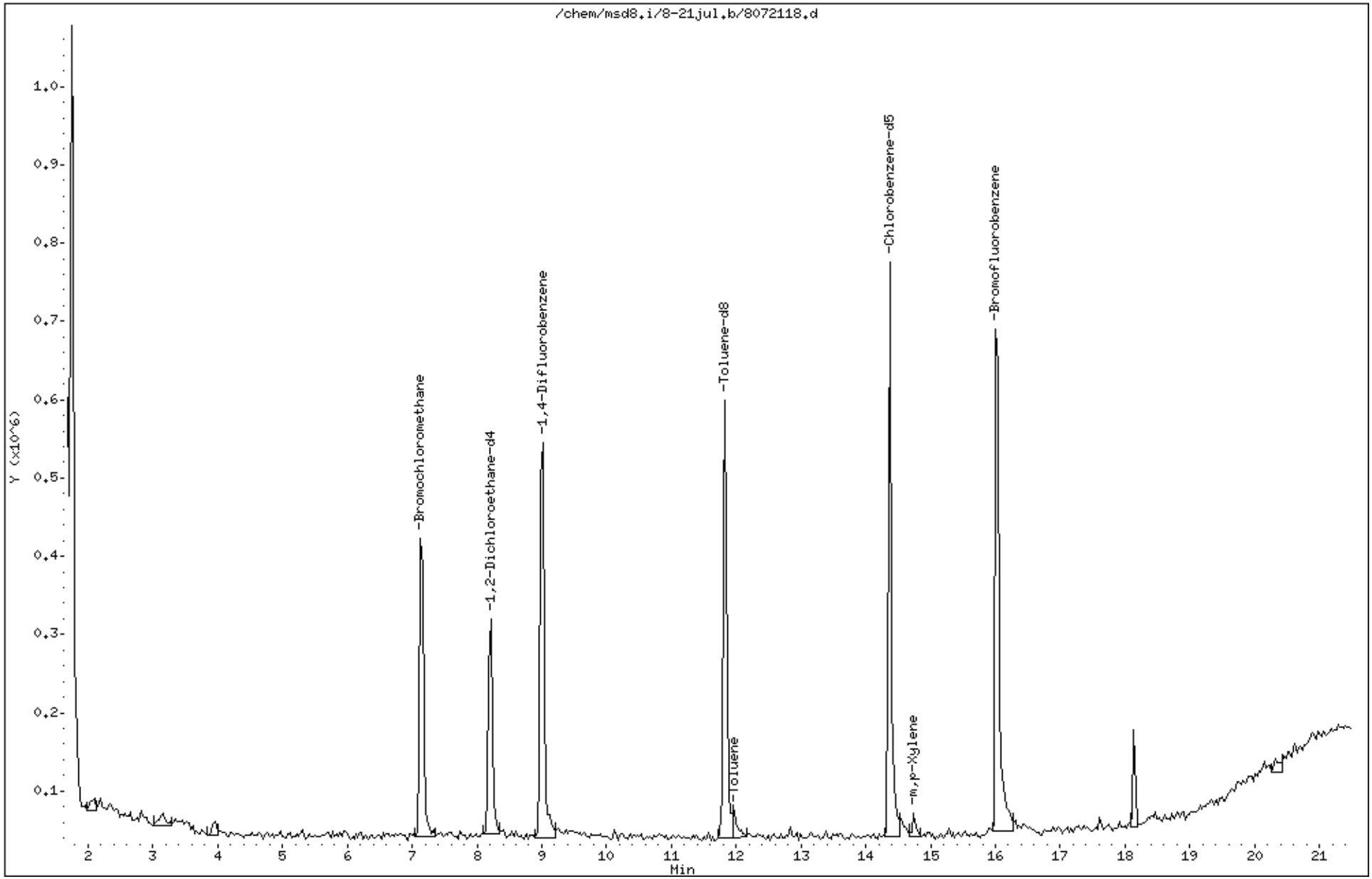
Column phase: RTx-624

Instrument: msd8.i

Operator: smd

Column diameter: 0.53

0023



Data File: /chem/msd8.i/8-21jul.b/8072118.d

Date : 21-JUL-2008 23:47

Client ID:

Instrument: msd8.i

Sample Info: 200mL #4164

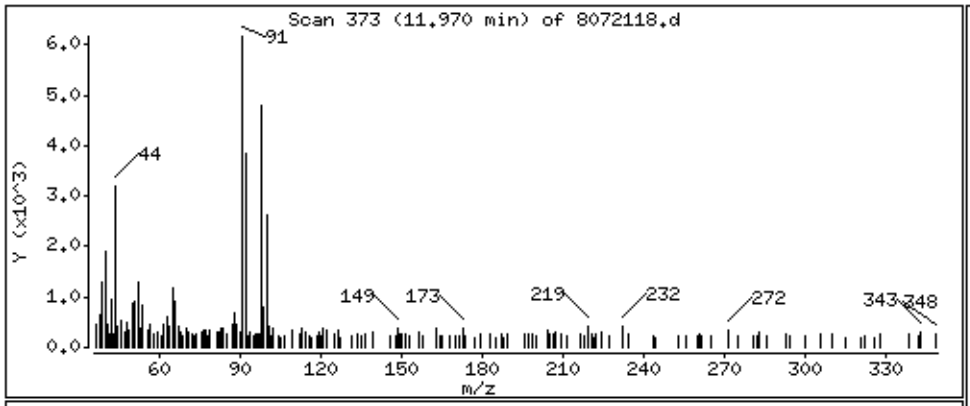
Operator: smd

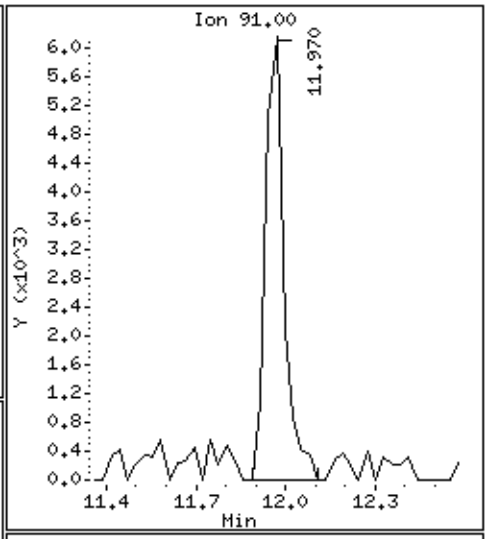
Column phase: RTx-624

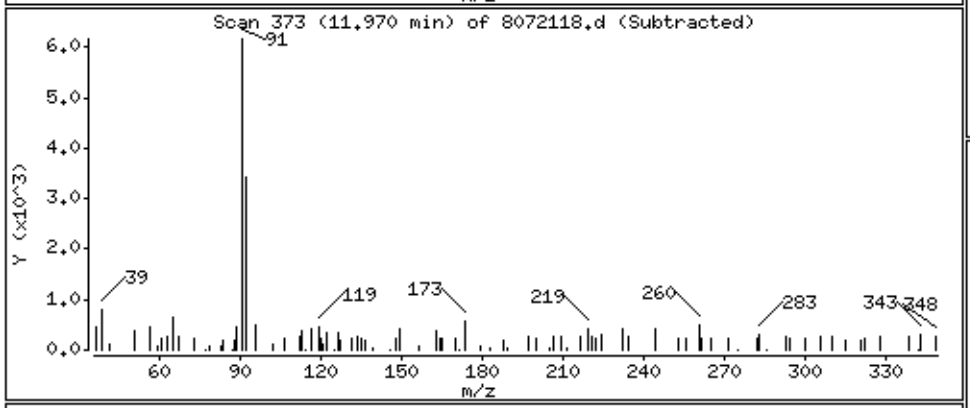
Column diameter: 0.53

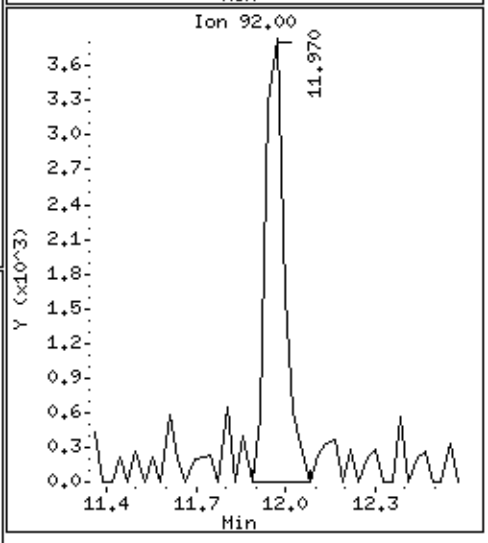
105 Toluene

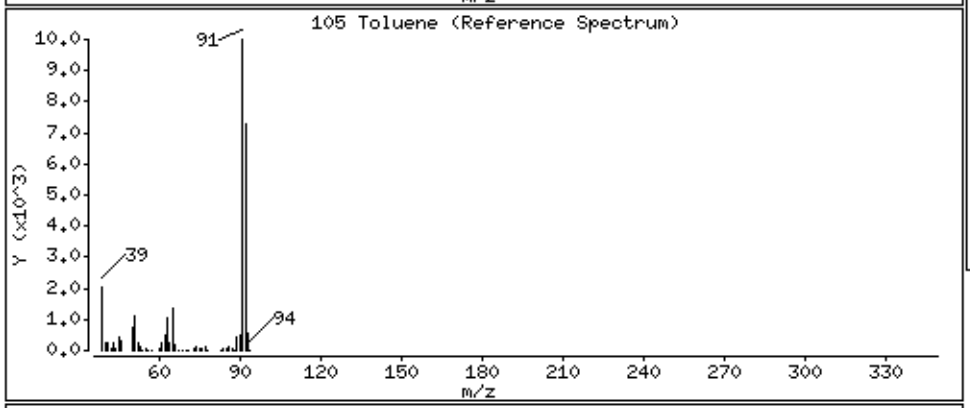
Concentration: 0.9652 PPBV

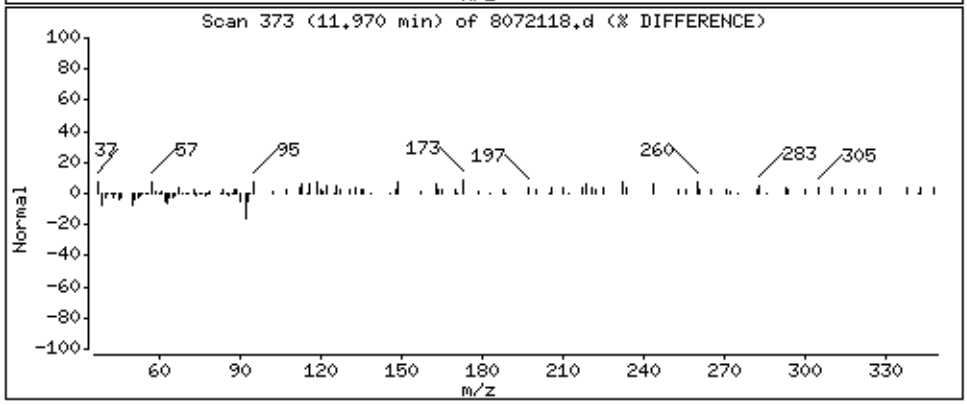












Data File: /chem/msd8.i/8-21jul.b/8072118.d

Date : 21-JUL-2008 23:47

Client ID:

Instrument: msd8.i

Sample Info: 200mL #4164

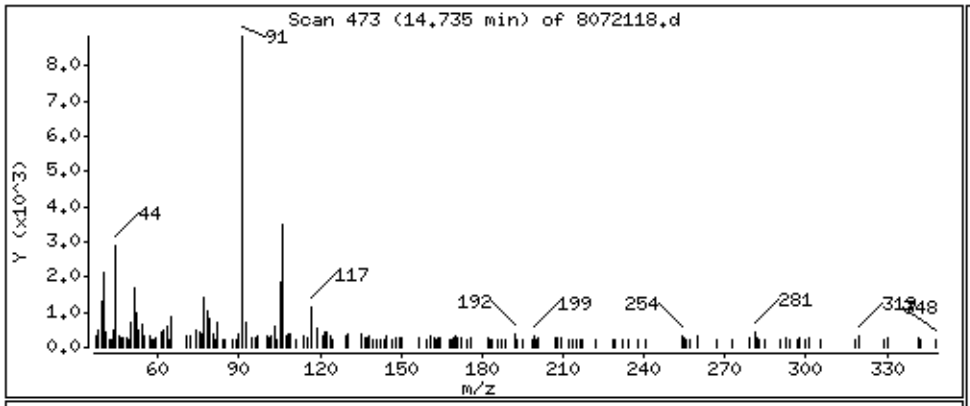
Operator: smd

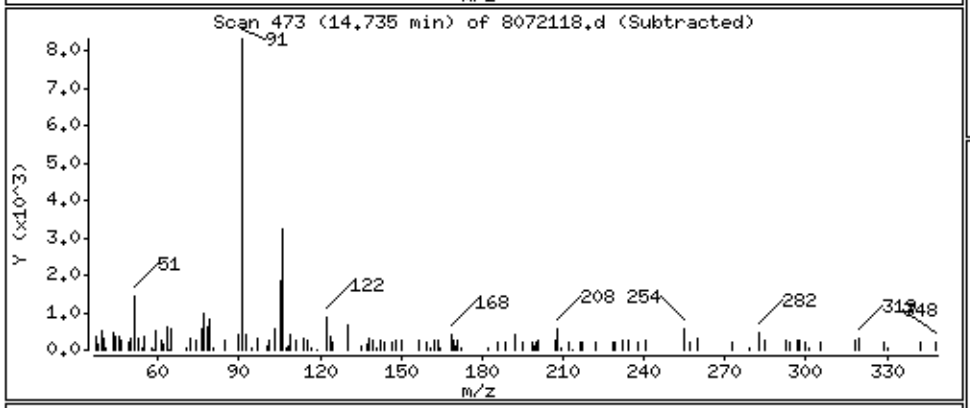
Column phase: RTx-624

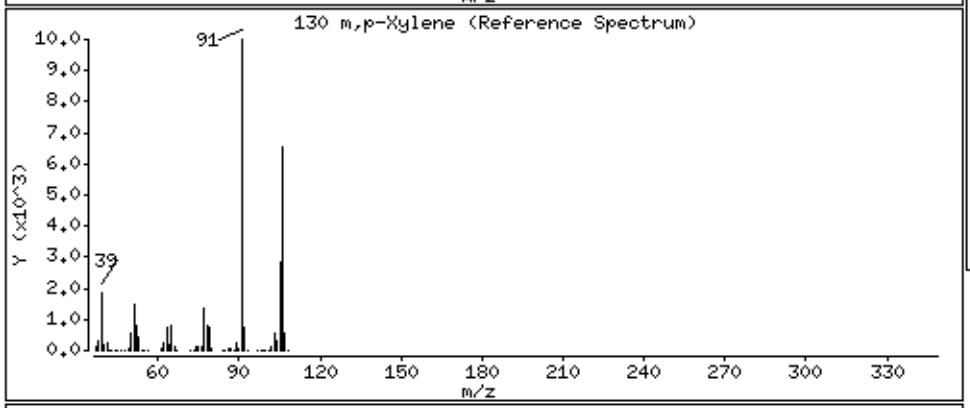
Column diameter: 0.53

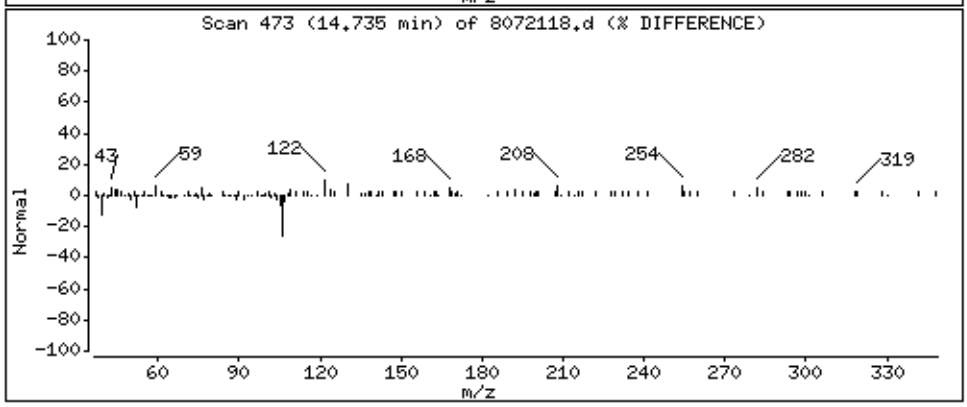
130 m,p-Xylene

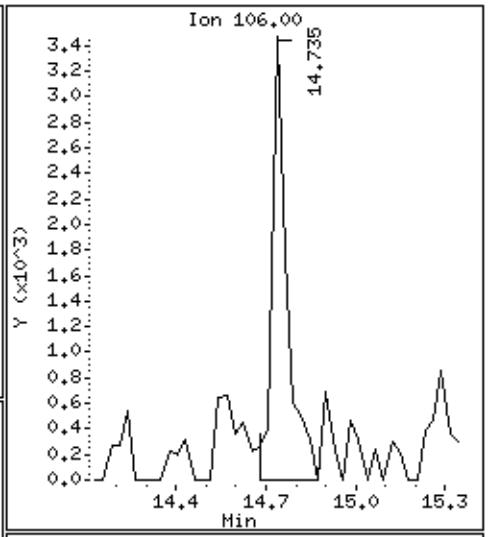
Concentration: 0.8626 PPBV

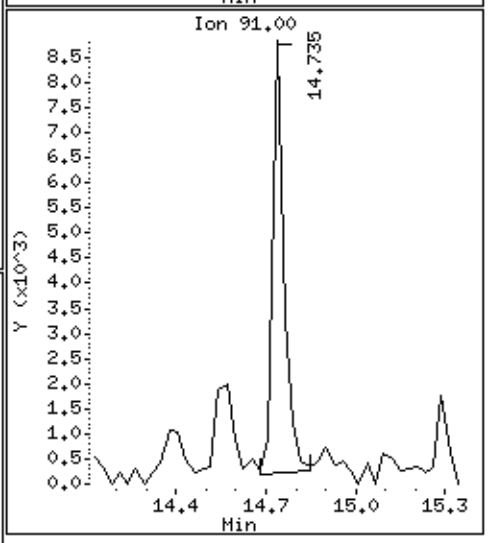












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: XX AMS X

Lab ID#: 0807189-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	9.2	8.7	22
2-Butanone (Methyl Ethyl Ketone)	0.92	1.6	2.7	4.6

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X

Lab ID#: 0807189-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072120**	**Date of Collection:**	**7/9/08**
Dil. Factor:	**1.83**	**Date of Analysis:**	**7/22/08 01:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected
Bromomethane	0.92	Not Detected	3.6	Not Detected
Chloroethane	0.92	Not Detected	2.4	Not Detected
Freon 11	0.92	Not Detected	5.1	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Freon 113	0.92	Not Detected	7.0	Not Detected
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
Benzene	0.92	Not Detected	2.9	Not Detected
1,2-Dichloroethane	0.92	Not Detected	3.7	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
Toluene	0.92	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
1,2-Dibromoethane (EDB)	0.92	Not Detected	7.0	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	0.92	Not Detected	4.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.92	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.92	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
Cyclohexane	0.92	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X

Lab ID#: 0807189-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072120**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 7/22/08 01:11 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.92	Not Detected	3.7	Not Detected
Bromodichloromethane	0.92	Not Detected	6.1	Not Detected
Dibromochloromethane	0.92	Not Detected	7.8	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Propylbenzene	0.92	Not Detected	4.5	Not Detected
Chloromethane	3.7	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
Hexachlorobutadiene	3.7	Not Detected	39	Not Detected
Acetone	3.7	9.2	8.7	22
Carbon Disulfide	0.92	Not Detected	2.8	Not Detected
2-Propanol	3.7	Not Detected	9.0	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.92	1.6	2.7	4.6
Tetrahydrofuran	0.92	Not Detected	2.7	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.92	Not Detected	3.7	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.92	Not Detected	9.4	Not Detected
4-Ethyltoluene	0.92	Not Detected	4.5	Not Detected
Ethanol	3.7	Not Detected	6.9	Not Detected
Methyl tert-butyl ether	0.92	Not Detected	3.3	Not Detected
3-Chloropropene	3.7	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.92	Not Detected	4.3	Not Detected
Naphthalene	3.7	Not Detected	19	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072120.d
Lab Smp Id: 0807189-03A
Inj Date : 22-JUL-2008 01:11
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #34260
Misc Info : 8.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1
Dil Factor: 1.83000
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		
7.131	7.159 (1.000)	130	230707	25.0000		80.00- 120.00	100.00
7.131	7.159 (1.000)	128	167784			49.31- 109.31	72.73
7.131	7.132 (1.000)	49	514389			184.61- 244.61	222.96
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	766147	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	129818			0.00- 47.46	16.94
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	632681	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	390521			0.00- 30.00	61.72
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	431114	26.1822	26.182	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	200241			25.06- 85.06	46.45
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	649671	24.1041	24.104	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	84436			0.00- 42.67	13.00

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	432403			42.35- 102.35	66.56
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	376823	23.4561	23.456	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	498181			106.89- 166.89	132.21
16.035	16.035 (1.115)	176	349204			68.79- 128.79	92.67
30 Acetone					CAS #: 67-64-1		
3.952	3.924 (0.554)	58	50766	5.01614	9.180	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	192116			0.00- 30.00	378.43
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	6425	0.86277	1.579	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	30215			606.68- 666.68	470.26
6.827	6.772 (0.957)	57	4245			0.00- 30.00	66.07

Report Date: 23-Jul-2008 12:01

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072120.d
Lab Smp Id: 0807189-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.0"Hg-5psi GEI

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	230707	-23.47
88 1,4-Difluorobenze	1065036	639022	1491050	766147	-28.06
125 Chlorobenzene-d5	834138	500483	1167793	632681	-24.15

		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: 23-Jul-2008 12:01

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807189-03A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	26.182	104.73	70-130
$ 104 Toluene-d8	25.000	24.104	96.42	70-130
$ 140 Bromofluorobenzene	25.000	23.456	93.82	70-130

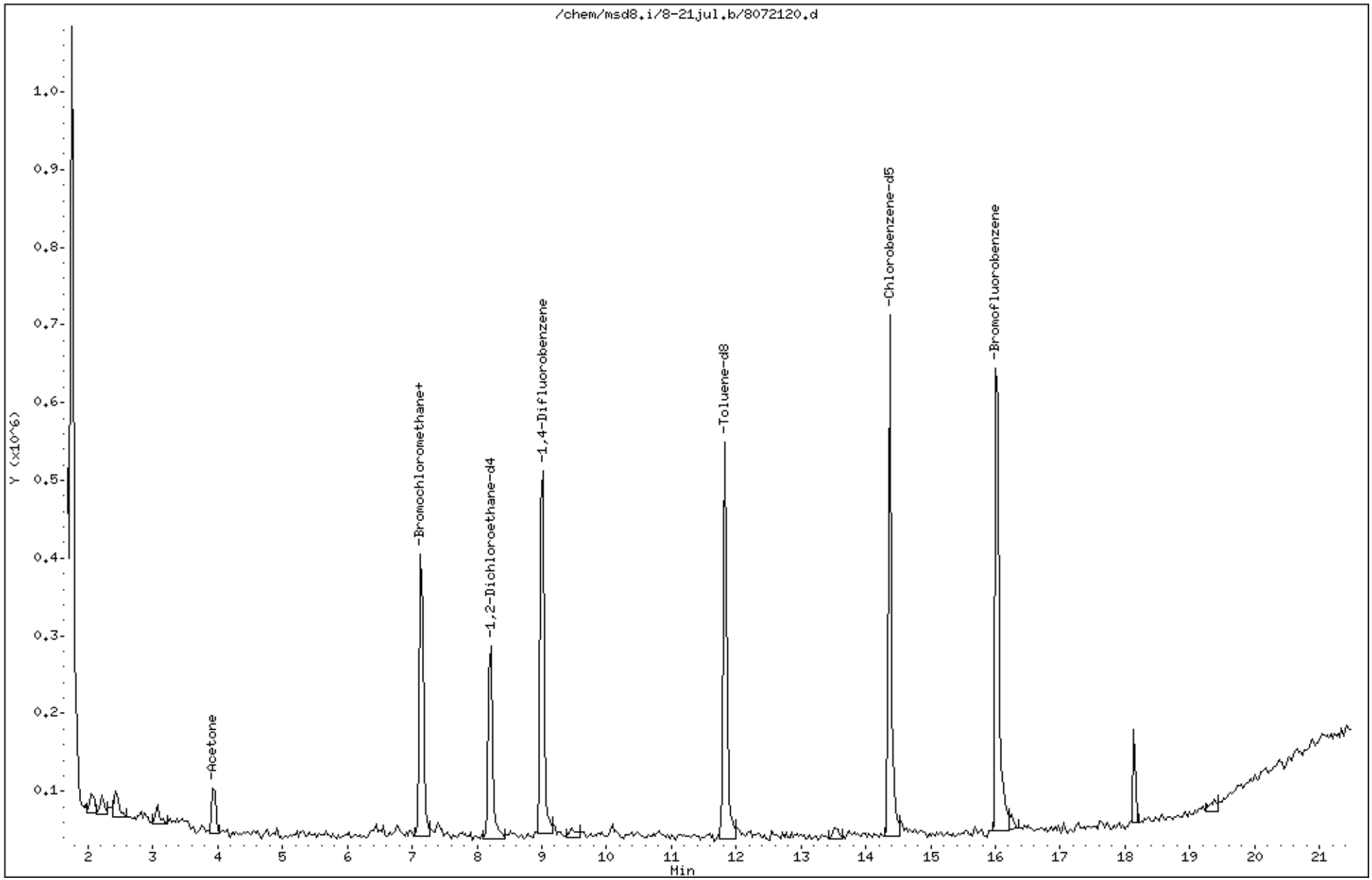
0033

Data File: /chem/msd8.i/8-21jul.b/8072120.d
Date : 22-JUL-2008 01:11
Client ID:
Sample Info: 200mL #34260

Column phase: RTx-624

Instrument: msd8.i

Operator: smd
Column diameter: 0.53



Data File: /chem/msd8.i/8-21jul.b/8072120.d

Date : 22-JUL-2008 01:11

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34260

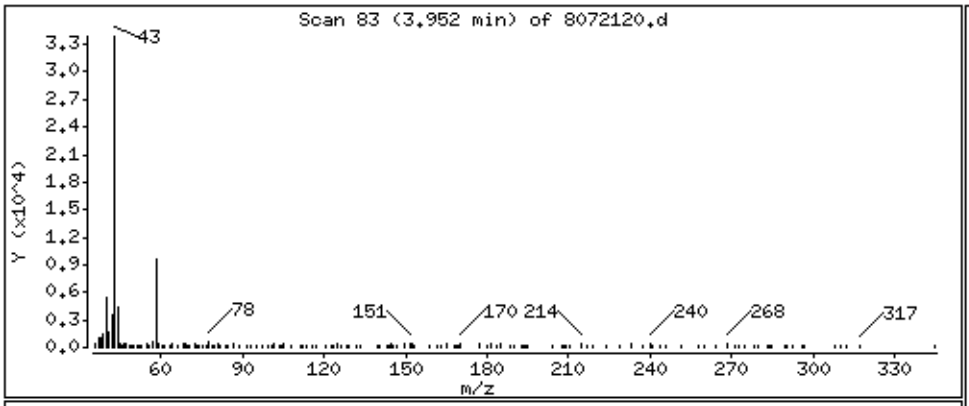
Operator: smd

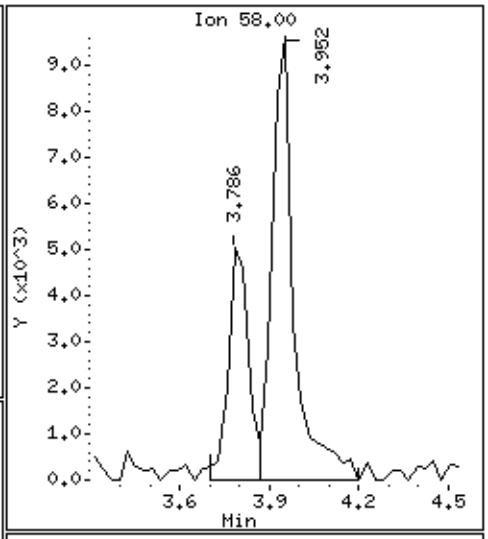
Column phase: RTx-624

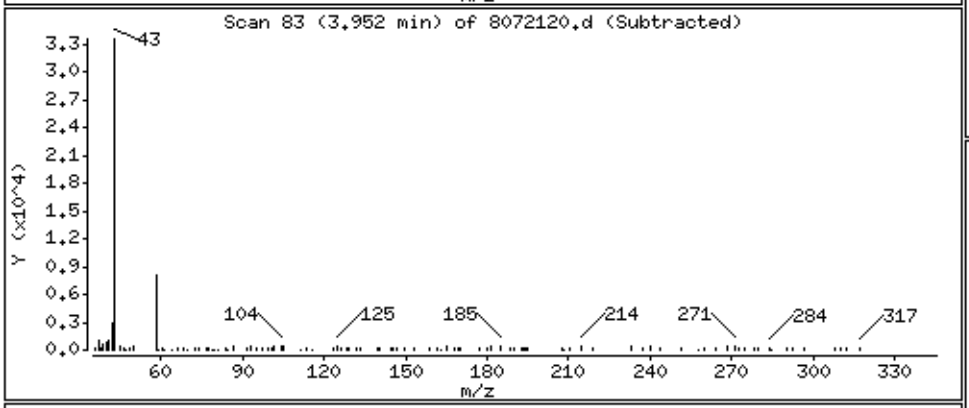
Column diameter: 0.53

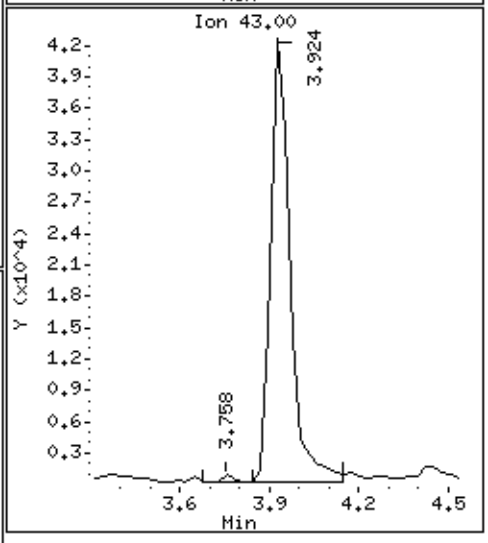
30 Acetone

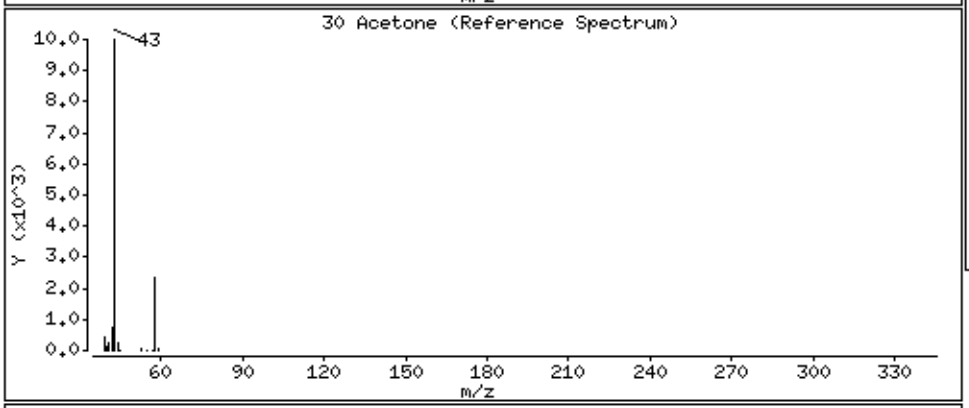
Concentration: 9.180 PPBV

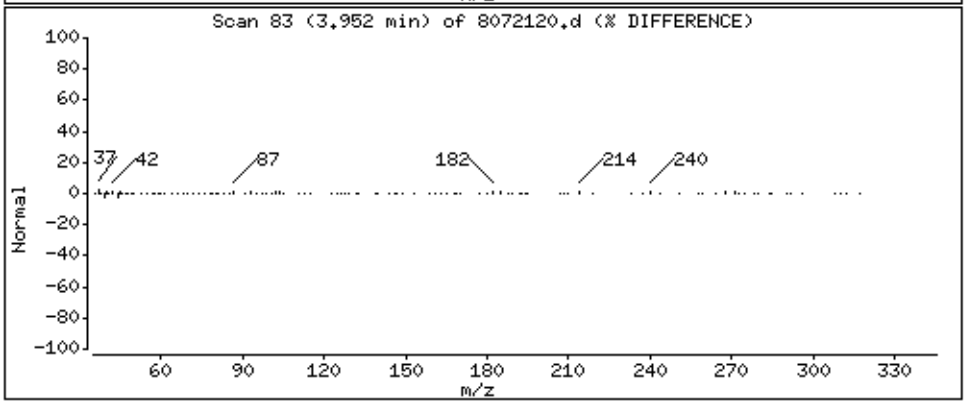












Data File: /chem/msd8.i/8-21jul.b/8072120.d

Date : 22-JUL-2008 01:11

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34260

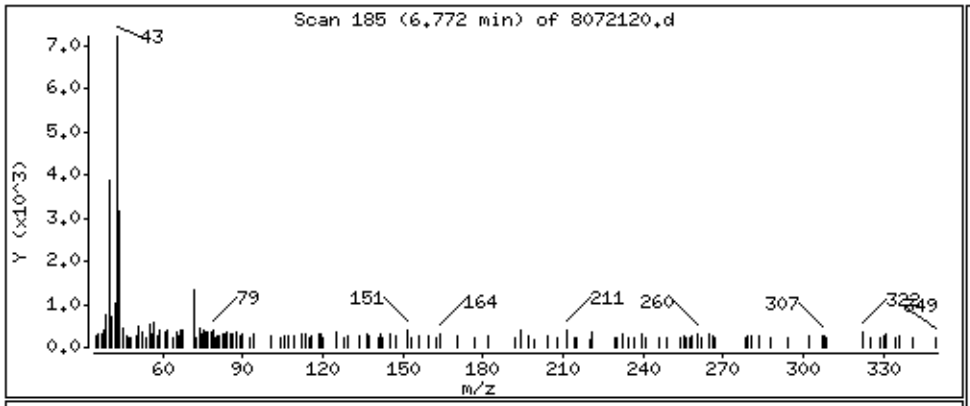
Operator: smd

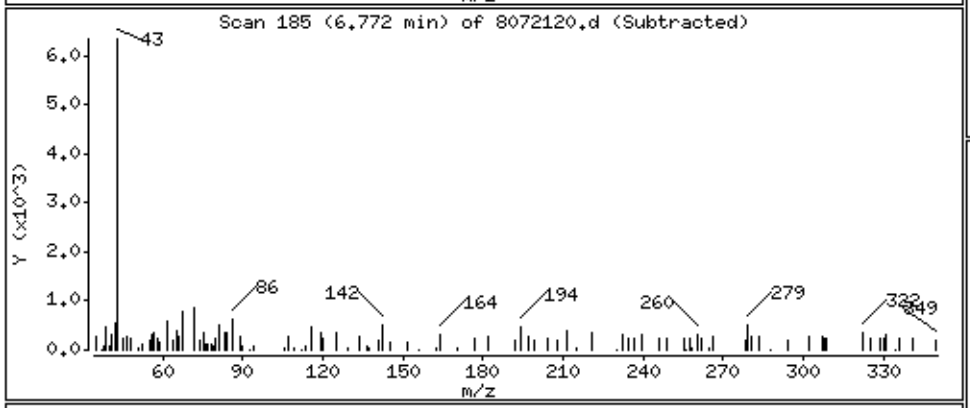
Column phase: RTx-624

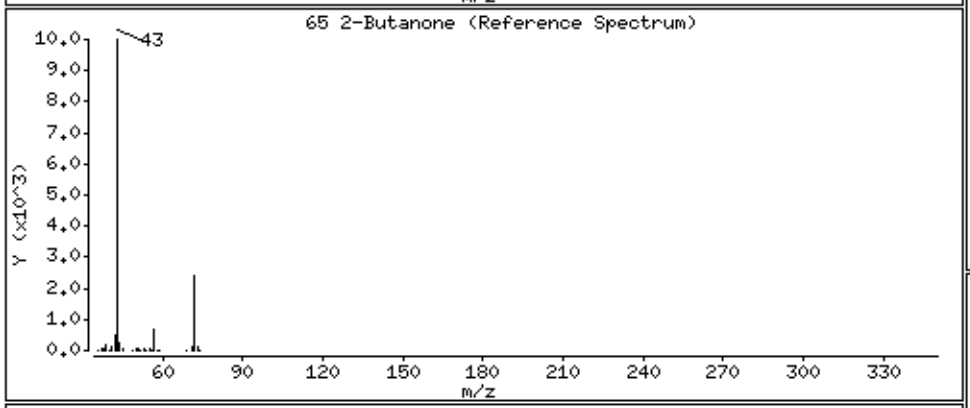
Column diameter: 0.53

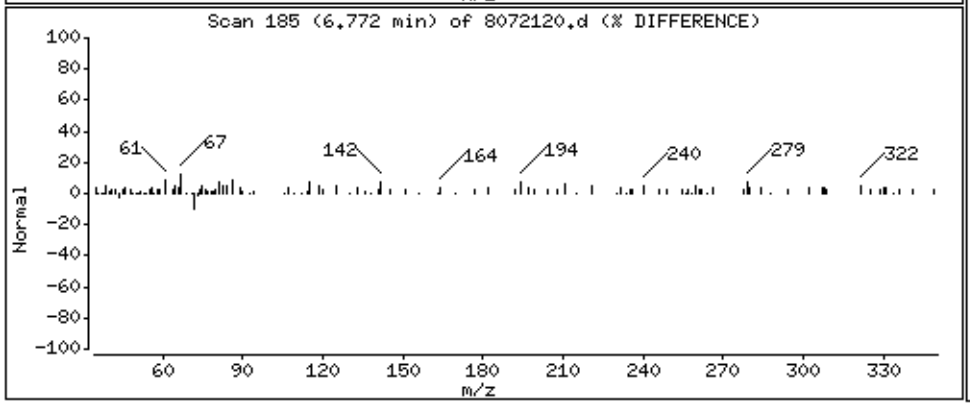
65 2-Butanone

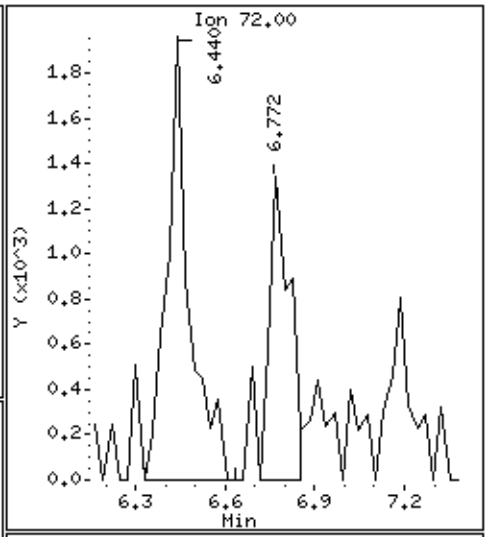
Concentration: 1.579 PPBV

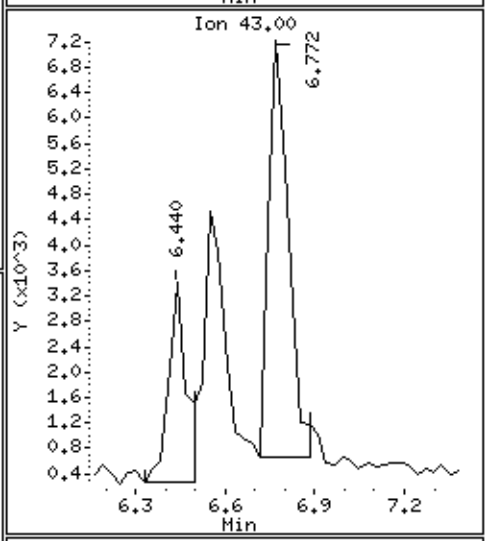


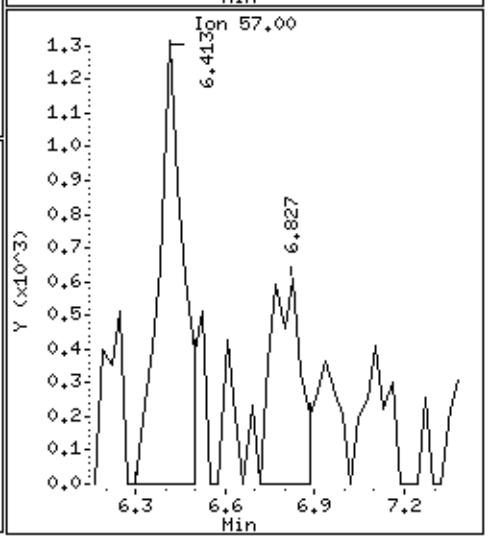












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: XX AMS X Lab Duplicate

Lab ID#: 0807189-03AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	9.2	8.7	22
2-Butanone (Methyl Ethyl Ketone)	0.92	1.5	2.7	4.5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X Lab Duplicate

Lab ID#: 0807189-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072121**	**Date of Collection:**	**7/9/08**
Dil. Factor:	**1.83**	**Date of Analysis:**	**7/22/08 01:54 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected
Bromomethane	0.92	Not Detected	3.6	Not Detected
Chloroethane	0.92	Not Detected	2.4	Not Detected
Freon 11	0.92	Not Detected	5.1	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Freon 113	0.92	Not Detected	7.0	Not Detected
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
Benzene	0.92	Not Detected	2.9	Not Detected
1,2-Dichloroethane	0.92	Not Detected	3.7	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
Toluene	0.92	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
1,2-Dibromoethane (EDB)	0.92	Not Detected	7.0	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	0.92	Not Detected	4.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.92	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.92	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
Cyclohexane	0.92	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X Lab Duplicate

Lab ID#: 0807189-03AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072121**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 7/22/08 01:54 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.92	Not Detected	3.7	Not Detected
Bromodichloromethane	0.92	Not Detected	6.1	Not Detected
Dibromochloromethane	0.92	Not Detected	7.8	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Propylbenzene	0.92	Not Detected	4.5	Not Detected
Chloromethane	3.7	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
Hexachlorobutadiene	3.7	Not Detected	39	Not Detected
Acetone	3.7	9.2	8.7	22
Carbon Disulfide	0.92	Not Detected	2.8	Not Detected
2-Propanol	3.7	Not Detected	9.0	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.92	1.5	2.7	4.5
Tetrahydrofuran	0.92	Not Detected	2.7	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.92	Not Detected	3.7	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.92	Not Detected	9.4	Not Detected
4-Ethyltoluene	0.92	Not Detected	4.5	Not Detected
Ethanol	3.7	Not Detected	6.9	Not Detected
Methyl tert-butyl ether	0.92	Not Detected	3.3	Not Detected
3-Chloropropene	3.7	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.92	Not Detected	4.3	Not Detected
Naphthalene	3.7	Not Detected	19	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072121.d
Lab Smp Id: 0807189-03AA
Inj Date : 22-JUL-2008 01:54
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #34260
Misc Info : 8.0"Hg-5psi GEI
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1
Dil Factor: 1.83000
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	234897	25.0000		80.00- 120.00	100.00
7.131	7.159 (1.000)	128	164831			49.31- 109.31	70.17
7.131	7.132 (1.000)	49	504523			184.61- 244.61	214.78
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	764678	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	124302			0.00- 47.46	16.26
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	621842	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	370518			0.00- 30.00	59.58
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	461892	27.5511	27.551	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	217852			25.06- 85.06	47.17
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	673471	25.0351	25.035	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	78420			0.00- 42.67	11.64

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	429674			42.35- 102.35	63.80
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	374471	23.7160	23.716	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	508769			106.89- 166.89	135.86
16.035	16.035 (1.115)	176	345518			68.79- 128.79	92.27
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.548)	58	51634	5.01090	9.170	80.00- 120.00	100.00
3.924	3.924 (0.548)	43	166210			0.00- 30.00	321.90
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	6309	0.83209	1.523	80.00- 120.00	100.00
6.772	6.772 (0.946)	43	37196			606.68- 666.68	589.56
6.772	6.772 (0.946)	57	4806			0.00- 30.00	76.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072121.d
Lab Smp Id: 0807189-03AA
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.0"Hg-5psi GEI

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	234897	-22.08
88 1,4-Difluorobenze	1065036	639022	1491050	764678	-28.20
125 Chlorobenzene-d5	834138	500483	1167793	621842	-25.45

		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: 23-Jul-2008 12:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807189-03AA
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 8.0"Hg-5psi GEI

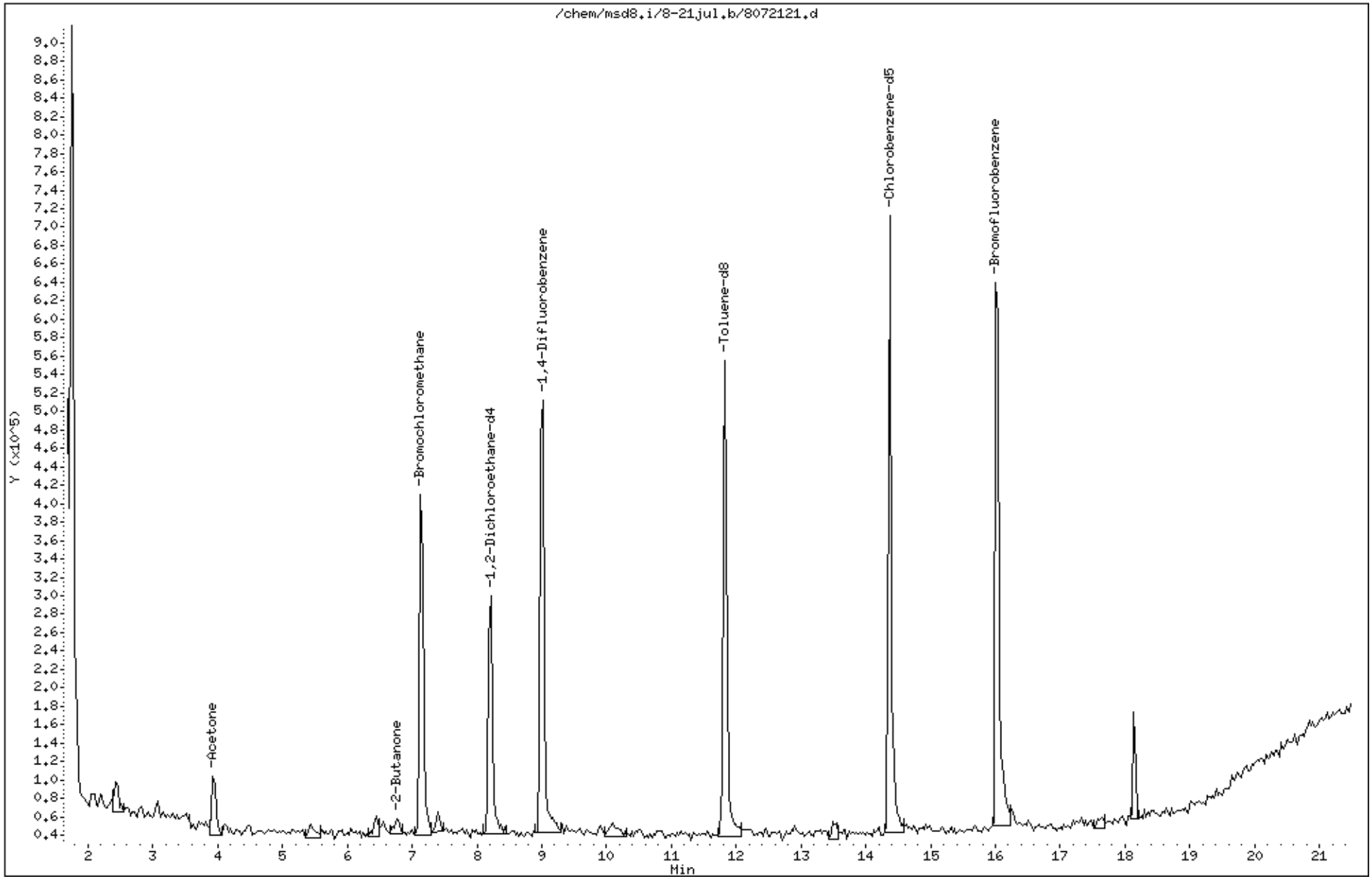
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.551	110.20	70-130
$ 104 Toluene-d8	25.000	25.035	100.14	70-130
$ 140 Bromofluorobenzene	25.000	23.716	94.86	70-130

0043

Data File: /chem/msd8.i/8-21jul.b/8072121.d
Date : 22-JUL-2008 01:54
Client ID:
Sample Info: 200mL #34260

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

Column phase: RTx-624



Data File: /chem/msd8.i/8-21jul.b/8072121.d

Date : 22-JUL-2008 01:54

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34260

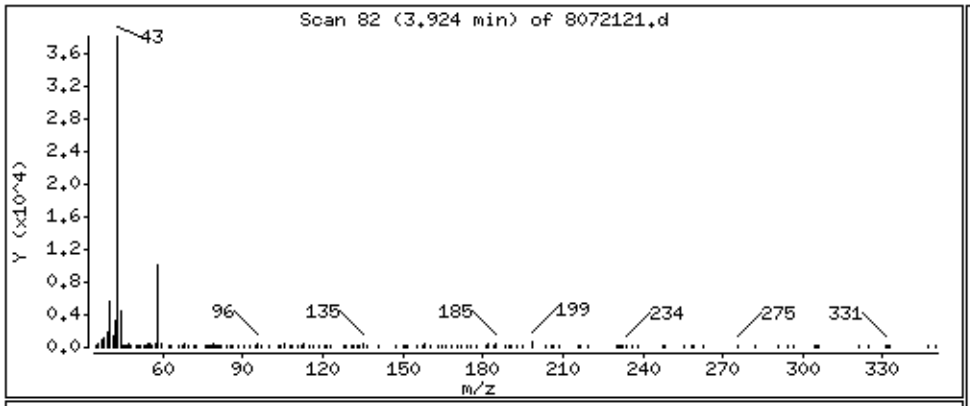
Operator: smd

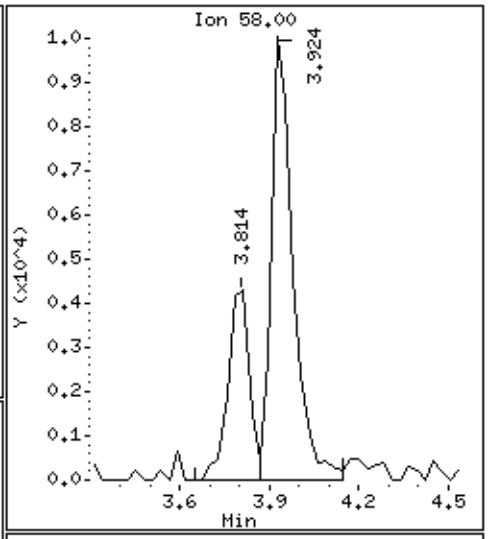
Column phase: RTx-624

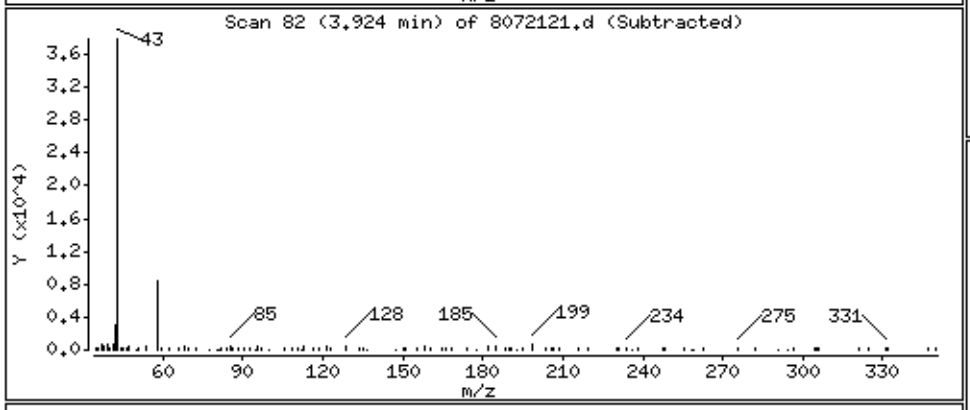
Column diameter: 0.53

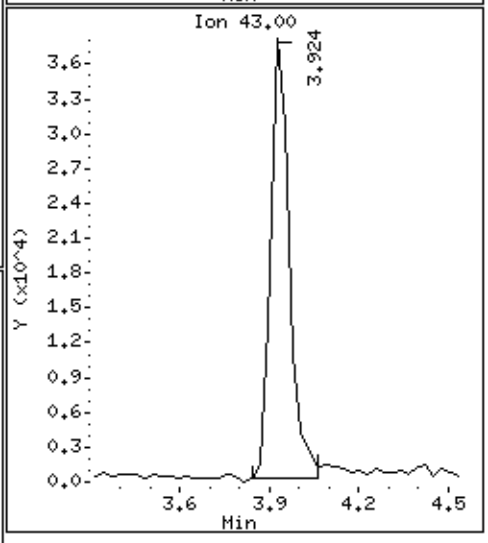
30 Acetone

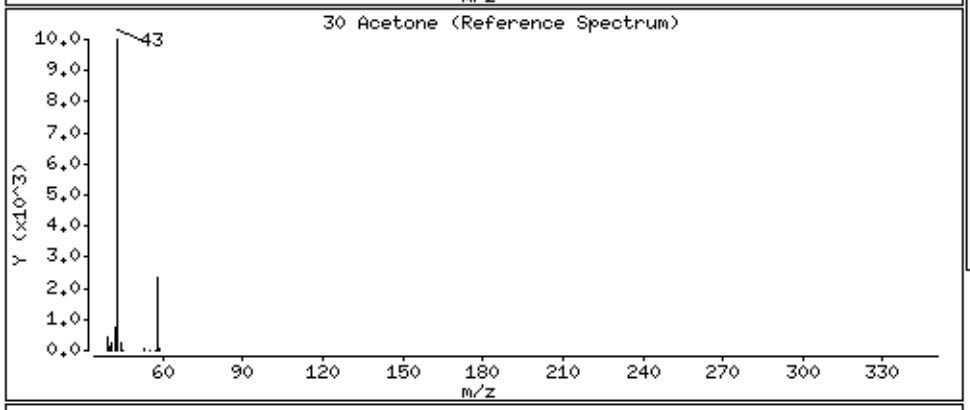
Concentration: 9.170 PPBV

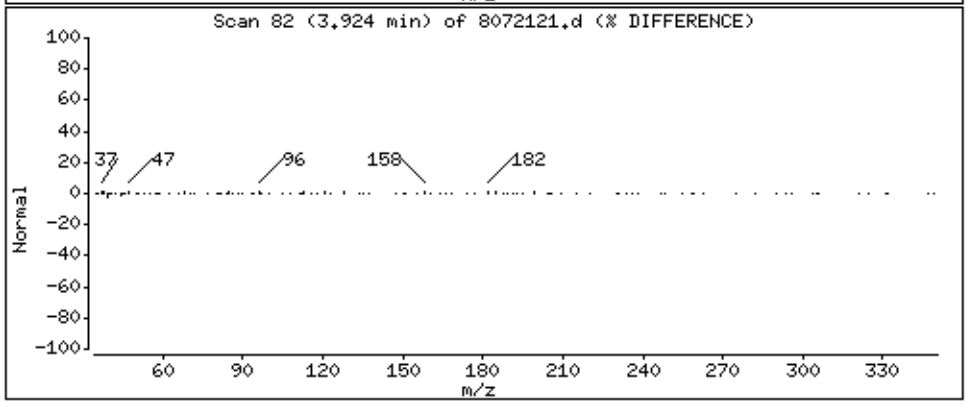












Data File: /chem/msd8.i/8-21jul.b/8072121.d

Date : 22-JUL-2008 01:54

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34260

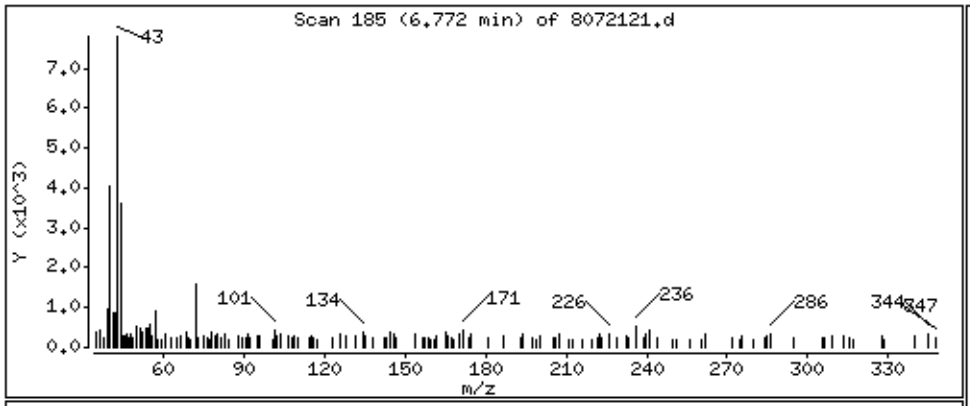
Operator: smd

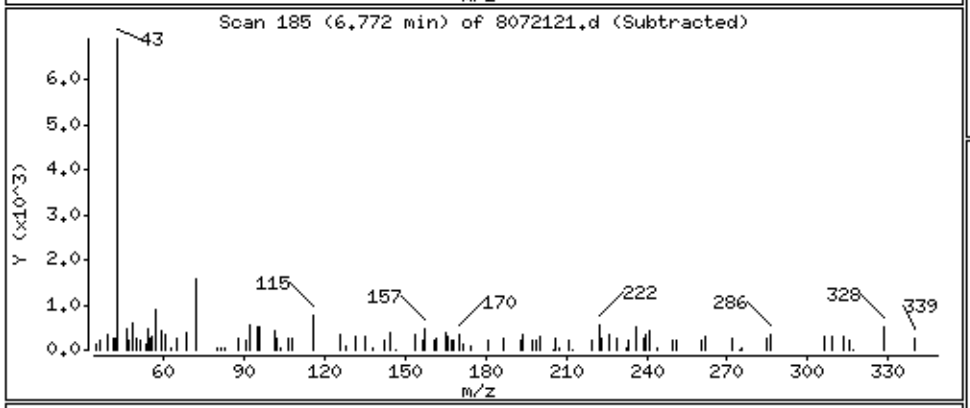
Column phase: RTx-624

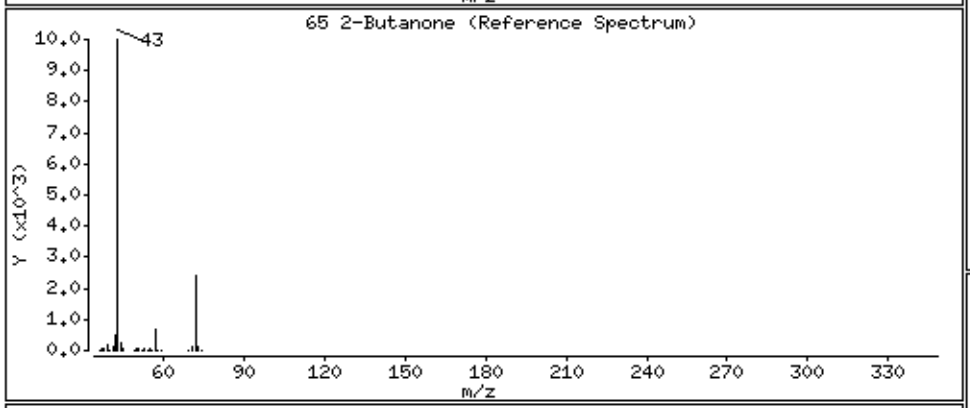
Column diameter: 0.53

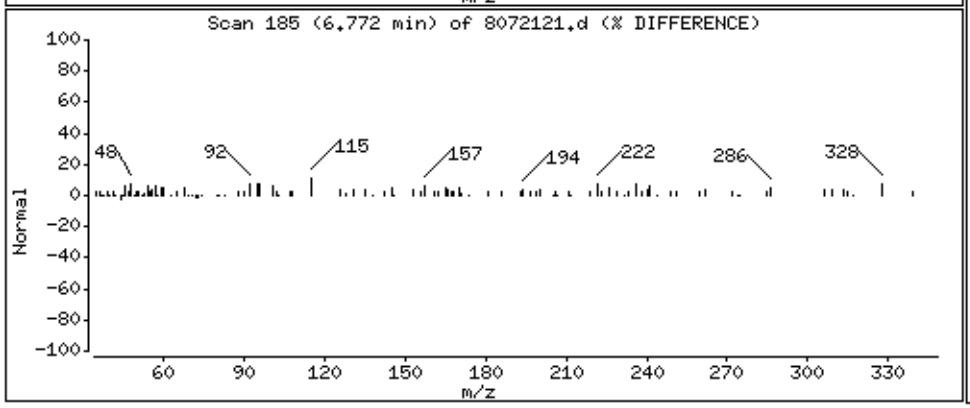
65 2-Butanone

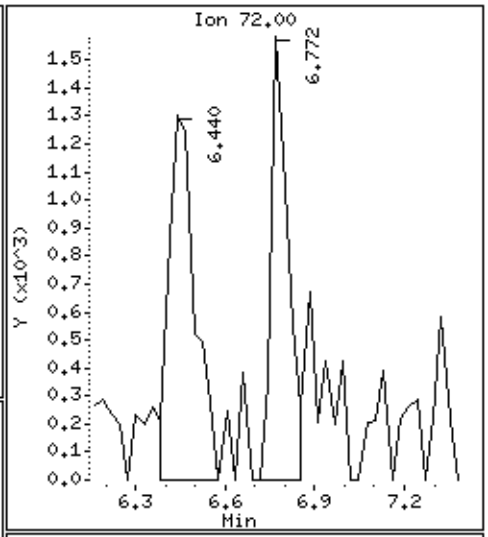
Concentration: 1.523 PPBV

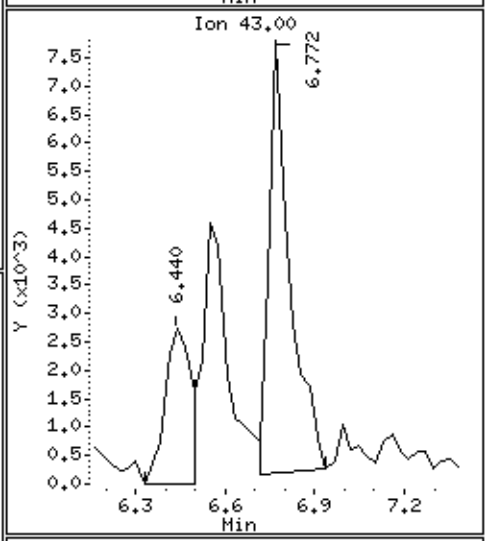


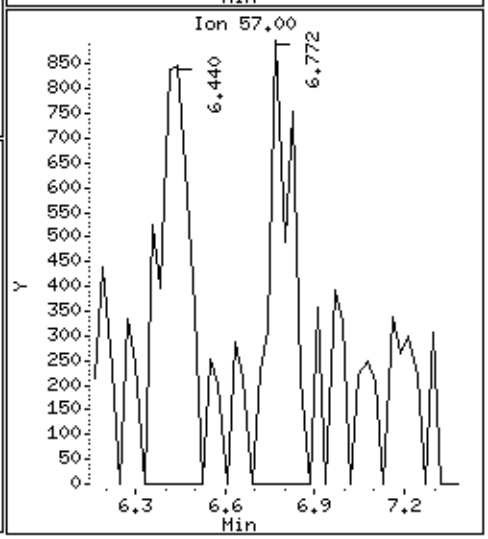












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: Trip Blank

Lab ID#: 0807189-04A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0807189-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072119**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/08 12:29 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: Trip Blank

Lab ID#: 0807189-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072119**	**Date of Collection: 7/9/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/22/08 12:29 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: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072119.d
Lab Smp Id: 0807189-04A
Inj Date : 22-JUL-2008 00:29
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #410
Misc Info : 4.6psi-4.6psi GEI
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1
Dil Factor: 1.00000
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		
7.131	7.159 (1.000)	130	226073	25.0000		80.00- 120.00	100.00
7.131	7.159 (1.000)	128	174525			49.31- 109.31	77.20
7.131	7.132 (1.000)	49	525331			184.61- 244.61	232.37
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	753096	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	125468			0.00- 47.46	16.66
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	618347	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	409141			0.00- 30.00	66.17
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	449653	27.8679	27.868	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	219122			25.06- 85.06	48.73
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	683153	25.7856	25.786	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	90947			0.00- 42.67	13.31

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	448192			42.35- 102.35	65.61
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	367017	23.3753	23.375	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	496503			106.89- 166.89	135.28
16.035	16.035 (1.115)	176	344808			68.79- 128.79	93.95

Report Date: 23-Jul-2008 12:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072119.d
Lab Smp Id: 0807189-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 4.6psi-4.6psi GEI

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	226073	-25.01
88 1,4-Difluorobenze	1065036	639022	1491050	753096	-29.29
125 Chlorobenzene-d5	834138	500483	1167793	618347	-25.87

		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: 23-Jul-2008 12:03

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0807189-04A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 4.6psi-4.6psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.868	111.47	70-130
$ 104 Toluene-d8	25.000	25.786	103.14	70-130
$ 140 Bromofluorobenzene	25.000	23.375	93.50	70-130

Data File: /chem/msd8.i/8-21jul.b/8072119.d

Date : 22-JUL-2008 00:29

Client ID:

Sample Info: 200mL #410

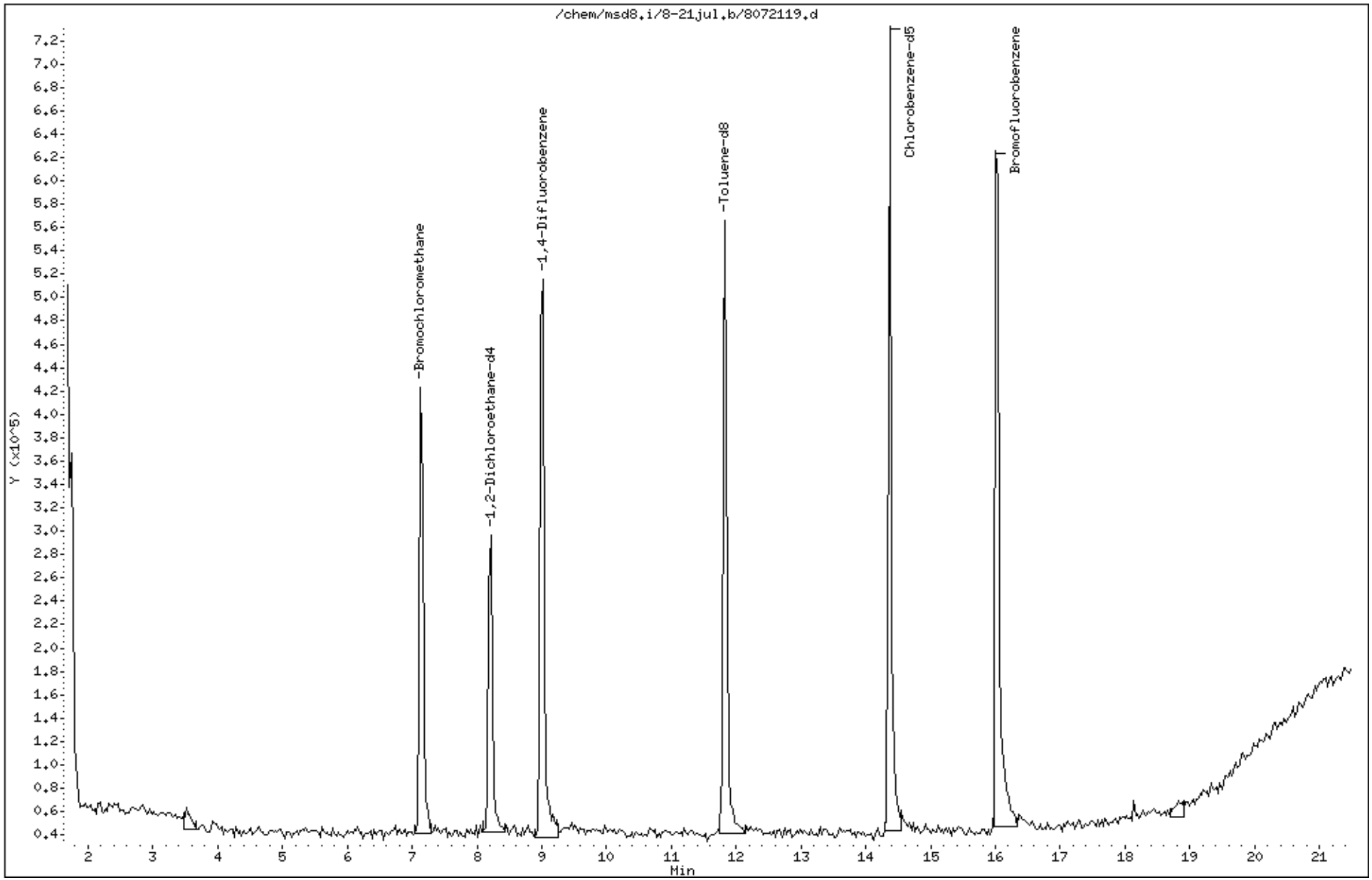
Column phase: RTx-624

Instrument: msd8.i

Operator: smd

Column diameter: 0.53

0053



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0807189-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 10:33 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#: 0807189-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 10:33 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	96	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072104.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 21-JUL-2008 10:33
Operator : srs Inst ID: msd8.i
Smp Info : 200mL#4214
Misc Info : Humid
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.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

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.132	7.159 (1.000)	130	237079	25.0000		80.00- 120.00	100.00
	7.132	7.159 (1.000)	128	182002			49.31- 109.31	76.77
	7.132	7.132 (1.000)	49	533788			184.61- 244.61	225.15
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.012	9.012 (1.000)	114	830837	25.0000		80.00- 120.00	100.00
	8.984	9.012 (1.000)	88	140082			0.00- 47.46	16.86
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.376	14.376 (1.000)	117	657338	25.0000		80.00- 120.00	100.00
	14.376	14.376 (1.000)	82	437611			0.00- 30.00	66.57
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.210	8.210 (1.151)	65	450523	26.6256	26.626	80.00- 120.00	100.00
	8.210	8.210 (1.151)	67	205601			25.06- 85.06	45.64
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.832	11.832 (1.313)	98	705411	24.1343	24.134	80.00- 120.00	100.00
	11.832	11.832 (1.313)	70	86129			0.00- 42.67	12.21

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	452142			42.35- 102.35	64.10
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	392602	23.5216	23.522	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	530816			106.89- 166.89	135.20
16.035	16.035 (1.115)	176	369138			68.79- 128.79	94.02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072104.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: Humid

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	237079	-21.36
88 1,4-Difluorobenze	1065036	639022	1491050	830837	-21.99
125 Chlorobenzene-d5	834138	500483	1167793	657338	-21.20

		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: 21-Jul-2008 10:49

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	26.626	106.50	70-130
$ 104 Toluene-d8	25.000	24.134	96.54	70-130
$ 140 Bromofluorobenzene	25.000	23.522	94.09	70-130

Data File: /chem/msd8.i/8-21jul.b/8072104.d

Page 1

Date : 21-JUL-2008 10:33

Client ID: Lab Blank

Instrument: msd8.i

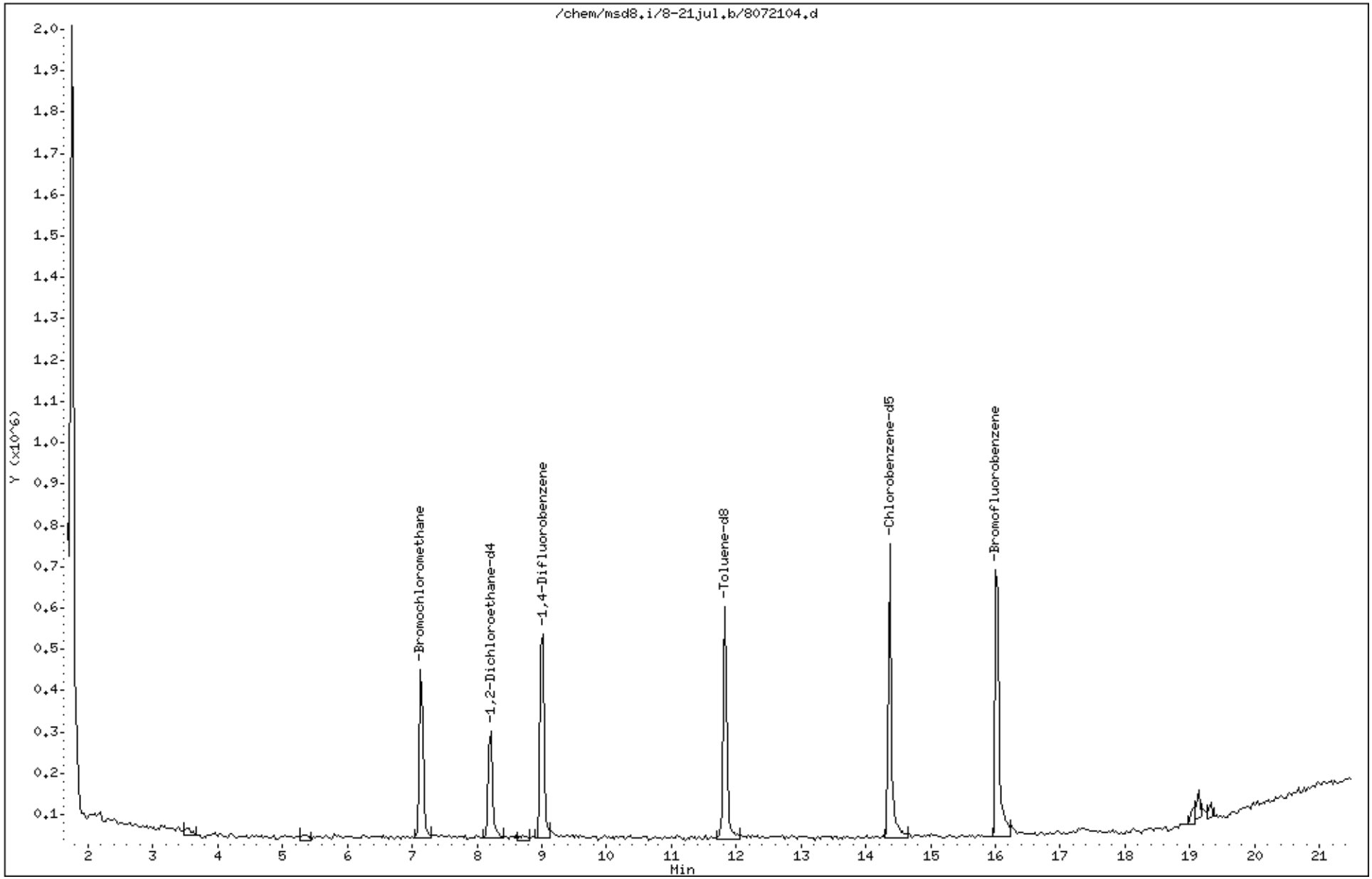
Sample Info: 200mL#4214

Operator: srs

Column phase: RTx-624

Column diameter: 0.53

0061



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0807189

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 5	108		95		93				0
02	DW AMS 3	108		99		95				0
03	XX AMS X	105		96		94				0
04	XX AMS X Lab Duplicate	110		100		95				0
05	Trip Blank	111		103		94				0
06	Lab Blank	106		96		94				0
07	CCV	108		107		102				0
08	LCS	111		103		105				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: 0807189

Lab File ID: 8072102.d | Date Analyzed: 07/21/2008

Instrument ID: msd8.i | Time Analyzed: 09:08 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	834138		14.38		1065036		9.01		301456		7.16	
	UPPER LIMIT	1167793		14.71		1491050		09.34		422038		07.49	
	LOWER LIMIT	500483		14.05		639022		08.68		180874		06.83	
	CLIENT SAMPLE NO												
01	UW AMS 5	696559		14.38		865458		9.01		246581		7.16	
02	DW AMS 3	660534		14.38		845869		9.01		246562		7.16	
03	XX AMS X	632681		14.38		766147		9.01		230707		7.13	
04	XX AMS X Lab Duplicate	621842		14.38		764678		9.01		234897		7.16	
05	Trip Blank	618347		14.38		753096		9.01		226073		7.13	
06	Lab Blank	657338		14.38		830837		9.01		237079		7.13	
07	CCV	834138		14.38		1065036		9.01		301456		7.16	
08	LCS	701488		14.38		901238		9.01		247429		7.13	
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 8072121.d & 8072120.d

Lab Sample ID: 03A & 03AA Dilution: 1.83 & 1.83

Client Sample ID: & Date Analyzed: 7/22/08 & 7/22/08

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
71-55-6	1,1,1-Trichloroethane	ND	U	ND	U	0
79-34-5	1,1,2,2-Tetrachloroethane	ND	U	ND	U	0
79-00-5	1,1,2-Trichloroethane	ND	U	ND	U	0
75-34-3	1,1-Dichloroethane	ND	U	ND	U	0
75-35-4	1,1-Dichloroethene	ND	U	ND	U	0
120-82-1	1,2,4-Trichlorobenzene	ND	U	ND	U	0
95-63-6	1,2,4-Trimethylbenzene	ND	U	ND	U	0
106-93-4	1,2-Dibromoethane (EDB)	ND	U	ND	U	0
95-50-1	1,2-Dichlorobenzene	ND	U	ND	U	0
107-06-2	1,2-Dichloroethane	ND	U	ND	U	0
78-87-5	1,2-Dichloropropane	ND	U	ND	U	0
108-67-8	1,3,5-Trimethylbenzene	ND	U	ND	U	0
106-99-0	1,3-Butadiene	ND	U	ND	U	0
541-73-1	1,3-Dichlorobenzene	ND	U	ND	U	0
106-46-7	1,4-Dichlorobenzene	ND	U	ND	U	0
123-91-1	1,4-Dioxane	ND	U	ND	U	0
540-84-1	2,2,4-Trimethylpentane	ND	U	ND	U	0
78-93-3	2-Butanone (Methyl Ethyl Ketone)	1.579		1.523		3.6
591-78-6	2-Hexanone	ND	U	ND	U	0
67-63-0	2-Propanol	ND	U	ND	U	0
107-05-1	3-Chloropropene	ND	U	ND	U	0
622-96-8	4-Ethyltoluene	ND	U	ND	U	0
108-10-1	4-Methyl-2-pentanone	ND	U	ND	U	0
67-64-1	Acetone	9.18		9.17		0.11
100-44-7	alpha-Chlorotoluene	ND	U	ND	U	0
71-43-2	Benzene	ND	U	ND	U	0
75-27-4	Bromodichloromethane	ND	U	ND	U	0
75-25-2	Bromoform	ND	U	ND	U	0
74-83-9	Bromomethane	ND	U	ND	U	0
75-15-0	Carbon Disulfide	ND	U	ND	U	0
56-23-5	Carbon Tetrachloride	ND	U	ND	U	0
108-90-7	Chlorobenzene	ND	U	ND	U	0
75-00-3	Chloroethane	ND	U	ND	U	0
67-66-3	Chloroform	ND	U	ND	U	0
74-87-3	Chloromethane	ND	U	ND	U	0
156-59-2	cis-1,2-Dichloroethene	ND	U	ND	U	0
10061-01-5	cis-1,3-Dichloropropene	ND	U	ND	U	0
98-82-8	Cumene	ND	U	ND	U	0
110-82-7	Cyclohexane	ND	U	ND	U	0
124-48-1	Dibromochloromethane	ND	U	ND	U	0
64-17-5	Ethanol	ND	U	ND	U	0
100-41-4	Ethyl Benzene	ND	U	ND	U	0
75-69-4	Freon 11	ND	U	ND	U	0
76-13-1	Freon 113	ND	U	ND	U	0
76-14-2	Freon 114	ND	U	ND	U	0
75-71-8	Freon 12	ND	U	ND	U	0

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: 8072121.d & 8072120.d

Lab Sample ID: 03A & 03AA

Dilution: 1.83 & 1.83

Client Sample ID: &

Date Analyzed: 7/22/08 & 7/22/08

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
108-88-3	Toluene	ND	U	ND	U	0
156-60-5	trans-1,2-Dichloroethene	ND	U	ND	U	0
10061-02-6	trans-1,3-Dichloropropene	ND	U	ND	U	0
79-01-6	Trichloroethene	ND	U	ND	U	0
75-01-4	Vinyl Chloride	ND	U	ND	U	0

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

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-26jun.b/8062604.d
Level 2: /chem/msd8.i/8-26jun.b/8062605.d
Level 3: /chem/msd8.i/8-08jul.b/8070807.d
Level 4: /chem/msd8.i/8-26jun.b/8062607.d
Level 5: /chem/msd8.i/8-08jul.b/8070808.d
Level 6: /chem/msd8.i/8-26jun.b/8062609.d
Level 7: /chem/msd8.i/8-08jul.b/8070809.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	+++++	+++++	1.95459	+++++	1.24602	+++++	1.18422	1.46161	29.286
2 Freon 22	+++++	+++++	0.74856	+++++	0.50505	+++++	0.44501	0.56621	28.390
3 Propylene	+++++	+++++	2.90568	2.35637	2.05377	2.02895	1.93305	2.25556	17.580
4 Dichlorodifluoromethane/Fr12	+++++	6.12823	6.33028	5.21911	4.62619	4.47598	4.18386	5.16061	17.367
5 Freon134a	+++++	+++++	2.62538	+++++	1.88613	+++++	1.67711	2.06287	24.152
6 Freon 114	+++++	4.74227	4.71920	3.61385	3.18403	3.16308	3.04858	3.74517	21.021
7 Isobutane	+++++	+++++	6.06015	+++++	5.16408	+++++	4.68916	5.30446	13.125

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
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	___ RRF	% RSD
	200.000 Level 7							
8 Chloromethane	+++++	+++++	3.29585	2.27842	2.13057	2.22156		
	2.10325						2.40593	20.882
9 Butane	+++++	+++++	0.79030	0.52501	0.49463	0.49378		
	0.46612						0.55397	24.144
10 1,3-Butadiene	3.52752	2.49637	2.74554	2.10003	1.87817	1.99551		
	1.86197						2.37216	25.584
11 Vinyl Chloride	+++++	3.10181	3.16227	2.47711	2.21572	2.14945		
	2.02153						2.52132	19.681
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
13 Bromomethane	+++++	2.01321	1.62415	1.43571	1.32483	1.34759		
	1.31964						1.51085	17.973
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Isopentane	+++++	+++++	4.35624	3.77644	3.40821	3.40984		
	3.30319						3.65079	11.870
16 Chloroethane	+++++	0.98336	1.27847	1.17894	1.06761	1.06006		
	1.03799						1.10107	9.796
17 Dichlorofluoromethane/Fr21	+++++	+++++	4.35995	+++++	3.12453	+++++		
	2.88402						3.45617	22.912

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
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	+++++	7.21568	6.65080	5.15150	4.50485	4.51871	4.31524	5.39280	22.978
19 Pentane	+++++	+++++	6.88335	+++++	5.58750	+++++	5.84703	6.10596	11.229
20 Freon123a	+++++	+++++	3.09820	+++++	2.10620	+++++	1.88244	2.36228	27.392
21 Freon123	+++++	+++++	0.39595	+++++	0.24366	+++++	0.22984	0.28982	31.804
22 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Ethanol	+++++	+++++	1.39612	0.97978	0.88698	0.88606	0.80897	0.99158	23.609
24 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	0.95334	+++++	0.84123	+++++	0.81343	0.86933	8.520
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Freon142b	+++++	+++++	4.93669	+++++	3.96792	+++++	3.59821	4.16761	16.586

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
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	+++++	4.09952	3.37547	2.82848	2.54402	2.54658	2.43446	2.97142	21.851
29 1,1-Dichloroethene	+++++	4.48988	4.10740	3.40101	3.05900	3.09872	3.03256	3.53143	17.578
30 Acetone	+++++	+++++	1.29024	1.07929	1.02414	1.05676	1.03300	1.09669	10.059
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Freon143a	+++++	+++++	1.10655	+++++	0.95572	+++++	0.80914	0.95714	15.537
33 Carbon Disulfide	+++++	8.23558	6.97854	5.62602	5.16445	5.22166	5.07578	6.05034	21.215
34 2-Propanol	+++++	+++++	4.85694	4.28209	4.02024	4.25530	4.24726	4.33237	7.192
35 Acetonitrile	+++++	+++++	2.06013	+++++	1.48596	+++++	0.94562	1.49724	37.225
36 Cyclopentene	+++++	+++++	6.00890	+++++	4.50446	+++++	4.44231	4.98523	17.794
37 3-Chloropropene	+++++	+++++	0.97350	0.87901	0.79746	0.82023	0.80379	0.85480	8.629

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
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Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
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	___ RRF	% RSD
	200.000 Level 7							
38 tert-Butyl-Alcohol	+++++	+++++	3.87521	3.49039	3.02172	2.81653		
	2.27531						3.09583	19.911
39 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
40 Methylene Chloride	+++++	4.15271	3.38910	2.93141	2.64423	2.69003		
	2.59071						3.06637	19.829
41 Acrylonitrile	+++++	+++++	2.46068	+++++	2.23856	+++++		
	2.25950						2.31958	5.287
42 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
43 MTBE	+++++	5.62383	4.89661	4.73841	4.26434	4.40106		
	4.16072						4.68083	11.550
44 1-Pentene	+++++	+++++	3.28885	+++++	3.04278	+++++		
	2.98091						3.10418	5.248
45 trans-1,2-Dichloroethene	+++++	2.84559	2.33828	1.93397	1.75334	1.76103		
	1.70882						2.05684	21.929
46 Hexane	+++++	4.32034	4.25510	3.82712	3.60280	3.72449		
	3.67082						3.90011	7.942
47 Ethyl Ether	+++++	+++++	1.42873	+++++	1.14378	+++++		
	1.13294						1.23515	13.580

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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	+++++	+++++	10.77735	+++++	7.67949	+++++	7.76996	8.74227	20.167
50 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 1-Propanol	+++++	+++++	0.65603	+++++	0.40649	+++++	0.41312	0.49188	28.909
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 1,1-Dichloroethane	+++++	5.28858	4.41562	3.69049	3.35386	3.40672	3.35558	3.91848	20.010
55 Vinyl Acetate	+++++	+++++	0.46424	0.38409	0.36886	0.40825	0.42207	0.40950	9.017
56 Iodomethane	+++++	+++++	4.38481	+++++	4.86829	+++++	4.14132	4.46481	8.288
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	200.000 Level 7	___ RRF	% RSD
58 Ethyl-tert-butyl Ether	+++++	+++++	6.36254	+++++	5.58126	+++++	5.36619	5.77000	9.087
59 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	3.94772	+++++	3.17815	+++++	3.11106	3.41231	13.624
61 Ethyl Acetate	+++++	+++++	0.52702	+++++	0.35804	+++++	0.37168	0.41891	22.408
62 1-Hexene	+++++	+++++	1.70482	+++++	1.84113	+++++	1.85835	1.80144	4.669
63 Methyl Acrylate	+++++	+++++	3.82715	+++++	3.91094	+++++	4.23030	3.98946	5.332
64 cis-1,2-Dichloroethene	+++++	3.57464	3.22270	2.70475	2.44136	2.54694	2.50203	2.83207	16.282
65 2-Butanone	+++++	0.86567	0.88614	0.75017	0.73059	0.79592	0.81330	0.80697	7.626
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Tetrahydrofuran	+++++	3.78398	3.43824	2.88204	2.71145	2.85783	2.84226	3.08597	13.783

Air Toxics Ltd.

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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	4.78926	4.39305	4.11372	3.40616	3.04216	3.08691	3.00879	3.69144	19.815
71 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,1-Dichloropropene	+++++	+++++	1.17572	+++++	0.78817	+++++	0.78249	0.91546	24.623
73 Cyclohexane	+++++	2.77785	2.77482	2.38467	2.20090	2.27289	2.26327	2.44573	10.747
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,1,1-Trichloroethane	+++++	4.36148	4.20094	3.46601	3.26109	3.28269	3.21292	3.63085	14.144
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	3.46901	3.94195	3.44345	3.14587	3.19402	3.12730	3.38694	9.155
78 Isobutanol	+++++	+++++	0.53750	+++++	0.44703	+++++	0.48919	0.49124	9.215

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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	+++++	+++++	4.67185	+++++	4.00901	+++++	3.81922	4.16669	10.744
80 2,2,4-Trimethylpentane	+++++	13.03067	11.82668	10.69287	10.03028	10.41668	10.52699	11.08736	10.172
81 Benzene	1.73373	1.59005	1.55686	1.33638	1.24595	1.20330	1.18353	1.40711	15.491
83 1,2-Dichloroethane	+++++	0.99555	0.86981	0.78022	0.71347	0.68132	0.67026	0.78510	16.169
84 Thiopene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Heptane	+++++	0.23780	0.16035	0.14552	0.13204	0.12907	0.13045	0.15587	26.872
86 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1-Butanol	+++++	+++++	0.37498	+++++	0.30034	+++++	0.34819	0.34117	11.084
90 Methyl Methacrylate	+++++	+++++	0.78597	+++++	0.98350	+++++	1.10247	0.95731	16.699

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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
91 2-Pentanone	+++++	+++++	1.48592	+++++	1.79343	+++++	1.97742	1.75226	14.171
92 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Ethyl Acrylate	+++++	+++++	1.08902	+++++	1.24786	+++++	1.33020	1.22236	10.029
94 Trichloroethene	+++++	0.73614	0.64970	0.54066	0.50948	0.48811	0.48098	0.56751	18.154
95 Methyl Cyclohexane	+++++	3.87755	3.29394	2.82763	2.63488	2.77262	2.75208	3.02645	15.697
96 Dibromomethane	+++++	+++++	0.56895	+++++	0.54600	+++++	0.56482	0.55992	2.185
97 1,2-Dichloropropane	+++++	0.63994	0.62718	0.48566	0.45732	0.44365	0.44632	0.51668	17.774
98 1,4-Dioxane	+++++	+++++	0.31971	0.26432	0.26560	0.25111	0.26003	0.27215	9.987
99 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Bromodichloromethane	+++++	1.13584	0.95565	0.82700	0.79413	0.78912	0.77518	0.87949	16.129

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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
101 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
102 cis-1,3-Dichloropropene	+++++	0.75169	0.67209	0.58035	0.56246	0.55910	0.57299	0.61645	12.728
103 4-Methyl-2-pentanone	+++++	0.41597	0.32959	0.38220	0.38491	0.38902	0.40144	0.38386	7.653
105 Toluene	+++++	1.54404	1.50891	1.23436	1.19633	1.17980	1.17255	1.30600	13.206
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
108 trans-1,3-Dichloropropene	+++++	0.98090	0.80809	0.80225	0.80002	0.80376	0.78932	0.83072	8.889
109 1,3-Dichloropropane	+++++	+++++	0.86786	+++++	0.59607	+++++	0.57611	0.68001	23.968
110 1,1,2-Trichloroethane	+++++	0.61775	0.64817	0.50425	0.50477	0.50325	0.47465	0.54214	13.265
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	+++++	1.15697	0.88717	0.77155	0.72969	0.71187	0.68420	0.82357	21.627
113 Butyl Acetate	+++++	+++++	0.40776	+++++	0.41936	+++++	0.45889	0.42867	6.253
114 2-Hexanone	+++++	+++++	0.57713	0.61683	0.67198	0.69243	0.69476	0.65063	7.948
115 trans-1,4-dichloro-2-butene	+++++	+++++	0.19056	+++++	0.23957	+++++	0.27175	0.23396	17.475
116 Dibromochloromethane	+++++	0.94076	0.83036	0.85304	0.85531	0.84861	0.83963	0.86129	4.646
117 1,2-Dibromoethane	0.96719	1.06977	0.99260	0.84443	0.84134	0.82617	0.78622	0.90396	11.666
118 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 Diisobutyl Ketone	+++++	+++++	1.75203	+++++	1.84484	+++++	1.96278	1.85322	5.699
121 Alphamethylstyrene	+++++	+++++	0.55859	+++++	0.85395	+++++	1.05220	0.82158	30.234

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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	+++++	+++++	0.92901	+++++	0.63027	+++++	0.62102	0.72677	24.108
124 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	1.57995	1.66084	1.35828	1.27357	1.24575	1.21199	1.38840	13.531
127 Bis(2-chloroethyl) ether	+++++	+++++	0.97897	+++++	1.27462	+++++	1.50960	1.25440	21.197
128 Nonane	+++++	+++++	1.47358	+++++	1.88967	+++++	2.02694	1.79673	16.037
129 Ethyl Benzene	+++++	0.78250	0.77689	0.63678	0.66027	0.64183	0.61806	0.68606	10.756
130 m,p-Xylene	+++++	0.96422	0.87784	0.83973	0.82997	0.83764	0.80970	0.85985	6.480
131 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.81706	0.87340	0.84253	0.81499	0.80870	0.77594	0.82210	4.010

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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	+++++	+++++	0.53954	+++++	0.68741	+++++	0.87368	0.70021	23.913
134 Styrene	+++++	1.23006	1.07945	1.19819	1.24360	1.28485	1.26025	1.21607	6.000
135 Bromoform	+++++	0.98251	0.83383	0.83364	0.86081	0.86592	0.84943	0.87102	6.455
136 Cyclohexanone	+++++	+++++	0.77254	+++++	0.74034	+++++	0.79974	0.77087	3.858
137 Cumene	3.31244	2.43826	2.67788	2.57786	2.55515	2.51886	2.44994	2.64720	11.497
138 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Bromobenzene	+++++	+++++	1.20025	+++++	0.86348	+++++	0.79562	0.95312	22.735
141 1,2,3-Trichloropropane	+++++	+++++	0.60661	+++++	0.41637	+++++	0.40381	0.47560	23.893
142 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chlorotoluene	+++++	+++++	0.80798	+++++	0.63952	+++++	0.59710	0.68153	16.367

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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
144 1,1,2,2-Tetrachloroethane	+++++	1.25414	1.25699	1.21631	1.18790	1.17594	1.13318	1.20407	3.989
145 Propylbenzene	+++++	2.99228	3.28361	3.22419	3.20755	3.25240	2.57117	3.08853	8.860
146 4-Chlorotoluene	+++++	+++++	0.79936	+++++	0.56591	+++++	0.54960	0.63829	21.891
147 4-Ethyltoluene	+++++	2.31358	2.44157	2.70938	2.77786	2.72804	2.52754	2.58300	7.152
148 1,3,5-Trimethylbenzene	2.32027	2.23246	2.44840	2.29895	2.28212	2.20400	2.13260	2.27412	4.392
149 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 tert-Butylbenzene	+++++	+++++	3.31774	+++++	2.79437	+++++	2.64782	2.91998	12.061
151 Pentachloroethane	+++++	+++++	0.79562	+++++	0.64734	+++++	0.62587	0.68961	13.403
152 sec-Butylbenzene	+++++	+++++	3.62733	+++++	3.23160	+++++	3.14031	3.33308	7.767
153 1,2,4-Trimethylbenzene	2.62764	2.57307	2.37578	2.40502	2.47618	2.45148	2.22193	2.44730	5.454

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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
154 p-Cymene	+++++	+++++	0.78523	+++++	0.77000	+++++	0.69764	0.75095	6.232
155 1,2,3-Trimethylbenzene	+++++	+++++	0.98281	+++++	0.97914	+++++	0.91611	0.95935	3.908
156 1,3-Dichlorobenzene	+++++	1.41045	1.57087	1.43494	1.41099	1.40277	1.33115	1.42686	5.524
157 1,4-Dichlorobenzene	+++++	2.52971	2.20264	1.89138	1.81366	1.78511	1.53673	1.95987	17.957
158 alpha-Chlorotoluene	+++++	1.91441	1.74234	1.87482	1.96061	1.90470	1.93713	1.88900	4.104
159 Butylbenzene	+++++	+++++	0.81894	+++++	0.85192	+++++	0.78692	0.81926	3.967
160 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dichlorobenzene	+++++	2.14290	1.84417	1.60119	1.54386	1.43781	1.38995	1.65998	17.174
162 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.77225	+++++	0.80349	+++++	0.80816	0.79463	2.457
166 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 1,2,4-Trichlorobenzene	+++++	+++++	2.45180	1.61262	1.62948	1.59859	1.55327	1.76915	21.630
168 Hexachlorobutadiene	+++++	+++++	1.76115	1.24316	1.16294	1.06821	0.99342	1.24578	24.337
169 Naphthalene	+++++	+++++	4.16566	2.94378	3.10435	2.98149	2.62433	3.16392	18.564
170 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-08jul.b/t14q626c.m
Cal Date : 08-Jul-2008 17:00 sdisher
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
199 Cyclopentane	+++++	+++++	1.59798	+++++	1.38761	+++++	1.36487	1.45015	8.863
$ 82 1,2-Dichloroethane-d4	1.70735	1.75338	1.73912	1.75477	1.73754	1.85717	1.94068	1.78429	4.675
$ 104 Toluene-d8	0.84717	0.82172	0.84780	0.90695	0.88394	0.92098	0.92786	0.87949	4.693
$ 140 Bromofluorobenzene	0.62627	0.61951	0.61708	0.64729	0.64815	0.64528	0.64001	0.63480	2.125

Calibration History

Method : /chem/msd8.i/8-08jul.b/t14q626c.m
Start Cal Date: 26-JUN-2008 15:42
End Cal Date : 08-JUL-2008 16:18

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
26-JUN-2008 15:42	AFCEElow	/chem/msd8.i/8-26jun.b/8062604.d
Cal Level: 2 , Cal Amount: 0.50000		
26-JUN-2008 16:10	AT08Low	/chem/msd8.i/8-26jun.b/8062605.d
Cal Level: 3 , Cal Amount: 2.00000		
08-JUL-2008 15:19	sp19c	/chem/msd8.i/8-08jul.b/8070807.d
01-JUL-2008 09:16	sp36b	/chem/msd8.i/8-01jul.b/8070102.d
26-JUN-2008 16:38	AT08mdl	/chem/msd8.i/8-26jun.b/8062606.d
Cal Level: 4 , Cal Amount: 25.00000		
26-JUN-2008 17:05	AT08mdl	/chem/msd8.i/8-26jun.b/8062607.d
Cal Level: 5 , Cal Amount: 50.00000		
08-JUL-2008 15:47	sp19c	/chem/msd8.i/8-08jul.b/8070808.d
01-JUL-2008 09:43	sp36b	/chem/msd8.i/8-01jul.b/8070103.d
26-JUN-2008 17:33	AT08mdl	/chem/msd8.i/8-26jun.b/8062608.d
Cal Level: 6 , Cal Amount: 100.00000		
26-JUN-2008 18:01	AT08mdl	/chem/msd8.i/8-26jun.b/8062609.d
Cal Level: 7 , Cal Amount: 200.00000		
08-JUL-2008 16:18	sp19c	/chem/msd8.i/8-08jul.b/8070809.d
01-JUL-2008 10:13	sp36b	/chem/msd8.i/8-01jul.b/8070104.d
26-JUN-2008 18:30	AT08mdl	/chem/msd8.i/8-26jun.b/8062610.d

+------------------+-----------------+--+

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000			
08-JUL-2008 09:20	AT08	/chem/msd8.i/8-08jul.b/8070803.d
Ccal Level: 5 , Ccal Amount: 50.000			
08-JUL-2008 08:52	sp36bCCV	/chem/msd8.i/8-08jul.b/8070802.d
Ccal Level: 5 , Ccal Amount: 50.000			
08-JUL-2008 15:47	sp19cCCV	/chem/msd8.i/8-08jul.b/8070808a.d
Ccal Level: 5 , Ccal Amount: 50.000			
08-JUL-2008 15:47	sp19c	/chem/msd8.i/8-08jul.b/8070808.d

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

9800

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.84
75	30.0 – 60.0% of mass 95	55.14
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.12
173	Less than 2.0% of mass 174	(1.42)[1]
174	50.0 – 100% of mass 95	74.35
175	5.0 – 9.0% of mass 174	(7.56)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.86)[1]
177	5.0 – 9.0% of mass 176	(6.51)[2]

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

BFB Injection Date: 6/26/08
BFB Injection Time: 1418
BFB File ID: 80626001
Tekmar Purge Flow: 15.5 mL/min
Vacuum: 1.0 x 10-5

IS/S Std.#:	062-26	Exp. Date: 8/28/08
BCM	280527	
1,4-DFB	012106	
CB-d5	774104	

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

Verify 176/174 m/z Ratio: (1024512 / 1057280) x 100 = 96.86%

NOAH Cart #: NA **File #:** NA

Calculation Check:

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

File ID:	
~~Compound:~~	
Initials:	SS 6/27/08

Reported Result _____

Method: t14q626a.m

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	80626001	BFB Tune Check	1476-778	50psig	20ml	1.00	SS	6/26/08	1418	SS	
2	✓	02	System Blank	4214	Humid	50ml				1446	SS	
3	✓	03	↓	↓	↓	↓				1514	SS	
4	✓	04	ICAL Level 1	1612-34	0.3ppbv	0.3ml				1542	SS	T14q626a
5	✓	05	2	↓	0.5ppbv	0.5ml				1610	SS	
6	✓	06	3		2.0ppbv	2.0ml				1638	SS	
7	✓	07	4		25ppbv	25ml	↓	↓	↓	1705	SS	

Signature

6/26/08
Date

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

8	✓	806268	ICAL Level 5	1612-34	50ppbv	50ml	1.00	SS	6/26/08	1733	SS		0087
9	✓	09	6	1	100ppbv	100ml	1	1	1	1801	SS		
10	✓	10	7	1	200ppbv	200ml	↓	↓	↓	1830	SS		
11	X	11	System Blank	4214	Humid	200ml	1.00	SS	6/27/08	0738	SS		
12	✓	12	ICAL LCS	1796-336A	50ppbv	100ml	↓	↓	↓	0805	SS		ICAL LCS
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31											SS 6/26/08		

Comments: Flow Controller SN AA9506172 Nominal: 22.3 ml/min

NIST Flow Meter SN 200-7744 Exp 8/27/08 Actual: 25.0 ml/min

Signature

6/27/08
Date

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

0088

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.00
75	30.0 – 60.0% of mass 95	57.13
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.45
173	Less than 2.0% of mass 174	(1.49)[1]
174	50.0 – 100% of mass 95	74.78
175	5.0 – 9.0% of mass 174	(7.35)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.15)[1]
177	5.0 – 9.0% of mass 176	(6.34)[2]

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

Verify 176/174 m/z Ratio: 649280/682368X100 = 95.15

BFB Injection Date: 7-1-08
BFB Injection Time: 0837
BFB File ID: 8070101
Tekmar Purge Flow: 15.9mL/min
Vacuum: 8.6X10-6

IS/S Std.#: 1612-26	Exp. Date: 8-28-08
BCM	262106
1,4-DFB	954357
CB-d5	725367

Verified CCV IS vs ICAL mid-point (- 40%D) C.T. *initials*

NOAH Cart #: _____ **File #:** _____

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 456576\ )}{(\ 262106\ )} \times \frac{(\ 25\ )}{(\ 1.78429\ )} = 24.407$

Reported Result 24.407

File ID: 8070106
Compound: 1,2-DCA-d4
Initials: C.T.

Method: TH9626b

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8070101	BFB Tune Check	1476278	5psig	2ml	1.00	C.T.	7-1-08	0837	C.T.	
2	✓	02	ICAL Level 3 (200ppbv)	1541-200	2.0ppbv	2.0mL				0916	C.T.	TH9626b
3	✓	03	5 (200ppbv)		50ppbv	50mL				0943	C.T.	sp366CCV
4	✓	04	7 (200ppbv)	↓	200ppbv	200mL				1013	C.T.	
5	✓	05	~~CCV-1~~ CT-7-8-08 Lab Blank	4214	Humid	200mL				1106	C.T.	
6	✓	06	~~ICV-1~~ CT-7-8-08 (200ppbv)	1612-34	5psig	50mL				1133	C.T.	CCV
7	✓	07	LCS-1 (200ppbv)	1541-138	↓	↓	↓	↓	↓	1201	C.T.	

C Taylor
Signature

7-1-08
Date

6800

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.70
75	30.0 – 60.0% of mass 95	57.64
95	Base peak, 100.00% relative abundance	~~6.02~~ 100.00
96	5.0 – 9.0% of mass 95	6.02
173	Less than 2.0% of mass 174	(0.41)[1]
174	50.0 – 100% of mass 95	75.24
175	5.0 – 9.0% of mass 174	(7.73)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.64)[1]
177	5.0 – 9.0% of mass 176	(6.14)[2]

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

BFB Injection Date: 7-08-08
BFB Injection Time: 0833
BFB File ID: 807080
Tekmar Purge Flow: 15.9 mL/min
Vacuum: $9.5 * 10^{-6}$

IS/S Std.#:	1612-26	Exp. Date: 8-28-08
BCM	211494	
1,4-DFB	774038	
CB-d5	567266	

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

Verify 176/174 m/z Ratio: 642752/658304 * 100 = 97.64

NOAH Cart #: 8/11 **File #:** F070708/F070824

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 679963\ )}{(\ 774038\ )} \times \frac{(\ 25\ )}{(\ 0.87949\ )} = 24.934$

File ID:	80708O3
Compound:	Toluene-d8
Initials:	MR

Reported Result 24.934

7-8-08 CT

Method: T14q626 ~~A~~ / C

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8070801	BFB Tune Check	1476-27	50ng	2µL	1.00	MR	7-08-08	0833	MR/C.T.	
2	✓	8070802	CCVsp (200ppbv)	1541-200	50ppbv	50mL	1.00	MR	↓	0852	MR/C.T.	sp36b
3	✓	-03	CCV-1 (200ppbv)	1612-34	50ppbv	50mL	1.00	MR	↓	0920	MR/C.T.	
4	✓	-04	LCS (200ppbv)	1541-138	50ppbv	50mL	1.00	MR	↓	1028	MR/C.T.	
5	✓	8070805	LCSD (200ppbv)	↓	↓	↓	↓	↓	↓	1059	MR/C.T.	
6	X	8070806	CertCan#5 Leg#7	2915	Humid	200mL	1.00	MR	7-8-08	1156	MR/C.T.	
7		07	↓	↓	↓	↓	↓	↓	↓			

MR 7-8-08

Signature

7-8-08
Date

0090

8	✓	8070807	ICAL Level 3 (200ppb)	1541489	2.0 ppbv	2.0mL	1.00	WR	7-08-08	1519	WR/ CJ	TJ4a626C
9	✓	08	Level 5 (200ppb)	↓	50 ppbv	50mL	↓	↓	↓	1547	WR/ CJ.	Sp19CCU
10	✓	09	Level 7 (200ppb)	↓	200 ppbv	200mL	↓	↓	↓	1618	CJ.	
11	✓	10	Lab Blank	4214	Humid	200mL	1.00	↓	07/08/08	1729	C.T.	Cert Cart #15 Leg8
12	✓	11	0806491A-05A	34463	5.5"Hg-15psi	200mL	2.47	SS		1838	SS	TCE >300 ppbv
13	✓	12	06A	1491	5.5"Hg	↓	↓	↓		1924	SS	TCE >300 ppbv
14	✓	13	07A	36545	5.0"Hg		2.42			2006	SS	
15	✗	14	07AA	↓	↓		↓			2049	SS	
16	✓	15	08A	2063	4.0"Hg		2.33			2131	SS	
17	✓	16	09A	34154	7.0"Hg		2.64			2213	OM / LO	
18	✓	17	10A	35666	4.5"Hg		2.38			2256	↓	
19	✓	18	11A	30823	5.0"Hg		2.42		↓	2338		
20	✓	19	12A	2022	3.5"Hg	↓	2.29	↓	7/9/08	0021		'E' TCE >600
21	✓	20	System Blank	4214	200mL	Humid	1.00	OM		0108	↓	
22	✓	21	0806491A-07A	36554	200mL	1.5"Hg-15psi	5.15			0158	OM /	5.0"Hg-15psi repressurized
23	✓	22	0807074-01A	34492	200mL	4.5"Hg-5psi	1.58			0259	OM /	
24	✓	23	0806488-05A	5C48	↓	5.0"Hg-5psi 3.5"Hg-5psi	60.8			0341	OM /	
25	✓	24	↓ 05AA	↓	↓	↓	↓			0424	OM /	
26	✓	25	0806535B-03A	2068	5.0mL	4.0"Hg-15psi	93.2			0503	OM /	
27	✓	26	0807074-03A	439	5.0mL	58. 25"Hg-5psi	58.4			0534	OM /	
28	✓	27	03AA	↓	↓	↓	↓			0629	LO	
29	✓	28	05A	12943	20"Hg-5psi	4.0mL	72			0656	LO	
30	✓	29	04A	5706	↓	↓	↓			0724	LO	
31	✓	30	02A	22832	2.5"Hg-5psi	2 mL	292			0751	CJ	
	✓	31	0806505-01A	5526	5.0mL	15"Hg-15psi	[illegible] 16.2	OM	↓	0819	CJ.	DF = 292 16.2 7-9-08

Comments:

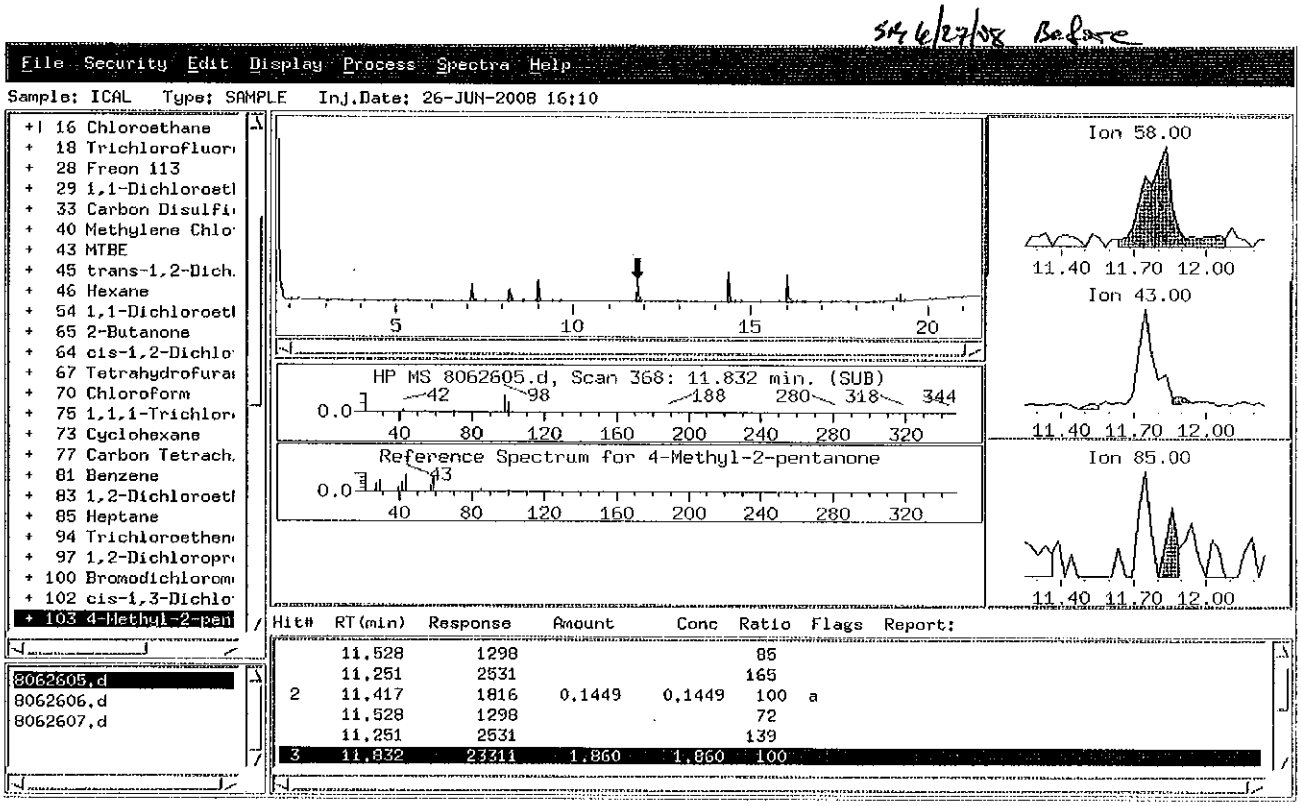
Signature: C Taylor

Date: 7-9-08

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-8 on 6-26-2008.

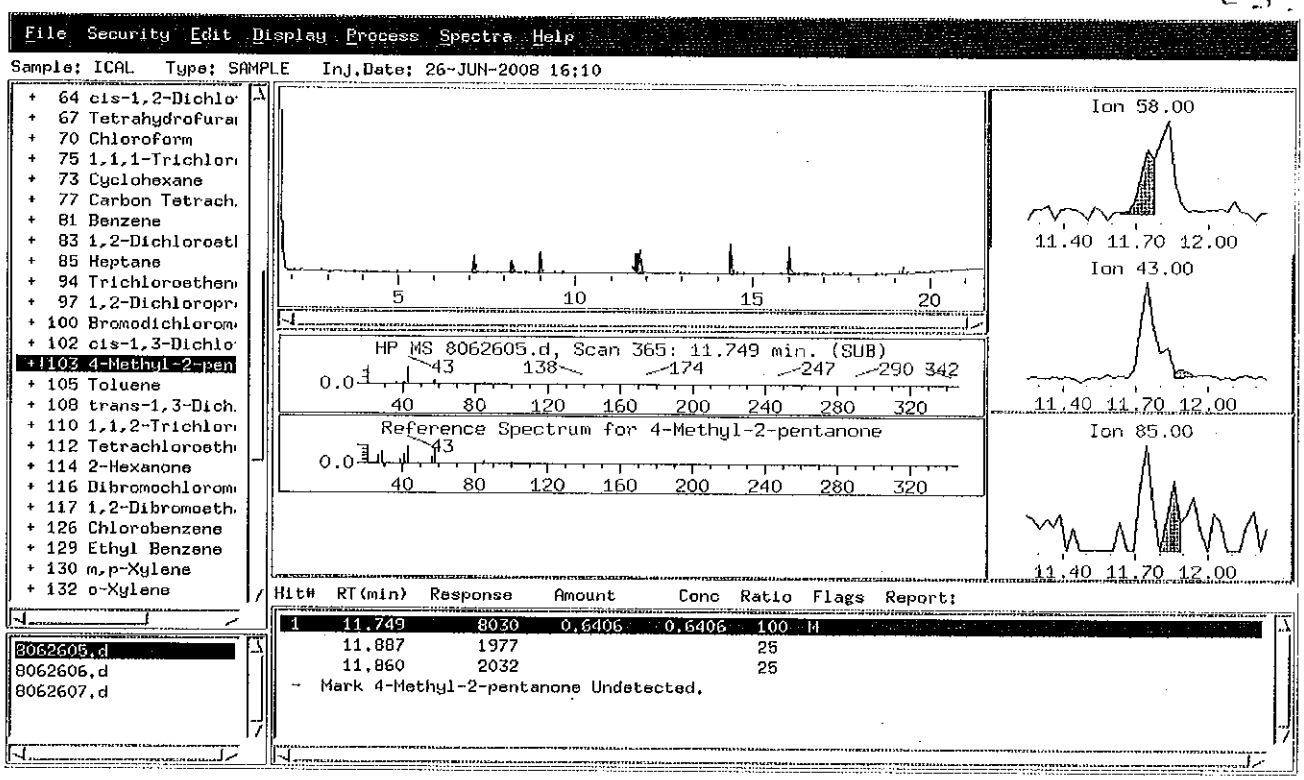
The following compounds used either 0.3ppbv as the lowest calibration concentration: Chloroform, Benzene, Cumene, 1,3-Butadiene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and 1,2-Dibromoethane.

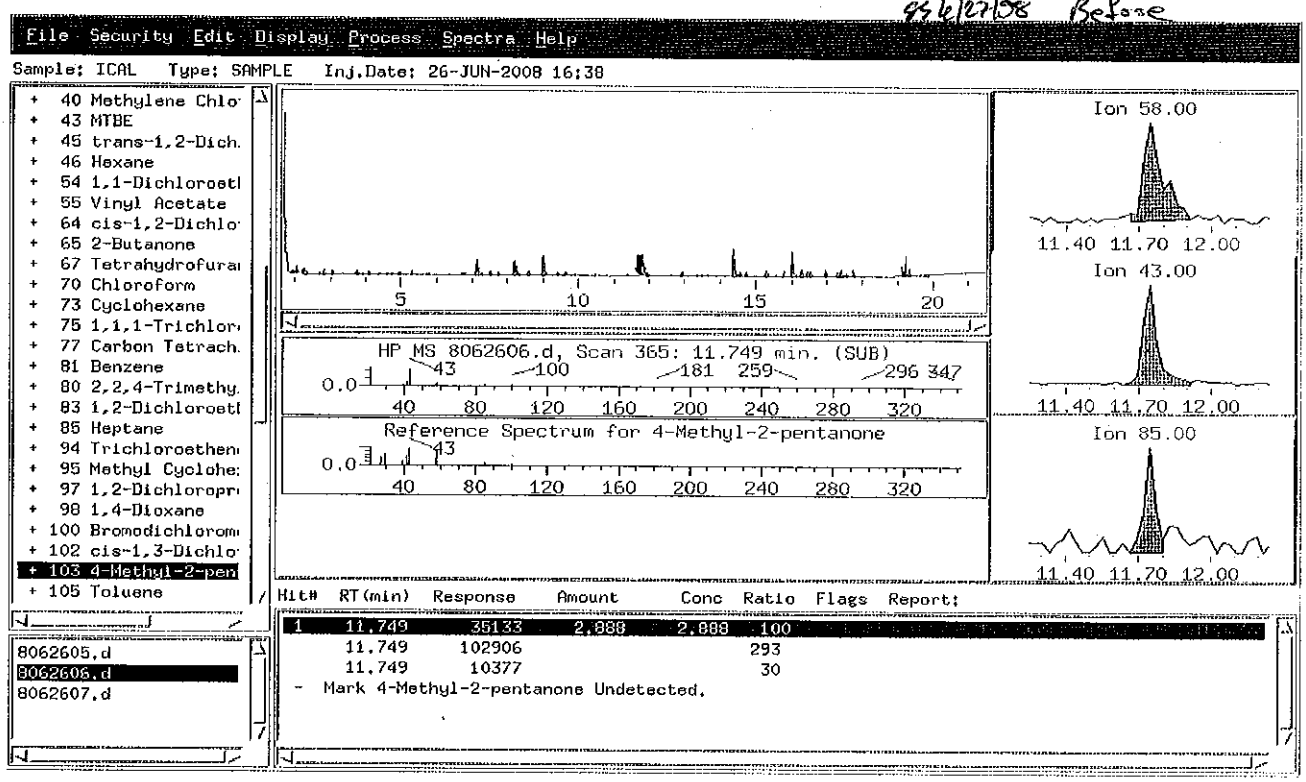

6/27/08 Before
File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 26-JUN-2008 16:10
+| 16 Chloroethane
+ 18 Trichlorofluor
+ 28 Freon 113
+ 29 1,1-Dichloroetl
+ 33 Carbon Disulfi
+ 40 Methylene Chlo
+ 43 MTBE
+ 45 trans-1,2-Dich.
+ 46 Hexane
+ 54 1,1-Dichloroetl
+ 65 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
5 10 15 20
HP MS 8062605.d, Scan 368: 11.832 min. (SUB)
42 98 188 280 318 344
0.0
40 80 120 160 200 240 280 320
Reference Spectrum for 4-Methyl-2-pentanone
43
0.0
40 80 120 160 200 240 280 320
Ion 58.00
11.40 11.70 12.00
Ion 43.00
11.40 11.70 12.00
Ion 85.00
11.40 11.70 12.00
8062605.d
8062606.d
8062607.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
11,528 1298 85
11,251 2531 165
2 11,417 1816 0,1449 0,1449 100 a
11,528 1298 72
11,251 2531 139
3 11,832 23311 1,860 1,860 100

Team VOC

Date / Initial	SS 6/27/08
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	✓

6-27-08

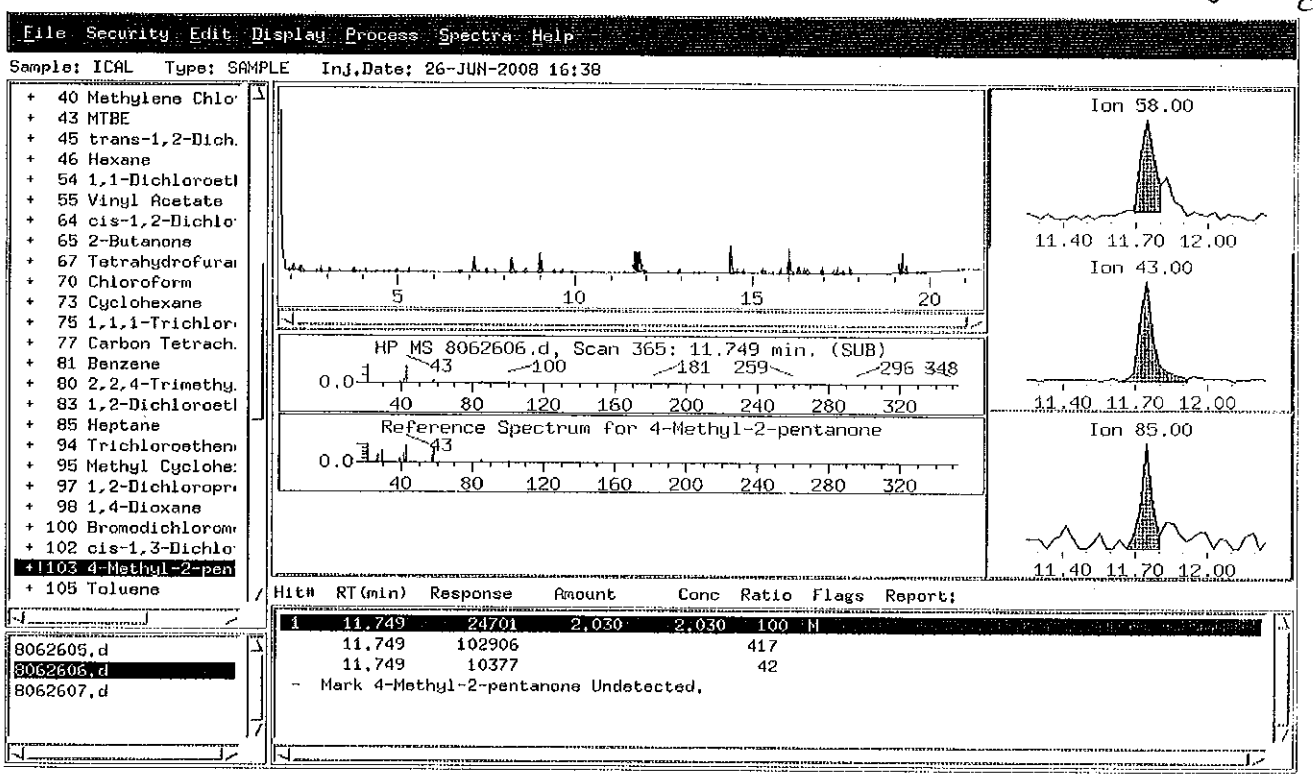



93/6/27/08 Before
File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 26-JUN-2008 16:38
+ 40 Methylene Chlo
+ 43 MTBE
+ 45 trans-1,2-Dich.
+ 46 Hexane
+ 54 1,1-Dichloroetl
+ 55 Vinyl Acetate
+ 64 cis-1,2-Dichlo
+ 65 2-Butanone
+ 67 Tetrahydrofura
+ 70 Chloroform
+ 73 Cyclohexane
+ 75 1,1,1-Trichlor
+ 77 Carbon Tetrach.
+ 81 Benzene
+ 80 2,2,4-Trimethy.
+ 83 1,2-Dichloroetl
+ 85 Heptane
+ 94 Trichloroethen
+ 95 Methyl Cyclohe:
+ 97 1,2-Dichloropr
+ 98 1,4-Dioxane
+ 100 Bromodichlorom
+ 102 cis-1,3-Dichlo
+ 103 4-Methyl-2-pen
+ 105 Toluene
5 10 15 20
HP MS 8062606.d, Scan 365: 11.749 min. (SUB)
43 100 181 259 296 347
0.0
40 80 120 160 200 240 280 320
Reference Spectrum for 4-Methyl-2-pentanone
43
0.0
40 80 120 160 200 240 280 320
Ion 58.00
11.40 11.70 12.00
Ion 43.00
11.40 11.70 12.00
Ion 85.00
11.40 11.70 12.00
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 11.749 35133 2.888 2.888 100
11.749 102906 293
11.749 10377 30
- Mark 4-Methyl-2-pentanone Undetected.
8062605.d
8062606.d
8062607.d

Team VOC

Date / Initial	4/16/08
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	✓

6-27-08 C.T.



Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15 Low Level
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
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
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/8-26jun.b/8062612.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 27-JUN-2008 08:05
Operator : cb Inst ID: msd8.i
Smp Info : 100mL #1576-336A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:39 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 18:30 Cal File: 8062610.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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.132 (1.000)	130	294907	25.0000		80.00- 120.00	100.00
7.131	7.132 (1.000)	128	228831			45.69- 105.69	77.59
7.131	7.132 (1.000)	49	635741			174.17- 234.17	215.57
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1111521	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	183229			0.00- 46.10	16.48
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	868529	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	522211			0.00- 30.00	60.13
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	522953	24.8458	24.846	80.00- 120.00	100.00
8.182	8.210 (1.147)	67	285446			0.00- 30.00	54.58
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1007851	25.7744	25.774	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	122589			0.00- 30.00	12.16

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	721346			0.00- 30.00	71.57
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	564116	25.5792	25.579	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	773314			111.32- 171.32	137.08
16.035	16.035 (1.115)	176	558392			70.84- 130.84	98.99
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	1216317	45.7138	45.714	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	796315			0.00- 30.00	65.47
1.906	1.906 (0.267)	39	874661			0.00- 30.00	71.91
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	2489103	40.8881	40.888	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	788142			0.00- 30.00	31.66
6 Freon 114					CAS #: 76-14-2		
2.072	2.044 (0.290)	135	1711809	38.7471	38.747	80.00- 120.00	100.00
2.072	2.044 (0.290)	137	551046			0.75- 60.75	32.19
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	1286474	45.3287	45.329	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	382604			0.00- 30.00	29.74
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	1224955	41.1858	41.186	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	374894			0.00- 30.00	30.60
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	1101741	39.3723	39.372	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	857819			0.00- 30.00	77.86
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	767640	43.0715	43.072	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	702240			63.37- 123.37	91.48
16 Chloroethane					CAS #: 75-00-3		
2.790	2.791 (0.391)	64	573383	44.1453	44.145	80.00- 120.00	100.00
2.790	2.791 (0.391)	49	196438			0.00- 30.00	34.26
2.790	2.791 (0.391)	66	184144			0.00- 30.00	32.12
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	2489411	39.1325	39.132	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	1609139			35.14- 95.14	64.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.343	3.344 (0.469)	45	490099	41.8997	41.900	80.00- 120.00	100.00
3.371	3.344 (0.473)	43	112420			0.00- 30.00	22.94
3.371	3.344 (0.473)	46	198361			0.00- 30.00	40.47
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1573302	44.8851	44.885	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	1000460			35.65- 95.65	63.59
3.758	3.758 (0.527)	101	1982008			97.12- 157.12	125.98
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	1910265	45.8562	45.856	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	928867			20.51- 80.51	48.63
3.786	3.786 (0.531)	98	606156			2.67- 62.67	31.73
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	707447	54.6848	54.685	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	2557625			0.00- 30.00	361.53
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	2139343	41.8610	41.861	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	502267			0.00- 30.00	23.48
4.118	4.118 (0.577)	59	69545			0.00- 30.00	3.25
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	2846753	39.8864	39.886	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.367 (0.612)	76	455146	45.1380	45.138	80.00- 120.00	100.00
4.366	4.367 (0.612)	41	1930075			0.00- 30.00	424.06
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	1618974	44.7580	44.758	80.00- 120.00	100.00
4.615	4.588 (0.647)	84	855635			23.97- 83.97	52.85
4.588	4.588 (0.643)	51	476904			0.00- 30.00	29.46
43 MTBE					CAS #: 1634-04-4		
4.919	4.920 (0.690)	73	2409184	43.6317	43.632	80.00- 120.00	100.00
4.919	4.920 (0.690)	57	713642			0.00- 58.88	29.62
4.919	4.920 (0.690)	41	848965			0.00- 30.00	35.24
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	963177	39.6973	39.697	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1736500			143.16- 203.16	180.29
4.975	4.975 (0.698)	98	615646			0.00- 30.00	63.92

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	2037636	44.2899	44.290	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	1539569			0.00- 30.00	75.56
5.307	5.307 (0.744)	86	275675			0.00- 30.00	13.53
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	1985912	42.9633	42.963	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	588173			0.00- 59.09	29.62
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	211169	43.7149	43.715	80.00- 120.00	100.00
5.777	5.804 (0.810)	43	3334530			0.00- 30.00	1579.08
5.777	5.804 (0.810)	42	299678			0.00- 30.00	141.91
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	443450	46.5849	46.585	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	2603986			581.97- 641.97	587.21
6.772	6.772 (0.950)	57	175766			0.00- 30.00	39.64
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1460469	43.7163	43.716	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	877639			31.74- 91.74	60.09
6.717	6.717 (0.942)	98	567436			9.91- 69.91	38.85
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.132 (1.000)	42	1515772	41.6388	41.639	80.00- 120.00	100.00
7.131	7.132 (1.000)	71	377144			0.00- 56.52	24.88
7.131	7.132 (1.000)	72	401897			0.00- 30.00	26.51
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	1751852	40.2307	40.231	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	1130248			34.39- 94.39	64.52
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1839142	42.9399	42.940	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1177741			33.81- 93.81	64.04
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	1292777	44.8094	44.809	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1941526			124.01- 184.01	150.18
7.491	7.491 (1.050)	41	1294635			72.72- 132.72	100.14
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	1747240	43.7321	43.732	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	1817375			72.33- 132.33	104.01

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	5784939	44.2309	44.231	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	1837982			0.00- 30.00	31.77
8.210	8.210 (1.151)	41	1834447			0.00- 30.00	31.71
81 Benzene					CAS #: 71-43-2		
8.154	8.155 (0.905)	78	2601709	41.5865	41.586	80.00- 120.00	100.00
8.154	8.155 (0.905)	77	650498			0.00- 30.00	25.00
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1495104	42.8318	42.832	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	456404			0.00- 30.00	30.53
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	287829	41.5327	41.533	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	2373787			0.00- 30.00	824.72
8.597	8.597 (0.954)	71	913828			0.00- 30.00	317.49
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1031208	40.8689	40.869	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	982943			61.15- 121.15	95.32
9.399	9.399 (1.043)	97	651704			30.36- 90.36	63.20
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.897 (1.098)	63	947162	41.2313	41.231	80.00- 120.00	100.00
9.896	9.897 (1.098)	62	660801			39.09- 99.09	69.77
9.896	9.897 (1.098)	41	830460			62.28- 122.28	87.68
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	506074	41.8237	41.824	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	468032			60.77- 120.77	92.48
10.145	10.145 (1.126)	57	169554			0.00- 30.00	33.50
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.450 (1.160)	83	1669095	42.6849	42.685	80.00- 120.00	100.00
10.449	10.450 (1.160)	85	1044588			32.83- 92.83	62.58
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.390 (1.264)	75	1180464	43.0705	43.070	80.00- 120.00	100.00
11.389	11.390 (1.264)	77	372545			1.15- 61.15	31.56
11.389	11.390 (1.264)	39	1018899			59.41- 119.41	86.31
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	732970	42.9478	42.948	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	2275965			0.00- 30.00	310.51
11.749	11.749 (1.304)	85	252690			0.00- 30.00	34.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	2667226	45.9346	45.934	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1517747			28.57- 88.57	56.90
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1293741	44.8277	44.828	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	385223			1.52- 61.52	29.78
12.606	12.606 (0.877)	39	1011033			49.92- 109.92	78.15
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	792603	42.0824	42.082	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	499431			30.92- 90.92	63.01
12.910	12.910 (0.898)	83	697786			57.10- 117.10	88.04
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1182706	41.3362	41.336	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	831084			42.21- 102.21	70.27
12.938	12.938 (0.900)	131	829312			39.27- 99.27	70.12
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	867124	38.3623	38.362	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1973821			200.42- 260.42	227.63
13.353	13.353 (0.929)	100	138614			0.00- 30.00	15.99
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1330554	44.4673	44.467	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1042727			0.00- 30.00	78.37
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1293813	41.1982	41.198	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1211773			64.07- 124.07	93.66
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	2082218	43.1686	43.168	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	607273			0.00- 59.64	29.16
14.403	14.403 (1.002)	77	1339817			37.48- 97.48	64.35
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	992956	41.6607	41.661	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	3425690			0.00- 30.00	345.00
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1277224	42.7563	42.756	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2842883			0.00- 30.00	222.58
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1312075	45.9396	45.940	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	3030595			201.90- 261.90	230.98
134 Styrene					CAS #: 100-42-5		
15.343	15.344 (1.067)	104	1620788	38.3640	38.364	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	947308			27.42- 87.42	58.45
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1327543	43.8708	43.871	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	698626			21.24- 81.24	52.63
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1850493	44.2374	44.237	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1195694			33.48- 93.48	64.61
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	4164600	46.4093	46.409	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1164921			0.00- 58.65	27.97
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	3211716	40.6518	40.652	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1490374			0.00- 30.00	46.40
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3496824	41.1285	41.128	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1511593			12.98- 72.98	43.23
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2168533	43.7462	43.746	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1396209			0.00- 30.00	64.38
17.279	17.279 (1.202)	111	984274			0.00- 30.00	45.39
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.390 (1.210)	146	2814936	41.3425	41.342	80.00- 120.00	100.00
17.389	17.390 (1.210)	148	1752356			0.00- 30.00	62.25
17.389	17.390 (1.210)	111	1170588			0.00- 30.00	41.58
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	2868105	43.7038	43.704	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	540540			0.00- 30.00	18.85
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2303181	39.9375	39.937	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1446543			32.86- 92.86	62.81
17.749	17.749 (1.235)	111	1075536			17.88- 77.88	46.70

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	2424442	39.4459	39.446	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2323323			65.23- 125.23	95.83
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1724990	39.8568	39.857	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	1088990			34.36- 94.36	63.13
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	4958910	46.2157	46.216	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1099298			0.00- 30.00	22.17
16.311	16.311 (1.135)	105	175411			0.00- 30.00	3.54
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	4067083	44.2234	44.223	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1065502			0.00- 30.00	26.20
15.786	15.786 (1.098)	51	613333			0.00- 30.00	15.08
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	3233354	29.4160	29.416	80.00- 120.00	100.00(R)
19.325	19.325 (1.344)	127	397091			0.00- 30.00	12.28
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1491490	40.8411	40.841	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	518334			0.00- 30.00	34.75
4.726	4.726 (0.663)	57	158613			0.00- 30.00	10.63
9 Butane					CAS #: 106-97-8		
2.237	2.238 (0.314)	58	272170	41.6495	41.650	80.00- 120.00	100.00
2.237	2.238 (0.314)	43	2374585			0.00- 30.00	872.46
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	1861973	43.2357	43.236	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	1090744			0.00- 30.00	58.58
2.818	2.818 (0.395)	72	98922			0.00- 30.00	5.31
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	1566583	43.8808	43.881	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	709313			0.00- 30.00	45.28
9.620	9.620 (1.349)	55	1737567			0.00- 30.00	110.91

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: 8062612.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	294907	5.10
88 1,4-Difluorobenze	1012106	607264	1416948	1111521	9.82
125 Chlorobenzene-d5	774104	464462	1083746	868529	12.20

		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: 27-Jun-2008 08:41

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-26jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE	COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134	Styrene	50.000	38.364	76.73	70-130
108	trans-1,3-Dichloro	50.000	44.828	89.66	70-130
3	Propylene	50.000	45.714	91.43	60-140
4	Dichlorodifluorome	50.000	40.888	81.78	70-130
6	Freon 114	50.000	38.747	77.49	70-130
8	Chloromethane	50.000	45.329	90.66	70-130
11	Vinyl Chloride	50.000	41.186	82.37	70-130
10	1,3-Butadiene	50.000	39.372	78.74	60-140
13	Bromomethane	50.000	43.072	86.14	70-130
16	Chloroethane	50.000	44.145	88.29	70-130
18	Trichlorofluoromet	50.000	39.132	78.26	70-130
23	Ethanol	50.000	41.900	83.80	60-140
28	Freon 113	50.000	44.885	89.77	70-130
29	1,1-Dichloroethene	50.000	45.856	91.71	70-130
30	Acetone	50.000	54.685	109.37	60-140
33	Carbon Disulfide	50.000	39.886	79.77	60-140
34	2-Propanol	50.000	41.861	83.72	60-140
40	Methylene Chloride	50.000	44.758	89.52	70-130
43	MTBE	50.000	43.632	87.26	60-140
45	trans-1,2-Dichloro	50.000	39.697	79.39	60-140
46	Hexane	50.000	44.290	88.58	60-140
54	1,1-Dichloroethane	50.000	42.963	85.93	70-130
55	Vinyl Acetate	50.000	43.715	87.43	60-140
64	cis-1,2-Dichloroet	50.000	43.716	87.43	70-130
65	2-Butanone	50.000	46.585	93.17	60-140
67	Tetrahydrofuran	50.000	41.639	83.28	60-140
70	Chloroform	50.000	40.231	80.46	70-130
73	Cyclohexane	50.000	44.809	89.62	60-140
75	1,1,1-Trichloroeth	50.000	42.940	85.88	70-130
77	Carbon Tetrachlori	50.000	43.732	87.46	70-130
81	Benzene	50.000	41.586	83.17	70-130
83	1,2-Dichloroethane	50.000	42.832	85.66	70-130
85	Heptane	50.000	41.533	83.07	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	40.869	81.74	70-130
97 1,2-Dichloropropan	50.000	41.231	82.46	70-130
98 1,4-Dioxane	50.000	41.824	83.65	60-140
100 Bromodichlorometha	50.000	42.685	85.37	60-140
102 cis-1,3-Dichloropr	50.000	43.070	86.14	70-130
103 4-Methyl-2-pentano	50.000	42.948	85.90	60-140
105 Toluene	50.000	45.934	91.87	70-130
110 1,1,2-Trichloroeth	50.000	42.082	84.16	70-130
112 Tetrachloroethene	50.000	41.336	82.67	70-130
114 2-Hexanone	50.000	38.362	76.72	60-140
116 Dibromochlorometha	50.000	44.467	88.93	60-140
117 1,2-Dibromoethane	50.000	41.198	82.40	70-130
126 Chlorobenzene	50.000	43.168	86.34	70-130
129 Ethyl Benzene	50.000	41.661	83.32	70-130
130 m,p-Xylene	50.000	42.756	85.51	70-130
132 o-Xylene	50.000	45.940	91.88	70-130
135 Bromoform	50.000	43.871	87.74	60-140
144 1,1,2,2-Tetrachlor	50.000	44.237	88.47	70-130
147 4-Ethyltoluene	50.000	46.409	92.82	60-140
148 1,3,5-Trimethylben	50.000	40.652	81.30	70-130
153 1,2,4-Trimethylben	50.000	41.128	82.26	70-130
156 1,3-Dichlorobenzen	50.000	43.746	87.49	70-130
157 1,4-Dichlorobenzen	50.000	41.342	82.68	70-130
158 alpha-Chlorotoluen	50.000	43.704	87.41	70-130
161 1,2-Dichlorobenzen	50.000	39.937	79.87	70-130
167 1,2,4-Trichloroben	50.000	39.446	78.89	70-130
168 Hexachlorobutadien	50.000	39.857	79.71	70-130
137 Cumene	50.000	44.223	88.45	60-140
145 Propylbenzene	50.000	46.216	92.43	60-140
37 3-Chloropropene	50.000	45.138	90.28	60-140
80 2,2,4-Trimethylpen	50.000	44.231	88.46	60-140
169 Naphthalene	50.000	29.416	58.83*	60-140
9 Butane	50.000	41.650	83.30	70-130
15 Isopentane	50.000	43.236	86.47	70-130
95 Methyl Cyclohexane	50.000	43.881	87.76	70-130
38 tert-Butyl-Alcohol	50.000	40.841	81.68	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	24.846	99.38	70-130
$ 104 Toluene-d8	25.000	25.774	103.10	70-130
$ 140 Bromofluorobenzene	25.000	25.579	102.32	70-130

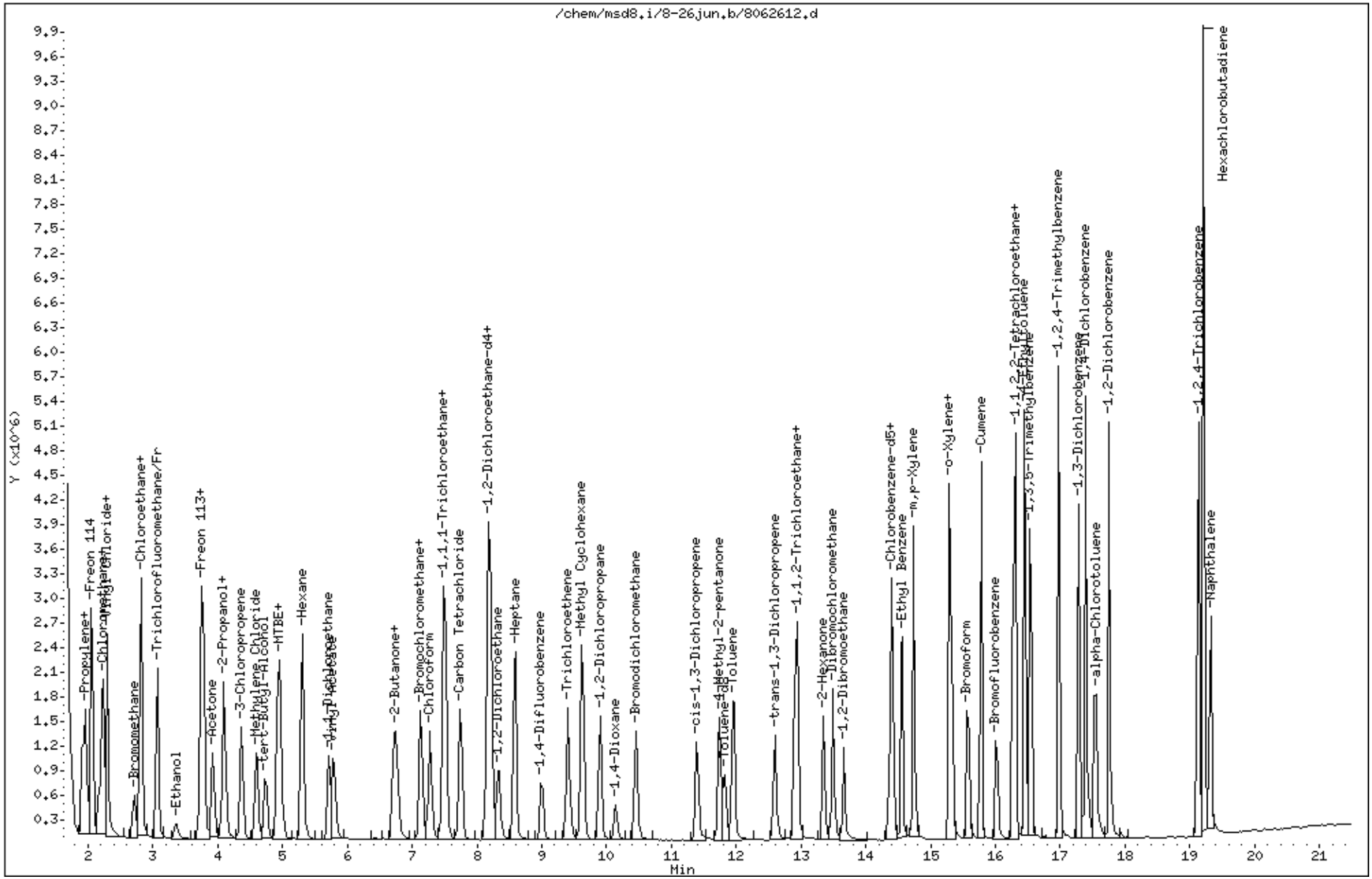
0109

Data File: /chem/msd8.i/8-26jun.b/8062612.d
Date : 27-JUN-2008 08:05
Client ID: LCS-1
Sample Info: 100mL #1576-336A

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062604.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 26-JUN-2008 15:42
Operator : cb Inst ID: msd8.i
Smp Info : 0.3mL #1612-34
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:42 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 15:42 Cal File: 8062604.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		
7.159	7.132 (1.000)	130	264185	25.0000		80.00- 120.00	100.00
7.131	7.132 (1.000)	128	201095			45.69- 105.69	76.12
7.131	7.132 (1.000)	49	585535			174.17- 234.17	221.64
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	962281	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	151661			0.00- 46.10	15.76
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	720641	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	462036			0.00- 30.00	64.11
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	451055	25.0000	24.781	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	214583			0.00- 30.00	47.57
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	815218	25.0000	24.469	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	99450			0.00- 30.00	12.20

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	517117			0.00- 30.00	63.43
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	451314	25.0000	24.571	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	600456			111.32- 171.32	133.05
16.035	16.035 (1.115)	176	435835			70.84- 130.84	96.57
70 Chloroform					CAS #: 67-66-3		
7.297	7.270 (1.019)	83	15183	0.30000	0.3669	80.00- 120.00	100.00(a)
7.270	7.270 (1.015)	85	13623			34.39- 94.39	89.73
81 Benzene					CAS #: 71-43-2		
8.182	8.155 (0.908)	78	20020	0.30000	0.3491	80.00- 120.00	100.00(a)
8.155	8.155 (0.905)	77	5480			0.00- 30.00	27.37
134 Styrene					CAS #: 100-42-5		
15.343	15.344 (1.067)	104	15085	0.30000	0.4208	80.00- 120.00	100.00(a)
15.343	15.344 (1.067)	78	9620			27.42- 87.42	63.77
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	28645	0.30000	0.3387	80.00- 120.00	100.00(a)
15.786	15.786 (1.098)	120	7619			0.00- 30.00	26.60
15.786	15.786 (1.098)	51	3828			0.00- 30.00	13.36
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	8364	0.30000	0.3209	80.00- 120.00	100.00(a)
13.657	13.657 (0.950)	109	9653			64.07- 124.07	115.41
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.320)	54	11183	0.30000	0.3915	80.00- 120.00	100.00(a)
2.293	2.293 (0.320)	39	7873			0.00- 30.00	70.40
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	20065	0.30000	0.3025	80.00- 120.00	100.00(a)
16.560	16.532 (1.152)	120	12571			0.00- 30.00	62.65
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	22723	0.30000	0.3089	80.00- 120.00	100.00(a)
16.975	16.975 (1.181)	120	10848			12.98- 72.98	47.74

QC Flag Legend

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

Report Date: 30-Jun-2008 09:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062604.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	264185	-5.85
88 1,4-Difluorobenze	1012106	607264	1416948	962281	-4.92
125 Chlorobenzene-d5	774104	464462	1083746	720641	-6.91

		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.

Data File: /chem/msd8.i/8-26jun.b/8062604.d

Date : 26-JUN-2008 15:42

Client ID: Level 1

Sample Info: 0.3mL #1612-34

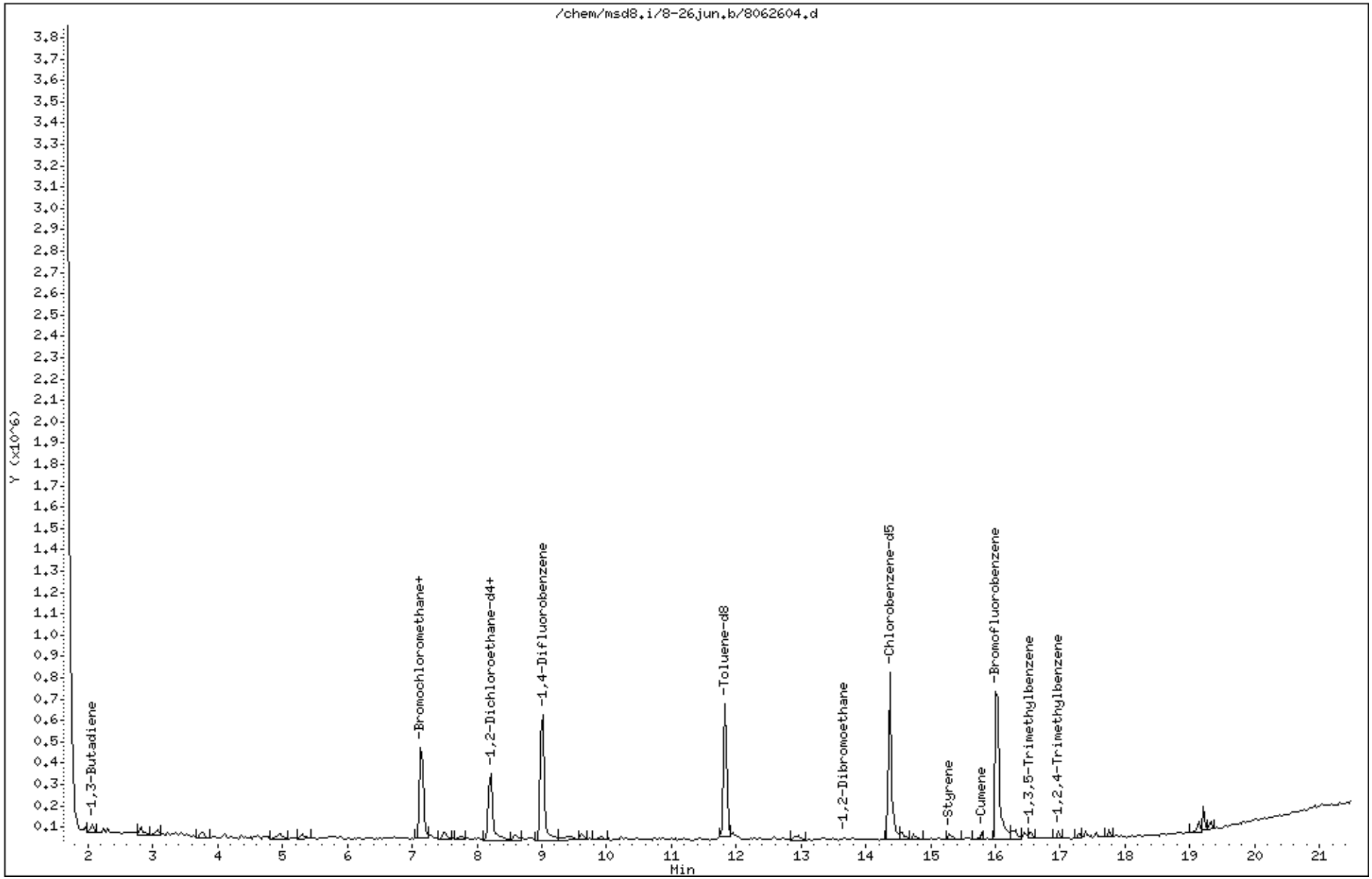
Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53

0113



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062605.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 26-JUN-2008 16:10
Operator : cb Inst ID: msd8.i
Smp Info : 0.5mL #1612-34
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:38 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 16:10 Cal File: 8062605.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		
7.131	7.131 (1.000)	130	261299	25.0000		70.00- 130.00	100.00
7.131	7.131 (1.000)	128	197109			45.69- 105.69	75.43
7.131	7.131 (1.000)	49	568614			174.17- 234.17	217.61
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	965098	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	152559			0.00- 46.10	15.81
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	716227	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	436729			0.00- 30.00	60.98
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	458157	25.0000	25.298	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	210701			0.00- 30.00	45.99
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	793039	25.0000	24.141	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	107172			0.00- 30.00	13.51

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	510838			0.00- 30.00	64.42
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	443712	25.0000	24.533	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	585228			111.32- 171.32	131.89
16.035	16.035 (1.115)	176	415345			70.84- 130.84	93.61
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	32026	0.50000	0.5698	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	11863			0.00- 30.00	37.04
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	24783	0.50000	0.5983	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	10095			0.75- 60.75	40.73
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.325)	62	16210	0.50000	0.5833	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	6793			0.00- 30.00	41.91
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	13046	0.50000	0.4739	70.00- 130.00	100.00(a)
2.293	2.293 (0.322)	39	12648			0.00- 30.00	96.95
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	10521	0.50000	0.6031	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	11656			63.37- 123.37	110.79
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.399)	64	5139	0.50000	0.4794	70.00- 130.00	100.00(aH)
2.846	2.846 (0.399)	49	3309			0.00- 30.00	64.39
2.818	2.818 (0.395)	66	2614			0.00- 30.00	50.87
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	37709	0.50000	0.6156	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	23121			35.14- 95.14	61.31
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	21424	0.50000	0.6171	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	15555			35.65- 95.65	72.61
3.758	3.758 (0.527)	101	25062			97.12- 157.12	116.98
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	23464	0.50000	0.5948	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	10966			20.51- 80.51	46.74
3.786	3.786 (0.531)	98	8146			2.67- 62.67	34.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	43039	0.50000	0.6146	70.00- 130.00	100.00
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	21702	0.50000	0.6110	70.00- 130.00	100.00
4.615	4.615 (0.647)	84	12392			23.97- 83.97	57.10
4.615	4.615 (0.647)	51	8359			0.00- 30.00	38.52
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.694)	73	29390	0.50000	0.5687	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	11311			0.00- 58.88	38.49
4.920	4.920 (0.690)	41	15247			0.00- 30.00	51.88
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	14871	0.50000	0.6188	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	25518			143.16- 203.16	171.60
4.975	4.975 (0.698)	98	7692			0.00- 30.00	51.72
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	22578	0.50000	0.5453	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	16400			0.00- 30.00	72.64
5.307	5.307 (0.744)	86	7691			0.00- 30.00	34.06
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	27638	0.50000	0.6119	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	7679			0.00- 59.09	27.78
65 2-Butanone					CAS #: 78-93-3		
6.800	6.800 (0.953)	72	4524	0.50000	0.5423	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	27942			581.97- 641.97	617.64
6.772	6.772 (0.950)	57	4356			0.00- 30.00	96.29
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	18681	0.50000	0.5942	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	13517			31.74- 91.74	72.36
6.717	6.717 (0.942)	98	9716			9.91- 69.91	52.01
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	19775	0.50000	0.5826	70.00- 130.00	100.00
7.159	7.159 (1.004)	71	6538			0.00- 56.52	33.06
7.131	7.131 (1.000)	72	9447			0.00- 30.00	47.77
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	22958	0.50000	0.5390	70.00- 130.00	100.00
7.297	7.297 (1.023)	85	15422			34.39- 94.39	67.17

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 (1.054)	97	22793	0.50000	0.5722	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	15790			33.81- 93.81	69.28
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	14517	0.50000	0.5579	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	23020			124.01- 184.01	158.57
7.491	7.491 (1.050)	41	16400			72.72- 132.72	112.97
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	18129	0.50000	0.5244	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	22492			72.33- 132.33	124.07
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	30691	0.50000	0.5219	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	8694			0.00- 30.00	28.33
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	19216	0.50000	0.5825	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	7261			0.00- 30.00	37.79
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	4590	0.50000	0.6430	70.00- 130.00	100.00
8.569	8.569 (0.951)	43	24293			0.00- 30.00	529.26
8.597	8.597 (0.954)	71	9774			0.00- 30.00	212.94
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	14209	0.50000	0.5910	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	14454			61.15- 121.15	101.72
9.399	9.399 (1.043)	97	11000			30.36- 90.36	77.42
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	12352	0.50000	0.5832	70.00- 130.00	100.00
9.924	9.924 (1.101)	62	10640			39.09- 99.09	86.14
9.896	9.896 (1.098)	41	10947			62.28- 122.28	88.63
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	21924	0.50000	0.5885	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	13413			32.83- 92.83	61.18
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.417	11.417 (1.267)	75	14509	0.50000	0.5720	70.00- 130.00	100.00
11.417	11.417 (1.267)	77	5131			1.15- 61.15	35.36
11.417	11.417 (1.267)	39	15644			59.41- 119.41	107.82
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	8029	0.50000	0.5194	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)							
11.887	11.887 (1.319)	43	1977			0.00- 30.00	24.62
11.860	11.860 (1.316)	85	2032			0.00- 30.00	25.31
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	29803	0.50000	0.5634	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	16395			28.57- 88.57	55.01
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	14051	0.50000	0.5508	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	5006			1.52- 61.52	35.63
12.606	12.606 (0.877)	39	14861			49.92- 109.92	105.76
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	8849	0.50000	0.5503	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	6650			30.92- 90.92	75.15
12.910	12.910 (0.898)	83	10297			57.10- 117.10	116.36
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	16573	0.50000	0.6132	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	11286			42.21- 102.21	68.10
12.938	12.938 (0.900)	131	10690			39.27- 99.27	64.50
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	8578	0.50000	0.4456	70.00- 130.00	100.00(a)
13.353	13.353 (0.929)	43	21517			200.42- 260.42	250.84
13.353	13.353 (0.929)	100	5952			0.00- 30.00	69.39
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	13476	0.50000	0.5238	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	12752			0.00- 30.00	94.63
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	15324	0.50000	0.5575	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	15951			64.07- 124.07	104.09
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	22632	0.50000	0.5537	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	11036			0.00- 59.64	48.76
14.403	14.403 (1.002)	77	22705			37.48- 97.48	100.32
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	11209	0.50000	0.5424	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	37955			0.00- 30.00	338.61
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	13812	0.50000	0.5374	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	29973			0.00- 30.00	217.01
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	11704	0.50000	0.5006	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	30036			201.90- 261.90	256.63
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	17620	0.50000	0.4973	70.00- 130.00	100.00(a)
15.316	15.316 (1.065)	78	9750			27.42- 87.42	55.33
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	14074	0.50000	0.5330	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	7770			21.24- 81.24	55.21
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	17965	0.50000	0.5136	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	13982			33.48- 93.48	77.83
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	33141	0.50000	0.4544	70.00- 130.00	100.00(a)
16.449	16.449 (1.144)	120	12984			0.00- 58.65	39.18
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	31979	0.50000	0.4899	70.00- 130.00	100.00(a)
16.560	16.560 (1.152)	120	12548			0.00- 30.00	39.24
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	36858	0.50000	0.5028	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	15413			12.98- 72.98	41.82
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.306	17.306 (1.204)	146	20204	0.50000	0.4999	70.00- 130.00	100.00(a)
17.306	17.306 (1.204)	148	13764			0.00- 30.00	68.13
17.279	17.279 (1.202)	111	10815			0.00- 30.00	53.53
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	36237	0.50000	0.5824	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	24626			0.00- 30.00	67.96
17.389	17.389 (1.210)	111	16268			0.00- 30.00	44.89
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	27423	0.50000	0.4940	70.00- 130.00	100.00(a)
17.528	17.528 (1.219)	126	5453			0.00- 30.00	19.88
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	30696	0.50000	0.5812	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	18970			32.86- 92.86	61.80
17.749	17.749 (1.235)	111	13220			17.88- 77.88	43.07
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	34927	0.50000	0.4403	70.00- 130.00	100.00(a)
15.786	15.786 (1.098)	120	10368			0.00- 30.00	29.68
15.786	15.786 (1.098)	51	4585			0.00- 30.00	13.13
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	42863	0.50000	0.4826	70.00- 130.00	100.00(a)
16.311	16.311 (1.135)	120	11239			0.00- 30.00	26.22
16.311	16.311 (1.135)	105	4069			0.00- 30.00	9.49
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	68098	0.50000	0.5650	70.00- 130.00	100.00
8.182	8.182 (1.147)	56	21027			0.00- 30.00	30.88
8.182	8.182 (1.147)	41	19839			0.00- 30.00	29.13
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	20264	0.50000	0.5954	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	10928			0.00- 30.00	53.93
9.620	9.620 (1.349)	55	23902			0.00- 30.00	117.95

QC Flag Legend

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

Report Date: 27-Jun-2008 08:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062605.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	261299	-6.88
88 1,4-Difluorobenze	1012106	607264	1416948	965098	-4.64
125 Chlorobenzene-d5	774104	464462	1083746	716227	-7.48

		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

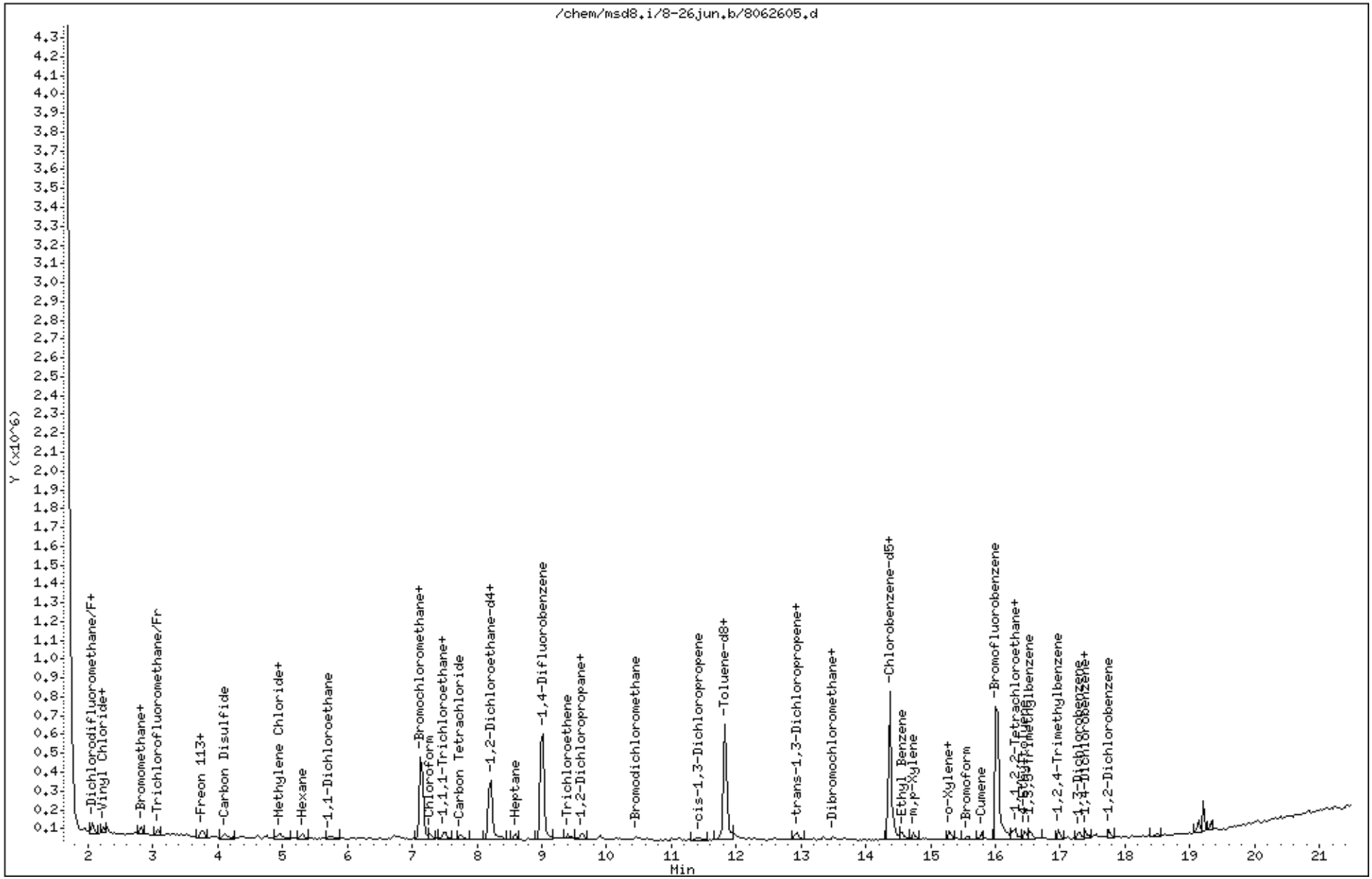
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0122

Data File: /chem/msd8.i/8-26jun.b/8062605.d
Date : 26-JUN-2008 16:10
Client ID: Level 2
Sample Info: 0.5mL #1612-34

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-08jul.b/8070807.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 08-JUL-2008 15:19
Operator : smd Inst ID: msd8.i
Smp Info : 2.0mL #1541-189
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-08jul.b/t14q626c.m
Meth Date : 08-Jul-2008 16:58 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 15:19 Cal File: 8070807.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.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	228499	25.0000			70.00- 130.00	100.00
7.132	7.132 (1.000)	128	169979				48.44- 108.44	74.39
7.132	7.132 (1.000)	49	490670				187.47- 247.47	214.74
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	768605	25.0000			70.00- 130.00	100.00
9.012	9.012 (1.000)	88	124031				0.00- 46.46	16.14
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	549623	25.0000			70.00- 130.00	100.00
14.376	14.376 (1.000)	82	353076				0.00- 30.00	64.24
7 Isobutane						CAS #: 75-28-5		
2.072	2.072 (0.290)	43	110779	2.00000	2.285		70.00- 130.00	100.00
2.072	2.072 (0.290)	42	34928				0.00- 30.00	31.53
2.072	2.072 (0.290)	58	3120				0.00- 30.00	2.82
19 Pentane						CAS #: 109-66-0		
3.150	3.150 (0.442)	43	125827	2.00000	2.255		70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.442)	57	18084			0.00- 30.00	14.37
3.150	3.150 (0.442)	72	10348			0.00- 30.00	8.22
25 Acrolein					CAS #: 107-02-8		
3.703	3.703 (0.519)	55	17427	2.00000	2.193	70.00- 130.00	100.00
3.703	3.703 (0.519)	56	22270			0.00- 30.00	127.79
35 Acetonitrile					CAS #: 75-05-8		
4.450	4.450 (0.624)	40	37659	2.00000	2.752	70.00- 130.00	100.00
4.450	4.450 (0.624)	41	50635			0.00- 30.00	134.46
4.450	4.450 (0.624)	38	8170			0.00- 30.00	21.69
41 Acrylonitrile					CAS #: 107-13-1		
5.086	5.086 (0.713)	53	44981	2.00000	2.122	70.00- 130.00	100.00
5.086	5.086 (0.713)	52	41811			0.00- 30.00	92.95
44 1-Pentene					CAS #: 109-67-1		
3.067	3.067 (0.430)	55	60120	2.00000	2.119	70.00- 130.00	100.00(T)
3.067	3.067 (0.430)	42	74548			0.00- 30.00	124.00
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.454	3.454 (0.484)	74	26117	2.00000	2.313	70.00- 130.00	100.00(T)
3.454	3.454 (0.484)	59	38352			0.00- 30.00	146.85
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.035	4.035 (0.566)	142	80154	2.00000	1.964	70.00- 130.00	100.00(a)
4.035	4.035 (0.566)	127	32003			0.00- 30.00	39.93
62 1-Hexene					CAS #: 592-41-6		
5.196	5.196 (0.729)	55	31164	2.00000	1.893	70.00- 130.00	100.00(a)
5.196	5.196 (0.729)	41	55602			0.00- 30.00	178.42
5.196	5.196 (0.729)	84	11855			0.00- 30.00	38.04
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.969)	55	69960	2.00000	1.919	70.00- 130.00	100.00(a)
6.910	6.910 (0.969)	85	10601			0.00- 30.00	15.15
6.910	6.910 (0.969)	58	7681			0.00- 30.00	10.98
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.129)	41	48328	2.00000	1.642	70.00- 130.00	100.00(a)
10.173	10.173 (1.129)	69	22520			0.00- 30.00	46.60
10.201	10.201 (1.132)	100	8013			0.00- 30.00	16.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.897	9.897 (1.098)	43	91367	2.00000	1.696	70.00- 130.00	100.00(a)
9.897	9.897 (1.098)	58	8898			0.00- 30.00	9.74
9.924	9.924 (1.101)	86	11541			0.00- 30.00	12.63
93 Ethyl Acrylate					CAS #: 140-88-5		
9.731	9.731 (1.080)	55	66962	2.00000	1.782	70.00- 130.00	100.00(a)
9.758	9.758 (1.083)	99	5230			0.00- 30.00	7.81
9.731	9.731 (1.080)	45	7948			0.00- 30.00	11.87
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.126)	174	34984	2.00000	2.032	70.00- 130.00	100.00
10.145	10.145 (1.126)	93	36922			0.00- 30.00	105.54
10.145	10.145 (1.126)	95	29801			0.00- 30.00	85.18
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.367	16.367 (1.138)	89	8379	2.00000	1.629	70.00- 130.00	100.00(a)
16.367	16.367 (1.138)	53	24437			0.00- 30.00	291.65
16.367	16.367 (1.138)	124	3377			0.00- 30.00	40.30
121 Alphamethylstyrene					CAS #: 98-83-9		
16.837	16.837 (1.171)	118	24561	2.00000	1.360	70.00- 130.00	100.00(a)
16.837	16.837 (1.171)	103	13537			0.00- 30.00	55.12
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	43045	2.00000	1.561	70.00- 130.00	100.00(a)
17.279	17.279 (1.202)	95	14909			0.00- 30.00	34.64
17.279	17.279 (1.202)	63	38487			0.00- 30.00	89.41
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	64793	2.00000	1.640	70.00- 130.00	100.00(a)
14.763	14.763 (1.027)	57	51319			0.00- 30.00	79.20
14.763	14.763 (1.027)	85	15636			0.00- 30.00	24.13
199 Cyclopentane					CAS #: 287-92-3		
4.560	4.560 (0.639)	70	29211	2.00000	2.204	70.00- 130.00	100.00
4.560	4.560 (0.639)	55	52016			0.00- 30.00	178.07

QC Flag Legend

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

Report Date: 08-Jul-2008 16:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070807.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-08jul.b/t14q626c.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 08-JUL-2008
Calibration Time: 09:20
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	211494	126896	296092	228499	8.04
88 1,4-Difluorobenze	774038	464423	1083653	768605	-0.70
125 Chlorobenzene-d5	567266	340360	794172	549623	-3.11

		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.

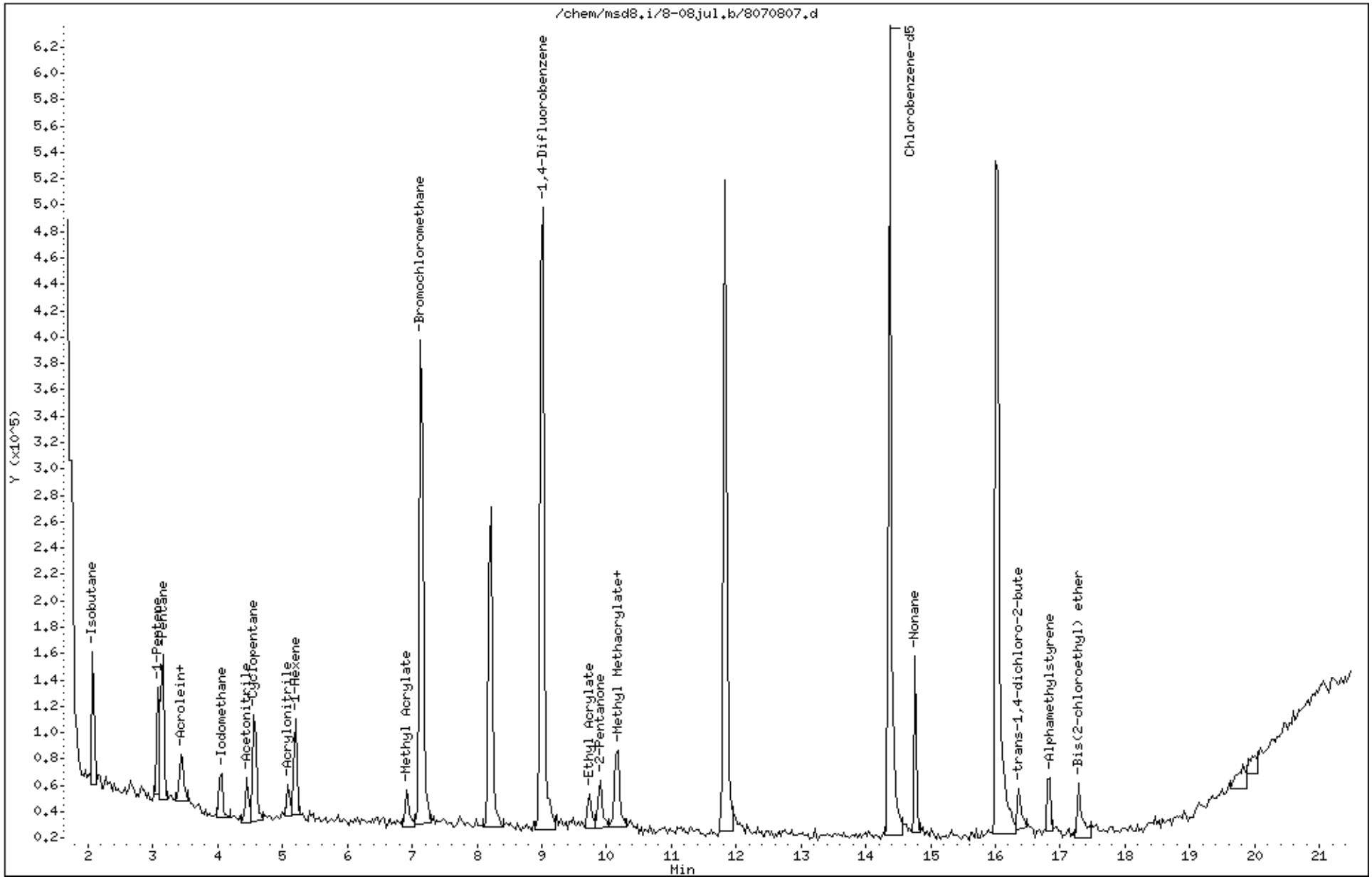
0127

Data File: /chem/msd8.i/8-08jul.b/8070807.d
Date : 08-JUL-2008 15:19
Client ID: Level 3
Sample Info: 2.0mL #1541-189

Instrument: msd8.i

Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-01jul.b/8070102.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 01-JUL-2008 09:16
Operator : ct Inst ID: msd8.i
Smp Info : 2.0mL #1541-200
Misc Info : 2.0ppbv (200ppbv) sp 36b
Comment :
Method : /chem/msd8.i/8-01jul.b/t14q626b.m
Meth Date : 01-Jul-2008 12:05 ctaylor Quant Type: ISTD
Cal Date : 01-JUL-2008 09:16 Cal File: 8070102.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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	303951	25.0000		70.00- 130.00		100.00
7.159	7.159 (1.000)	128	235955			46.77- 106.77		77.63
7.159	7.159 (1.000)	49	652088			181.91- 241.91		214.54
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.012	9.012 (1.000)	114	1046354	25.0000		70.00- 130.00		100.00
9.012	9.012 (1.000)	88	174025			0.00- 45.87		16.63
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	743764	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	472076			0.00- 30.00		63.47
1 Freon 152a					CAS #: 75-37-6			
1.961	1.961 (0.274)	65	47528	2.00000	2.674	70.00- 130.00		100.00(H)
1.989	1.989 (0.278)	51	244199			0.00- 30.00		513.80
2 Freon 22					CAS #: 75-45-6			
1.989	1.989 (0.278)	67	18202	2.00000	2.644	70.00- 130.00		100.00
1.989	1.989 (0.278)	51	244478			0.00- 30.00		1343.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.878	1.878 (0.262)	83	63839	2.00000	2.545	70.00- 130.00	100.00
1.878	1.878 (0.262)	69	243260			0.00- 30.00	381.05
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.095	3.095 (0.432)	67	106017	2.00000	2.523	70.00- 130.00	100.00
3.095	3.095 (0.432)	69	32345			0.00- 30.00	30.51
2.597	2.597 (0.363)	35	1239			0.00- 30.00	1.17
20 Freon123a					CAS #: 354-23-4		
3.537	3.537 (0.494)	67	75336	2.00000	2.623	70.00- 130.00	100.00
3.565	3.565 (0.498)	117	48169			0.00- 30.00	63.94
21 Freon123					CAS #: 306-83-2		
3.648	3.648 (0.509)	83	9628	2.00000	2.732	70.00- 130.00	100.00
3.648	3.648 (0.509)	133	3326			0.00- 30.00	34.55
3.648	3.648 (0.509)	85	7213			0.00- 30.00	74.92
27 Freon142b					CAS #: 75-68-3		
2.155	2.155 (0.301)	65	120041	2.00000	2.369	70.00- 130.00	100.00
2.155	2.155 (0.301)	45	39851			0.00- 30.00	33.20
32 Freon143a					CAS #: 420-46-2		
1.878	1.878 (0.262)	65	26907	2.00000	2.312	70.00- 130.00	100.00
1.878	1.878 (0.262)	69	243260			0.00- 30.00	904.08
49 Isopropyl ether					CAS #: 108-20-3		
5.749	5.749 (0.803)	45	262063	2.00000	2.466	70.00- 130.00	100.00
5.749	5.749 (0.803)	87	44535			0.00- 30.00	16.99
5.749	5.749 (0.803)	59	27230			0.00- 30.00	10.39
52 1-Propanol					CAS #: 71-23-8		
5.943	5.943 (0.830)	42	15952	2.00000	2.667	70.00- 130.00	100.00
5.943	5.943 (0.830)	59	16485			0.00- 30.00	103.34
5.943	5.943 (0.830)	41	8474			0.00- 30.00	53.12
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.357	6.357 (0.888)	59	154712	2.00000	2.205	70.00- 130.00	100.00
6.357	6.357 (0.888)	87	55146			0.00- 30.00	35.64
6.357	6.357 (0.888)	41	43985			0.00- 30.00	28.43
61 Ethyl Acetate					CAS #: 141-78-6		
6.855	6.855 (0.958)	70	12815	2.00000	2.516	70.00- 130.00	100.00
6.855	6.855 (0.958)	45	22126			0.00- 30.00	172.66
6.855	6.855 (0.958)	61	19002			0.00- 30.00	148.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Isobutanol					CAS #: 78-83-1		
8.182	8.182 (0.908)	43	44993	2.00000	2.188	70.00- 130.00	100.00
8.182	8.182 (0.908)	41	38881			0.00- 30.00	86.42
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.376	8.376 (1.170)	73	113601	2.00000	2.242	70.00- 130.00	100.00
8.403	8.403 (1.174)	87	28282			0.00- 30.00	24.90
8.376	8.376 (1.170)	55	55455			0.00- 30.00	48.82
89 1-Butanol					CAS #: 71-36-3		
9.482	9.482 (1.052)	56	31389	2.00000	2.198	70.00- 130.00	100.00
9.454	9.454 (1.049)	41	30271			0.00- 30.00	96.44
9.454	9.454 (1.049)	43	19651			0.00- 30.00	62.60
113 Butyl Acetate					CAS #: 123-86-4		
13.574	13.574 (1.506)	56	34133	2.00000	1.902	70.00- 130.00	100.00(a)
13.574	13.574 (1.506)	73	11015			0.00- 30.00	32.27
13.546	13.546 (1.503)	43	101331			0.00- 30.00	296.87
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.753	16.753 (1.165)	57	104248	2.00000	1.891	70.00- 130.00	100.00(a)
16.753	16.753 (1.165)	85	63980			31.03- 91.03	61.37
133 2-Heptanone					CAS #: 110-43-0		
15.565	15.565 (1.083)	58	32103	2.00000	1.541	70.00- 130.00	100.00(a)
15.565	15.565 (1.083)	43	81639			0.00- 30.00	254.30
136 Cyclohexanone					CAS #: 108-94-1		
15.952	15.952 (1.110)	55	45967	2.00000	2.004	70.00- 130.00	100.00
15.952	15.952 (1.110)	98	13660			0.00- 30.00	29.72
15.952	15.952 (1.110)	42	42971			0.00- 30.00	93.48
36 Cyclopentene					CAS #: 142-29-0		
4.422	4.422 (0.618)	67	146113	2.00000	2.411	70.00- 130.00	100.00
4.422	4.422 (0.618)	68	51638			0.00- 30.00	35.34
4.422	4.422 (0.618)	53	37141			0.00- 30.00	25.42
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.689	6.689 (0.934)	77	95993	2.00000	2.314	70.00- 130.00	100.00
6.689	6.689 (0.934)	79	30528			0.07- 60.07	31.80
6.689	6.689 (0.934)	97	19825			0.00- 30.00	20.65
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.823	7.823 (1.093)	110	28589	2.00000	2.568	70.00- 130.00	100.00
7.823	7.823 (1.093)	75	67378			0.00- 30.00	235.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.463)	76	72647	2.00000	2.552	70.00- 130.00	100.00
13.187	13.187 (1.463)	41	75738			81.94- 141.94	104.25
13.187	13.187 (1.463)	78	23257			0.00- 30.00	32.01
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	55277	2.00000	2.556	70.00- 130.00	100.00
14.569	14.569 (1.013)	117	64431			0.00- 30.00	116.56
14.569	14.569 (1.013)	95	29430			0.00- 30.00	53.24
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	71416	2.00000	2.518	70.00- 130.00	100.00
16.173	16.173 (1.125)	77	105177			140.66- 200.66	147.27
16.173	16.173 (1.125)	158	61069			0.00- 30.00	85.51
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	36094	2.00000	2.551	70.00- 130.00	100.00
16.311	16.311 (1.135)	61	27811			0.00- 30.00	77.05
16.311	16.311 (1.135)	112	19839			0.00- 30.00	54.96
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	48076	2.00000	2.371	70.00- 130.00	100.00
16.422	16.422 (1.142)	91	150375			303.11- 363.11	312.79
16.422	16.422 (1.142)	65	20354			0.00- 30.00	42.34
146 4-Chlorotoluene					CAS #: 106-43-4		
16.588	16.588 (1.154)	126	47563	2.00000	2.505	70.00- 130.00	100.00
16.560	16.560 (1.152)	91	150443			325.08- 385.08	316.30
16.560	16.560 (1.152)	63	26420			0.00- 30.00	55.55
150 tert-Butylbenzene					CAS #: 98-06-6		
16.919	16.919 (1.177)	119	197409	2.00000	2.272	70.00- 130.00	100.00
16.919	16.919 (1.177)	134	49579			0.00- 52.04	25.11
16.919	16.919 (1.177)	91	115439			0.00- 30.00	58.48
151 Pentachloroethane					CAS #: 76-01-7		
16.975	16.975 (1.181)	167	47340	2.00000	2.307	70.00- 130.00	100.00
16.947	16.947 (1.179)	117	49998			0.00- 30.00	105.61
152 sec-Butylbenzene					CAS #: 135-98-8		
17.141	17.141 (1.192)	105	215830	2.00000	2.176	70.00- 130.00	100.00
17.168	17.168 (1.194)	134	40871			0.00- 48.72	18.94
17.141	17.141 (1.192)	91	36838			0.00- 30.00	17.07
154 p-Cymene					CAS #: 99-87-6		
17.306	17.306 (1.204)	134	46722	2.00000	2.091	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.306	17.306 (1.204)	119	191551			395.25- 455.25	409.98
17.306	17.306 (1.204)	91	52869			0.00- 30.00	113.16
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	58478	2.00000	2.049	70.00- 130.00	100.00
17.417	17.417 (1.212)	105	159842			233.16- 293.16	273.34
17.417	17.417 (1.212)	77	23960			0.00- 30.00	40.97
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	48728	2.00000	1.999	70.00- 130.00	100.00(a)
17.721	17.721 (1.233)	91	192741			318.79- 378.79	395.54
17.721	17.721 (1.233)	92	97960			0.00- 30.00	201.03
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	45950	2.00000	1.944	70.00- 130.00	100.00(a)
18.468	18.468 (1.285)	75	76335			101.55- 161.55	166.13
18.468	18.468 (1.285)	155	39903			0.00- 30.00	86.84

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070102.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-01jul.b/t14q626b.m
Misc Info: 2.0ppbv (200ppbv) sp 36b

Calibration Date: 01-JUL-2008
Calibration Time: 11:33
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	262106	157264	366948	303951	15.96
88 1,4-Difluorobenze	954357	572614	1336100	1046354	9.64
125 Chlorobenzene-d5	725376	435226	1015526	743764	2.53

		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.

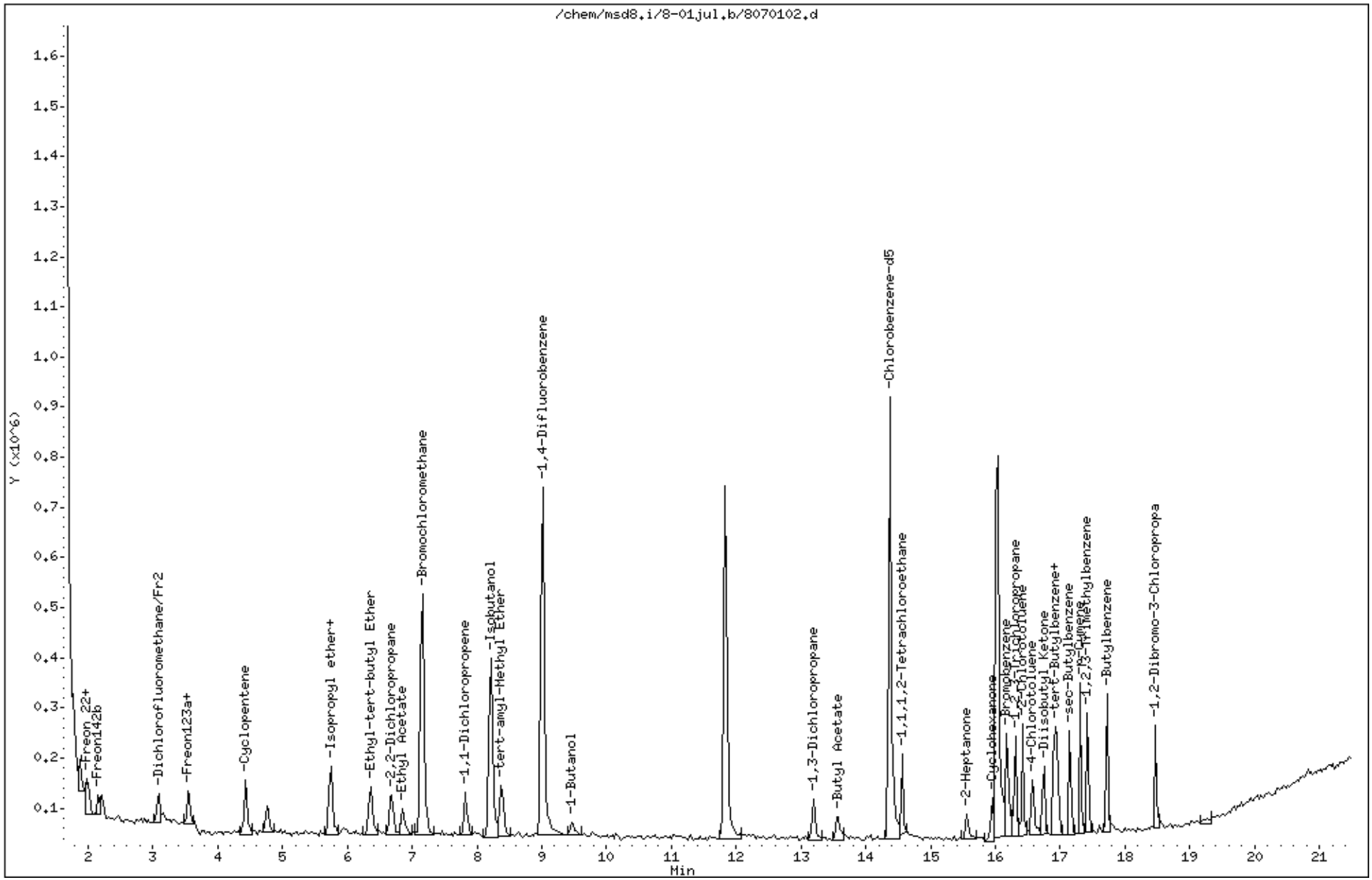
0134

Data File: /chem/msd8.i/8-01jul.b/8070102.d
Date : 01-JUL-2008 09:16
Client ID: Level 3
Sample Info: 2.0mL #1541-200

Column phase: RTx-624

Instrument: msd8.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062606.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 26-JUN-2008 16:38
Operator : cb Inst ID: msd8.i
Smp Info : 2.0mL #1612-34
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:38 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 16:38 Cal File: 8062606.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	261260	25.0000		70.00- 130.00	100.00
7.159	7.159 (1.000)	128	197178			45.69- 105.69	75.47
7.131	7.131 (1.000)	49	565344			174.17- 234.17	216.39
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	936760	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	152396			0.00- 46.10	16.27
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	735628	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	441035			0.00- 30.00	59.95
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	454363	25.0000	25.069	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	215357			0.00- 30.00	47.40
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	794184	25.0000	24.931	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	103495			0.00- 30.00	13.03

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	521121			0.00- 30.00	65.62
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	453941	25.0000	24.575	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	580500			111.32- 171.32	127.88
16.035	16.035 (1.115)	176	451807			70.84- 130.84	99.53
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	60731	2.00000	2.344	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	39019			0.00- 30.00	64.25
1.906	1.906 (0.267)	39	43198			0.00- 30.00	71.13
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	132308	2.00000	2.223	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	38974			0.00- 30.00	29.46
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	98635	2.00000	2.239	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	34427			0.75- 60.75	34.90
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.306)	50	68886	2.00000	2.429	70.00- 130.00	100.00
2.182	2.182 (0.306)	52	27083			0.00- 30.00	39.32
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	16518	2.00000	2.460	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	139881			0.00- 30.00	846.84
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.325)	62	66094	2.00000	2.238	70.00- 130.00	100.00
2.320	2.320 (0.325)	64	22180			0.00- 30.00	33.56
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	57384	2.00000	2.063	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	54916			0.00- 30.00	95.70
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	33946	2.00000	1.964	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	31012			63.37- 123.37	91.36
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.399)	64	26721	2.00000	2.304	70.00- 130.00	100.00
2.818	2.818 (0.395)	49	8296			0.00- 30.00	31.05
2.846	2.846 (0.399)	66	5682			0.00- 30.00	21.26

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	91049	2.00000	2.244	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	55306			0.00- 30.00	60.74
2.818	2.818 (0.395)	72	6357			0.00- 30.00	6.98
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	139007	2.00000	2.172	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	83957			35.14- 95.14	60.40
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	29180	2.00000	2.446	70.00- 130.00	100.00
3.343	3.343 (0.469)	43	7321			0.00- 30.00	25.09
3.343	3.343 (0.469)	46	13453			0.00- 30.00	46.10
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	70550	2.00000	2.021	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	49129			35.65- 95.65	69.64
3.758	3.758 (0.527)	101	102934			97.12- 157.12	145.90
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	85848	2.00000	2.114	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	45337			20.51- 80.51	52.81
3.786	3.786 (0.531)	98	28344			2.67- 62.67	33.02
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	26967	2.00000	2.230	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	101557			0.00- 30.00	376.60
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	145857	2.00000	2.055	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.577)	45	101514	2.00000	2.188	70.00- 130.00	100.00
4.118	4.118 (0.577)	43	32553			0.00- 30.00	32.07
4.118	4.118 (0.577)	59	6378			0.00- 30.00	6.28
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	20347	2.00000	2.199	70.00- 130.00	100.00
4.366	4.366 (0.612)	41	87701			0.00- 30.00	431.03
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.754	4.754 (0.667)	59	80995	2.00000	2.247	70.00- 130.00	100.00
4.754	4.754 (0.667)	41	28161			0.00- 30.00	34.77
4.754	4.754 (0.667)	57	8046			0.00- 30.00	9.93
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	70835	2.00000	1.996	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	46141			23.97- 83.97	65.14
4.615	4.615 (0.647)	51	22522			0.00- 30.00	31.80
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.694)	73	102343	2.00000	1.987	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	25012			0.00- 58.88	24.44
4.919	4.919 (0.690)	41	41738			0.00- 30.00	40.78
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	48872	2.00000	2.022	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	84069			143.16- 203.16	172.02
4.975	4.975 (0.698)	98	32092			0.00- 30.00	65.67
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	88935	2.00000	2.096	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	65810			0.00- 30.00	74.00
5.307	5.307 (0.744)	86	12694			0.00- 30.00	14.27
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	92290	2.00000	2.029	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	29490			0.00- 59.09	31.95
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	9703	2.00000	2.229	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	127864			0.00- 30.00	1317.78
5.804	5.804 (0.814)	42	11855			0.00- 30.00	122.18
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	67357	2.00000	2.093	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	40629			31.74- 91.74	60.32
6.717	6.717 (0.942)	98	26275			9.91- 69.91	39.01
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	18521	2.00000	2.142	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	111385			581.97- 641.97	601.40
6.772	6.772 (0.950)	57	9526			0.00- 30.00	51.43
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	71862	2.00000	2.077	70.00- 130.00	100.00
7.159	7.159 (1.004)	71	21007			0.00- 56.52	29.23
7.131	7.131 (1.000)	72	22907			0.00- 30.00	31.88
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	85980	2.00000	2.014	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	50926			34.39- 94.39	59.23

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	57996	2.00000	2.147	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	87301			124.01- 184.01	150.53
7.491	7.491 (1.050)	41	60537			72.72- 132.72	104.38
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	87803	2.00000	2.132	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	60412			33.81- 93.81	68.80
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	82390	2.00000	2.240	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	87890			72.33- 132.33	106.68
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	116672	2.00000	2.033	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	32781			0.00- 30.00	28.10
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	247187	2.00000	2.034	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	72770			0.00- 30.00	29.44
8.182	8.182 (1.147)	41	85192			0.00- 30.00	34.46
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	65184	2.00000	2.024	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	20946			0.00- 30.00	32.13
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	12017	2.00000	1.815	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	100889			0.00- 30.00	839.55
8.597	8.597 (0.954)	71	39633			0.00- 30.00	329.81
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	48689	2.00000	2.057	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	48278			61.15- 121.15	99.16
9.399	9.399 (1.043)	97	31214			30.36- 90.36	64.11
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	68846	2.00000	2.015	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	31147			0.00- 30.00	45.24
9.620	9.620 (1.349)	55	72717			0.00- 30.00	105.62
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	47001	2.00000	2.182	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	30109			39.09- 99.09	64.06
9.896	9.896 (1.098)	41	35875			62.28- 122.28	76.33

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	23959	2.00000	2.185	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	23680			60.77- 120.77	98.84
10.145	10.145 (1.126)	57	9793			0.00- 30.00	40.87
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	71617	2.00000	1.987	70.00- 130.00	100.00
10.477	10.477 (1.163)	85	40872			32.83- 92.83	57.07
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	50367	2.00000	2.030	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	15617			1.15- 61.15	31.01
11.389	11.389 (1.264)	39	48407			59.41- 119.41	96.11
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	24700	2.00000	1.749	70.00- 130.00	100.00(M)
11.749	11.749 (1.304)	43	102906			0.00- 30.00	416.62
11.749	11.749 (1.304)	85	10377			0.00- 30.00	42.01
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	113079	2.00000	2.130	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	57804			28.57- 88.57	51.12
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	47556	2.00000	1.873	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	17639			1.52- 61.52	37.09
12.606	12.606 (0.877)	39	40473			49.92- 109.92	85.11
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	38145	2.00000	2.196	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	22418			30.92- 90.92	58.77
12.910	12.910 (0.898)	83	33302			57.10- 117.10	87.30
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	52210	2.00000	1.919	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	39704			42.21- 102.21	76.05
12.938	12.938 (0.900)	131	32187			39.27- 99.27	61.65
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	33964	2.00000	1.848	70.00- 130.00	100.00(a)
13.353	13.353 (0.929)	43	82016			200.42- 260.42	241.48
13.353	13.353 (0.929)	100	9160			0.00- 30.00	26.97
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	48867	2.00000	1.897	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	39706			0.00- 30.00	81.25

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	58415	2.00000	2.051	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	47515			64.07- 124.07	81.34
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	97741	2.00000	2.207	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	26409			0.00- 59.64	27.02
14.403	14.403 (1.002)	77	69570			37.48- 97.48	71.18
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	45720	2.00000	2.100	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	134234			0.00- 30.00	293.60
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	51661	2.00000	1.971	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	115854			0.00- 30.00	224.26
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	51400	2.00000	2.092	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	117689			201.90- 261.90	228.97
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	63526	2.00000	1.823	70.00- 130.00	100.00
15.343	15.343 (1.067)	78	41609			27.42- 87.42	65.50
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	49071	2.00000	1.869	70.00- 130.00	100.00
15.565	15.565 (1.083)	171	24767			21.24- 81.24	50.47
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	157594	2.00000	1.950	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	39360			0.00- 30.00	24.98
15.786	15.786 (1.098)	51	24407			0.00- 30.00	15.49
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	73974	2.00000	2.039	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	50934			33.48- 93.48	68.85
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	193241	2.00000	2.077	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	44522			0.00- 30.00	23.04
16.311	16.311 (1.135)	105	8286			0.00- 30.00	4.29
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	143687	2.00000	1.945	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	45465			0.00- 58.65	31.64

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	144089	2.00000	2.110	70.00- 130.00	100.00
16.560	16.560 (1.152)	120	69017			0.00- 30.00	47.90
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	139815	2.00000	1.891	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	59808			12.98- 72.98	42.78
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.306	17.306 (1.204)	146	92446	2.00000	2.146	70.00- 130.00	100.00
17.306	17.306 (1.204)	148	61155			0.00- 30.00	66.15
17.279	17.279 (1.202)	111	41450			0.00- 30.00	44.84
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	129626	2.00000	2.019	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	82051			0.00- 30.00	63.30
17.389	17.389 (1.210)	111	48427			0.00- 30.00	37.36
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	102537	2.00000	1.861	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	16840			0.00- 30.00	16.42
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	108530	2.00000	2.000	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	75575			32.86- 92.86	69.64
17.749	17.749 (1.235)	111	50791			17.88- 77.88	46.80
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	144289	2.00000	2.403	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	136130			65.23- 125.23	94.35
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	103644	2.00000	2.409	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	68896			34.36- 94.36	66.47
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	245150	2.00000	2.292	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	27871			0.00- 30.00	11.37

QC Flag Legend

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

Report Date: 27-Jun-2008 08:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	261260	-6.89
88 1,4-Difluorobenze	1012106	607264	1416948	936760	-7.44
125 Chlorobenzene-d5	774104	464462	1083746	735628	-4.97

		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

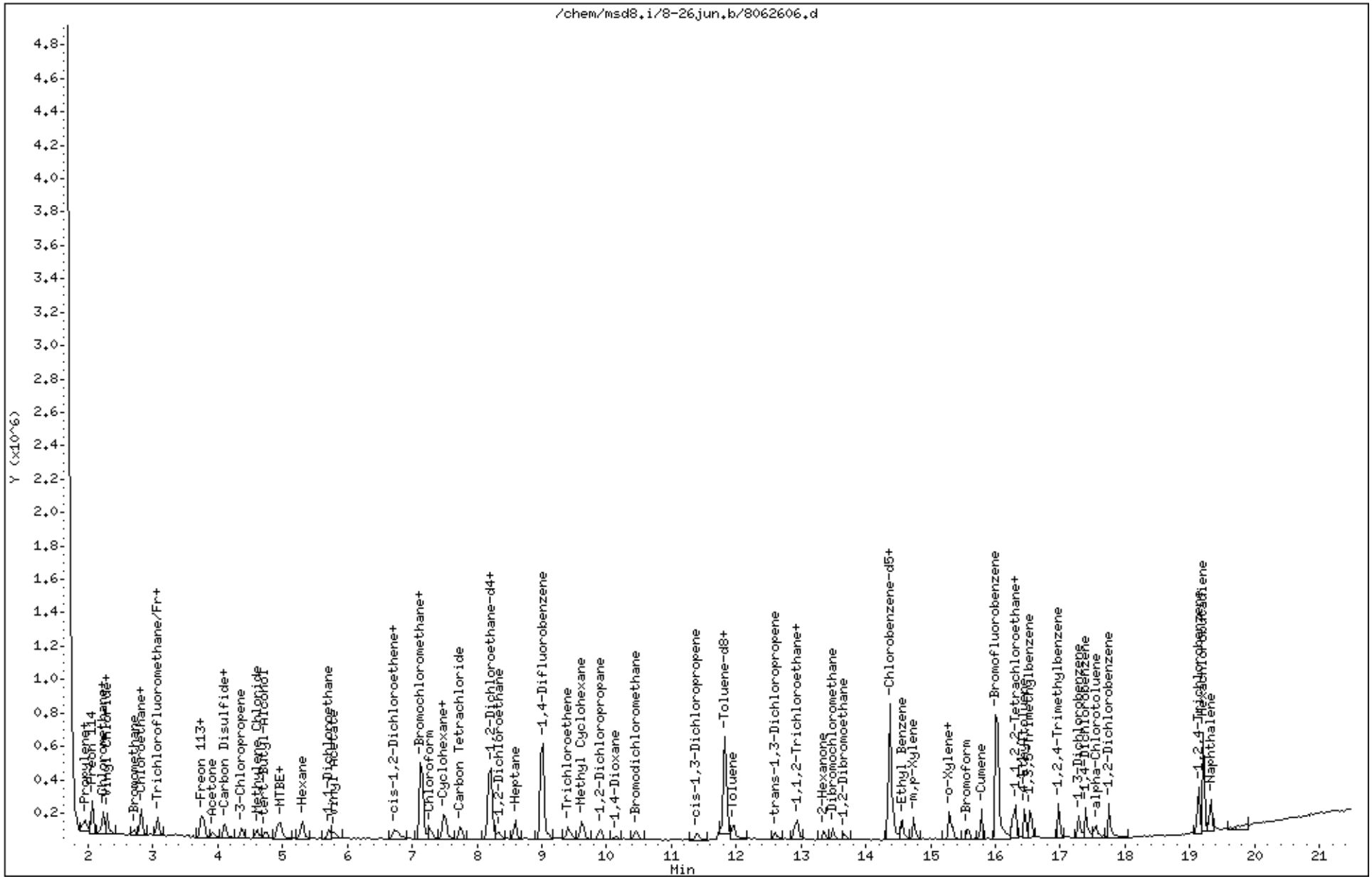
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0144

Data File: /chem/msd8.i/8-26jun.b/8062606.d
Date : 26-JUN-2008 16:38
Client ID: Level 3
Sample Info: 2.0mL #1612-34

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062607.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 26-JUN-2008 17:05
Operator : cb Inst ID: msd8.i
Smp Info : 25mL #1612-34
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:38 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 17:05 Cal File: 8062607.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		
7.132	7.132 (1.000)	130	260334	25.0000		70.00- 130.00		100.00
7.132	7.132 (1.000)	128	213705			45.69- 105.69		82.09
7.132	7.132 (1.000)	49	560581			174.17- 234.17		215.33
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	957398	25.0000		70.00- 130.00		100.00
9.012	9.012 (1.000)	88	157120			0.00- 46.10		16.41
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	754398	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	446738			0.00- 30.00		59.22
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	456827	25.0000	25.235	70.00- 130.00		100.00
8.182	8.182 (1.147)	67	242220			0.00- 30.00		53.02
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	868310	25.0000	26.318	70.00- 130.00		100.00
11.832	11.832 (1.313)	70	112803			0.00- 30.00		12.99

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	605607			0.00- 30.00	69.75
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	488318	25.0000	25.619	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	671322			111.32- 171.32	137.48
16.035	16.035 (1.115)	176	480351			70.84- 130.84	98.37
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	613443	25.0000	24.157	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	385928			0.00- 30.00	62.91
1.906	1.906 (0.267)	39	439338			0.00- 30.00	71.62
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	1358712	25.0000	23.400	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	430158			0.00- 30.00	31.66
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	940808	25.0000	22.226	70.00- 130.00	100.00
2.044	2.044 (0.287)	137	300001			0.75- 60.75	31.89
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	593150	25.0000	22.178	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	187515			0.00- 30.00	31.61
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	136678	25.0000	21.755	70.00- 130.00	100.00
2.210	2.210 (0.310)	43	1216163			0.00- 30.00	889.80
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	644875	25.0000	22.608	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	195646			0.00- 30.00	30.34
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	546709	25.0000	20.592	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	453502			0.00- 30.00	82.95
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	373764	25.0000	22.440	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	337960			63.37- 123.37	90.42
16 Chloroethane					CAS #: 75-00-3		
2.791	2.791 (0.391)	64	306917	25.0000	26.150	70.00- 130.00	100.00
2.791	2.791 (0.391)	49	105361			0.00- 30.00	34.33
2.791	2.791 (0.391)	66	95910			0.00- 30.00	31.25

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	983136	25.0000	24.542	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	575430			0.00- 30.00	58.53
2.818	2.818 (0.395)	72	53036			0.00- 30.00	5.39
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	1341110	25.0000	21.900	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	858432			35.14- 95.14	64.01
23 Ethanol					CAS #: 64-17-5		
3.344	3.344 (0.469)	45	255069	25.0000	22.521	70.00- 130.00	100.00
3.344	3.344 (0.469)	43	61820			0.00- 30.00	24.24
3.344	3.344 (0.469)	46	99332			0.00- 30.00	38.94
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	736350	25.0000	22.016	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	472393			35.65- 95.65	64.15
3.758	3.758 (0.527)	101	927570			97.12- 157.12	125.97
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	885399	25.0000	22.587	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	456626			20.51- 80.51	51.57
3.786	3.786 (0.531)	98	287180			2.67- 62.67	32.44
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	280977	25.0000	23.852	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	1068478			0.00- 30.00	380.27
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	1464645	25.0000	21.635	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	1114773	25.0000	24.405	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	280369			0.00- 30.00	25.15
4.118	4.118 (0.577)	59	39635			0.00- 30.00	3.56
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	228835	25.0000	24.878	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	944276			0.00- 30.00	412.64
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	908668	25.0000	25.202	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	308218			0.00- 30.00	33.92
4.726	4.726 (0.663)	57	97031			0.00- 30.00	10.68
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	763146	25.0000	22.347	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	421585			23.97- 83.97	55.24
4.588	4.588 (0.643)	51	227108			0.00- 30.00	29.76
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	1233569	25.0000	24.271	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	363632			0.00- 58.88	29.48
4.920	4.920 (0.690)	41	463634			0.00- 30.00	37.58
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	503478	25.0000	21.800	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	874797			143.16- 203.16	173.75
4.975	4.975 (0.698)	98	327742			0.00- 30.00	65.10
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	996329	25.0000	23.911	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	751774			0.00- 30.00	75.45
5.307	5.307 (0.744)	86	136605			0.00- 30.00	13.71
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	960760	25.0000	22.035	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	292680			0.00- 59.09	30.46
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	99991	25.0000	23.666	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	1587027			0.00- 30.00	1587.17
5.804	5.804 (0.814)	42	155289			0.00- 30.00	155.30
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	704139	25.0000	22.646	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	428148			31.74- 91.74	60.80
6.717	6.717 (0.942)	98	270163			9.91- 69.91	38.37
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	195295	25.0000	23.207	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	1240057			581.97- 641.97	634.97
6.772	6.772 (0.950)	57	79917			0.00- 30.00	40.92
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	750294	25.0000	22.488	70.00- 130.00	100.00
7.132	7.132 (1.000)	71	201887			0.00- 56.52	26.91
7.132	7.132 (1.000)	72	197646			0.00- 30.00	26.34
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	886740	25.0000	21.564	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	570196			34.39- 94.39	64.30

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	620811	25.0000	23.522	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	973683			124.01- 184.01	156.84
7.491	7.491 (1.050)	41	643528			72.72- 132.72	103.66
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	902320	25.0000	22.669	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	575531			33.81- 93.81	63.78
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	896448	25.0000	24.596	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	923875			72.33- 132.33	103.06
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	1279444	25.0000	22.384	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	305884			0.00- 30.00	23.91
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	2783717	25.0000	23.459	70.00- 130.00	100.00
8.182	8.182 (1.147)	56	894725			0.00- 30.00	32.14
8.182	8.182 (1.147)	41	918475			0.00- 30.00	32.99
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	746982	25.0000	23.227	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	227741			0.00- 30.00	30.49
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	139317	25.0000	21.535	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	1120687			0.00- 30.00	804.42
8.597	8.597 (0.954)	71	439425			0.00- 30.00	315.41
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	517627	25.0000	22.195	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	486898			61.15- 121.15	94.06
9.399	9.399 (1.043)	97	316530			30.36- 90.36	61.15
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	736129	25.0000	22.381	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	343809			0.00- 30.00	46.70
9.620	9.620 (1.349)	55	835350			0.00- 30.00	113.48
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.897 (1.098)	63	464974	25.0000	21.975	70.00- 130.00	100.00
9.897	9.897 (1.098)	62	322901			39.09- 99.09	69.44
9.897	9.897 (1.098)	41	426940			62.28- 122.28	91.82

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	253063	25.0000	23.333	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	240784			60.77- 120.77	95.15
10.145	10.145 (1.126)	57	80390			0.00- 30.00	31.77
100 Bromodichloromethane					CAS #: 75-27-4		
10.450	10.450 (1.160)	83	791767	25.0000	22.275	70.00- 130.00	100.00
10.450	10.450 (1.160)	85	514582			32.83- 92.83	64.99
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	555627	25.0000	22.612	70.00- 130.00	100.00
11.390	11.390 (1.264)	77	169576			1.15- 61.15	30.52
11.390	11.390 (1.264)	39	492945			59.41- 119.41	88.72
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	365921	25.0000	25.267	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	1151749			0.00- 30.00	314.75
11.749	11.749 (1.304)	85	127897			0.00- 30.00	34.95
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	1181770	25.0000	22.510	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	704880			28.57- 88.57	59.65
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	605216	25.0000	23.656	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	183161			1.52- 61.52	30.26
12.606	12.606 (0.877)	39	499371			49.92- 109.92	82.51
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	380404	25.0000	22.165	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	241726			30.92- 90.92	63.54
12.910	12.910 (0.898)	83	335399			57.10- 117.10	88.17
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	582053	25.0000	21.762	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	417483			42.21- 102.21	71.73
12.938	12.938 (0.900)	131	399493			39.27- 99.27	68.64
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	465338	25.0000	24.793	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	1085000			200.42- 260.42	233.16
13.353	13.353 (0.929)	100	75063			0.00- 30.00	16.13
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	643531	25.0000	24.516	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	503690			0.00- 30.00	78.27

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	637035	25.0000	22.385	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	612809			64.07- 124.07	96.20
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1024686	25.0000	23.129	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	299326			0.00- 59.64	29.21
14.403	14.403 (1.002)	77	657564			37.48- 97.48	64.17
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	480386	25.0000	22.293	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	1661114			0.00- 30.00	345.79
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	633492	25.0000	23.912	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	1375392			0.00- 30.00	217.11
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	635602	25.0000	25.165	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	1495857			201.90- 261.90	235.34
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	903914	25.0000	25.218	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	555115			27.42- 87.42	61.41
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	628898	25.0000	23.745	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	327476			21.24- 81.24	52.07
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	1944736	25.0000	23.761	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	519812			0.00- 30.00	26.73
15.786	15.786 (1.098)	51	306750			0.00- 30.00	15.77
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	917583	25.0000	24.745	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	602262			33.48- 93.48	65.64
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	2432320	25.0000	25.372	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	543278			0.00- 30.00	22.34
16.311	16.311 (1.135)	105	81494			0.00- 30.00	3.35
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	2043954	25.0000	26.453	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	600403			0.00- 58.65	29.37

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	1734325	25.0000	24.811	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	821394			0.00- 30.00	47.36
153 1,2,4-Trimethylbenzene						CAS #: 95-63-6	
16.975	16.975 (1.181)	105	1814340	25.0000	24.132	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	767229			12.98- 72.98	42.29
156 1,3-Dichlorobenzene						CAS #: 541-73-1	
17.279	17.279 (1.202)	146	1082517	25.0000	24.625	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	692177			0.00- 30.00	63.94
17.279	17.279 (1.202)	111	485252			0.00- 30.00	44.83
157 1,4-Dichlorobenzene						CAS #: 106-46-7	
17.390	17.390 (1.210)	146	1426855	25.0000	22.417	70.00- 130.00	100.00
17.390	17.390 (1.210)	148	907153			0.00- 30.00	63.58
17.390	17.390 (1.210)	111	585406			0.00- 30.00	41.03
158 alpha-Chlorotoluene						CAS #: 100-44-7	
17.555	17.555 (1.221)	91	1414358	25.0000	25.024	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	246675			0.00- 30.00	17.44
161 1,2-Dichlorobenzene						CAS #: 95-50-1	
17.749	17.749 (1.235)	146	1207937	25.0000	22.450	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	764285			32.86- 92.86	63.27
17.749	17.749 (1.235)	111	568163			17.88- 77.88	47.04
167 1,2,4-Trichlorobenzene						CAS #: 120-82-1	
19.131	19.131 (1.331)	180	1216557	25.0000	21.241	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	1179774			65.23- 125.23	96.98
168 Hexachlorobutadiene						CAS #: 87-68-3	
19.214	19.214 (1.337)	225	937839	25.0000	22.374	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	606906			34.36- 94.36	64.71
169 Naphthalene						CAS #: 91-20-3	
19.325	19.325 (1.344)	128	2220783	25.0000	21.616	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	296355			0.00- 30.00	13.34

Report Date: 27-Jun-2008 08:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	260334	-7.22
88 1,4-Difluorobenze	1012106	607264	1416948	957398	-5.41
125 Chlorobenzene-d5	774104	464462	1083746	754398	-2.55

		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

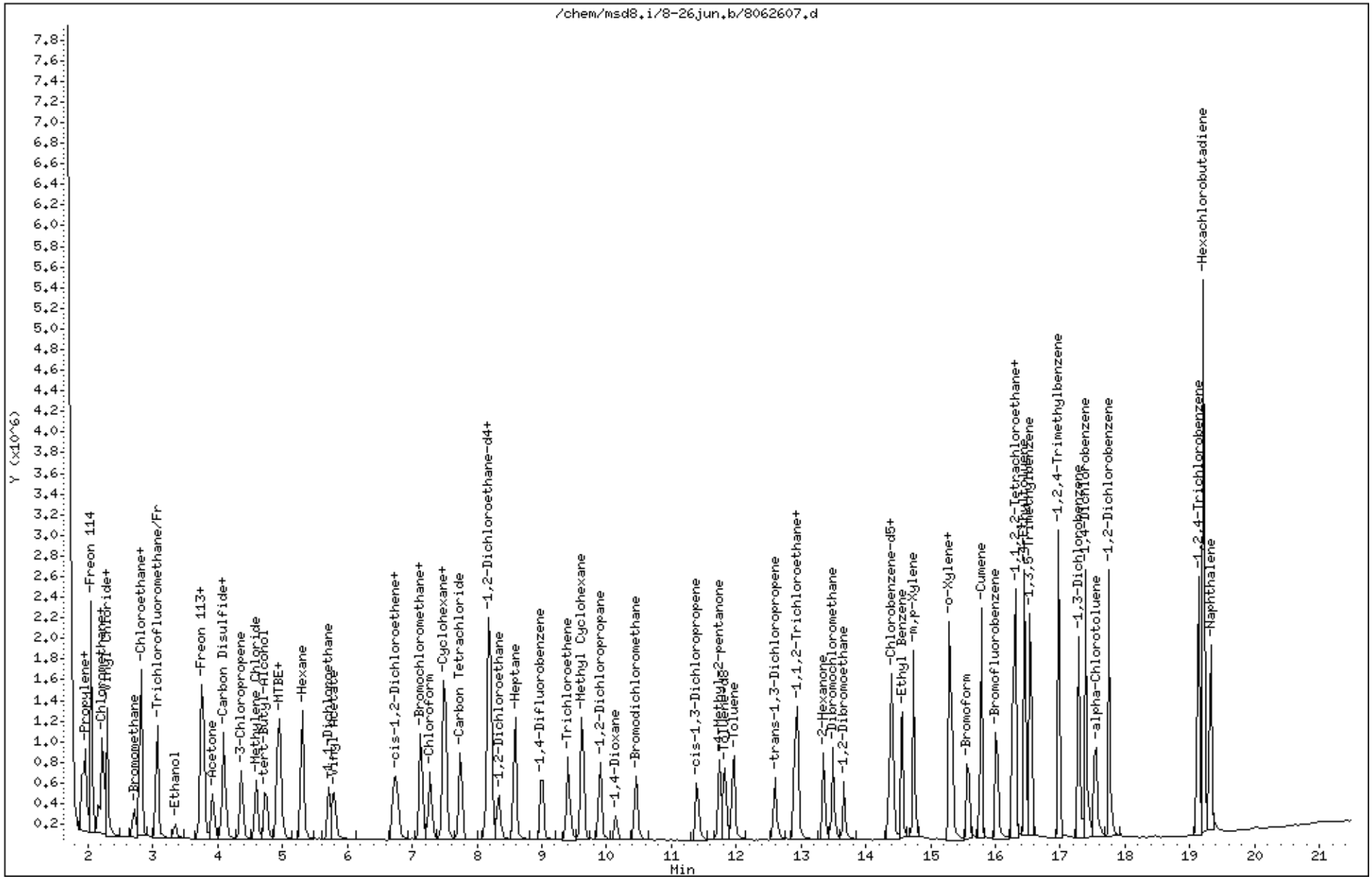
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0154

Data File: /chem/msd8.i/8-26jun.b/8062607.d
Date : 26-JUN-2008 17:05
Client ID: Level 4
Sample Info: 25mL #1612-34

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-08jul.b/8070808.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 08-JUL-2008 15:47
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1541-189
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-08jul.b/t14q626c.m
Meth Date : 08-Jul-2008 16:58 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 15:47 Cal File: 8070808.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.132 (1.000)	130	218475	25.0000		80.00- 120.00	100.00
7.132	7.132 (1.000)	128	170631			48.10- 108.10	78.10
7.132	7.132 (1.000)	49	452203			176.98- 236.98	206.98
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	702492	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	118201			0.00- 46.83	16.83
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	534400	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	325721			30.95- 90.95	60.95
7 Isobutane					CAS #: 75-28-5		
2.072	2.072 (0.290)	43	2256445	50.0000	48.677	80.00- 120.00	100.00
2.072	2.072 (0.290)	42	739144			2.76- 62.76	32.76
2.072	2.072 (0.290)	58	56724			0.00- 32.51	2.51
19 Pentane					CAS #: 109-66-0		
3.150	3.150 (0.442)	43	2441460	50.0000	45.754	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.442)	57	348497			0.00- 44.27	14.27
3.150	3.150 (0.442)	72	192214			0.00- 37.87	7.87
25 Acrolein					CAS #: 107-02-8		
3.703	3.703 (0.519)	55	367574	50.0000	48.383	80.00- 120.00	100.00
3.703	3.703 (0.519)	56	490541			103.45- 163.45	133.45
35 Acetonitrile					CAS #: 75-05-8		
4.450	4.450 (0.624)	40	649292	50.0000	49.624	80.00- 120.00	100.00
4.450	4.450 (0.624)	41	1157635			148.29- 208.29	178.29
4.450	4.450 (0.624)	38	139823			0.00- 51.53	21.53
41 Acrylonitrile					CAS #: 107-13-1		
5.085	5.085 (0.713)	53	978139	50.0000	48.254	80.00- 120.00	100.00
5.085	5.085 (0.713)	52	871308			59.08- 119.08	89.08
44 1-Pentene					CAS #: 109-67-1		
3.067	3.067 (0.430)	55	1329542	50.0000	49.011	80.00- 120.00	100.00(T)
3.067	3.067 (0.430)	42	2212356			136.40- 196.40	166.40
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.454	3.454 (0.484)	74	499775	50.0000	46.301	80.00- 120.00	100.00(T)
3.454	3.454 (0.484)	59	838123			137.70- 197.70	167.70
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.035	4.035 (0.566)	142	2127200	50.0000	54.518	80.00- 120.00	100.00
4.035	4.035 (0.566)	127	842691			9.62- 69.62	39.62
62 1-Hexene					CAS #: 592-41-6		
5.196	5.196 (0.729)	55	804482	50.0000	51.102	80.00- 120.00	100.00
5.196	5.196 (0.729)	41	1351900			138.05- 198.05	168.05
5.196	5.196 (0.729)	84	251783			1.30- 61.30	31.30
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.969)	55	1708886	50.0000	49.016	80.00- 120.00	100.00
6.910	6.910 (0.969)	85	204375			0.00- 41.96	11.96
6.910	6.910 (0.969)	58	150990			0.00- 38.84	8.84
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.129)	41	1381796	50.0000	51.368	80.00- 120.00	100.00
10.173	10.173 (1.129)	69	644657			16.65- 76.65	46.65
10.173	10.173 (1.129)	100	242432			0.00- 47.54	17.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.896	9.896 (1.098)	43	2519734	50.0000	51.175	80.00- 120.00	100.00
9.896	9.896 (1.098)	58	150601			0.00- 35.98	5.98
9.896	9.896 (1.098)	86	295190			0.00- 41.72	11.72
93 Ethyl Acrylate					CAS #: 140-88-5		
9.731	9.731 (1.080)	55	1753222	50.0000	51.043	80.00- 120.00	100.00
9.731	9.731 (1.080)	99	88243			0.00- 35.03	5.03
9.731	9.731 (1.080)	45	170309			0.00- 39.71	9.71
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.126)	174	767119	50.0000	48.757	80.00- 120.00	100.00
10.145	10.145 (1.126)	93	761439			69.26- 129.26	99.26
10.145	10.145 (1.126)	95	627627			51.82- 111.82	81.82
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.366	16.366 (1.138)	89	256048	50.0000	51.198	80.00- 120.00	100.00
16.366	16.366 (1.138)	53	683221			236.83- 296.83	266.83
16.366	16.366 (1.138)	124	80264			1.35- 61.35	31.35
121 Alphamethylstyrene					CAS #: 98-83-9		
16.836	16.836 (1.171)	118	912703	50.0000	51.970	80.00- 120.00	100.00
16.836	16.836 (1.171)	103	577733			33.30- 93.30	63.30
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	1362319	50.0000	50.806	80.00- 120.00	100.00
17.279	17.279 (1.202)	95	431530			1.68- 61.68	31.68
17.279	17.279 (1.202)	63	1150760			54.47- 114.47	84.47
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	2019674	50.0000	52.586	80.00- 120.00	100.00
14.763	14.763 (1.027)	57	1495412			44.04- 104.04	74.04
14.763	14.763 (1.027)	85	464228			0.00- 52.99	22.99
199 Cyclopentane					CAS #: 287-92-3		
4.560	4.560 (0.639)	70	606316	50.0000	47.844	80.00- 120.00	100.00
4.560	4.560 (0.639)	55	978659			131.41- 191.41	161.41

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070808.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-08jul.b/t14q626c.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 08-JUL-2008
Calibration Time: 15:47
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	218475	131085	305865	218475	0.00
88 1,4-Difluorobenze	702492	421495	983489	702492	0.00
125 Chlorobenzene-d5	534400	320640	748160	534400	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.

Data File: /chem/msd8.i/8-08jul.b/8070808.d

Date : 08-JUL-2008 15:47

Client ID: Level 5

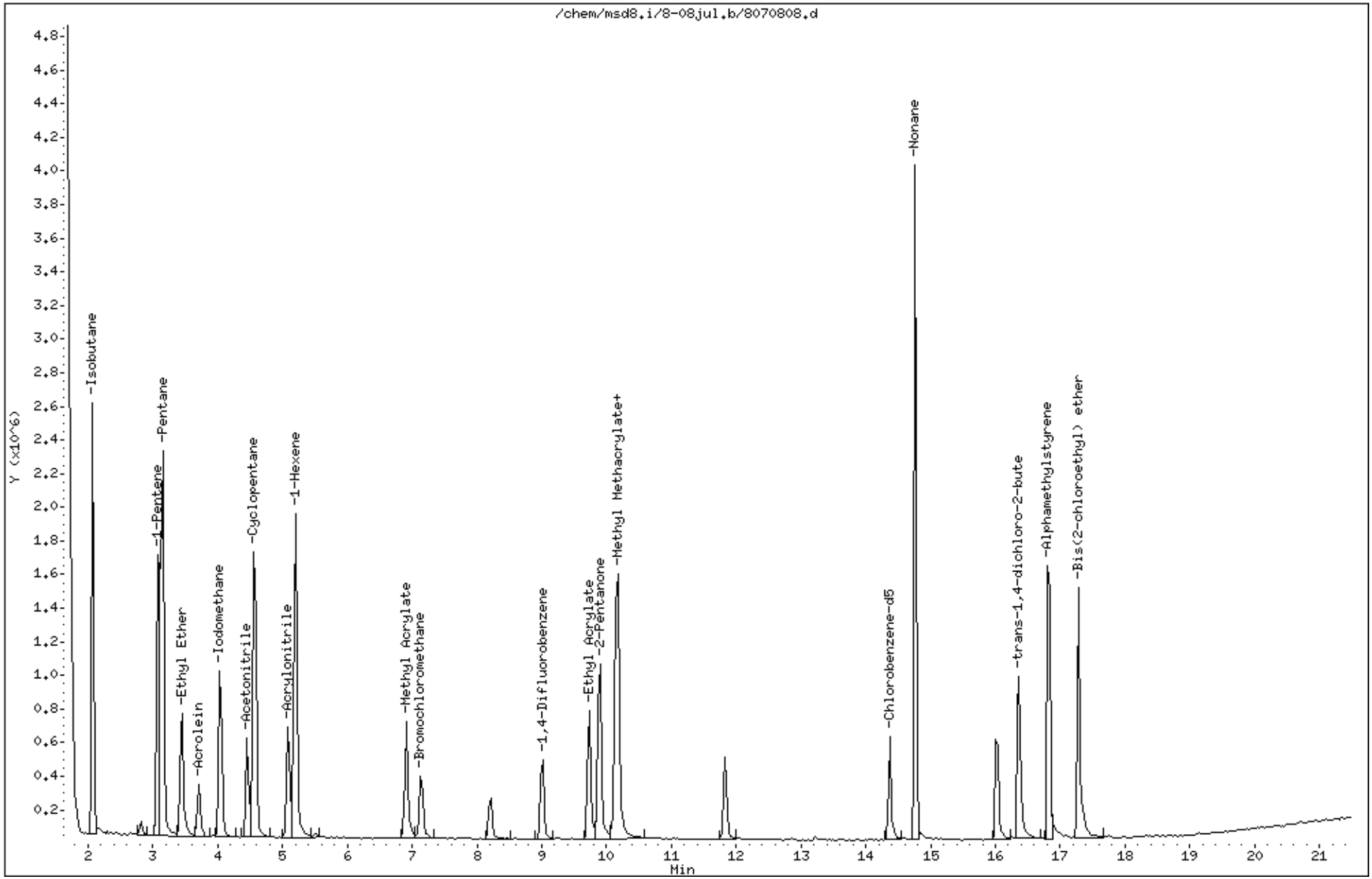
Sample Info: 50mL #1541-189

Column phase: RTx-624

Instrument: msd8.i

Operator: smd

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-01jul.b/8070103.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 01-JUL-2008 09:43
Operator : ct Inst ID: msd8.i
Smp Info : 50mL #1541-200
Misc Info : 50ppbv (200ppbv) sp36b
Comment :
Method : /chem/msd8.i/8-01jul.b/t14q626b.m
Meth Date : 01-Jul-2008 12:08 ctaylor Quant Type: ISTD
Cal Date : 01-JUL-2008 09:43 Cal File: 8070103.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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	249250	25.0000		80.00- 120.00	100.00
7.132	7.132 (1.000)	128	193705			47.72- 107.72	77.72
7.132	7.132 (1.000)	49	560070			194.70- 254.70	224.70
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	872995	25.0000		80.00- 120.00	100.00
8.984	8.984 (1.000)	88	140119			0.00- 46.05	16.05
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	647544	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	397463			31.38- 91.38	61.38
1 Freon 152a					CAS #: 75-37-6		
1.906	1.906 (0.267)	65	621143	50.0000	42.625	80.00- 120.00	100.00
1.850	1.850 (0.259)	51	228241			6.75- 66.75	36.75
2 Freon 22					CAS #: 75-45-6		
1.961	1.961 (0.275)	67	251769	50.0000	44.600	80.00- 120.00	100.00
1.961	1.961 (0.275)	51	3416892			1327.15-1387.15	1357.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.850	1.850 (0.259)	83	940236	50.0000	45.716	80.00- 120.00	100.00
1.795	1.795 (0.252)	69	3721639			365.82- 425.82	395.82
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.039	3.039 (0.426)	67	1557576	50.0000	45.202	80.00- 120.00	100.00(T)
3.039	3.039 (0.426)	69	471381			0.26- 60.26	30.26
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
20 Freon123a					CAS #: 354-23-4		
3.509	3.509 (0.492)	67	1049942	50.0000	44.580	80.00- 120.00	100.00
3.537	3.537 (0.496)	117	683877			35.13- 95.13	65.13
21 Freon123					CAS #: 306-83-2		
3.620	3.620 (0.508)	83	121467	50.0000	42.038	80.00- 120.00	100.00
3.620	3.620 (0.508)	133	20455			0.00- 46.84	16.84
3.620	3.620 (0.508)	85	84119			39.25- 99.25	69.25
27 Freon142b					CAS #: 75-68-3		
2.099	2.099 (0.294)	65	1978008	50.0000	47.604	80.00- 120.00	100.00
2.099	2.099 (0.294)	45	640746			2.39- 62.39	32.39
32 Freon143a					CAS #: 420-46-2		
1.795	1.795 (0.252)	65	476426	50.0000	49.926	80.00- 120.00	100.00
1.795	1.795 (0.252)	69	3723836			751.62- 811.62	781.62
49 Isopropyl ether					CAS #: 108-20-3		
5.721	5.721 (0.802)	45	3828225	50.0000	43.922	80.00- 120.00	100.00
5.721	5.721 (0.802)	87	679015			0.00- 47.74	17.74
5.721	5.721 (0.802)	59	352771			0.00- 39.22	9.22
52 1-Propanol					CAS #: 71-23-8		
5.915	5.915 (0.829)	42	202633	50.0000	41.320	80.00- 120.00	100.00
5.915	5.915 (0.829)	59	187447			62.51- 122.51	92.51
5.915	5.915 (0.829)	41	134732			36.49- 96.49	66.49
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.330	6.330 (0.888)	59	2782259	50.0000	48.364	80.00- 120.00	100.00
6.330	6.330 (0.888)	87	898965			2.31- 62.31	32.31
6.330	6.330 (0.888)	41	732255			0.00- 56.32	26.32
61 Ethyl Acetate					CAS #: 141-78-6		
6.827	6.827 (0.957)	70	178481	50.0000	42.734	80.00- 120.00	100.00
6.827	6.827 (0.957)	45	354989			168.89- 228.89	198.89
6.827	6.827 (0.957)	61	272425			122.64- 182.64	152.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Isobutanol					CAS #: 78-83-1		
8.182	8.182 (0.908)	43	780506	50.0000	45.500	80.00- 120.00	100.00
8.182	8.182 (0.908)	41	625242			50.11- 110.11	80.11
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.376	8.376 (1.174)	73	1998490	50.0000	48.108	80.00- 120.00	100.00
8.376	8.376 (1.174)	87	464584			0.00- 53.25	23.25
8.376	8.376 (1.174)	55	834424			11.75- 71.75	41.75
89 1-Butanol					CAS #: 71-36-3		
9.454	9.454 (1.049)	56	524382	50.0000	44.016	80.00- 120.00	100.00
9.454	9.454 (1.049)	41	483135			62.13- 122.13	92.13
9.454	9.454 (1.049)	43	356795			38.04- 98.04	68.04
113 Butyl Acetate					CAS #: 123-86-4		
13.546	13.546 (1.503)	56	732192	50.0000	48.914	80.00- 120.00	100.00
13.546	13.546 (1.503)	73	205355			0.00- 58.05	28.05
13.546	13.546 (1.503)	43	2068570			252.52- 312.52	282.52
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.754	16.754 (1.165)	57	2389225	50.0000	49.774	80.00- 120.00	100.00
16.754	16.754 (1.165)	85	1458088			31.03- 91.03	61.03
133 2-Heptanone					CAS #: 110-43-0		
15.537	15.537 (1.081)	58	890262	50.0000	49.086	80.00- 120.00	100.00
15.537	15.537 (1.081)	43	1843621			177.09- 237.09	207.09
136 Cyclohexanone					CAS #: 108-94-1		
15.952	15.952 (1.110)	55	958800	50.0000	48.019	80.00- 120.00	100.00
15.952	15.952 (1.110)	98	319354			3.31- 63.31	33.31
15.952	15.952 (1.110)	42	801602			53.60- 113.60	83.60
36 Cyclopentene					CAS #: 142-29-0		
4.394	4.394 (0.616)	67	2245473	50.0000	45.178	80.00- 120.00	100.00
4.394	4.394 (0.616)	68	847967			7.76- 67.76	37.76
4.394	4.394 (0.616)	53	546268			0.00- 54.33	24.33
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.661	6.661 (0.934)	77	1584309	50.0000	46.569	80.00- 120.00	100.00
6.661	6.661 (0.934)	79	476345			0.07- 60.07	30.07
6.661	6.661 (0.934)	97	290412			0.00- 48.33	18.33
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.823	7.823 (1.097)	110	392903	50.0000	43.048	80.00- 120.00	100.00
7.823	7.823 (1.097)	75	1157598			264.63- 324.63	294.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.463)	76	1040727	50.0000	43.828	80.00- 120.00	100.00
13.187	13.187 (1.463)	41	1164946			81.94- 141.94	111.94
13.187	13.187 (1.463)	78	326610			1.38- 61.38	31.38
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	816260	50.0000	43.362	80.00- 120.00	100.00
14.569	14.569 (1.013)	117	515071			33.10- 93.10	63.10
14.569	14.569 (1.013)	95	392954			18.14- 78.14	48.14
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	1118283	50.0000	45.298	80.00- 120.00	100.00
16.173	16.173 (1.125)	77	1908457			140.66- 200.66	170.66
16.173	16.173 (1.125)	158	1076260			66.24- 126.24	96.24
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	539241	50.0000	43.774	80.00- 120.00	100.00
16.311	16.311 (1.135)	61	455549			54.48- 114.48	84.48
16.311	16.311 (1.135)	112	346575			34.27- 94.27	64.27
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	828232	50.0000	46.918	80.00- 120.00	100.00
16.422	16.422 (1.142)	91	2758918			303.11- 363.11	333.11
16.422	16.422 (1.142)	65	303729			6.67- 66.67	36.67
146 4-Chlorotoluene					CAS #: 106-43-4		
16.560	16.560 (1.152)	126	732906	50.0000	44.330	80.00- 120.00	100.00
16.560	16.560 (1.152)	91	2602400			325.08- 385.08	355.08
16.560	16.560 (1.152)	63	487218			36.48- 96.48	66.48
150 tert-Butylbenzene					CAS #: 98-06-6		
16.919	16.919 (1.177)	119	3618961	50.0000	47.849	80.00- 120.00	100.00
16.919	16.919 (1.177)	134	797444			0.00- 52.04	22.04
16.919	16.919 (1.177)	91	2130365			28.87- 88.87	58.87
151 Pentachloroethane					CAS #: 76-01-7		
16.947	16.947 (1.179)	167	838365	50.0000	46.935	80.00- 120.00	100.00
16.947	16.947 (1.179)	117	914858			79.12- 139.12	109.12
152 sec-Butylbenzene					CAS #: 135-98-8		
17.141	17.141 (1.192)	105	4185200	50.0000	48.478	80.00- 120.00	100.00
17.141	17.141 (1.192)	134	783474			0.00- 48.72	18.72
17.141	17.141 (1.192)	91	743683			0.00- 47.77	17.77
154 p-Cymene					CAS #: 99-87-6		
17.306	17.306 (1.204)	134	997216	50.0000	51.268	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.306	17.306 (1.204)	119	4240669			395.25- 455.25	425.25
17.306	17.306 (1.204)	91	1225327			92.87- 152.87	122.87
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	1268071	50.0000	51.031	80.00- 120.00	100.00
17.417	17.417 (1.212)	105	3337030			233.16- 293.16	263.16
17.417	17.417 (1.212)	77	472343			7.25- 67.25	37.25
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	1103311	50.0000	51.993	80.00- 120.00	100.00
17.721	17.721 (1.233)	91	3848269			318.79- 378.79	348.79
17.721	17.721 (1.233)	92	2037424			154.66- 214.66	184.66
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	1040586	50.0000	50.557	80.00- 120.00	100.00
18.468	18.468 (1.285)	75	1368925			101.55- 161.55	131.55
18.468	18.468 (1.285)	155	819990			48.80- 108.80	78.80

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070103.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-01jul.b/t14q626b.m
Misc Info: 50ppbv (200ppbv) sp36b

Calibration Date: 01-JUL-2008
Calibration Time: 09:43
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

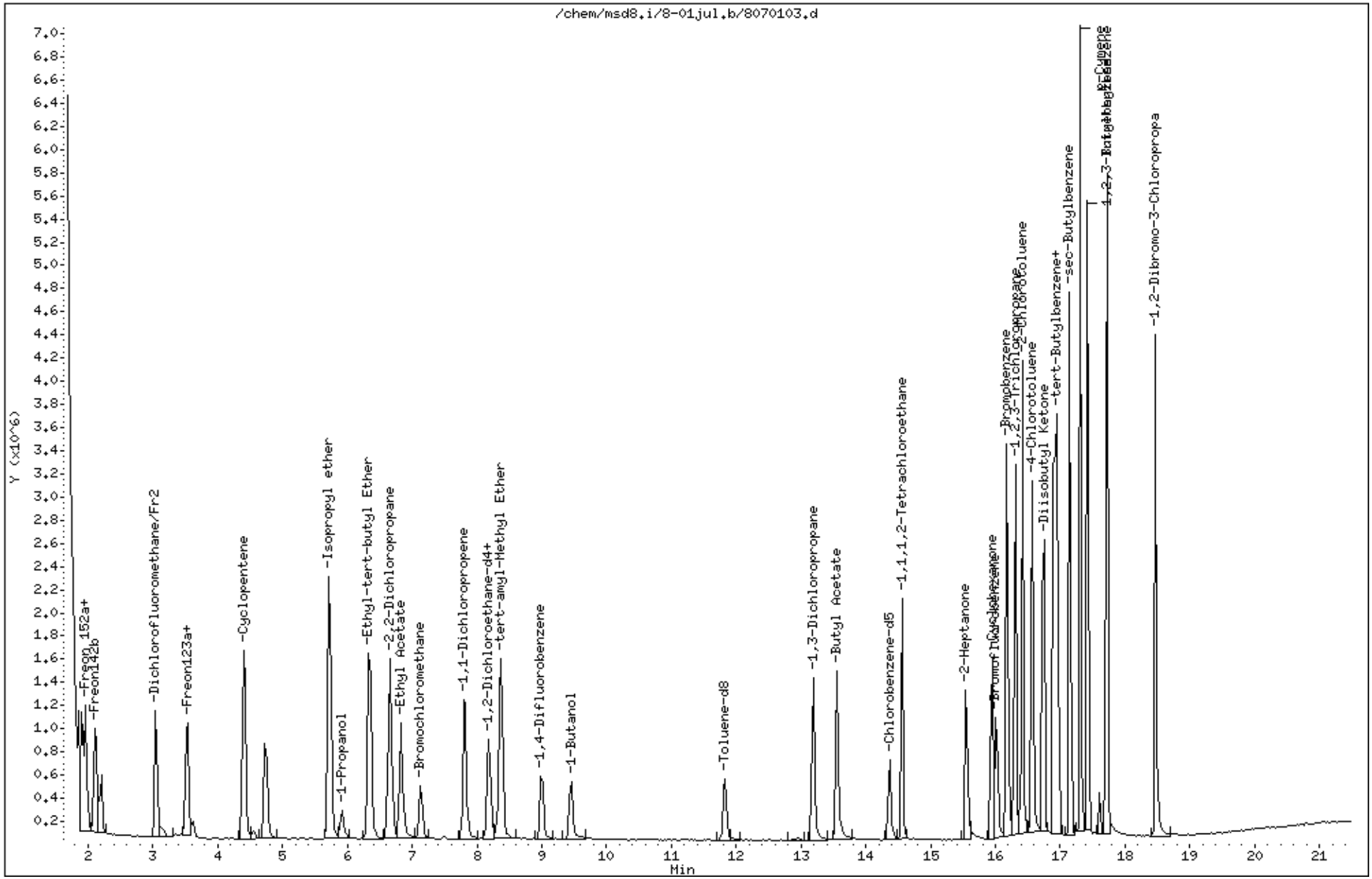
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	249250	149550	348950	249250	0.00
88 1,4-Difluorobenze	872995	523797	1222193	872995	0.00
125 Chlorobenzene-d5	647544	388526	906562	647544	0.00

		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.

Data File: /chem/msd8.i/8-01jul.b/8070103.d
Date : 01-JUL-2008 09:43
Client ID: Level 5
Sample Info: 50mL #1541-200

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



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062608.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 26-JUN-2008 17:33
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1612-34
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:37 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 17:33 Cal File: 8062608.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		
7.132	7.132 (1.000)	130	280597	25.0000		80.00- 120.00	100.00
7.132	7.132 (1.000)	128	212387			45.69- 105.69	75.69
7.132	7.132 (1.000)	49	572900			174.17- 234.17	204.17
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1012106	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	162945			0.00- 46.10	16.10
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	774104	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	478452			31.81- 91.81	61.81
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	487548	25.0000	25.000	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	268434			25.06- 85.06	55.06
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	894645	25.0000	25.000	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	113322			0.00- 42.67	12.67

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	647297			42.35- 102.35	72.35
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	501739	25.0000	25.000	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	709033			111.32- 171.32	141.32
16.035	16.035 (1.115)	176	505946			70.84- 130.84	100.84
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	1152561	50.0000	50.000	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	747578			34.86- 94.86	64.86
1.906	1.906 (0.267)	39	809467			40.23- 100.23	70.23
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	2596192	50.0000	50.000	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	799707			0.80- 60.80	30.80
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	1786857	50.0000	50.000	80.00- 120.00	100.00
2.044	2.044 (0.287)	137	549382			0.75- 60.75	30.75
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	1195661	50.0000	50.000	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	354093			0.00- 59.61	29.61
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	277583	50.0000	50.000	80.00- 120.00	100.00
2.238	2.238 (0.314)	43	2300190			798.65- 858.65	828.65
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	1243451	50.0000	50.000	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	386714			1.10- 61.10	31.10
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	1054016	50.0000	50.000	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	892288			54.66- 114.66	84.66
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	743484	50.0000	50.000	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	694157			63.37- 123.37	93.37
16 Chloroethane					CAS #: 75-00-3		
2.791	2.791 (0.391)	64	599138	50.0000	50.000	80.00- 120.00	100.00
2.791	2.791 (0.391)	49	204561			4.14- 64.14	34.14
2.791	2.791 (0.391)	66	191714			2.00- 62.00	32.00

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	1912667	50.0000	50.000	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	1135459			29.37- 89.37	59.37
2.818	2.818 (0.395)	72	103193			0.00- 35.40	5.40
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	2528096	50.0000	50.000	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	1646689			35.14- 95.14	65.14
23 Ethanol					CAS #: 64-17-5		
3.344	3.344 (0.469)	45	497768	50.0000	50.000	80.00- 120.00	100.00
3.344	3.344 (0.469)	43	107312			0.00- 51.56	21.56
3.344	3.344 (0.469)	46	201424			10.47- 70.47	40.47
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1427691	50.0000	50.000	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	937279			35.65- 95.65	65.65
3.758	3.758 (0.527)	101	1814884			97.12- 157.12	127.12
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	1716693	50.0000	50.000	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	867109			20.51- 80.51	50.51
3.786	3.786 (0.531)	98	560868			2.67- 62.67	32.67
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	574740	50.0000	50.000	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	2080868			332.05- 392.05	362.05
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	2898259	50.0000	50.000	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	2256137	50.0000	50.000	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	534591			0.00- 53.69	23.69
4.118	4.118 (0.577)	59	67039			0.00- 32.97	2.97
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	447528	50.0000	50.000	80.00- 120.00	100.00
4.367	4.367 (0.612)	41	1866671			387.11- 447.11	417.11
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1695772	50.0000	50.000	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	573397			3.81- 63.81	33.81
4.726	4.726 (0.663)	57	181223			0.00- 40.69	10.69
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	1483925	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.588	4.588 (0.643)	84	800923			23.97- 83.97	53.97
4.588	4.588 (0.643)	51	435409			0.00- 59.34	29.34
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	2393122	50.0000	50.000	80.00- 120.00	100.00
4.920	4.920 (0.690)	57	691108			0.00- 58.88	28.88
4.920	4.920 (0.690)	41	870222			6.36- 66.36	36.36
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	983965	50.0000	50.000	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1703788			143.16- 203.16	173.16
4.975	4.975 (0.698)	98	622640			33.28- 93.28	63.28
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	2021871	50.0000	50.000	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	1477799			43.09- 103.09	73.09
5.307	5.307 (0.744)	86	258981			0.00- 42.81	12.81
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	1882168	50.0000	50.000	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	547474			0.00- 59.09	29.09
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	207000	50.0000	50.000	80.00- 120.00	100.00
5.804	5.804 (0.814)	43	3313996			1570.96-1630.96	1600.96
5.804	5.804 (0.814)	42	295443			112.73- 172.73	142.73
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1370077	50.0000	50.000	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	845875			31.74- 91.74	61.74
6.717	6.717 (0.942)	98	546796			9.91- 69.91	39.91
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	410003	50.0000	50.000	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	2509109			581.97- 641.97	611.97
6.772	6.772 (0.950)	57	160888			9.24- 69.24	39.24
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	1521647	50.0000	50.000	80.00- 120.00	100.00
7.132	7.132 (1.000)	71	403473			0.00- 56.52	26.52
7.132	7.132 (1.000)	72	433944			0.00- 58.52	28.52
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	1707240	50.0000	50.000	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	1099243			34.39- 94.39	64.39

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	1235132	50.0000	50.000	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1902166			124.01- 184.01	154.01
7.491	7.491 (1.050)	41	1268677			72.72- 132.72	102.72
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1830105	50.0000	50.000	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1167720			33.81- 93.81	63.81
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	1765446	50.0000	50.000	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	1806646			72.33- 132.33	102.33
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	2522058	50.0000	50.000	80.00- 120.00	100.00
8.155	8.155 (0.905)	77	613944			0.00- 54.34	24.34
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	5628933	50.0000	50.000	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	1775501			1.54- 61.54	31.54
8.210	8.210 (1.151)	41	1804045			2.05- 62.05	32.05
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1444217	50.0000	50.000	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	449489			1.12- 61.12	31.12
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	267276	50.0000	50.000	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	2280872			823.38- 883.38	853.38
8.597	8.597 (0.954)	71	855002			289.89- 349.89	319.89
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1031295	50.0000	50.000	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	939989			61.15- 121.15	91.15
9.399	9.399 (1.043)	97	622445			30.36- 90.36	60.36
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	1478678	50.0000	50.000	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	672425			15.47- 75.47	45.47
9.620	9.620 (1.349)	55	1639769			80.89- 140.89	110.89
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.897 (1.098)	63	925721	50.0000	50.000	80.00- 120.00	100.00
9.897	9.897 (1.098)	62	639595			39.09- 99.09	69.09
9.897	9.897 (1.098)	41	854272			62.28- 122.28	92.28

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	537626	50.0000	50.000	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	488009			60.77- 120.77	90.77
10.145	10.145 (1.126)	57	174285			2.42- 62.42	32.42
100 Bromodichloromethane					CAS #: 75-27-4		
10.450	10.450 (1.160)	83	1607487	50.0000	50.000	80.00- 120.00	100.00
10.450	10.450 (1.160)	85	1009952			32.83- 92.83	62.83
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	1138545	50.0000	50.000	80.00- 120.00	100.00
11.390	11.390 (1.264)	77	354609			1.15- 61.15	31.15
11.390	11.390 (1.264)	39	1017993			59.41- 119.41	89.41
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	779137	50.0000	50.000	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	2418040			280.35- 340.35	310.35
11.749	11.749 (1.304)	85	267695			4.36- 64.36	34.36
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	2421629	50.0000	50.000	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1418297			28.57- 88.57	58.57
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1238601	50.0000	50.000	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	390450			1.52- 61.52	31.52
12.606	12.606 (0.877)	39	989887			49.92- 109.92	79.92
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	781487	50.0000	50.000	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	476060			30.92- 90.92	60.92
12.910	12.910 (0.898)	83	680679			57.10- 117.10	87.10
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1129712	50.0000	50.000	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	815779			42.21- 102.21	72.21
12.938	12.938 (0.900)	131	782502			39.27- 99.27	69.27
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1040360	50.0000	50.000	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	2397221			200.42- 260.42	230.42
13.353	13.353 (0.929)	100	163154			0.00- 45.68	15.68
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1324203	50.0000	50.000	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1035942			48.23- 108.23	78.23

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	1302564	50.0000	50.000	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1225344			64.07- 124.07	94.07
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1971756	50.0000	50.000	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	584454			0.00- 59.64	29.64
14.403	14.403 (1.002)	77	1330489			37.48- 97.48	67.48
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	1022237	50.0000	50.000	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	3399971			302.60- 362.60	332.60
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1284973	50.0000	50.000	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2803837			188.20- 248.20	218.20
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1261777	50.0000	50.000	80.00- 120.00	100.00
15.288	15.288 (1.063)	91	2926084			201.90- 261.90	231.90
134 Styrene					CAS #: 100-42-5		
15.344	15.344 (1.067)	104	1925352	50.0000	50.000	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	1105569			27.42- 87.42	57.42
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1332712	50.0000	50.000	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	682930			21.24- 81.24	51.24
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3955905	50.0000	50.000	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1034044			0.00- 56.14	26.14
15.786	15.786 (1.098)	51	600687			0.00- 45.18	15.18
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1839113	50.0000	50.000	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1167443			33.48- 93.48	63.48
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	4965954	50.0000	50.000	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1114874			0.00- 52.45	22.45
16.311	16.311 (1.135)	105	169099			0.00- 33.41	3.41
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	4300711	50.0000	50.000	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1232101			0.00- 58.65	28.65

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	3533197	50.0000	50.000	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1625674			16.01- 76.01	46.01
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3833643	50.0000	50.000	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1647650			12.98- 72.98	42.98
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2184504	50.0000	50.000	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1394729			33.85- 93.85	63.85
17.279	17.279 (1.202)	111	982531			14.98- 74.98	44.98
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.390	17.390 (1.210)	146	2807928	50.0000	50.000	80.00- 120.00	100.00
17.390	17.390 (1.210)	148	1806817			34.35- 94.35	64.35
17.390	17.390 (1.210)	111	1161264			11.36- 71.36	41.36
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	3035435	50.0000	50.000	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	537330			0.00- 47.70	17.70
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2390209	50.0000	50.000	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1502531			32.86- 92.86	62.86
17.749	17.749 (1.235)	111	1144496			17.88- 77.88	47.88
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	2522774	50.0000	50.000	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2402530			65.23- 125.23	95.23
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1800466	50.0000	50.000	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	1158751			34.36- 94.36	64.36
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4806182	50.0000	50.000	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	590539			0.00- 42.29	12.29

Report Date: 27-Jun-2008 08:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062608.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	280597	0.00
88 1,4-Difluorobenze	1012106	607264	1416948	1012106	0.00
125 Chlorobenzene-d5	774104	464462	1083746	774104	0.00

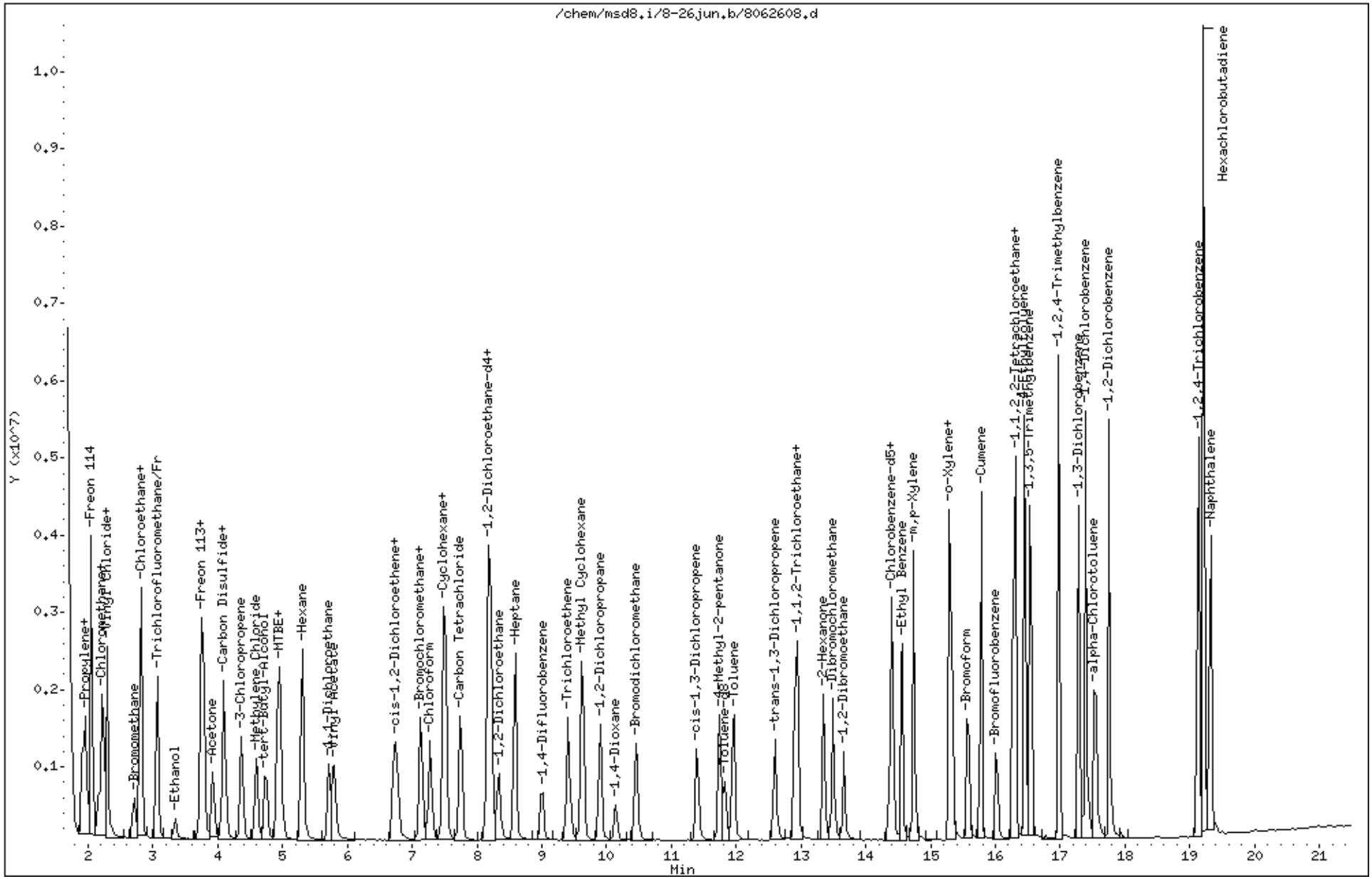
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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.

Data File: /chem/msd8.i/8-26jun.b/8062608.d
Date : 26-JUN-2008 17:33
Client ID: Level 5
Sample Info: 50mL #1612-34

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062609.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 26-JUN-2008 18:01
Operator : cb Inst ID: msd8.i
Smp Info : 100mL #1612-34
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:38 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 18:01 Cal File: 8062609.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	278875	25.0000		70.00- 130.00	100.00
7.131	7.131 (1.000)	128	215218			45.69- 105.69	77.17
7.131	7.131 (1.000)	49	607929			174.17- 234.17	217.99
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1068623	25.0000		70.00- 130.00	100.00
8.984	8.984 (1.000)	88	172554			0.00- 46.10	16.15
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	816320	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	499733			0.00- 30.00	61.22
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	517919	25.0000	26.407	70.00- 130.00	100.00
8.210	8.210 (1.151)	67	332193			0.00- 30.00	64.14
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	984185	25.0000	26.422	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	126991			0.00- 30.00	12.90

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	741181			0.00- 30.00	75.31
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	526757	25.0000	25.448	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	740640			111.32- 171.32	140.60
16.035	16.035 (1.115)	176	522206			70.84- 130.84	99.14
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	2263290	100.000	86.848	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	1475685			0.00- 30.00	65.20
1.906	1.906 (0.267)	39	1603871			0.00- 30.00	70.86
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	4992957	100.000	83.570	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	1593535			0.00- 30.00	31.92
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	3528415	100.000	81.428	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	1095878			0.75- 60.75	31.06
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	2478149	100.000	89.521	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	730049			0.00- 30.00	29.46
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	550807	100.000	85.735	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	4744957			0.00- 30.00	861.46
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	2397711	100.000	82.000	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	731103			0.00- 30.00	30.49
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	2225988	100.000	81.211	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	1716454			0.00- 30.00	77.11
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	1503236	100.000	86.992	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	1372119			63.37- 123.37	91.28
16 Chloroethane					CAS #: 75-00-3		
2.790	2.790 (0.391)	64	1182492	100.000	95.184	70.00- 130.00	100.00
2.790	2.790 (0.391)	49	405219			0.00- 30.00	34.27
2.790	2.790 (0.391)	66	351518			0.00- 30.00	29.73

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	3803677	100.000	91.229	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	2253520			0.00- 30.00	59.25
2.818	2.818 (0.395)	72	202432			0.00- 30.00	5.32
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	5040623	100.000	80.572	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	3234461			35.14- 95.14	64.17
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	988395	100.000	85.425	70.00- 130.00	100.00
3.343	3.343 (0.469)	43	202514			0.00- 30.00	20.49
3.343	3.343 (0.469)	46	396919			0.00- 30.00	40.16
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	2840715	100.000	82.713	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	1814187			35.65- 95.65	63.86
3.758	3.758 (0.527)	101	3594186			97.12- 157.12	126.52
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	3456625	100.000	85.336	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	1744084			20.51- 80.51	50.46
3.786	3.786 (0.531)	98	1098087			2.67- 62.67	31.77
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	1178813	100.000	94.980	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	4265898			0.00- 30.00	361.88
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	5824757	100.000	83.610	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	4746785	100.000	97.741	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	1053743			0.00- 30.00	22.20
4.090	4.090 (0.574)	59	159495			0.00- 30.00	3.36
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	914966	100.000	94.546	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	3830231			0.00- 30.00	418.62
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	3141837	100.000	85.324	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	1018199			0.00- 30.00	32.41
4.726	4.726 (0.663)	57	329585			0.00- 30.00	10.49
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	3000733	100.000	85.087	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	1575368			23.97- 83.97	52.50
4.588	4.588 (0.643)	51	872451			0.00- 30.00	29.07
43 MTBE					CAS #: 1634-04-4		
4.919	4.919 (0.690)	73	4909382	100.000	91.979	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	1393963			0.00- 58.88	28.39
4.919	4.919 (0.690)	41	1700470			0.00- 30.00	34.64
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	1964428	100.000	82.816	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	3401676			143.16- 203.16	173.16
4.975	4.975 (0.698)	98	1256120			0.00- 30.00	63.94
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	4154672	100.000	94.387	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	3041167			0.00- 30.00	73.20
5.307	5.307 (0.744)	86	539224			0.00- 30.00	12.98
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	3800196	100.000	84.512	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	1119048			0.00- 59.09	29.45
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	455402	100.000	100.46	70.00- 130.00	100.00
5.777	5.777 (0.810)	43	6997117			0.00- 30.00	1536.47
5.777	5.777 (0.810)	42	612029			0.00- 30.00	134.39
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	2841107	100.000	87.884	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	1722333			31.74- 91.74	60.62
6.717	6.717 (0.942)	98	1097213			9.91- 69.91	38.62
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	887847	100.000	98.786	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	5268179			581.97- 641.97	593.37
6.772	6.772 (0.950)	57	357126			0.00- 30.00	40.22
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	3187906	100.000	91.167	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	807335			0.00- 56.52	25.32
7.131	7.131 (1.000)	72	856985			0.00- 30.00	26.88
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	3443443	100.000	81.123	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	2236969			34.39- 94.39	64.96

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	2535404	100.000	91.566	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	3932803			124.01- 184.01	155.12
7.491	7.491 (1.050)	41	2526529			72.72- 132.72	99.65
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	3661836	100.000	88.376	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	2363436			33.81- 93.81	64.54
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	3562925	100.000	92.880	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	3642049			72.33- 132.33	102.22
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	5143478	100.000	83.309	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	1250823			0.00- 30.00	24.32
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	11619805	100.000	93.011	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	3673634			0.00- 30.00	31.62
8.210	8.210 (1.151)	41	3687845			0.00- 30.00	31.74
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	2912293	100.000	84.314	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	920096			0.00- 30.00	31.59
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	551718	100.000	80.191	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	4685827			0.00- 30.00	849.32
8.597	8.597 (0.954)	71	1807883			0.00- 30.00	327.68
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	2086440	100.000	83.464	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	1983171			61.15- 121.15	95.05
9.399	9.399 (1.043)	97	1270135			30.36- 90.36	60.88
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	3092853	100.000	89.981	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	1379385			0.00- 30.00	44.60
9.620	9.620 (1.349)	55	3432579			0.00- 30.00	110.98
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	1896368	100.000	83.589	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	1325131			39.09- 99.09	69.88
9.896	9.896 (1.098)	41	1701523			62.28- 122.28	89.73

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	1073373	100.000	91.252	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	1021821			60.77- 120.77	95.20
10.145	10.145 (1.126)	57	347779			0.00- 30.00	32.40
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	3373080	100.000	87.646	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	2123748			32.83- 92.83	62.96
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	2389854	100.000	89.436	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	759699			1.15- 61.15	31.79
11.389	11.389 (1.264)	39	2140619			59.41- 119.41	89.57
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	1662852	100.000	102.28	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	5162297			0.00- 30.00	310.45
11.749	11.749 (1.304)	85	599509			0.00- 30.00	36.05
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	5043029	100.000	88.528	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	2956977			28.57- 88.57	58.63
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	2624508	100.000	95.799	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	817060			1.52- 61.52	31.13
12.606	12.606 (0.877)	39	2085299			49.92- 109.92	79.45
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	1643253	100.000	90.572	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	1020892			30.92- 90.92	62.13
12.910	12.910 (0.898)	83	1427118			57.10- 117.10	86.85
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	2324443	100.000	83.607	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	1703349			42.21- 102.21	73.28
12.938	12.938 (0.900)	131	1643922			39.27- 99.27	70.72
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	2260988	100.000	108.26	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	5277327			200.42- 260.42	233.41
13.353	13.353 (0.929)	100	339711			0.00- 30.00	15.02
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	2770953	100.000	98.035	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	2142270			0.00- 30.00	77.31

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	2697679	100.000	89.453	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	2570806			64.07- 124.07	95.30
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	4067736	100.000	87.502	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	1235739			0.00- 59.64	30.38
14.403	14.403 (1.002)	77	2704485			37.48- 97.48	66.49
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	2095764	100.000	91.736	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	7275521			0.00- 30.00	347.15
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	2735131	100.000	96.294	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	6069763			0.00- 30.00	221.92
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	2640640	100.000	97.277	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	6245942			201.90- 261.90	236.53
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	4195405	100.000	106.43	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	2379201			27.42- 87.42	56.71
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	2827455	100.000	98.923	70.00- 130.00	100.00
15.565	15.565 (1.083)	171	1467098			21.24- 81.24	51.89
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	8224796	100.000	93.985	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	2086773			0.00- 30.00	25.37
15.786	15.786 (1.098)	51	1256860			0.00- 30.00	15.28
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	3839758	100.000	96.526	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	2451263			33.48- 93.48	63.84
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	10619982	100.000	101.89	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	2299174			0.00- 30.00	21.65
16.311	16.311 (1.135)	105	368495			0.00- 30.00	3.47
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	8907821	100.000	105.16	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	2517831			0.00- 58.65	28.27

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	7196685	100.000	95.922	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	3335733			0.00- 30.00	46.35
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	8004755	100.000	98.656	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	3422719			12.98- 72.98	42.76
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	4580422	100.000	97.010	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	2921138			0.00- 30.00	63.77
17.279	17.279 (1.202)	111	2020083			0.00- 30.00	44.10
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	5828868	100.000	87.312	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	3656090			0.00- 30.00	62.72
17.389	17.389 (1.210)	111	2111970			0.00- 30.00	36.23
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	6219376	100.000	101.35	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	1140701			0.00- 30.00	18.34
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	4694860	100.000	83.887	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	2940501			32.86- 92.86	62.63
17.749	17.749 (1.235)	111	2270937			17.88- 77.88	48.37
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	5219857	100.000	87.684	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	4998845			65.23- 125.23	95.77
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	3488001	100.000	81.613	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	2220365			34.36- 94.36	63.66
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	9735408	100.000	90.380	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	1201912			0.00- 30.00	12.35

Report Date: 27-Jun-2008 08:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062609.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	278875	-0.61
88 1,4-Difluorobenze	1012106	607264	1416948	1068623	5.58
125 Chlorobenzene-d5	774104	464462	1083746	816320	5.45

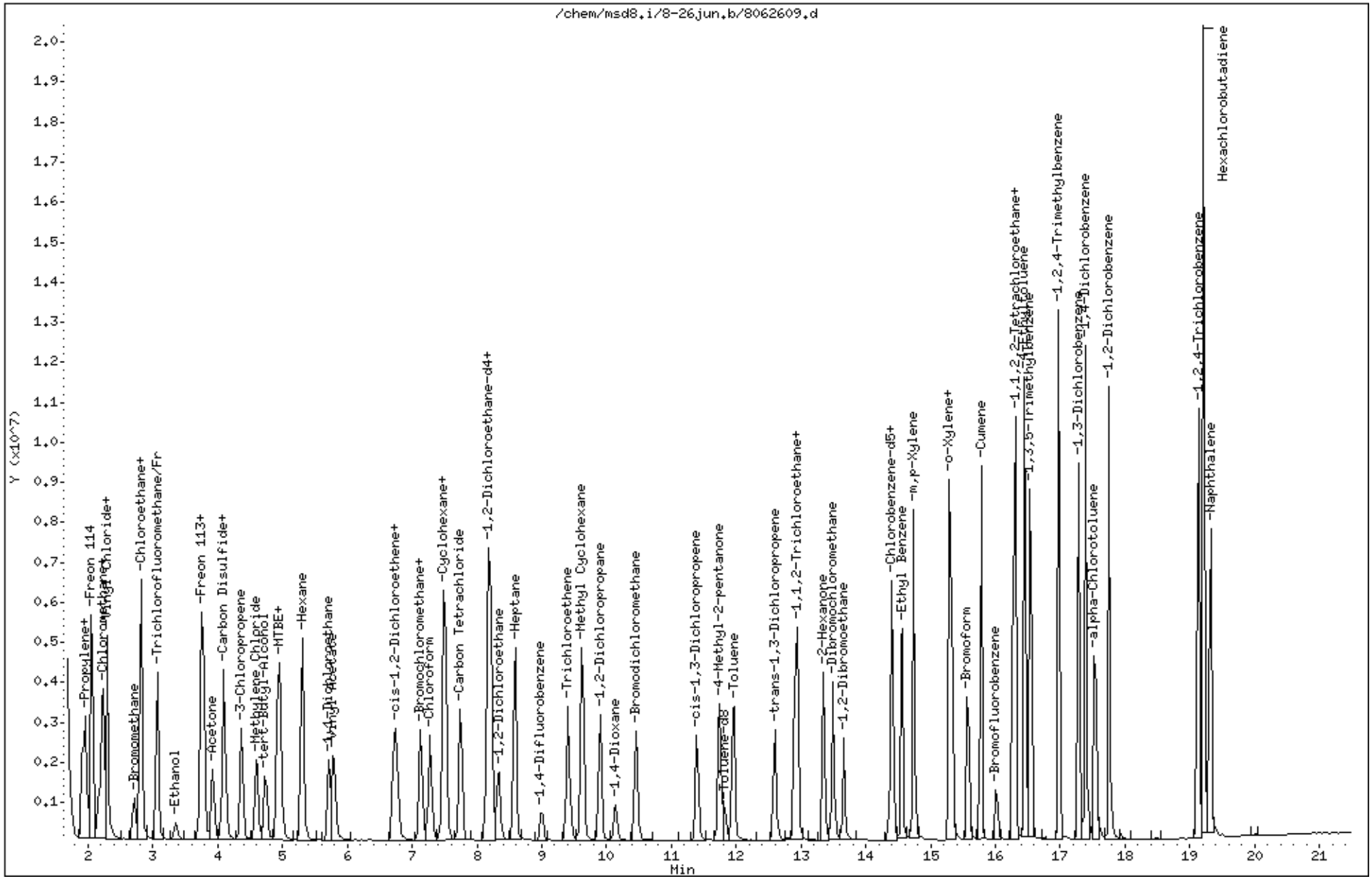
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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/8-26jun.b/8062609.d
Date : 26-JUN-2008 18:01
Client ID: Level 6
Sample Info: 100mL #1612-34

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-08jul.b/8070809.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 08-JUL-2008 16:18
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #1541-189
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-08jul.b/t14q626c.m
Meth Date : 08-Jul-2008 16:58 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.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	218496	25.0000		70.00- 130.00		100.00
7.159	7.159 (1.000)	128	171582			48.44- 108.44		78.53
7.131	7.131 (1.000)	49	484560			187.47- 247.47		221.77
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	714358	25.0000		70.00- 130.00		100.00
9.012	9.012 (1.000)	88	110491			0.00- 46.46		15.47
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	560293	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	341317			0.00- 30.00		60.92
7 Isobutane						CAS #: 75-28-5		
2.072	2.072 (0.289)	43	8196506	200.000	176.80	70.00- 130.00		100.00
2.072	2.072 (0.289)	42	2723044			0.00- 30.00		33.22
2.072	2.072 (0.289)	58	193581			0.00- 30.00		2.36
19 Pentane						CAS #: 109-66-0		
3.150	3.150 (0.440)	43	10220428	200.000	191.52	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.440)	57	1324290			0.00- 30.00	12.96
3.150	3.150 (0.440)	72	739519			0.00- 30.00	7.24
25 Acrolein					CAS #: 107-02-8		
3.730	3.730 (0.521)	55	1421854	200.000	187.14	70.00- 130.00	100.00
3.730	3.730 (0.521)	56	1948635			0.00- 30.00	137.05
35 Acetonitrile					CAS #: 75-05-8		
4.449	4.449 (0.622)	40	1652911	200.000	126.32	70.00- 130.00	100.00
4.449	4.449 (0.622)	41	2626941			0.00- 30.00	158.93
4.449	4.449 (0.622)	38	312273			0.00- 30.00	18.89
41 Acrylonitrile					CAS #: 107-13-1		
5.085	5.085 (0.710)	53	3949541	200.000	194.82	70.00- 130.00	100.00
5.085	5.085 (0.710)	52	3422974			0.00- 30.00	86.67
44 1-Pentene					CAS #: 109-67-1		
3.095	3.095 (0.432)	55	5210532	200.000	192.06	70.00- 130.00	100.00(T)
3.095	3.095 (0.432)	42	8675713			0.00- 30.00	166.50
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.454	3.454 (0.482)	74	1980351	200.000	183.45	70.00- 130.00	100.00(T)
3.454	3.454 (0.482)	59	3300941			0.00- 30.00	166.68
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.062	4.062 (0.567)	142	7238895	200.000	185.51	70.00- 130.00	100.00
4.062	4.062 (0.567)	127	2854682			0.00- 30.00	39.44
62 1-Hexene					CAS #: 592-41-6		
5.196	5.196 (0.726)	55	3248344	200.000	206.32	70.00- 130.00	100.00(A)
5.196	5.196 (0.726)	41	5495227			0.00- 30.00	169.17
5.196	5.196 (0.726)	84	1045671			0.00- 30.00	32.19
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.965)	55	7394426	200.000	212.07	70.00- 130.00	100.00(A)
6.910	6.910 (0.965)	85	894035			0.00- 30.00	12.09
6.910	6.910 (0.965)	58	645713			0.00- 30.00	8.73
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.129)	41	6300452	200.000	230.32	70.00- 130.00	100.00(A)
10.173	10.173 (1.129)	69	2932240			0.00- 30.00	46.54
10.173	10.173 (1.129)	100	1119040			0.00- 30.00	17.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.869	9.869 (1.095)	43	11300677	200.000	225.70	70.00- 130.00	100.00(A)
9.896	9.896 (1.098)	58	718852			0.00- 30.00	6.36
9.896	9.896 (1.098)	86	1318515			0.00- 30.00	11.67
93 Ethyl Acrylate					CAS #: 140-88-5		
9.730	9.730 (1.080)	55	7601909	200.000	217.64	70.00- 130.00	100.00(A)
9.730	9.730 (1.080)	99	387597			0.00- 30.00	5.10
9.730	9.730 (1.080)	45	798372			0.00- 30.00	10.50
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.126)	174	3227842	200.000	201.75	70.00- 130.00	100.00(A)
10.145	10.145 (1.126)	93	3190501			0.00- 30.00	98.84
10.145	10.145 (1.126)	95	2630114			0.00- 30.00	81.48
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.366	16.366 (1.138)	89	1218082	200.000	232.30	70.00- 130.00	100.00(A)
16.339	16.339 (1.137)	53	3177222			0.00- 30.00	260.84
16.366	16.366 (1.138)	124	402508			0.00- 30.00	33.04
121 Alphamethylstyrene					CAS #: 98-83-9		
16.836	16.836 (1.171)	118	4716325	200.000	256.14	70.00- 130.00	100.00(A)
16.809	16.809 (1.169)	103	3035101			0.00- 30.00	64.35
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	6766540	200.000	240.69	70.00- 130.00	100.00(A)
17.279	17.279 (1.202)	95	2171451			0.00- 30.00	32.09
17.279	17.279 (1.202)	63	5463597			0.00- 30.00	80.74
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	9085440	200.000	225.62	70.00- 130.00	100.00(A)
14.763	14.763 (1.027)	57	6672789			0.00- 30.00	73.44
14.763	14.763 (1.027)	85	1909411			0.00- 30.00	21.02
199 Cyclopentane					CAS #: 287-92-3		
4.560	4.560 (0.637)	70	2385743	200.000	188.24	70.00- 130.00	100.00
4.560	4.560 (0.637)	55	3855652			0.00- 30.00	161.61

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 08-Jul-2008 16:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070809.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-08jul.b/t14q626c.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 08-JUL-2008
Calibration Time: 09:20
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	211494	126896	296092	218496	3.31
88 1,4-Difluorobenze	774038	464423	1083653	714358	-7.71
125 Chlorobenzene-d5	567266	340360	794172	560293	-1.23

		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.

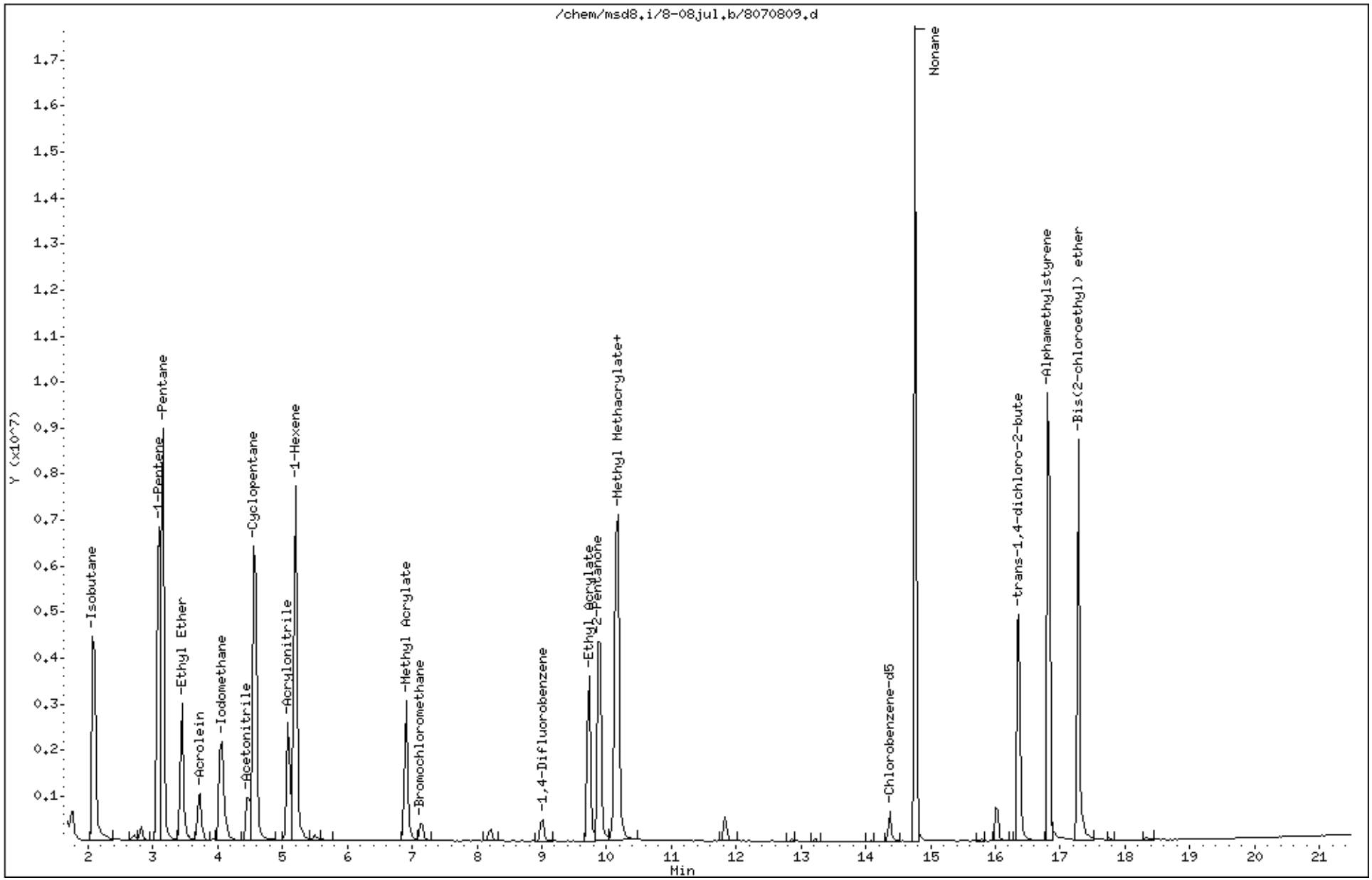
0191

Data File: /chem/msd8.i/8-08jul.b/8070809.d
Date : 08-JUL-2008 16:18
Client ID: Level 7
Sample Info: 200mL #1541-189

Column phase: RTx-624

Instrument: msd8.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-01jul.b/8070104.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 01-JUL-2008 10:13
Operator : ct Inst ID: msd8.i
Smp Info : 200mL #1541-200
Misc Info : 200ppbv (200ppbv) sp36b
Comment :
Method : /chem/msd8.i/8-01jul.b/t14q626b.m
Meth Date : 01-Jul-2008 12:10 ctaylor Quant Type: ISTD
Cal Date : 01-JUL-2008 10:13 Cal File: 8070104.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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	264106	25.0000		70.00- 130.00		100.00
7.132	7.132 (1.000)	128	208892			46.77- 106.77		79.09
7.132	7.132 (1.000)	49	571628			181.91- 241.91		216.44
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.012	9.012 (1.000)	114	951013	25.0000		70.00- 130.00		100.00
8.984	8.984 (1.000)	88	153047			0.00- 45.87		16.09
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	726769	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	433408			0.00- 30.00		59.63
1 Freon 152a					CAS #: 75-37-6			
1.934	1.934 (0.271)	65	2502078	200.000	162.04	70.00- 130.00		100.00
1.961	1.961 (0.275)	51	13814265			0.00- 30.00		552.11
2 Freon 22					CAS #: 75-45-6			
1.961	1.961 (0.275)	67	940246	200.000	157.19	70.00- 130.00		100.00
1.961	1.961 (0.275)	51	13814265			0.00- 30.00		1469.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.851	1.851 (0.259)	83	3543475	200.000	162.60	70.00- 130.00	100.00
1.823	1.823 (0.256)	69	13922477			0.00- 30.00	392.90
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.067	3.067 (0.430)	67	6093497	200.000	166.89	70.00- 130.00	100.00
3.067	3.067 (0.430)	69	1852970			0.00- 30.00	30.41
2.791	2.791 (0.391)	35	2667			0.00- 30.00	0.04
20 Freon123a					CAS #: 354-23-4		
3.537	3.537 (0.496)	67	3977316	200.000	159.38	70.00- 130.00	100.00
3.537	3.537 (0.496)	117	2606139			0.00- 30.00	65.53
21 Freon123					CAS #: 306-83-2		
3.620	3.620 (0.508)	83	485614	200.000	158.61	70.00- 130.00	100.00
3.620	3.620 (0.508)	133	81951			0.00- 30.00	16.88
3.620	3.620 (0.508)	85	337777			0.00- 30.00	69.56
27 Freon142b					CAS #: 75-68-3		
2.127	2.127 (0.298)	65	7602471	200.000	172.68	70.00- 130.00	100.00
2.127	2.127 (0.298)	45	2434398			0.00- 30.00	32.02
32 Freon143a					CAS #: 420-46-2		
1.823	1.823 (0.256)	65	1709591	200.000	169.08	70.00- 130.00	100.00
1.823	1.823 (0.256)	69	13955443			0.00- 30.00	816.30
49 Isopropyl ether					CAS #: 108-20-3		
5.722	5.722 (0.802)	45	16416748	200.000	177.76	70.00- 130.00	100.00
5.722	5.722 (0.802)	87	2866212			0.00- 30.00	17.46
5.722	5.722 (0.802)	59	1494126			0.00- 30.00	9.10
52 1-Propanol					CAS #: 71-23-8		
5.915	5.915 (0.829)	42	872866	200.000	167.98	70.00- 130.00	100.00
5.915	5.915 (0.829)	59	834730			0.00- 30.00	95.63
5.915	5.915 (0.829)	41	588850			0.00- 30.00	67.46
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.330	6.330 (0.888)	59	11337951	200.000	186.00	70.00- 130.00	100.00
6.357	6.357 (0.891)	87	3709663			0.00- 30.00	32.72
6.330	6.330 (0.888)	41	2744522			0.00- 30.00	24.21
61 Ethyl Acetate					CAS #: 141-78-6		
6.827	6.827 (0.957)	70	785312	200.000	177.45	70.00- 130.00	100.00
6.827	6.827 (0.957)	45	1530316			0.00- 30.00	194.87
6.827	6.827 (0.957)	61	1178582			0.00- 30.00	150.08

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
78 Isobutanol						CAS #: 78-83-1	
8.182	8.182 (0.908)	43	3721823	200.000	199.17	70.00- 130.00	100.00
8.155	8.155 (0.905)	41	2897619			0.00- 30.00	77.85
79 tert-amyl-Methyl Ether						CAS #: 994-05-8	
8.376	8.376 (1.174)	73	8069430	200.000	183.32	70.00- 130.00	100.00
8.376	8.376 (1.174)	87	1936822			0.00- 30.00	24.00
8.376	8.376 (1.174)	55	3181438			0.00- 30.00	39.43
89 1-Butanol						CAS #: 71-36-3	
9.454	9.454 (1.049)	56	2649069	200.000	204.12	70.00- 130.00	100.00(A)
9.454	9.454 (1.049)	41	2313228			0.00- 30.00	87.32
9.454	9.454 (1.049)	43	1769937			0.00- 30.00	66.81
113 Butyl Acetate						CAS #: 123-86-4	
13.546	13.546 (1.503)	56	3491266	200.000	214.10	70.00- 130.00	100.00(A)
13.546	13.546 (1.503)	73	990333			0.00- 30.00	28.37
13.546	13.546 (1.503)	43	10265304			0.00- 30.00	294.03
120 Diisobutyl Ketone						CAS #: 108-83-8	
16.754	16.754 (1.165)	57	11411902	200.000	211.82	70.00- 130.00	100.00(A)
16.754	16.754 (1.165)	85	7089935			31.03- 91.03	62.13
133 2-Heptanone						CAS #: 110-43-0	
15.537	15.537 (1.081)	58	5079718	200.000	249.55	70.00- 130.00	100.00(A)
15.537	15.537 (1.081)	43	10398973			0.00- 30.00	204.72
136 Cyclohexanone						CAS #: 108-94-1	
15.952	15.952 (1.110)	55	4649825	200.000	207.49	70.00- 130.00	100.00(A)
15.952	15.952 (1.110)	98	1521004			0.00- 30.00	32.71
15.952	15.952 (1.110)	42	3920800			0.00- 30.00	84.32
36 Cyclopentene						CAS #: 142-29-0	
4.422	4.422 (0.620)	67	9385935	200.000	178.22	70.00- 130.00	100.00
4.422	4.422 (0.620)	68	3478971			0.00- 30.00	37.07
4.394	4.394 (0.616)	53	2262111			0.00- 30.00	24.10
60 2,2-Dichloropropane						CAS #: 594-20-7	
6.662	6.662 (0.934)	77	6573192	200.000	182.34	70.00- 130.00	100.00
6.662	6.662 (0.934)	79	2007058			0.07- 60.07	30.53
6.662	6.662 (0.934)	97	1177531			0.00- 30.00	17.91
72 1,1-Dichloropropene						CAS #: 563-58-6	
7.823	7.823 (1.097)	110	1653274	200.000	170.95	70.00- 130.00	100.00
7.823	7.823 (1.097)	75	4861918			0.00- 30.00	294.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.463)	76	4383082	200.000	169.44	70.00- 130.00	100.00
13.187	13.187 (1.463)	41	4861686			81.94- 141.94	110.92
13.187	13.187 (1.463)	78	1317378			0.00- 30.00	30.06
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	3610685	200.000	170.90	70.00- 130.00	100.00
14.569	14.569 (1.013)	117	2258200			0.00- 30.00	62.54
14.569	14.569 (1.013)	95	1648797			0.00- 30.00	45.66
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	4625883	200.000	166.95	70.00- 130.00	100.00
16.173	16.173 (1.125)	77	8542575			140.66- 200.66	184.67
16.173	16.173 (1.125)	158	4453234			0.00- 30.00	96.27
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	2347803	200.000	169.81	70.00- 130.00	100.00
16.311	16.311 (1.135)	61	1987485			0.00- 30.00	84.65
16.311	16.311 (1.135)	112	1493619			0.00- 30.00	63.62
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	3471630	200.000	175.22	70.00- 130.00	100.00
16.422	16.422 (1.142)	91	12014040			303.11- 363.11	346.06
16.422	16.422 (1.142)	65	1309380			0.00- 30.00	37.72
146 4-Chlorotoluene					CAS #: 106-43-4		
16.560	16.560 (1.152)	126	3195446	200.000	172.21	70.00- 130.00	100.00
16.560	16.560 (1.152)	91	11603417			325.08- 385.08	363.12
16.560	16.560 (1.152)	63	2037882			0.00- 30.00	63.77
150 tert-Butylbenzene					CAS #: 98-06-6		
16.920	16.920 (1.177)	119	15394823	200.000	181.36	70.00- 130.00	100.00
16.920	16.920 (1.177)	134	3286749			0.00- 52.04	21.35
16.920	16.920 (1.177)	91	9065696			0.00- 30.00	58.89
151 Pentachloroethane					CAS #: 76-01-7		
16.975	16.975 (1.181)	167	3638893	200.000	181.51	70.00- 130.00	100.00
16.947	16.947 (1.179)	117	3839433			0.00- 30.00	105.51
152 sec-Butylbenzene					CAS #: 135-98-8		
17.141	17.141 (1.192)	105	18258240	200.000	188.43	70.00- 130.00	100.00
17.141	17.141 (1.192)	134	3367570			0.00- 48.72	18.44
17.141	17.141 (1.192)	91	3190582			0.00- 30.00	17.47
154 p-Cymene					CAS #: 99-87-6		
17.307	17.307 (1.204)	134	4056170	200.000	185.80	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.307	17.307 (1.204)	119	16250258			395.25- 455.25	400.63
17.307	17.307 (1.204)	91	5134127			0.00- 30.00	126.58
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	5326403	200.000	190.98	70.00- 130.00	100.00
17.417	17.417 (1.212)	105	14031574			233.16- 293.16	263.43
17.417	17.417 (1.212)	77	2019893			0.00- 30.00	37.92
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	4575256	200.000	192.10	70.00- 130.00	100.00
17.721	17.721 (1.233)	91	15722435			318.79- 378.79	343.64
17.721	17.721 (1.233)	92	8957206			0.00- 30.00	195.77
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	4698772	200.000	203.40	70.00- 130.00	100.00(A)
18.468	18.468 (1.285)	75	6112884			101.55- 161.55	130.10
18.468	18.468 (1.285)	155	3673858			0.00- 30.00	78.19

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8070104.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-01jul.b/t14q626b.m
Misc Info: 200ppbv (200ppbv) sp36b

Calibration Date: 01-JUL-2008
Calibration Time: 11:33
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	262106	157264	366948	264106	0.76
88 1,4-Difluorobenze	954357	572614	1336100	951013	-0.35
125 Chlorobenzene-d5	725376	435226	1015526	726769	0.19

		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.

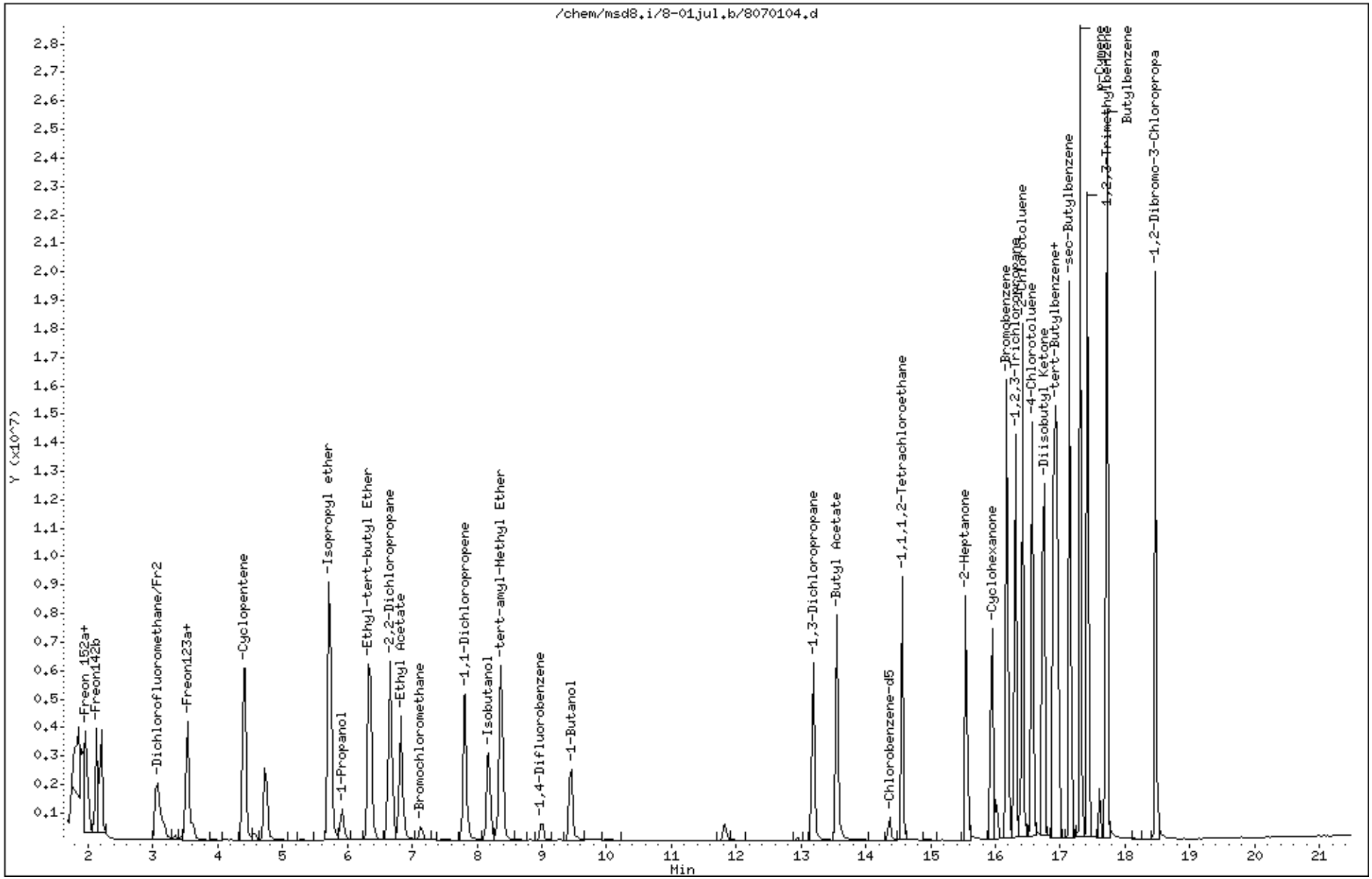
0198

Data File: /chem/msd8.i/8-01jul.b/8070104.d
Date : 01-JUL-2008 10:13
Client ID: Level 7
Sample Info: 200mL #1541-200

Instrument: msd8.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26jun.b/8062610.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 26-JUN-2008 18:30
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1612-34
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-26jun.b/t14q626a.m
Meth Date : 27-Jun-2008 08:42 sscott Quant Type: ISTD
Cal Date : 26-JUN-2008 18:30 Cal File: 8062610.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	7.132 (1.000)	130	289510	25.0000		80.00- 120.00	100.00
7.131	7.132 (1.000)	128	218428			45.69- 105.69	75.45
7.131	7.132 (1.000)	49	653966			174.17- 234.17	225.89
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1117563	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	184304			0.00- 46.10	16.49
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	884889	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	554396			0.00- 30.00	62.65
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	561845	25.0000	27.191	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	445771			0.00- 30.00	79.34
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1036946	25.0000	26.375	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	127967			0.00- 30.00	12.34

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	876993			0.00- 30.00	84.57
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	566341	25.0000	25.205	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	767222			111.32- 171.32	135.47
16.035	16.035 (1.115)	176	547257			70.84- 130.84	96.63
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	4477096	200.000	171.40	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	2905240			0.00- 30.00	64.89
1.906	1.906 (0.267)	39	3170339			0.00- 30.00	70.81
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	9690150	200.000	162.14	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	2987281			0.00- 30.00	30.83
6 Freon 114					CAS #: 76-14-2		
2.072	2.044 (0.290)	135	7060760	200.000	162.80	80.00- 120.00	100.00
2.072	2.044 (0.290)	137	2209205			0.75- 60.75	31.29
8 Chloromethane					CAS #: 74-87-3		
2.182	2.155 (0.306)	50	4871302	200.000	174.84	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	1451824			0.00- 30.00	29.80
9 Butane					CAS #: 106-97-8		
2.237	2.238 (0.314)	58	1079577	200.000	168.28	80.00- 120.00	100.00
2.237	2.238 (0.314)	43	9648888			0.00- 30.00	893.77
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	4682028	200.000	160.36	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	1443903			0.00- 30.00	30.84
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	4312464	200.000	156.98	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	3874468			0.00- 30.00	89.84
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	3056388	200.000	174.69	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	2799131			63.37- 123.37	91.58
16 Chloroethane					CAS #: 75-00-3		
2.818	2.791 (0.395)	64	2404078	200.000	188.54	80.00- 120.00	100.00
2.818	2.791 (0.395)	49	790402			0.00- 30.00	32.88
2.818	2.791 (0.395)	66	725286			0.00- 30.00	30.17

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	7650455	200.000	180.96	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	4501225			0.00- 30.00	58.84
2.818	2.818 (0.395)	72	409535			0.00- 30.00	5.35
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	9994439	200.000	160.04	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	6442673			35.14- 95.14	64.46
23 Ethanol					CAS #: 64-17-5		
3.371	3.344 (0.473)	45	1873650	200.000	163.17	80.00- 120.00	100.00
3.371	3.344 (0.473)	43	362501			0.00- 30.00	19.35
3.371	3.344 (0.473)	46	725382			0.00- 30.00	38.71
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	5638406	200.000	163.86	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	3559435			35.65- 95.65	63.13
3.758	3.758 (0.527)	101	7096613			97.12- 157.12	125.86
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	7023655	200.000	171.75	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	3527941			20.51- 80.51	50.23
3.786	3.786 (0.531)	98	2234925			2.67- 62.67	31.82
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	2392515	200.000	188.39	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	8688234			0.00- 30.00	363.14
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	11755907	200.000	167.78	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	9837003	200.000	196.07	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	2095522			0.00- 30.00	21.30
4.118	4.090 (0.577)	59	320782			0.00- 30.00	3.26
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	1861646	200.000	188.07	80.00- 120.00	100.00
4.367	4.367 (0.612)	41	7800045			0.00- 30.00	418.99
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	5269801	200.000	146.99	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	1648604			0.00- 30.00	31.28
4.726	4.726 (0.663)	57	567295			0.00- 30.00	10.77
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.588 (0.647)	49	6000301	200.000	168.98	80.00- 120.00	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	4.588 (0.647)	84	3210846			23.97- 83.97	53.51
4.615	4.588 (0.647)	51	1835494			0.00- 30.00	30.59
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	9636553	200.000	177.78	80.00- 120.00	100.00
4.920	4.920 (0.690)	57	2717411			0.00- 58.88	28.20
4.920	4.920 (0.690)	41	3259929			0.00- 30.00	33.83
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	3957753	200.000	166.16	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	6946066			143.16- 203.16	175.51
4.975	4.975 (0.698)	98	2508501			0.00- 30.00	63.38
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	8501912	200.000	188.24	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	6252407			0.00- 30.00	73.54
5.307	5.307 (0.744)	86	1121372			0.00- 30.00	13.19
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	7771792	200.000	171.27	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	2290622			0.00- 59.09	29.47
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	977553	200.000	206.14	80.00- 120.00	100.00(A)
5.777	5.804 (0.810)	43	14823654			0.00- 30.00	1516.40
5.777	5.804 (0.810)	42	1274148			0.00- 30.00	130.34
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	5794913	200.000	176.69	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	3510224			31.74- 91.74	60.57
6.717	6.717 (0.942)	98	2227977			9.91- 69.91	38.45
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	1883665	200.000	201.57	80.00- 120.00	100.00(A)
6.772	6.772 (0.950)	43	11100470			581.97- 641.97	589.30
6.772	6.772 (0.950)	57	761724			0.00- 30.00	40.44
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.132 (1.000)	42	6582892	200.000	184.20	80.00- 120.00	100.00
7.131	7.132 (1.000)	71	1663472			0.00- 56.52	25.27
7.131	7.132 (1.000)	72	1787501			0.00- 30.00	27.15
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	6968606	200.000	163.01	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	4521896			34.39- 94.39	64.89

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	5241910	200.000	185.08	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	8006262			124.01- 184.01	152.74
7.491	7.491 (1.050)	41	5203160			72.72- 132.72	99.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	7441379	200.000	176.98	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	4777422			33.81- 93.81	64.20
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	7243082	200.000	184.67	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	7458893			72.33- 132.33	102.98
81 Benzene					CAS #: 71-43-2		
8.154	8.155 (0.905)	78	10581382	200.000	168.22	80.00- 120.00	100.00
8.154	8.155 (0.905)	77	2516092			0.00- 30.00	23.78
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	24381349	200.000	189.89	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	7574034			0.00- 30.00	31.06
8.210	8.210 (1.151)	41	7594085			0.00- 30.00	31.15
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	5992440	200.000	170.74	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	1836142			0.00- 30.00	30.64
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	1166278	200.000	167.38	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	9859855			0.00- 30.00	845.41
8.597	8.597 (0.954)	71	3811827			0.00- 30.00	326.84
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	4300209	200.000	169.50	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	4061195			61.15- 121.15	94.44
9.399	9.399 (1.043)	97	2675583			30.36- 90.36	62.22
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	6374040	200.000	181.87	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	2918298			0.00- 30.00	45.78
9.620	9.620 (1.349)	55	7032433			0.00- 30.00	110.33
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.897 (1.098)	63	3990345	200.000	172.77	80.00- 120.00	100.00
9.896	9.897 (1.098)	62	2815863			39.09- 99.09	70.57
9.896	9.897 (1.098)	41	3453868			62.28- 122.28	86.56

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	2324798	200.000	191.09	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	2108370			60.77- 120.77	90.69
10.145	10.145 (1.126)	57	721947			0.00- 30.00	31.05
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.450 (1.160)	83	6930457	200.000	176.28	80.00- 120.00	100.00
10.449	10.450 (1.160)	85	4400880			32.83- 92.83	63.50
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.390 (1.264)	75	5122857	200.000	185.90	80.00- 120.00	100.00
11.389	11.390 (1.264)	77	1613699			1.15- 61.15	31.50
11.389	11.390 (1.264)	39	4441371			59.41- 119.41	86.70
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	3589093	200.000	209.16	80.00- 120.00	100.00(A)
11.749	11.749 (1.304)	43	11308946			0.00- 30.00	315.09
11.749	11.749 (1.304)	85	1282566			0.00- 30.00	35.74
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	10483225	200.000	179.56	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	6204046			28.57- 88.57	59.18
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	5587661	200.000	190.03	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	1744739			1.52- 61.52	31.22
12.578	12.606 (0.875)	39	4379545			49.92- 109.92	78.38
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	3360082	200.000	175.10	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	2063542			30.92- 90.92	61.41
12.910	12.910 (0.898)	83	2944982			57.10- 117.10	87.65
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	4843510	200.000	166.15	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	3440196			42.21- 102.21	71.03
12.938	12.938 (0.900)	131	3343711			39.27- 99.27	69.03
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	4918304	200.000	213.57	80.00- 120.00	100.00(A)
13.353	13.353 (0.929)	43	11069488			200.42- 260.42	225.07
13.353	13.353 (0.929)	100	775862			0.00- 30.00	15.77
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	5943835	200.000	194.97	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	4523099			0.00- 30.00	76.10

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	5565717	200.000	173.95	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	5258404			64.07- 124.07	94.48
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	8579832	200.000	174.59	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	2575113			0.00- 59.64	30.01
14.403	14.403 (1.002)	77	5575183			37.48- 97.48	64.98
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	4375305	200.000	180.18	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	15297745			0.00- 30.00	349.64
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	5731939	200.000	188.33	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	12695636			0.00- 30.00	221.49
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	5492993	200.000	188.77	80.00- 120.00	100.00
15.288	15.288 (1.063)	91	13205102			201.90- 261.90	240.40
134 Styrene					CAS #: 100-42-5		
15.343	15.344 (1.067)	104	8921448	200.000	207.27	80.00- 120.00	100.00(A)
15.316	15.344 (1.065)	78	5056150			27.42- 87.42	56.67
135 Bromoform					CAS #: 75-25-2		
15.565	15.592 (1.083)	173	6013183	200.000	195.04	80.00- 120.00	100.00
15.565	15.592 (1.083)	171	3078659			21.24- 81.24	51.20
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	17343369	200.000	185.10	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	4339535			0.00- 30.00	25.02
15.786	15.786 (1.098)	51	2550900			0.00- 30.00	14.71
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	8021878	200.000	188.22	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	5061343			33.48- 93.48	63.09
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	18201622	200.000	166.50	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	4742000			0.00- 30.00	26.05
16.311	16.311 (1.135)	105	753657			0.00- 30.00	4.14
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	17892759	200.000	195.71	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	5239142			0.00- 58.65	29.28

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	15096923	200.000	187.55	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	6958881			0.00- 30.00	46.09
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	15729264	200.000	181.58	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	7075873			12.98- 72.98	44.99
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	9423367	200.000	186.58	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	5946705			0.00- 30.00	63.11
17.279	17.279 (1.202)	111	4136550			0.00- 30.00	43.90
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.390 (1.210)	146	10878690	200.000	156.82	80.00- 120.00	100.00
17.389	17.390 (1.210)	148	6799551			0.00- 30.00	62.50
17.389	17.390 (1.210)	111	4559418			0.00- 30.00	41.91
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.555 (1.219)	91	13713133	200.000	205.10	80.00- 120.00	100.00(A)
17.555	17.555 (1.221)	126	2503165			0.00- 30.00	18.25
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	9839620	200.000	167.47	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	6099741			32.86- 92.86	61.99
17.749	17.749 (1.235)	111	4623082			17.88- 77.88	46.98
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	10995772	200.000	175.59	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	10503029			65.23- 125.23	95.52
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	7032540	200.000	159.49	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	4410529			34.36- 94.36	62.72
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	18577951	200.000	165.89	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	2568437			0.00- 30.00	13.83

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8062610.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-26jun.b/t14q626a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 26-JUN-2008
Calibration Time: 17:33
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	280597	168358	392836	289510	3.18
88 1,4-Difluorobenze	1012106	607264	1416948	1117563	10.42
125 Chlorobenzene-d5	774104	464462	1083746	884889	14.31

		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

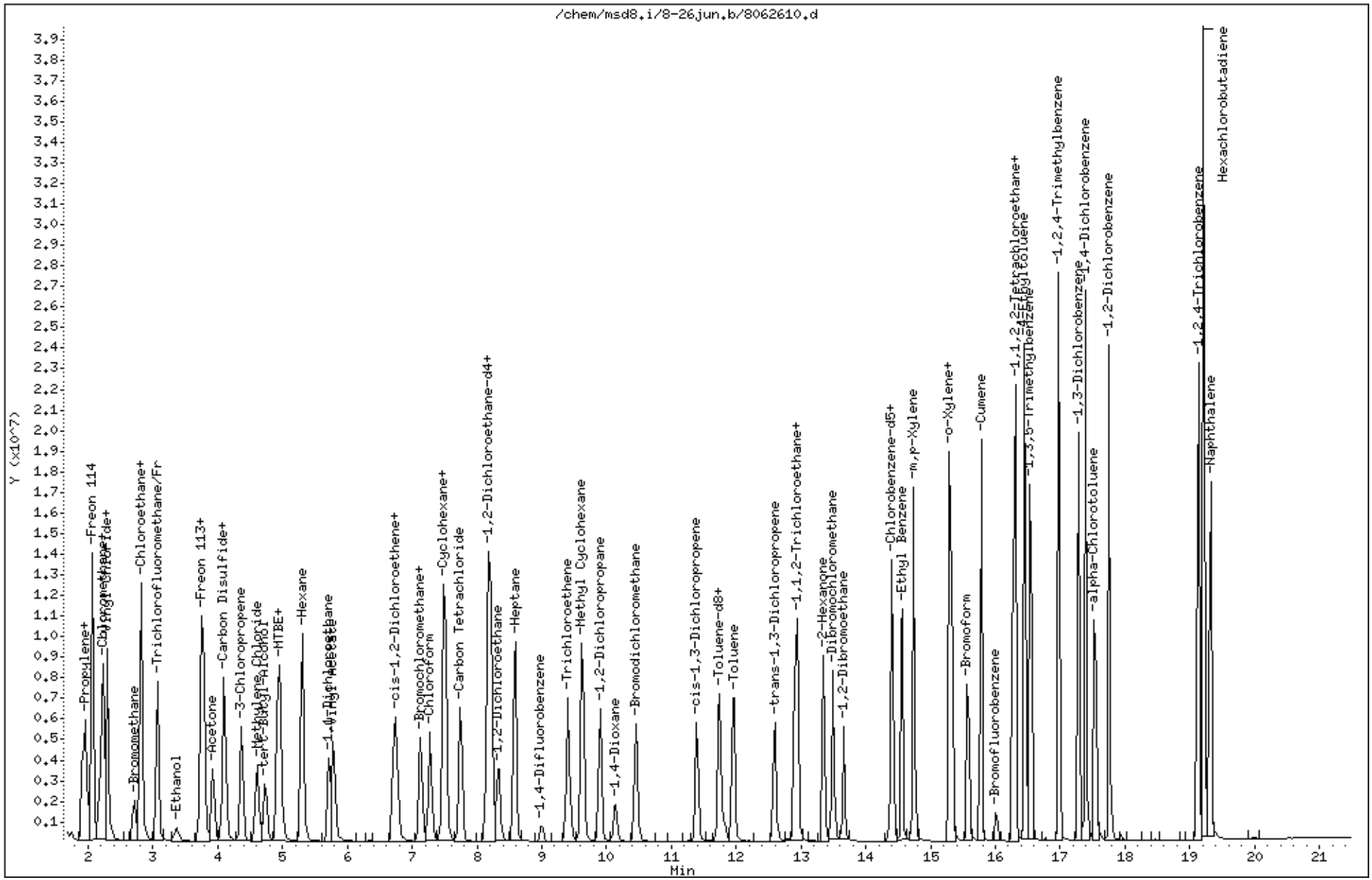
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0208

Data File: /chem/msd8.i/8-26jun.b/8062610.d
Date : 26-JUN-2008 18:30
Client ID: Level 7
Sample Info: 200mL #1612-34

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807189-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 09:08 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	90
Vinyl Chloride	86
Bromomethane	85
Chloroethane	98
Freon 11	93
1,1-Dichloroethene	90
Freon 113	94
Methylene Chloride	90
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	89
Chloroform	84
1,1,1-Trichloroethane	93
Carbon Tetrachloride	100
Benzene	86
1,2-Dichloroethane	99
Trichloroethene	90
1,2-Dichloropropane	86
cis-1,3-Dichloropropene	89
Toluene	88
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	90
Tetrachloroethene	89
1,2-Dibromoethane (EDB)	89
Chlorobenzene	86
Ethyl Benzene	87
m,p-Xylene	91
o-Xylene	91
Styrene	92
1,1,2,2-Tetrachloroethane	88
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	84
1,3-Butadiene	80
Hexane	93
Cyclohexane	85

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0807189-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 09:08 AM**	

Compound	%Recovery
Heptane	86
Bromodichloromethane	98
Dibromochloromethane	99
Cumene	91
Propylbenzene	98
Chloromethane	88
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	93
Acetone	95
Carbon Disulfide	83
2-Propanol	92
trans-1,2-Dichloroethene	82
2-Butanone (Methyl Ethyl Ketone)	88
Tetrahydrofuran	84
1,4-Dioxane	87
4-Methyl-2-pentanone	96
2-Hexanone	95
Bromoform	98
4-Ethyltoluene	98
Ethanol	94
Methyl tert-butyl ether	92
3-Chloropropene	92
2,2,4-Trimethylpentane	86
Naphthalene	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-JUL-2008 09:08
Lab File ID: 8072102.d Init. Cal. Date(s): 26-JUN-2008 08-JUL-2008
Analysis Type: AIR Init. Cal. Times: 15:42 16:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21jul.b/t14q626c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 82 1,2-Dichloroethane-d4	1.78429	1.92171	0.010	-7.70203	30.00000	Averaged
$ 104 Toluene-d8	0.87949	0.94026	0.010	-6.90940	30.00000	Averaged
$ 140 Bromofluorobenzene	0.63480	0.65053	0.010	-2.47842	30.00000	Averaged
3 Propylene	2.25556	1.88909	0.010	16.24740	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	5.16061	4.76971	0.010	7.57469	30.00000	Averaged
6 Freon 114	3.74517	3.38809	0.010	9.53431	30.00000	Averaged
8 Chloromethane	2.40593	2.12603	0.010	11.63384	30.00000	Averaged
11 Vinyl Chloride	2.52132	2.15895	0.010	14.37194	30.00000	Averaged
10 1,3-Butadiene	2.37216	1.89150	0.010	20.26252	30.00000	Averaged
13 Bromomethane	1.51085	1.28161	0.010	15.17302	30.00000	Averaged
16 Chloroethane	1.10107	1.07363	0.010	2.49192	30.00000	Averaged
18 Trichlorofluoromethane/Fr11	5.39280	5.04175	0.010	6.50947	30.00000	Averaged
23 Ethanol	0.99158	0.93755	0.010	5.44884	30.00000	Averaged
28 Freon 113	2.97142	2.80375	0.010	5.64294	30.00000	Averaged
29 1,1-Dichloroethene	3.53143	3.16667	0.010	10.32896	30.00000	Averaged
30 Acetone	1.09669	1.04193	0.010	4.99286	30.00000	Averaged
34 2-Propanol	4.33237	4.00839	0.010	7.47801	30.00000	Averaged
33 Carbon Disulfide	6.05034	5.04250	0.010	16.65757	30.00000	Averaged
37 3-Chloropropene	0.85480	0.79005	0.010	7.57413	30.00000	Averaged
40 Methylene Chloride	3.06637	2.76933	0.010	9.68686	30.00000	Averaged
43 MTBE	4.68083	4.28341	0.010	8.49028	30.00000	Averaged
45 trans-1,2-Dichloroethene	2.05684	1.68934	0.010	17.86734	30.00000	Averaged
46 Hexane	3.90011	3.61715	0.010	7.25515	30.00000	Averaged
54 1,1-Dichloroethane	3.91848	3.41815	0.010	12.76831	30.00000	Averaged
55 Vinyl Acetate	0.40950	0.38232	0.010	6.63816	30.00000	Averaged
65 2-Butanone	0.80697	0.71126	0.010	11.85953	30.00000	Averaged
64 cis-1,2-Dichloroethene	2.83207	2.52939	0.010	10.68776	30.00000	Averaged
67 Tetrahydrofuran	3.08597	2.60581	0.010	15.55934	30.00000	Averaged
70 Chloroform	3.69144	3.09892	0.010	16.05108	30.00000	Averaged
75 1,1,1-Trichloroethane	3.63085	3.39224	0.010	6.57181	30.00000	Averaged
73 Cyclohexane	2.44573	2.08047	0.010	14.93453	30.00000	Averaged
77 Carbon Tetrachloride	3.38694	3.39397	0.010	-0.20772	30.00000	Averaged
80 2,2,4-Trimethylpentane	11.08736	9.54079	0.010	13.94894	30.00000	Averaged
81 Benzene	1.40711	1.21316	0.010	13.78386	30.00000	Averaged
83 1,2-Dichloroethane	0.78510	0.77869	0.010	0.81678	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-JUL-2008 09:08
Lab File ID: 8072102.d Init. Cal. Date(s): 26-JUN-2008 08-JUL-2008
Analysis Type: AIR Init. Cal. Times: 15:42 16:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21jul.b/t14q626c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
85 Heptane	0.15587	0.13392	0.010	14.08141	30.00000	Averaged
94 Trichloroethene	0.56751	0.51137	0.010	9.89195	30.00000	Averaged
97 1,2-Dichloropropane	0.51668	0.44558	0.010	13.76047	30.00000	Averaged
98 1,4-Dioxane	0.27215	0.23658	0.010	13.06968	30.00000	Averaged
100 Bromodichloromethane	0.87949	0.86392	0.010	1.76962	30.00000	Averaged
102 cis-1,3-Dichloropropene	0.61645	0.55152	0.010	10.53276	30.00000	Averaged
103 4-Methyl-2-pentanone	0.38386	0.36994	0.010	3.62433	30.00000	Averaged
105 Toluene	1.30600	1.15043	0.010	11.91153	30.00000	Averaged
108 trans-1,3-Dichloropropene	0.83072	0.80783	0.010	2.75572	30.00000	Averaged
110 1,1,2-Trichloroethane	0.54214	0.48967	0.010	9.67907	30.00000	Averaged
112 Tetrachloroethene	0.82357	0.72984	0.010	11.38107	30.00000	Averaged
114 2-Hexanone	0.65063	0.62050	0.010	4.63003	30.00000	Averaged
116 Dibromochloromethane	0.86129	0.85299	0.010	0.96325	30.00000	Averaged
117 1,2-Dibromoethane	0.90396	0.80627	0.010	10.80641	30.00000	Averaged
126 Chlorobenzene	1.38840	1.19355	0.010	14.03383	30.00000	Averaged
129 Ethyl Benzene	0.68606	0.59414	0.010	13.39799	30.00000	Averaged
130 m,p-Xylene	0.85985	0.78639	0.010	8.54343	30.00000	Averaged
132 o-Xylene	0.82210	0.74960	0.010	8.81999	30.00000	Averaged
134 Styrene	1.21607	1.12501	0.010	7.48796	30.00000	Averaged
135 Bromoform	0.87102	0.85496	0.010	1.84349	30.00000	Averaged
144 1,1,2,2-Tetrachloroethane	1.20407	1.05452	0.010	12.42090	30.00000	Averaged
147 4-Ethyltoluene	2.58300	2.51914	0.010	2.47229	30.00000	Averaged
148 1,3,5-Trimethylbenzene	2.27412	2.14109	0.010	5.84971	30.00000	Averaged
153 1,2,4-Trimethylbenzene	2.44730	2.28492	0.010	6.63484	30.00000	Averaged
156 1,3-Dichlorobenzene	1.42686	1.27408	0.010	10.70754	30.00000	Averaged
157 1,4-Dichlorobenzene	1.95987	1.65566	0.010	15.52223	30.00000	Averaged
158 alpha-Chlorotoluene	1.88900	1.80321	0.010	4.54142	30.00000	Averaged
161 1,2-Dichlorobenzene	1.65998	1.39688	0.010	15.84964	30.00000	Averaged
167 1,2,4-Trichlorobenzene	1.76915	1.50460	0.010	14.95391	30.00000	Averaged
168 Hexachlorobutadiene	1.24578	1.15474	0.010	7.30727	30.00000	Averaged
145 Propylbenzene	3.08853	3.02766	0.010	1.97088	30.00000	Averaged
137 Cumene	2.64720	2.40636	0.010	9.09804	30.00000	Averaged
169 Naphthalene	3.16392	2.60948	0.010	17.52398	30.00000	Averaged
38 tert-Butyl-Alcohol	3.09583	3.07740	0.010	0.59553	40.00000	Averaged
9 Butane	0.55397	0.48704	0.010	12.08112	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 21-JUL-2008 09:08
Lab File ID: 8072102.d Init. Cal. Date(s): 26-JUN-2008 08-JUL-2008
Analysis Type: AIR Init. Cal. Times: 15:42 16:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-21jul.b/t14q626c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
15 Isopentane	3.65079	3.40335	0.010	6.77753	30.00000	Averaged
95 Methyl Cyclohexane	3.02645	2.41519	0.010	20.19710	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072102.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 21-JUL-2008 09:08
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1612-34
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.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	301456	25.0000		80.00- 120.00	100.00
7.159	7.159 (1.000)	128	239087			49.31- 109.31	79.31
7.132	7.132 (1.000)	49	646961			184.61- 244.61	214.61
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1065036	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	185941			0.00- 47.46	17.46
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	834138	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	525106			0.00- 30.00	62.95
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	579312	25.0000	26.926	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	324692			25.06- 85.06	56.05
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1001408	25.0000	26.727	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	130027			0.00- 42.67	12.98

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	725270			42.35- 102.35	72.43
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	542635	25.0000	25.620	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	742820			106.89- 166.89	136.89
16.035	16.035 (1.115)	176	536042			68.79- 128.79	98.79
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.270)	41	1138956	50.0000	41.876	80.00- 120.00	100.00
1.933	1.933 (0.270)	42	740411			0.00- 30.00	65.01
1.933	1.933 (0.270)	39	850484			0.00- 30.00	74.67
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.278)	85	2875715	50.0000	46.213	80.00- 120.00	100.00
1.989	1.989 (0.278)	87	894210			0.00- 30.00	31.10
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.289)	135	2042721	50.0000	45.233	80.00- 120.00	100.00
2.072	2.072 (0.289)	137	630055			0.84- 60.84	30.84
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.305)	50	1281808	50.0000	44.183	80.00- 120.00	100.00
2.182	2.182 (0.305)	52	372979			0.00- 30.00	29.10
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.321 (0.324)	62	1301659	50.0000	42.814	80.00- 120.00	100.00
2.321	2.321 (0.324)	64	399931			0.00- 30.00	30.72
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.324)	54	1140407	50.0000	39.869	80.00- 120.00	100.00
2.321	2.321 (0.324)	39	1036732			0.00- 30.00	90.91
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.382)	94	772699	50.0000	42.413	80.00- 120.00	100.00
2.735	2.735 (0.382)	96	705474			61.30- 121.30	91.30
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.394)	64	647306	50.0000	48.754	80.00- 120.00	100.00
2.818	2.818 (0.394)	49	222734			0.00- 30.00	34.41
2.818	2.818 (0.394)	66	193190			0.00- 30.00	29.85
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.432)	101	3039734	50.0000	46.745	80.00- 120.00	100.00
3.095	3.095 (0.432)	103	1969519			34.79- 94.79	64.79

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	565261	50.0000	47.276	80.00- 120.00	100.00
3.371	3.371 (0.471)	43	119358			0.00- 30.00	21.12
3.371	3.371 (0.471)	46	224041			0.00- 30.00	39.63
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.525)	151	1690413	50.0000	47.178	80.00- 120.00	100.00
3.758	3.758 (0.525)	153	1049265			32.07- 92.07	62.07
3.758	3.758 (0.525)	101	2029573			90.06- 150.06	120.06
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.814	3.814 (0.533)	61	1909223	50.0000	44.836	80.00- 120.00	100.00
3.814	3.814 (0.533)	96	910778			17.70- 77.70	47.70
3.814	3.814 (0.533)	98	582246			0.50- 60.50	30.50
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.548)	58	628192	50.0000	47.504	80.00- 120.00	100.00
3.924	3.924 (0.548)	43	2396374			0.00- 30.00	381.47
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.575)	45	2416708	50.0000	46.261	80.00- 120.00	100.00
4.118	4.118 (0.575)	43	610851			0.00- 30.00	25.28
4.118	4.118 (0.575)	59	80446			0.00- 30.00	3.33
33 Carbon Disulfide					CAS #: 75-15-0		
4.118	4.118 (0.575)	76	3040183	50.0000	41.671	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.394	4.394 (0.614)	76	476333	50.0000	46.213	80.00- 120.00	100.00
4.367	4.367 (0.610)	41	1937725			0.00- 30.00	406.80
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.645)	49	1669664	50.0000	45.156	80.00- 120.00	100.00
4.615	4.615 (0.645)	84	832214			19.84- 79.84	49.84
4.615	4.615 (0.645)	51	480920			0.00- 30.00	28.80
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.691)	73	2582520	50.0000	45.755	80.00- 120.00	100.00
4.947	4.947 (0.691)	57	757200			0.00- 59.32	29.32
4.947	4.947 (0.691)	41	940117			0.00- 30.00	36.40
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.695)	96	1018521	50.0000	41.066	80.00- 120.00	100.00
4.975	4.975 (0.695)	61	1868541			153.46- 213.46	183.46
4.975	4.975 (0.695)	98	649807			0.00- 30.00	63.80

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	2180825	50.0000	46.372	80.00- 120.00	100.00
5.334	5.334 (0.745)	43	1590002			0.00- 30.00	72.91
5.334	5.334 (0.745)	86	273184			0.00- 30.00	12.53
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.799)	63	2060845	50.0000	43.616	80.00- 120.00	100.00
5.721	5.721 (0.799)	65	599184			0.00- 59.07	29.07
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.811)	86	230504	50.0000	46.681	80.00- 120.00	100.00
5.804	5.804 (0.811)	43	3552355			0.00- 30.00	1541.13
5.804	5.804 (0.811)	42	314168			0.00- 30.00	136.30
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	428829	50.0000	44.070	80.00- 120.00	100.00
6.772	6.772 (0.946)	43	2730272			606.68- 666.68	636.68
6.772	6.772 (0.946)	57	180595			0.00- 30.00	42.11
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.938)	61	1524997	50.0000	44.656	80.00- 120.00	100.00
6.744	6.744 (0.942)	96	881284			27.79- 87.79	57.79
6.744	6.744 (0.942)	98	565788			7.10- 67.10	37.10
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (0.996)	42	1571074	50.0000	42.220	80.00- 120.00	100.00
7.132	7.132 (0.996)	71	380262			0.00- 54.20	24.20
7.132	7.132 (0.996)	72	405995			0.00- 30.00	25.84
70 Chloroform					CAS #: 67-66-3		
7.297	7.297 (1.019)	83	1868376	50.0000	41.974	80.00- 120.00	100.00
7.297	7.297 (1.019)	85	1213039			34.92- 94.92	64.92
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.050)	97	2045223	50.0000	46.714	80.00- 120.00	100.00
7.519	7.519 (1.050)	99	1311834			34.14- 94.14	64.14
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.046)	84	1254343	50.0000	42.533	80.00- 120.00	100.00
7.491	7.491 (1.046)	56	1948911			125.37- 185.37	155.37
7.491	7.491 (1.046)	41	1294319			73.19- 133.19	103.19
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.767	7.767 (1.085)	119	2046266	50.0000	50.104	80.00- 120.00	100.00
7.767	7.767 (1.085)	117	2089533			72.11- 132.11	102.11

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	5752257	50.0000	43.026	80.00- 120.00	100.00
8.210	8.210 (1.147)	56	1814917			0.00- 30.00	31.55
8.210	8.210 (1.147)	41	1896363			0.00- 30.00	32.97
81 Benzene					CAS #: 71-43-2		
8.182	8.182 (0.908)	78	2584112	50.0000	43.108	80.00- 120.00	100.00
8.182	8.182 (0.908)	77	620479			0.00- 30.00	24.01
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1658668	50.0000	49.592	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	511022			0.00- 30.00	30.81
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	285265	50.0000	42.959	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	2318460			0.00- 30.00	812.74
8.597	8.597 (0.954)	71	882204			0.00- 30.00	309.26
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1089265	50.0000	45.054	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	1002993			62.08- 122.08	92.08
9.399	9.399 (1.043)	97	678310			32.27- 92.27	62.27
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	949119	50.0000	43.120	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	665675			40.14- 100.14	70.14
9.896	9.896 (1.098)	41	917999			66.72- 126.72	96.72
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	503941	50.0000	43.465	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	482924			65.83- 125.83	95.83
10.145	10.145 (1.126)	57	173542			0.00- 30.00	34.44
100 Bromodichloromethane					CAS #: 75-27-4		
10.477	10.477 (1.163)	83	1840216	50.0000	49.115	80.00- 120.00	100.00
10.477	10.477 (1.163)	85	1189937			34.66- 94.66	64.66
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	1174773	50.0000	44.734	80.00- 120.00	100.00
11.390	11.390 (1.264)	77	376106			2.02- 62.02	32.02
11.390	11.390 (1.264)	39	1068657			60.97- 120.97	90.97
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	788006	50.0000	48.188	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	2535267			0.00- 30.00	321.73
11.749	11.749 (1.304)	85	288724			0.00- 30.00	36.64

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	2450507	50.0000	44.044	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1431575			28.42- 88.42	58.42
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1347685	50.0000	48.622	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	402823			0.00- 59.89	29.89
12.606	12.606 (0.877)	39	1065627			49.07- 109.07	79.07
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	816897	50.0000	45.160	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	507632			32.14- 92.14	62.14
12.910	12.910 (0.898)	83	701890			55.92- 115.92	85.92
112 Tetrachloroethene					CAS #: 127-18-4		
12.966	12.966 (0.902)	166	1217576	50.0000	44.309	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	858469			40.51- 100.51	70.51
12.938	12.938 (0.900)	131	817014			37.10- 97.10	67.10
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1035169	50.0000	47.685	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	2481092			209.68- 269.68	239.68
13.353	13.353 (0.929)	100	163856			0.00- 30.00	15.83
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1423023	50.0000	49.518	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1092643			0.00- 30.00	76.78
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1345089	50.0000	44.597	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1277156			64.95- 124.95	94.95
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1991176	50.0000	42.983	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	590952			0.00- 59.68	29.68
14.403	14.403 (1.002)	77	1322539			36.42- 96.42	66.42
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	991186	50.0000	43.301	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	3470536			0.00- 30.00	350.14
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1311915	50.0000	45.728	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2944225			0.00- 30.00	224.42
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1250532	50.0000	45.590	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	3038848			213.00- 273.00	243.00
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	1876825	50.0000	46.256	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	1160477			31.83- 91.83	61.83
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1426317	50.0000	49.078	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	712303			19.94- 79.94	49.94
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1759227	50.0000	43.790	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1134569			34.49- 94.49	64.49
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	4202618	50.0000	48.764	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1161725			0.00- 57.64	27.64
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	3571924	50.0000	47.075	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1609316			0.00- 30.00	45.05
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3811882	50.0000	46.682	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1579655			11.44- 71.44	41.44
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2125515	50.0000	44.646	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1336903			0.00- 30.00	62.90
17.279	17.279 (1.202)	111	993241			0.00- 30.00	46.73
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	2762093	50.0000	42.239	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	1745273			0.00- 30.00	63.19
17.389	17.389 (1.210)	111	1178462			0.00- 30.00	42.67
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	3008256	50.0000	47.729	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	521397			0.00- 30.00	17.33
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2330380	50.0000	42.075	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1491414			34.00- 94.00	64.00
17.749	17.749 (1.235)	111	1121451			18.12- 78.12	48.12

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		
19.131	19.131 (1.331)	180	2510080	50.0000	42.523	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2434283			66.98- 126.98	96.98
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1926430	50.0000	46.346	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	1246118			34.69- 94.69	64.69
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	5050973	50.0000	49.014	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1106505			0.00- 30.00	21.91
16.311	16.311 (1.135)	105	182716			0.00- 30.00	3.62
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	4014468	50.0000	45.451	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1026516			0.00- 30.00	25.57
15.786	15.786 (1.098)	51	638500			0.00- 30.00	15.90
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4353330	50.0000	41.238	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	550882			0.00- 30.00	12.65
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.754	4.754 (0.664)	59	1855399	50.0000	49.702	80.00- 120.00	100.00
4.754	4.754 (0.664)	41	621419			0.00- 30.00	33.49
4.754	4.754 (0.664)	57	215472			0.00- 30.00	11.61
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.313)	58	293644	50.0000	43.959	80.00- 120.00	100.00
2.238	2.238 (0.313)	43	2611113			0.00- 30.00	889.21
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.398)	43	2051922	50.0000	46.611	80.00- 120.00	100.00
2.846	2.846 (0.398)	57	1243070			0.00- 30.00	60.58
2.846	2.846 (0.398)	72	114526			0.00- 30.00	5.58
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.648	9.648 (1.348)	83	1456150	50.0000	39.901	80.00- 120.00	100.00
9.648	9.648 (1.348)	98	679077			0.00- 30.00	46.64
9.620	9.620 (1.344)	55	1728404			0.00- 30.00	118.70

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072102.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	301456	0.00
88 1,4-Difluorobenze	1065036	639022	1491050	1065036	0.00
125 Chlorobenzene-d5	834138	500483	1167793	834138	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.

0223

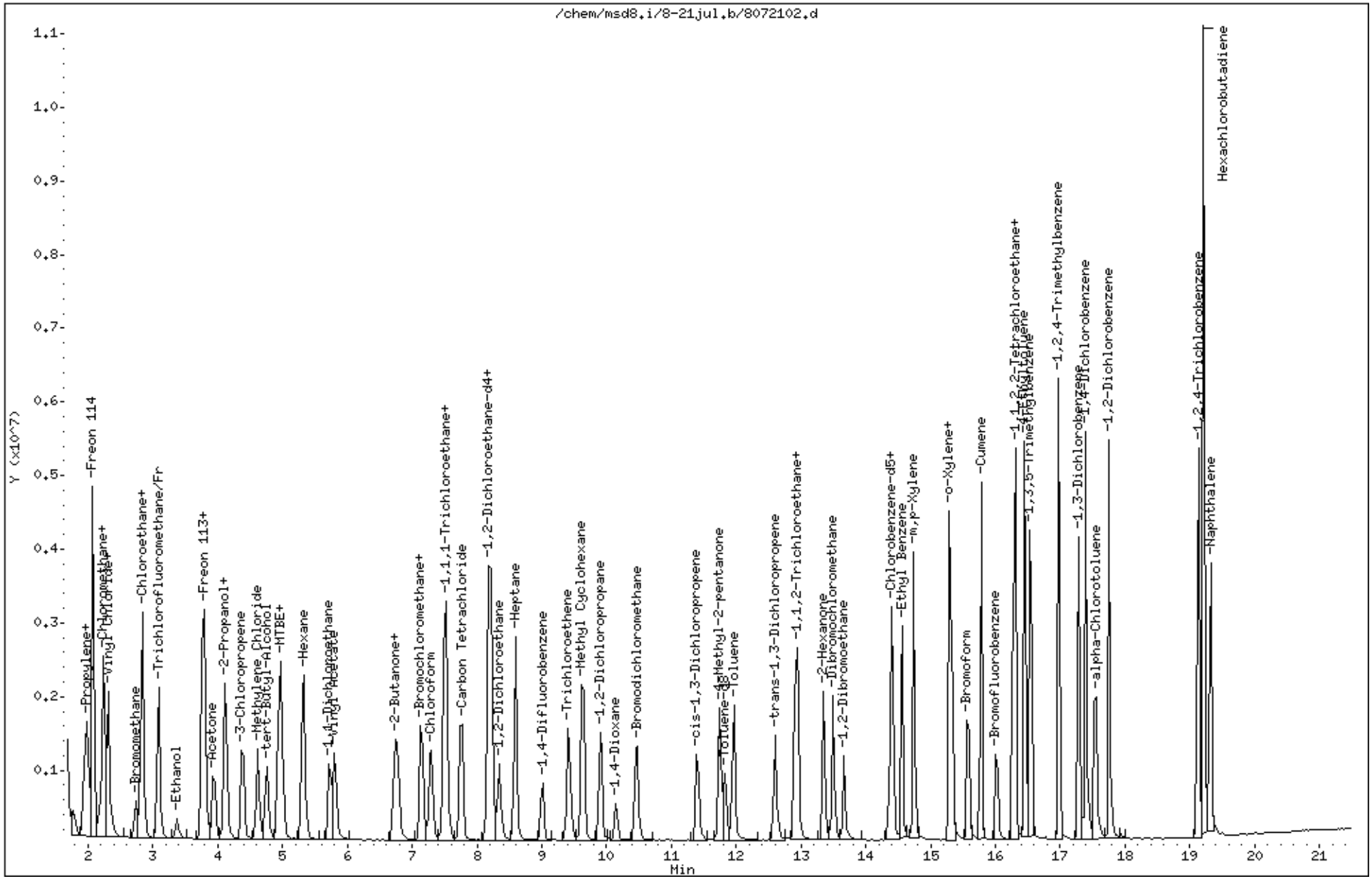
Data File: /chem/msd8.i/8-21jul.b/8072102.d
Date : 21-JUL-2008 09:08
Client ID: CCV-1
Sample Info: 50mL #1612-34

Instrument: msd8.i

Operator: smd

Column phase: RTx-624

Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807189-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 09:35 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	82
Vinyl Chloride	84
Bromomethane	83
Chloroethane	92
Freon 11	88
1,1-Dichloroethene	98
Freon 113	99
Methylene Chloride	96
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	90
Chloroform	87
1,1,1-Trichloroethane	96
Carbon Tetrachloride	100
Benzene	83
1,2-Dichloroethane	100
Trichloroethene	89
1,2-Dichloropropane	86
cis-1,3-Dichloropropene	89
Toluene	92
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	87
Tetrachloroethene	86
1,2-Dibromoethane (EDB)	85
Chlorobenzene	85
Ethyl Benzene	84
m,p-Xylene	86
o-Xylene	88
Styrene	88
1,1,2,2-Tetrachloroethane	91
1,3,5-Trimethylbenzene	91
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	84
1,3-Butadiene	80
Hexane	93
Cyclohexane	88

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0807189-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8072103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/21/08 09:35 AM**	

Compound	%Recovery
Heptane	82
Bromodichloromethane	98
Dibromochloromethane	102
Cumene	90
Propylbenzene	94
Chloromethane	91
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	99
Acetone	96
Carbon Disulfide	85
2-Propanol	93
trans-1,2-Dichloroethene	82
2-Butanone (Methyl Ethyl Ketone)	90
Tetrahydrofuran	84
1,4-Dioxane	86
4-Methyl-2-pentanone	99
2-Hexanone	91
Bromoform	99
4-Ethyltoluene	99
Ethanol	91
Methyl tert-butyl ether	94
3-Chloropropene	94
2,2,4-Trimethylpentane	88
Naphthalene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	105	70-130

Report Date: 21-Jul-2008 09:47

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21jul
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: smd
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	44.099	88.20	70-130
108 trans-1,3-Dichloro	50.000	47.621	95.24	70-130
3 Propylene	50.000	43.711	87.42	60-140
4 Dichlorodifluorome	50.000	41.961	83.92	70-130
6 Freon 114	50.000	40.996	81.99	70-130
8 Chloromethane	50.000	45.731	91.46	70-130
11 Vinyl Chloride	50.000	41.805	83.61	70-130
10 1,3-Butadiene	50.000	40.052	80.10	60-140
13 Bromomethane	50.000	41.326	82.65	70-130
16 Chloroethane	50.000	46.117	92.23	70-130
18 Trichlorofluoromet	50.000	44.086	88.17	70-130
23 Ethanol	50.000	45.368	90.74	60-140
28 Freon 113	50.000	49.456	98.91	70-130
29 1,1-Dichloroethene	50.000	49.200	98.40	70-130
30 Acetone	50.000	47.752	95.50	60-140
33 Carbon Disulfide	50.000	42.303	84.61	60-140
34 2-Propanol	50.000	46.499	93.00	60-140
40 Methylene Chloride	50.000	48.263	96.53	70-130
43 MTBE	50.000	47.068	94.14	60-140
45 trans-1,2-Dichloro	50.000	41.240	82.48	60-140
46 Hexane	50.000	46.466	92.93	60-140
54 1,1-Dichloroethane	50.000	45.382	90.77	70-130
55 Vinyl Acetate	50.000	46.816	93.63	60-140
64 cis-1,2-Dichloroet	50.000	44.777	89.55	70-130
65 2-Butanone	50.000	45.066	90.13	60-140
67 Tetrahydrofuran	50.000	41.809	83.62	60-140
70 Chloroform	50.000	43.475	86.95	70-130
73 Cyclohexane	50.000	43.891	87.78	60-140
75 1,1,1-Trichloroeth	50.000	48.022	96.04	70-130
77 Carbon Tetrachlori	50.000	49.963	99.93	70-130
81 Benzene	50.000	41.586	83.17	70-130
83 1,2-Dichloroethane	50.000	49.767	99.53	70-130
85 Heptane	50.000	41.086	82.17	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	44.696	89.39	70-130
97 1,2-Dichloropropan	50.000	42.768	85.54	70-130
98 1,4-Dioxane	50.000	42.903	85.81	60-140
100 Bromodichlorometha	50.000	48.983	97.97	60-140
102 cis-1,3-Dichloropr	50.000	44.726	89.45	70-130
103 4-Methyl-2-pentano	50.000	49.427	98.85	60-140
105 Toluene	50.000	46.211	92.42	70-130
110 1,1,2-Trichloroeth	50.000	43.473	86.95	70-130
112 Tetrachloroethene	50.000	43.199	86.40	70-130
114 2-Hexanone	50.000	45.630	91.26	60-140
116 Dibromochlorometha	50.000	50.837	101.67	60-140
117 1,2-Dibromoethane	50.000	42.716	85.43	70-130
126 Chlorobenzene	50.000	42.618	85.24	70-130
129 Ethyl Benzene	50.000	42.111	84.22	70-130
130 m,p-Xylene	50.000	43.182	86.36	70-130
132 o-Xylene	50.000	44.180	88.36	70-130
135 Bromoform	50.000	49.544	99.09	60-140
144 1,1,2,2-Tetrachlor	50.000	45.532	91.06	70-130
147 4-Ethyltoluene	50.000	49.330	98.66	60-140
148 1,3,5-Trimethylben	50.000	45.482	90.96	70-130
153 1,2,4-Trimethylben	50.000	46.412	92.82	70-130
156 1,3-Dichlorobenzen	50.000	46.668	93.34	70-130
157 1,4-Dichlorobenzen	50.000	42.585	85.17	70-130
158 alpha-Chlorotoluen	50.000	45.135	90.27	70-130
161 1,2-Dichlorobenzen	50.000	42.068	84.14	70-130
167 1,2,4-Trichloroben	50.000	45.208	90.42	70-130
168 Hexachlorobutadien	50.000	49.612	99.22	70-130
137 Cumene	50.000	44.787	89.57	60-140
145 Propylbenzene	50.000	47.274	94.55	60-140
37 3-Chloropropene	50.000	47.280	94.56	60-140
80 2,2,4-Trimethylpen	50.000	44.083	88.17	60-140
169 Naphthalene	50.000	45.140	90.28	60-140
9 Butane	50.000	46.145	92.29	70-130
15 Isopentane	50.000	45.598	91.20	70-130
95 Methyl Cyclohexane	50.000	41.321	82.64	70-130
38 tert-Butyl-Alcohol	50.000	47.616	95.23	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	27.760	111.04	70-130
$ 104 Toluene-d8	25.000	25.813	103.25	70-130
$ 140 Bromofluorobenzene	25.000	26.360	105.44	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-21jul.b/8072103.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 21-JUL-2008 09:35
Operator : smd Inst ID: msd8.i
Smp Info : 100mL #1541-138A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /var/chem/msd8.i/8-21jul.b/t14q626c.m
Meth Date : 21-Jul-2008 09:39 sdisher Quant Type: ISTD
Cal Date : 08-JUL-2008 16:18 Cal File: 8070809.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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane						CAS #: 74-97-5		
7.131	7.159 (1.000)	130	247429	25.0000			80.00- 120.00	100.00
7.131	7.159 (1.000)	128	194524				49.31- 109.31	78.62
7.131	7.132 (1.000)	49	543023				184.61- 244.61	219.47
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	901238	25.0000			80.00- 120.00	100.00
8.984	9.012 (1.000)	88	155590				0.00- 47.46	17.26
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	701488	25.0000			80.00- 120.00	100.00
14.376	14.376 (1.000)	82	436302				0.00- 30.00	62.20
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	490221	27.7598	27.760		80.00- 120.00	100.00
8.210	8.210 (1.151)	67	268967				25.06- 85.06	54.87
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	818401	25.8128	25.813		80.00- 120.00	100.00
11.832	11.832 (1.313)	70	113674				0.00- 42.67	13.89

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	584060			42.35- 102.35	71.37
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	469529	26.3600	26.360	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	633630			106.89- 166.89	134.95
16.035	16.035 (1.115)	176	425759			68.79- 128.79	90.68
3 Propylene					CAS #: 115-07-1		
1.906	1.933 (0.267)	41	975782	43.7107	43.711	80.00- 120.00	100.00
1.906	1.933 (0.267)	42	643906			0.00- 30.00	65.99
1.906	1.933 (0.267)	39	705481			0.00- 30.00	72.30
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.989 (0.275)	85	2143179	41.9611	41.961	80.00- 120.00	100.00
1.961	1.989 (0.275)	87	670707			0.00- 30.00	31.29
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	1519599	40.9965	40.996	80.00- 120.00	100.00
2.072	2.072 (0.290)	137	484736			0.84- 60.84	31.90
8 Chloromethane					CAS #: 74-87-3		
2.155	2.182 (0.302)	50	1088942	45.7310	45.731	80.00- 120.00	100.00
2.155	2.182 (0.302)	52	318795			0.00- 30.00	29.28
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.321 (0.322)	62	1043203	41.8053	41.805	80.00- 120.00	100.00
2.293	2.321 (0.322)	64	327284			0.00- 30.00	31.37
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.321 (0.322)	54	940337	40.0525	40.052	80.00- 120.00	100.00
2.293	2.321 (0.322)	39	747967			0.00- 30.00	79.54
13 Bromomethane					CAS #: 74-83-9		
2.708	2.735 (0.380)	94	617957	41.3262	41.326	80.00- 120.00	100.00
2.708	2.735 (0.380)	96	551949			61.30- 121.30	89.32
16 Chloroethane					CAS #: 75-00-3		
2.790	2.818 (0.391)	64	502557	46.1169	46.117	80.00- 120.00	100.00
2.790	2.818 (0.391)	49	171520			0.00- 30.00	34.13
2.790	2.818 (0.391)	66	156143			0.00- 30.00	31.07
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.095 (0.430)	101	2353040	44.0864	44.086	80.00- 120.00	100.00
3.067	3.095 (0.430)	103	1554204			34.79- 94.79	66.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.343	3.371 (0.469)	45	445230	45.3676	45.368	80.00- 120.00	100.00
3.343	3.371 (0.469)	43	95508			0.00- 30.00	21.45
3.371	3.371 (0.473)	46	172330			0.00- 30.00	38.71
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1454450	49.4565	49.456	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	914450			32.07- 92.07	62.87
3.758	3.758 (0.527)	101	1791028			90.06- 150.06	123.14
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.814 (0.531)	61	1719605	49.2003	49.200	80.00- 120.00	100.00
3.786	3.814 (0.531)	96	812537			17.70- 77.70	47.25
3.786	3.814 (0.531)	98	530050			0.50- 60.50	30.82
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	518308	47.7524	47.752	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	1998952			0.00- 30.00	385.67
34 2-Propanol					CAS #: 67-63-0		
4.090	4.118 (0.574)	45	1993811	46.4995	46.499	80.00- 120.00	100.00
4.090	4.118 (0.574)	43	502736			0.00- 30.00	25.21
4.090	4.118 (0.574)	59	68473			0.00- 30.00	3.43
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.118 (0.574)	76	2533165	42.3032	42.303	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.394 (0.612)	76	399989	47.2797	47.280	80.00- 120.00	100.00
4.366	4.367 (0.612)	41	1634977			0.00- 30.00	408.76
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.615 (0.643)	49	1464694	48.2628	48.263	80.00- 120.00	100.00
4.615	4.615 (0.647)	84	741982			19.84- 79.84	50.66
4.588	4.615 (0.643)	51	419705			0.00- 30.00	28.65
43 MTBE					CAS #: 1634-04-4		
4.919	4.947 (0.690)	73	2180498	47.0677	47.068	80.00- 120.00	100.00
4.919	4.947 (0.690)	57	610035			0.00- 59.32	27.98
4.919	4.947 (0.690)	41	766037			0.00- 30.00	35.13
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	839521	41.2402	41.240	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1551843			153.46- 213.46	184.85
4.975	4.975 (0.698)	98	525306			0.00- 30.00	62.57

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	1793571	46.4655	46.466	80.00- 120.00	100.00
5.307	5.334 (0.744)	43	1303539			0.00- 30.00	72.68
5.307	5.334 (0.744)	86	239400			0.00- 30.00	13.35
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	1760014	45.3825	45.382	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	513523			0.00- 59.07	29.18
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	189741	46.8161	46.816	80.00- 120.00	100.00
5.804	5.804 (0.814)	43	2916011			0.00- 30.00	1536.84
5.804	5.804 (0.814)	42	261557			0.00- 30.00	137.85
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	359930	45.0664	45.066	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	2295238			606.68- 666.68	637.69
6.772	6.772 (0.950)	57	146291			0.00- 30.00	40.64
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1255072	44.7769	44.777	80.00- 120.00	100.00
6.717	6.744 (0.942)	96	737621			27.79- 87.79	58.77
6.717	6.744 (0.942)	98	476645			7.10- 67.10	37.98
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.132 (1.000)	42	1276937	41.8088	41.809	80.00- 120.00	100.00
7.131	7.132 (1.000)	71	339061			0.00- 54.20	26.55
7.131	7.132 (1.000)	72	354730			0.00- 30.00	27.78
70 Chloroform					CAS #: 67-66-3		
7.270	7.297 (1.019)	83	1588333	43.4746	43.475	80.00- 120.00	100.00
7.270	7.297 (1.019)	85	1023051			34.92- 94.92	64.41
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1725691	48.0224	48.022	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1100837			34.14- 94.14	63.79
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	1062408	43.8906	43.891	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1647433			125.37- 185.37	155.07
7.491	7.491 (1.050)	41	1085291			73.19- 133.19	102.15
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.767 (1.085)	119	1674800	49.9626	49.963	80.00- 120.00	100.00
7.740	7.767 (1.085)	117	1747695			72.11- 132.11	104.35

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	4837406	44.0833	44.083	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	1535044			0.00- 30.00	31.73
8.182	8.210 (1.147)	41	1563445			0.00- 30.00	32.32
81 Benzene					CAS #: 71-43-2		
8.154	8.182 (0.905)	78	2109457	41.5856	41.586	80.00- 120.00	100.00
8.154	8.182 (0.905)	77	528134			0.00- 30.00	25.04
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1408525	49.7666	49.767	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	435421			0.00- 30.00	30.91
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	230864	41.0856	41.086	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	1948058			0.00- 30.00	843.81
8.597	8.597 (0.954)	71	742623			0.00- 30.00	321.67
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	914414	44.6959	44.696	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	830138			62.08- 122.08	90.78
9.399	9.399 (1.043)	97	551595			32.27- 92.27	60.32
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	796603	42.7683	42.768	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	540845			40.14- 100.14	67.89
9.896	9.896 (1.098)	41	741942			66.72- 126.72	93.14
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	420923	42.9031	42.903	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	408366			65.83- 125.83	97.02
10.145	10.145 (1.126)	57	146705			0.00- 30.00	34.85
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.477 (1.160)	83	1553005	48.9829	48.983	80.00- 120.00	100.00
10.449	10.477 (1.160)	85	997253			34.66- 94.66	64.21
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.390 (1.264)	75	993928	44.7260	44.726	80.00- 120.00	100.00
11.389	11.390 (1.264)	77	316404			2.02- 62.02	31.83
11.389	11.390 (1.264)	39	916057			60.97- 120.97	92.17
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	683957	49.4267	49.427	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	2111976			0.00- 30.00	308.79
11.749	11.749 (1.304)	85	239199			0.00- 30.00	34.97

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	2175661	46.2114	46.211	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1271227			28.42- 88.42	58.43
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1110028	47.6209	47.621	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	360198			0.00- 59.89	32.45
12.606	12.606 (0.877)	39	877056			49.07- 109.07	79.01
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	661317	43.4729	43.473	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	406093			32.14- 92.14	61.41
12.910	12.910 (0.898)	83	577087			55.92- 115.92	87.26
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.966 (0.900)	166	998279	43.1986	43.199	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	715688			40.51- 100.51	71.69
12.938	12.938 (0.900)	131	696529			37.10- 97.10	69.77
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	833032	45.6299	45.630	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1999899			209.68- 269.68	240.07
13.353	13.353 (0.929)	100	121362			0.00- 30.00	14.57
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1228590	50.8369	50.837	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	939894			0.00- 30.00	76.50
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1083490	42.7165	42.716	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1050383			64.95- 124.95	96.94
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1660287	42.6176	42.618	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	502700			0.00- 59.68	30.28
14.403	14.403 (1.002)	77	1120918			36.42- 96.42	67.51
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	810648	42.1107	42.111	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	2837676			0.00- 30.00	350.05
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1041842	43.1816	43.182	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2377225			0.00- 30.00	228.18
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1019133	44.1798	44.180	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	2483781			213.00- 273.00	243.72
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	1504746	44.0987	44.099	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	917627			31.83- 91.83	60.98
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1210869	49.5436	49.544	80.00- 120.00	100.00
15.564	15.592 (1.083)	171	627612			19.94- 79.94	51.83
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1538349	45.5325	45.532	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	995553			34.49- 94.49	64.72
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	3575357	49.3305	49.330	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	981857			0.00- 57.64	27.46
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	2902214	45.4817	45.482	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1289553			0.00- 30.00	44.43
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3187124	46.4122	46.412	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1319835			11.44- 71.44	41.41
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1868443	46.6679	46.668	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1148102			0.00- 30.00	61.45
17.279	17.279 (1.202)	111	810542			0.00- 30.00	43.38
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	2341889	42.5851	42.585	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	1471922			0.00- 30.00	62.85
17.389	17.389 (1.210)	111	1022932			0.00- 30.00	43.68
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	2392349	45.1349	45.135	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	414028			0.00- 30.00	17.31
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1959444	42.0678	42.068	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1264160			34.00- 94.00	64.52
17.749	17.749 (1.235)	111	952257			18.12- 78.12	48.60

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	2244182	45.2077	45.208	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2182255			66.98- 126.98	97.24
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1734237	49.6122	49.612	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	1116221			34.69- 94.69	64.36
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	4096852	47.2735	47.274	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	877565			0.00- 30.00	21.42
16.311	16.311 (1.135)	105	137932			0.00- 30.00	3.37
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3326732	44.7869	44.787	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	840519			0.00- 30.00	25.27
15.786	15.786 (1.098)	51	530913			0.00- 30.00	15.96
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4007480	45.1404	45.140	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	518940			0.00- 30.00	12.95
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.754 (0.663)	59	1458941	47.6156	47.616	80.00- 120.00	100.00
4.726	4.754 (0.663)	41	495803			0.00- 30.00	33.98
4.726	4.754 (0.663)	57	160540			0.00- 30.00	11.00
9 Butane					CAS #: 106-97-8		
2.237	2.238 (0.314)	58	253002	46.1454	46.145	80.00- 120.00	100.00
2.237	2.238 (0.314)	43	2081062			0.00- 30.00	822.55
15 Isopentane					CAS #: 78-78-4		
2.818	2.846 (0.395)	43	1647567	45.5980	45.598	80.00- 120.00	100.00
2.818	2.846 (0.395)	57	977350			0.00- 30.00	59.32
2.818	2.846 (0.395)	72	81987			0.00- 30.00	4.98
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.648 (1.349)	83	1237702	41.3211	41.321	80.00- 120.00	100.00
9.620	9.648 (1.349)	98	570163			0.00- 30.00	46.07
9.620	9.620 (1.349)	55	1466455			0.00- 30.00	118.48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8072103.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd8.i/8-21jul.b/t14q626c.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 21-JUL-2008
Calibration Time: 09:08
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	301456	180874	422038	247429	-17.92
88 1,4-Difluorobenze	1065036	639022	1491050	901238	-15.38
125 Chlorobenzene-d5	834138	500483	1167793	701488	-15.90

		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.

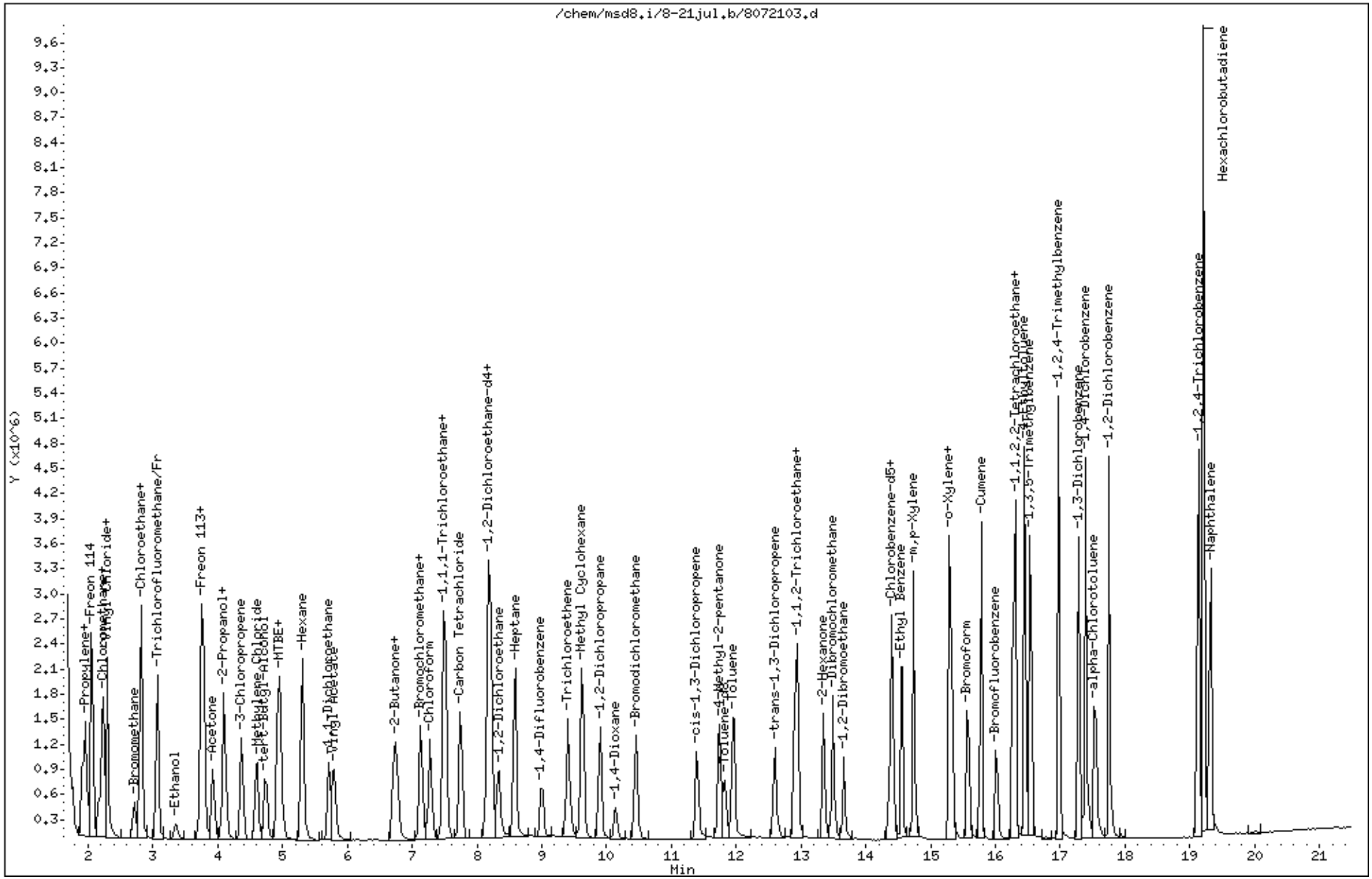
0238

Data File: /chem/msd8.i/8-21jul.b/8072103.d
Date : 21-JUL-2008 09:35
Client ID: LCS-1
Sample Info: 100mL #1541-138A

Instrument: msd8.i

Operator: smd
Column diameter: 0.53

Column phase: RTx-624



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MSD-8

Logbook #: 1647

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	28.08
75	30.0 – 60.0% of mass 95	59.03
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.23
173	Less than 2.0% of mass 174	(1.77)[1]
174	50.0 – 100% of mass 95	67.50
175	5.0 – 9.0% of mass 174	(7.66)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.28)[1]
177	5.0 – 9.0% of mass 176	(6.32)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 7-21-08

BFB Injection Time: 0836

BFB File ID: 8072101

Tekmar Purge Flow: 15.9 mL/min

Vacuum: 1.0 *10^-5

IS/S Std.#:	1541-215	Exp. Date: 10-16-08
BCM	301456	
1,4-DFB	1065036	
CB-d5	834138	

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

Verify 176/174 m/z Ratio: 668032 / 693824 *100 = 96.28 ✓

NOAH Cart #: 7 | 15 **File #:** 8072104 / 8072105

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 579312\ )}{(\ 301456\ )} \times \frac{(\ 25\ )}{(\ 1.78429\ )} = 26.925$

File ID:	8072102
Compound:	1,2-DCA-d4
Initials:	MR

Reported Result 26.926 ✓

Method: TI4676c

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8072101	BFB Tune-Check	1476-275	50 psig	2 µL	1.00	MR	7-21-08	0836	MR/CT	Apex single scan 19
2	✓	8072102	CCV-1 Std (Aliquot)	1662-34	Std pressure	50 mL	1.00	MR	7-21-08	0908	MR/[illegible]	ϕ out
3	✓	↓ 03	LCS-1 Std (Aliquot)	1541H35A	Std pressure	100 mL	1.00	MR	↓	0935	MR/[illegible]	ϕ out
4	✓	8072104	Lab BLK	4214	Humid	200 mL	1.00	MR	7-21-08	1033	MR/[illegible]	CertCert#7 leg#1
5	✓	8072105	System Blk	4214	↓	↓	↓	↓	↓	1253	MR/[illegible]	CertCert#15 Leg#5
6	✓	8072106	C807210-01A	12173	8.0"Hg-Sub	200 mL	1.33	MR	7-21-08	1348	MR/[illegible]	
7	✓	↓ 07	↓ -02A	13554	30"Hg-Sub	↓	1.49	MR	↓	1430	MR/[illegible]	

Signature

7-21-08
Date

0239

8	✓	8072108	0807210-03A	4244	30^ -5psi	200mL	1.75	[illegible]	7-21-08	1512	[illegible]	
9	✓	↓ 09	↓ -04A	23924	[illegible]	200mL	46.2	[illegible]	↓	1535	[illegible]	
10	✓	2072110	0807211-01A	13074	[illegible]	200mL	2.01	[illegible]	7-21-08	1637	SS	
11	✓	11	02A	33758	[illegible]		1.21			1719	SS	
12	✓	12	03A	13835	[illegible]		1.87			1802	SS	
13	✓	13	03AA	↓	[illegible]		↓			1844	SS	
14	✓	14	0807188A - 02A	35135	[illegible]	175mL	2.24			1926	SS	
15	✓	15	0807188? - 02A	35135	[illegible]	200mL	1.96	SS		2046	SS	
16	✓	16	Cert# 11/Lg#41	4219	[illegible]	200mL	1.00	SS		2144	SS	
17	✓	17	0807189- 01A	34709	8.5" Hg-5psi	200mL	1.87			2304	[illegible]	
18	✓	18	02A	41164	5.0" Hg-5psi		1.64		↓	2347	[illegible]	
19	✓	19	04A	410	[illegible]		1.00		7/22/08	0029	[illegible]	
20	✓	20	03A	34440	8.0" Hg-5psi		1.88			0111	[illegible]	
21	✓	21	03AA	↓	↓		↓			0154	[illegible]	
22	✓	22	0807298- 01A	3248	4.5" Hg		1.58			0236	[illegible]	
23	✓	23	02A	8-4	5.0" Hg		1.61			0319	[illegible]	
24	✓	24	04A	33560	6.0" Hg		1.85			0401	[illegible]	
25	✓	25	03A	35276	6.5" Hg		1.71			0443	[illegible]	
26	✓	26	03AA	↓	↓	↓	↓	↓	↓	0526	[illegible]	
27												
28												
29												
30												
31												

[illegible] 7-22-08

Comments:

Signature: [signature]

Date: 7-22-08

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-26jun.b/8062601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-JUN-2008 14:18
Operator : srs Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-26jun.b/bfb30.m
Meth Date : 26-Jun-2008 14:06 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	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	1422717			100.00- 100.00	100.00
3.582	3.748	-0.166	50	424515			15.00- 40.00	29.84
3.582	3.748	-0.166	75	784520			30.00- 60.00	55.14
3.582	3.748	-0.166	96	87308			5.00- 9.00	6.14
3.582	3.748	-0.166	173	15006			0.00- 2.00	1.42
3.582	3.748	-0.166	174	1057759			50.00- 100.00	74.35
3.582	3.748	-0.166	175	79971			5.00- 9.00	7.56
3.582	3.748	-0.166	176	1024539			95.00- 101.00	96.86
3.582	3.748	-0.166	177	66651			5.00- 9.00	6.51

Data File: /chem/msd8.i/8-26jun.b/8062601.d

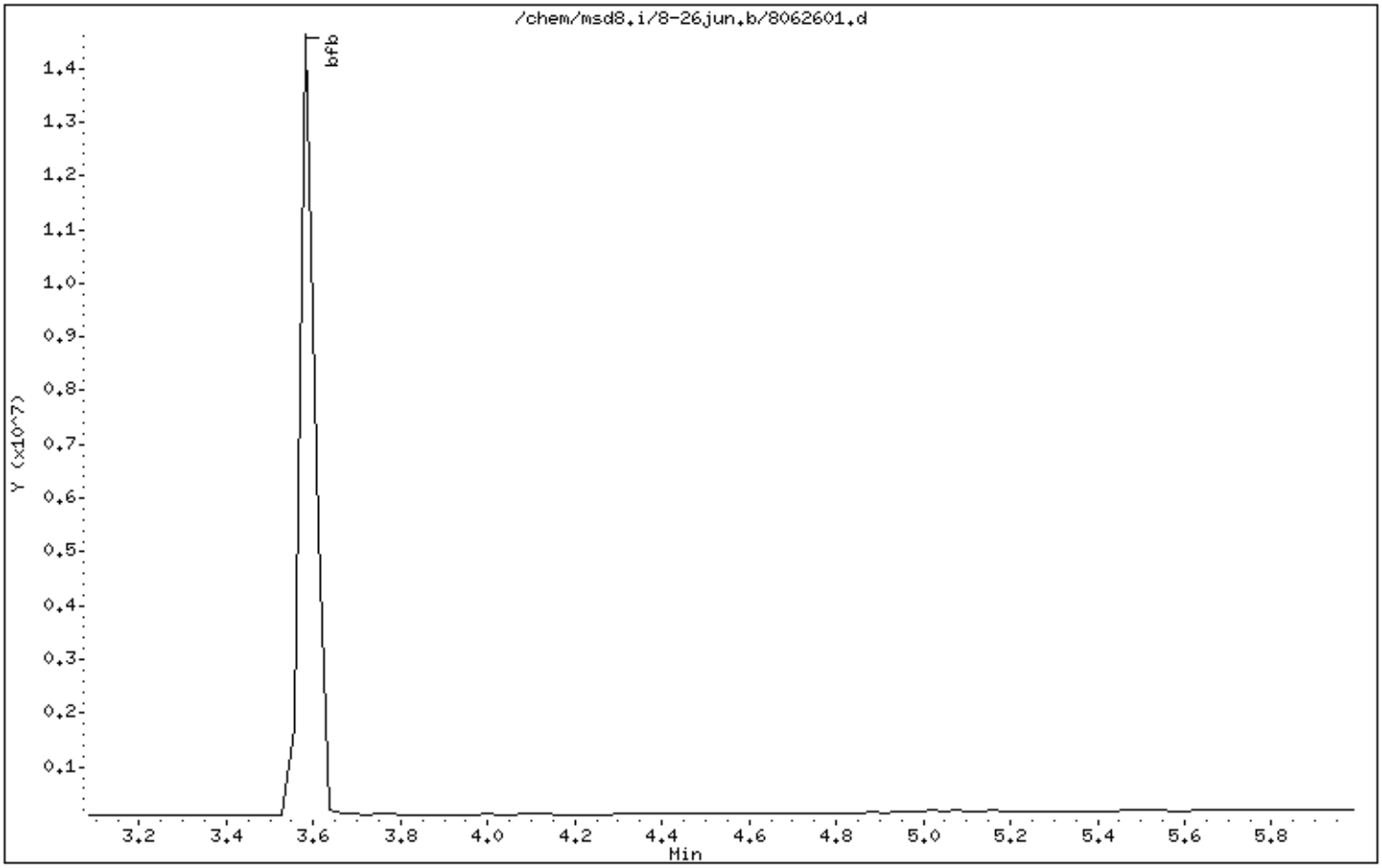
Date : 26-JUN-2008 14:18

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: /chem/msd8.i/8-26jun.b/8062601.d

Date : 26-JUN-2008 14:18

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

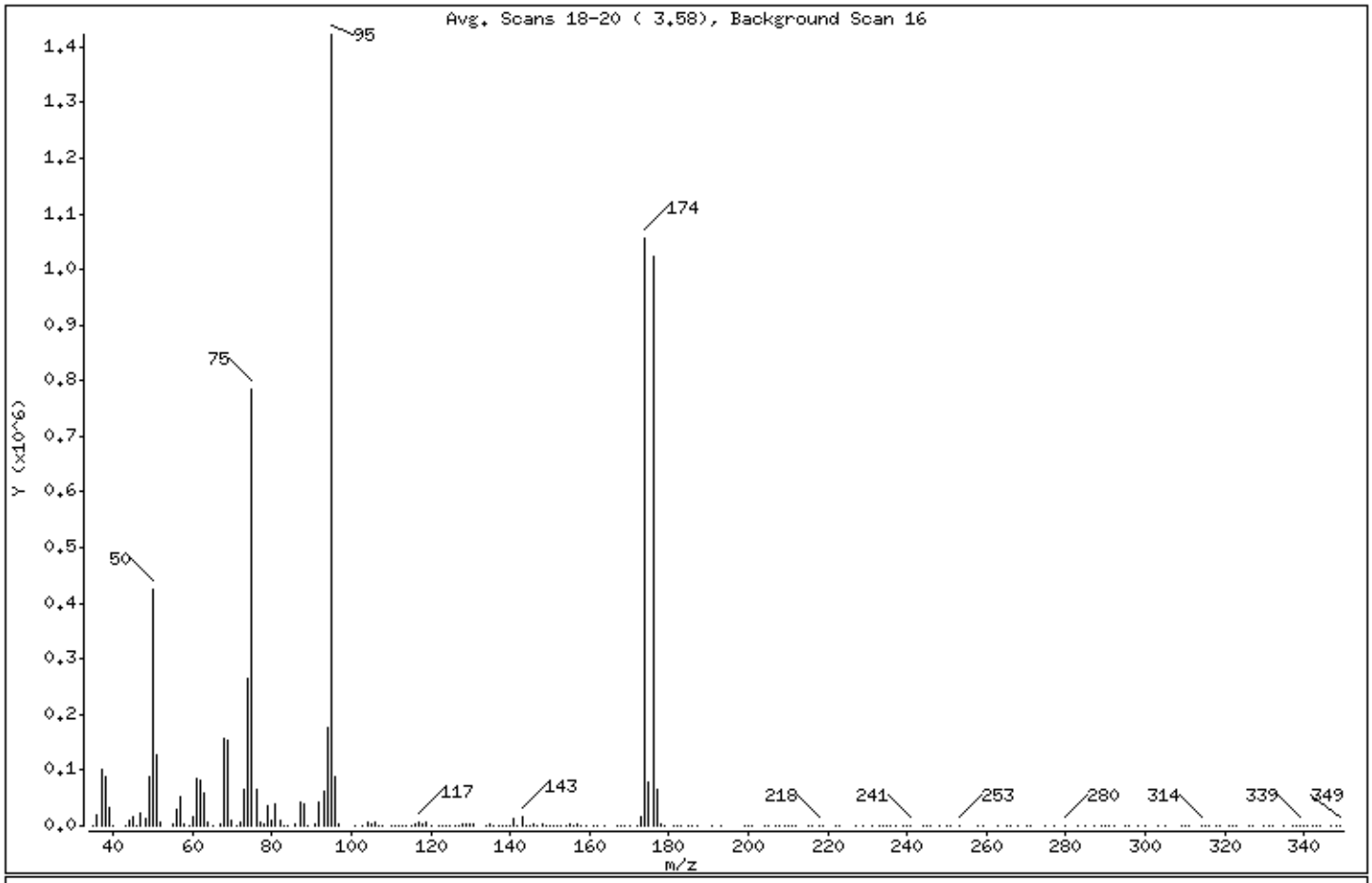
Volume Injected (uL): 2.0

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	29.84
75	30.00 - 60.00% of mass 95	55.14
96	5.00 - 9.00% of mass 95	6.14
173	Less than 2.00% of mass 174	1.05 (1.42)
174	50.00 - 100.00% of mass 95	74.35
175	5.00 - 9.00% of mass 174	5.62 (7.56)
176	95.00 - 101.00% of mass 174	72.01 (96.86)
177	5.00 - 9.00% of mass 176	4.68 (6.51)

Date : 26-JUN-2008 14:18

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: 8062601.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	133	101.00	315	164.00	415	258.00	21
36.00	18456	103.00	409	167.00	270	259.00	110
37.00	100696	104.00	4922	168.00	279	263.00	108
38.00	89224	105.00	1650	169.00	595	265.00	54
39.00	32824	106.00	5618	170.00	546	266.00	189
40.00	1044	107.00	1393	172.00	616	268.00	146
43.00	728	108.00	31	173.00	15006	270.00	155
44.00	11407	110.00	529	174.00	1057280	271.00	161
45.00	16824	111.00	929	175.00	79968	275.00	86
46.00	1224	112.00	262	176.00	1024512	277.00	152
47.00	21592	113.00	887	177.00	66648	280.00	370
48.00	12000	114.00	206	178.00	1713	283.00	147
49.00	86664	115.00	1429	179.00	229	285.00	114
50.00	424512	116.00	3832	181.00	39	287.00	186
51.00	127592	117.00	7823	182.00	164	289.00	70
52.00	5244	118.00	4570	183.00	260	290.00	364
55.00	4705	119.00	6844	185.00	154	291.00	156
56.00	28904	120.00	340	186.00	223	292.00	236
57.00	51768	122.00	121	187.00	193	295.00	69
58.00	1829	123.00	53	191.00	324	296.00	200
59.00	384	124.00	975	193.00	254	298.00	184
60.00	15900	125.00	130	199.00	160	300.00	70
61.00	84384	126.00	874	200.00	109	303.00	81
62.00	81976	127.00	366	201.00	186	305.00	125
63.00	60328	128.00	4362	204.00	147	309.00	95
64.00	5267	129.00	2010	205.00	212	310.00	71
65.00	832	130.00	4308	207.00	311	311.00	207
67.00	4078	131.00	1713	208.00	420	314.00	244
68.00	155968	134.00	299	209.00	9	315.00	79
69.00	155008	135.00	2165	210.00	239	316.00	77
70.00	11061	136.00	296	211.00	165	318.00	164
71.00	288	137.00	1563	212.00	113	319.00	102
72.00	6972	138.00	176	215.00	181	321.00	74
73.00	65256	139.00	411	216.00	222	322.00	159
74.00	265024	140.00	1095	218.00	534	323.00	172

Date : 26-JUN-2008 14:18

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: 8062601.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	784512	141.00	14012	219.00	67	326.00	196
76.00	64872	142.00	1604	222.00	199	327.00	196
77.00	5957	143.00	14902	223.00	53	330.00	113
78.00	3834	144.00	728	227.00	82	331.00	66
79.00	37224	145.00	1555	229.00	184	332.00	355
80.00	10965	146.00	1800	231.00	165	335.00	300
81.00	38504	147.00	638	233.00	76	337.00	97
82.00	8636	148.00	2375	234.00	48	338.00	75
83.00	456	149.00	510	235.00	133	339.00	361
84.00	477	150.00	1216	236.00	166	340.00	186
86.00	1803	151.00	36	237.00	193	341.00	53
87.00	43216	152.00	619	239.00	56	342.00	134
88.00	38232	153.00	1068	240.00	93	343.00	85
89.00	25	154.00	449	241.00	242	344.00	42
91.00	4815	155.00	2558	244.00	139	347.00	81
92.00	40992	156.00	810	245.00	207	348.00	67
93.00	61656	157.00	2170	246.00	103	349.00	86
94.00	175616	158.00	614	248.00	199		
95.00	1422336	159.00	1541	250.00	262		
96.00	87304	161.00	1176	251.00	102		
97.00	2291	162.00	76	253.00	709		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-01jul.b/8070101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 01-JUL-2008 08:37
Operator : smd Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-01jul.b/bfb30.m
Meth Date : 01-Jul-2008 08:25 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	912604			100.00- 100.00	100.00
3.582	3.748	-0.166	50	282884			15.00- 40.00	31.00
3.582	3.748	-0.166	75	521379			30.00- 60.00	57.13
3.582	3.748	-0.166	96	58902			5.00- 9.00	6.45
3.582	3.748	-0.166	173	10173			0.00- 2.00	1.49
3.582	3.748	-0.166	174	682425			50.00- 100.00	74.78
3.582	3.748	-0.166	175	50184			5.00- 9.00	7.35
3.582	3.748	-0.166	176	649298			95.00- 101.00	95.15
3.582	3.748	-0.166	177	41170			5.00- 9.00	6.34

Data File: /var/chem/msd8.i/8-01jul.b/8070101.d

Date : 01-JUL-2008 08:37

Client ID: BFB

Instrument: msd8.i

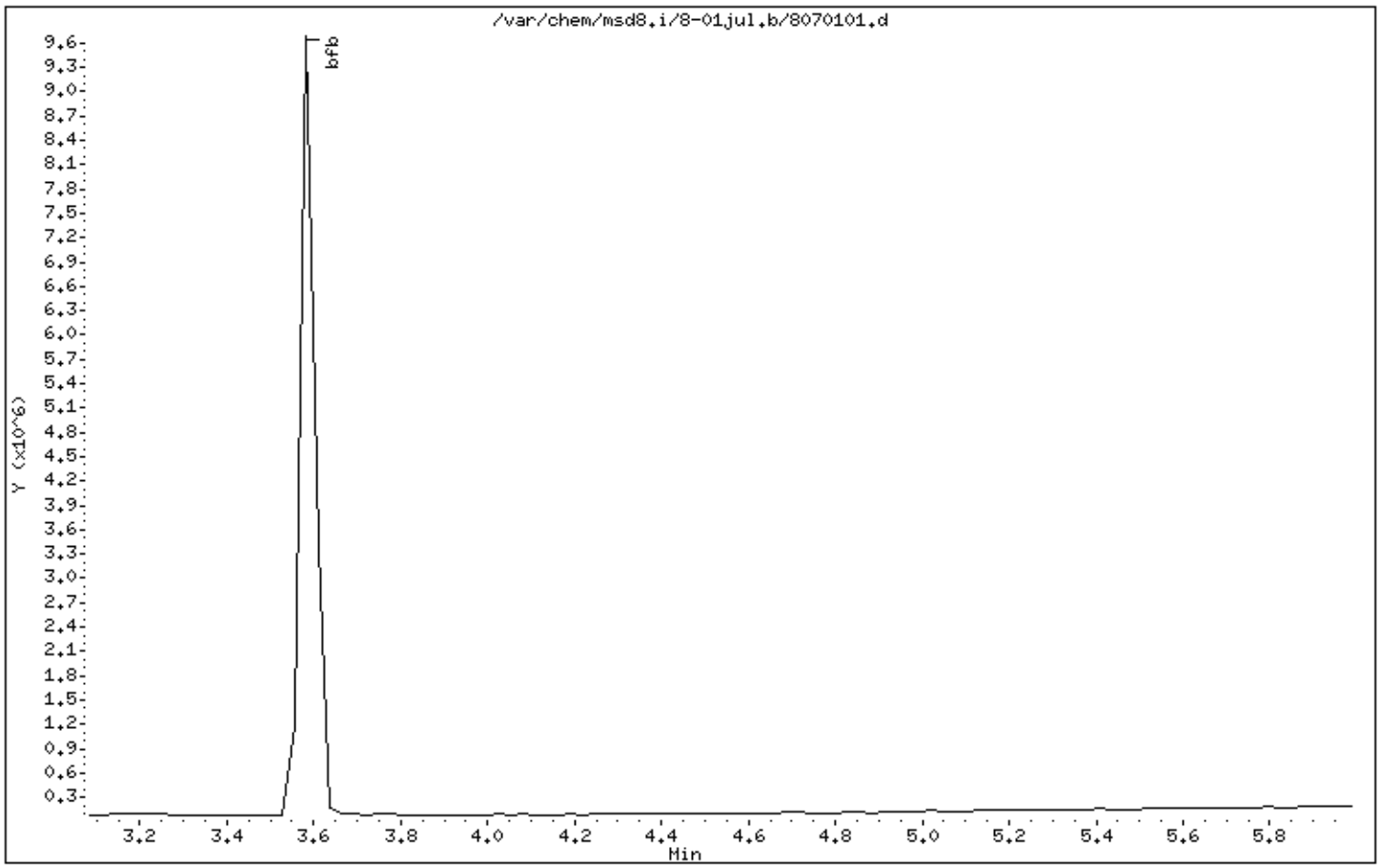
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-01jul.b/8070101.d

Date : 01-JUL-2008 08:37

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

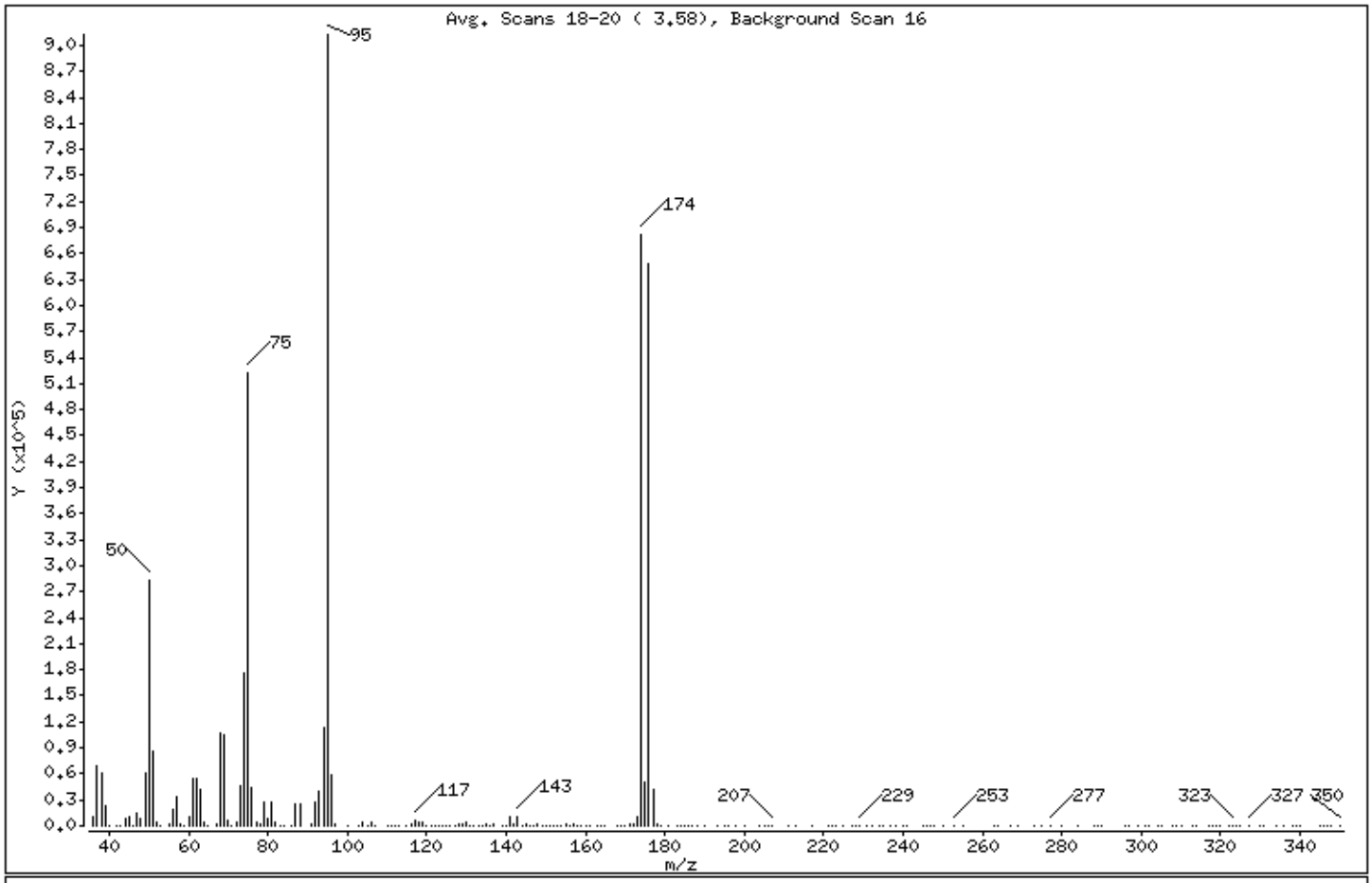
Volume Injected (uL): 2.0

Operator: smd

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	31.00
75	30.00 - 60.00% of mass 95	57.13
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	1.11 (1.49)
174	50.00 - 100.00% of mass 95	74.78
175	5.00 - 9.00% of mass 174	5.50 (7.35)
176	95.00 - 101.00% of mass 174	71.15 (95.15)
177	5.00 - 9.00% of mass 176	4.51 (6.34)

Data File: /var/chem/msd8.i/8-01jul.b/8070101.d

Date : 01-JUL-2008 08:37

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53

Data File: 8070101.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11465	96.00	58896	158.00	398	245.00	89
37.00	68240	97.00	1387	159.00	949	246.00	127
38.00	60456	100.00	217	160.00	206	247.00	255
39.00	22592	103.00	1007	161.00	730	248.00	148
40.00	152	104.00	3556	163.00	36	250.00	216
42.00	62	105.00	968	164.00	29	253.00	518
43.00	173	106.00	3326	165.00	6	255.00	144
44.00	7496	107.00	498	168.00	367	263.00	209
45.00	11271	110.00	383	169.00	659	264.00	214
46.00	1013	111.00	657	170.00	214	267.00	112
47.00	13805	112.00	327	171.00	1111	269.00	180
48.00	7479	113.00	380	172.00	2034	273.00	249
49.00	59880	115.00	754	173.00	10173	275.00	78
50.00	282880	116.00	2823	174.00	682368	277.00	287
51.00	85392	117.00	5797	175.00	50184	280.00	87
52.00	3230	118.00	3237	176.00	649280	284.00	99
53.00	111	119.00	4166	177.00	41168	288.00	92
55.00	2295	120.00	219	178.00	1086	289.00	181
56.00	19520	121.00	37	179.00	60	290.00	176
57.00	32608	122.00	295	181.00	172	296.00	78
58.00	1192	123.00	294	183.00	142	297.00	183
59.00	43	124.00	77	184.00	215	299.00	176
60.00	10329	125.00	415	185.00	66	301.00	73
61.00	55008	126.00	270	186.00	180	302.00	69
62.00	55120	127.00	383	187.00	162	304.00	88
63.00	42344	128.00	2925	188.00	222	305.00	80
64.00	3552	129.00	1290	190.00	197	308.00	69
65.00	806	130.00	3473	193.00	16	309.00	174
67.00	2292	131.00	1017	195.00	33	310.00	75
68.00	106344	132.00	374	196.00	243	313.00	159
69.00	104912	133.00	124	198.00	252	314.00	76
70.00	6646	134.00	488	200.00	78	317.00	72
71.00	169	135.00	1297	204.00	225	318.00	152
72.00	5120	136.00	231	205.00	68	319.00	77
73.00	46248	137.00	1393	206.00	145	320.00	66

Date : 01-JUL-2008 08:37

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8070101.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	175808	139.00	104	207.00	381	322.00	153
75.00	521344	140.00	625	211.00	177	323.00	181
76.00	43704	141.00	10171	213.00	270	324.00	84
77.00	4225	142.00	1565	217.00	228	325.00	212
78.00	2735	143.00	10662	221.00	239	327.00	254
79.00	27160	144.00	586	222.00	73	330.00	81
80.00	7542	145.00	1215	223.00	166	331.00	74
81.00	27872	146.00	687	225.00	149	334.00	208
82.00	5173	147.00	697	227.00	120	336.00	78
83.00	580	148.00	1718	228.00	69	338.00	165
84.00	226	149.00	544	229.00	391	339.00	106
86.00	951	150.00	594	231.00	77	340.00	72
87.00	24840	151.00	339	232.00	47	345.00	175
88.00	24648	152.00	313	234.00	82	346.00	84
91.00	2615	153.00	239	235.00	193	347.00	76
92.00	27616	154.00	658	237.00	92	348.00	77
93.00	40216	155.00	2219	238.00	264	350.00	90
94.00	113272	156.00	267	240.00	82		
95.00	912576	157.00	1593	241.00	148		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-08jul.b/8070801.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 08-JUL-2008 08:33
Operator : smd Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-08jul.b/bfb30.m
Meth Date : 08-Jul-2008 08:20 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.582	3.748	-0.166	95	874948			100.00- 100.00	100.00
3.582	3.748	-0.166	50	277322			15.00- 40.00	31.70
3.582	3.748	-0.166	75	504333			30.00- 60.00	57.64
3.582	3.748	-0.166	96	52667			5.00- 9.00	6.02
3.582	3.748	-0.166	173	2714			0.00- 2.00	0.41
3.582	3.748	-0.166	174	658306			50.00- 100.00	75.24
3.582	3.748	-0.166	175	50889			5.00- 9.00	7.73
3.582	3.748	-0.166	176	642802			95.00- 101.00	97.64
3.582	3.748	-0.166	177	39478			5.00- 9.00	6.14

Data File: /var/chem/msd8.i/8-08jul.b/8070801.d

Date : 08-JUL-2008 08:33

Client ID: BFB

Instrument: msd8.i

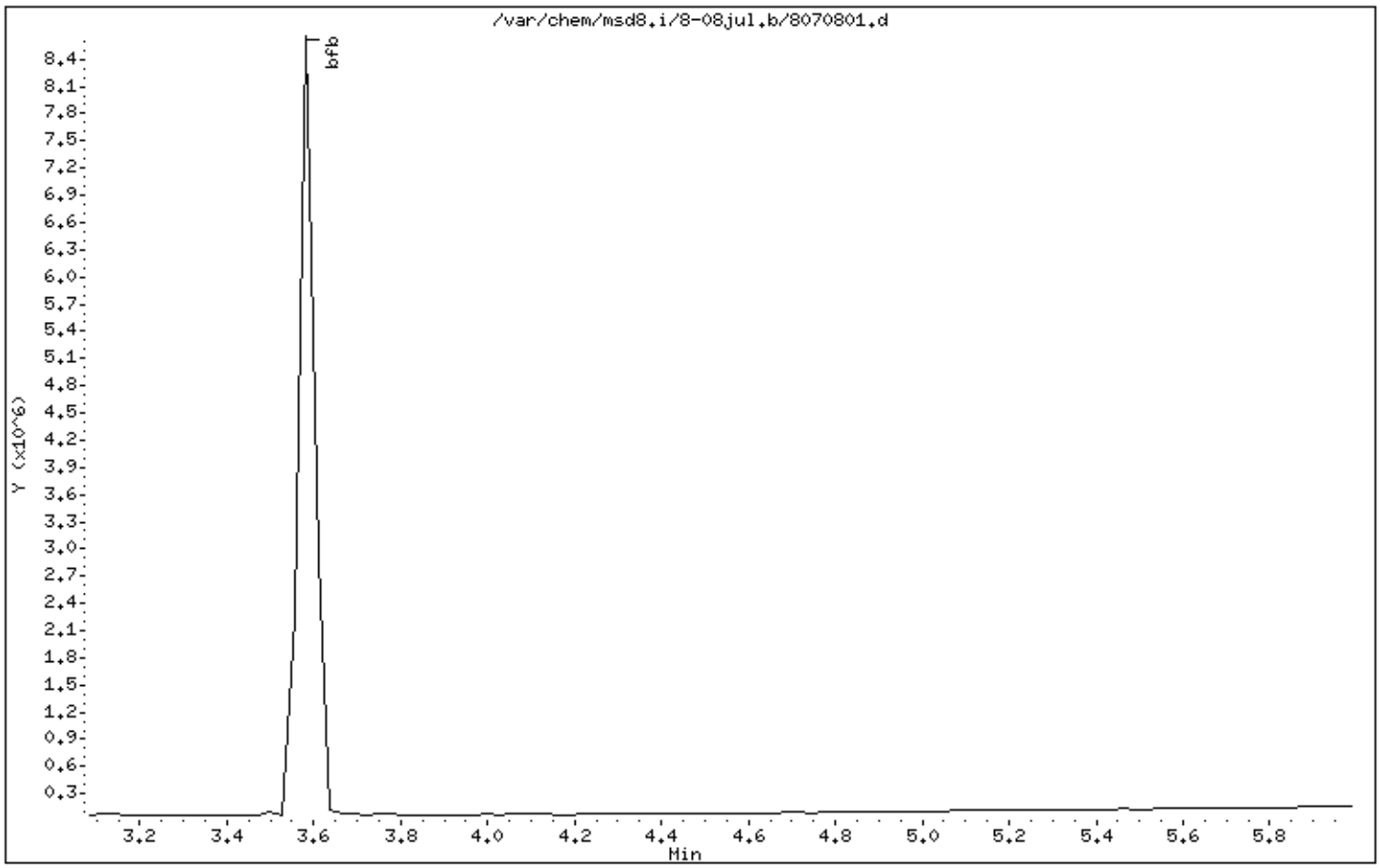
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-08jul.b/8070801.d

Date : 08-JUL-2008 08:33

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

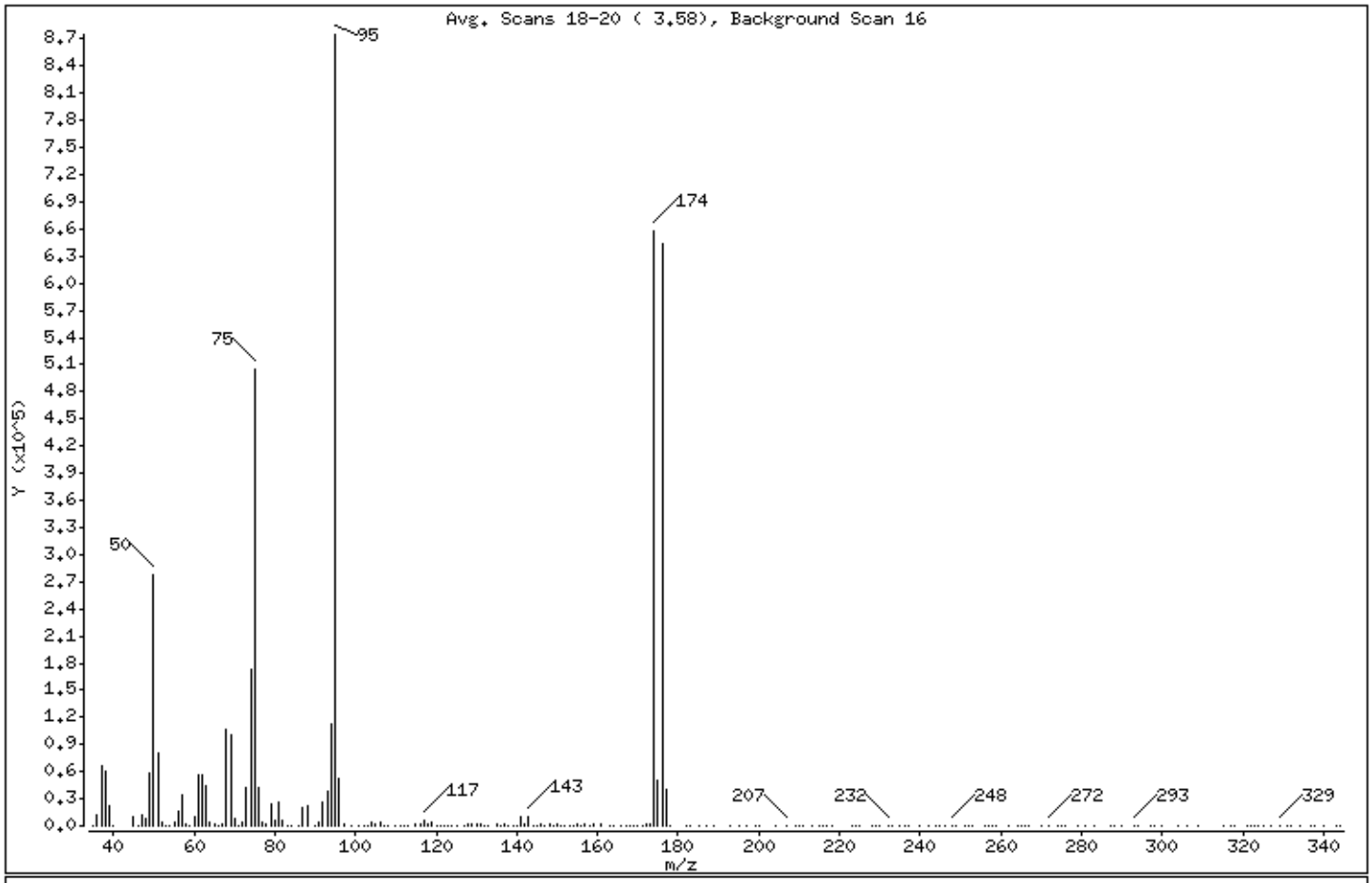
Volume Injected (uL): 2.0

Operator: smd

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	31.70
75	30.00 - 60.00% of mass 95	57.64
96	5.00 - 9.00% of mass 95	6.02
173	Less than 2.00% of mass 174	0.31 (0.41)
174	50.00 - 100.00% of mass 95	75.24
175	5.00 - 9.00% of mass 174	5.82 (7.73)
176	95.00 - 101.00% of mass 174	73.47 (97.64)
177	5.00 - 9.00% of mass 176	4.51 (6.14)

Date : 08-JUL-2008 08:33

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8070801.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	237	96.00	52664	157.00	1244	248.00	240
36.00	11528	97.00	1391	158.00	432	249.00	205
37.00	66224	99.00	69	159.00	1208	251.00	167
38.00	59568	101.00	83	161.00	1288	252.00	98
39.00	21680	102.00	90	163.00	8	253.00	121
40.00	284	103.00	687	164.00	129	256.00	44
45.00	9447	104.00	3322	166.00	163	257.00	75
46.00	792	105.00	1378	167.00	515	258.00	83
47.00	12669	106.00	3701	168.00	402	259.00	69
48.00	7850	107.00	994	169.00	648	262.00	68
49.00	58152	108.00	59	170.00	502	264.00	79
50.00	277312	110.00	661	171.00	521	265.00	227
51.00	80792	111.00	805	172.00	1430	266.00	203
52.00	3855	112.00	759	173.00	2714	267.00	162
53.00	146	113.00	435	174.00	658304	270.00	162
54.00	109	115.00	1072	175.00	50888	272.00	216
55.00	3341	116.00	2716	176.00	642752	274.00	133
56.00	16848	117.00	5528	177.00	39472	275.00	69
57.00	33784	118.00	2917	178.00	839	276.00	181
58.00	1021	119.00	4087	182.00	134	279.00	115
59.00	304	120.00	55	183.00	83	281.00	176
60.00	10773	121.00	159	185.00	139	283.00	68
61.00	55728	122.00	403	187.00	136	287.00	107
62.00	55352	123.00	134	189.00	88	288.00	68
63.00	43712	124.00	83	193.00	289	290.00	71
64.00	3750	125.00	451	195.00	343	293.00	179
65.00	1146	127.00	358	197.00	66	294.00	94
66.00	152	128.00	2283	199.00	146	297.00	73
67.00	2123	129.00	1241	200.00	108	298.00	135
68.00	107008	130.00	2732	204.00	73	300.00	96
69.00	101120	131.00	1196	207.00	441	304.00	72
70.00	7129	132.00	250	209.00	273	306.00	85
71.00	315	133.00	88	210.00	158	309.00	138
72.00	3515	135.00	1557	211.00	85	315.00	75
73.00	42880	136.00	107	213.00	78	317.00	153

Date : 08-JUL-2008 08:33

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8070801.d
Spectrum: Avg. Scans 18-20 (3.58), Background Scan 16
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	173376	137.00	1450	215.00	72	318.00	103
75.00	504320	138.00	346	216.00	83	321.00	89
76.00	43136	139.00	246	217.00	216	322.00	162
77.00	4106	140.00	340	218.00	201	323.00	110
78.00	2765	141.00	10067	223.00	168	324.00	71
79.00	24360	142.00	1249	224.00	94	325.00	83
80.00	6720	143.00	10364	225.00	94	327.00	156
81.00	25264	144.00	691	228.00	66	329.00	237
82.00	5351	145.00	762	229.00	68	331.00	83
83.00	412	146.00	1181	230.00	95	332.00	69
84.00	179	147.00	535	232.00	283	334.00	172
86.00	54	148.00	1450	233.00	163	337.00	177
87.00	20472	149.00	314	235.00	81	338.00	75
88.00	21936	150.00	1124	236.00	72	340.00	102
90.00	50	151.00	26	237.00	230	343.00	129
91.00	3019	152.00	750	240.00	66	344.00	188
92.00	26168	153.00	15	242.00	82		
93.00	38712	154.00	404	244.00	167		
94.00	111696	155.00	2039	245.00	146		
95.00	874944	156.00	859	246.00	183		

Air Toxics Ltd.

Data file : /chem/msd8.i/8-21jul.b/8072101.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 21-JUL-2008 08:36
Operator : smd Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-21jul.b/bfb30.m
Meth Date : 21-Jul-2008 08:24 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

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 (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.582	3.748	-0.166	95	1027840			100.00- 100.00	100.00
3.582	3.748	-0.166	50	288640			15.00- 40.00	28.08
3.582	3.748	-0.166	75	606720			30.00- 60.00	59.03
3.582	3.748	-0.166	96	64544			5.00- 9.00	6.28
3.582	3.748	-0.166	173	12277			0.00- 2.00	1.77
3.582	3.748	-0.166	174	693824			50.00- 100.00	67.50
3.582	3.748	-0.166	175	53168			5.00- 9.00	7.66
3.582	3.748	-0.166	176	668032			95.00- 101.00	96.28
3.582	3.748	-0.166	177	42192			5.00- 9.00	6.32

Data File: /chem/msd8.i/8-21jul.b/8072101.d

Date : 21-JUL-2008 08:36

Client ID: BFB

Instrument: msd8.i

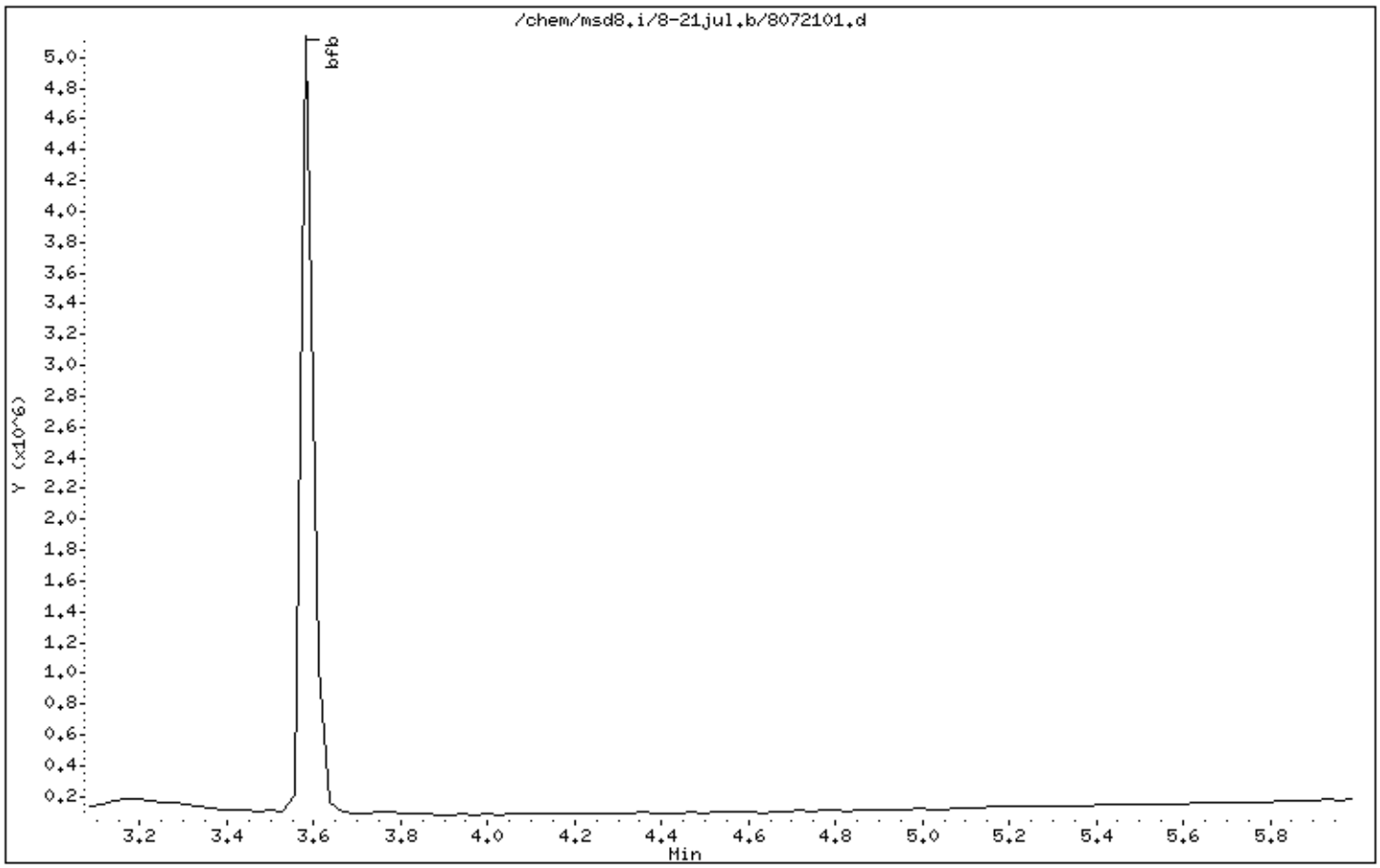
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-21jul.b/8072101.d

Date : 21-JUL-2008 08:36

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

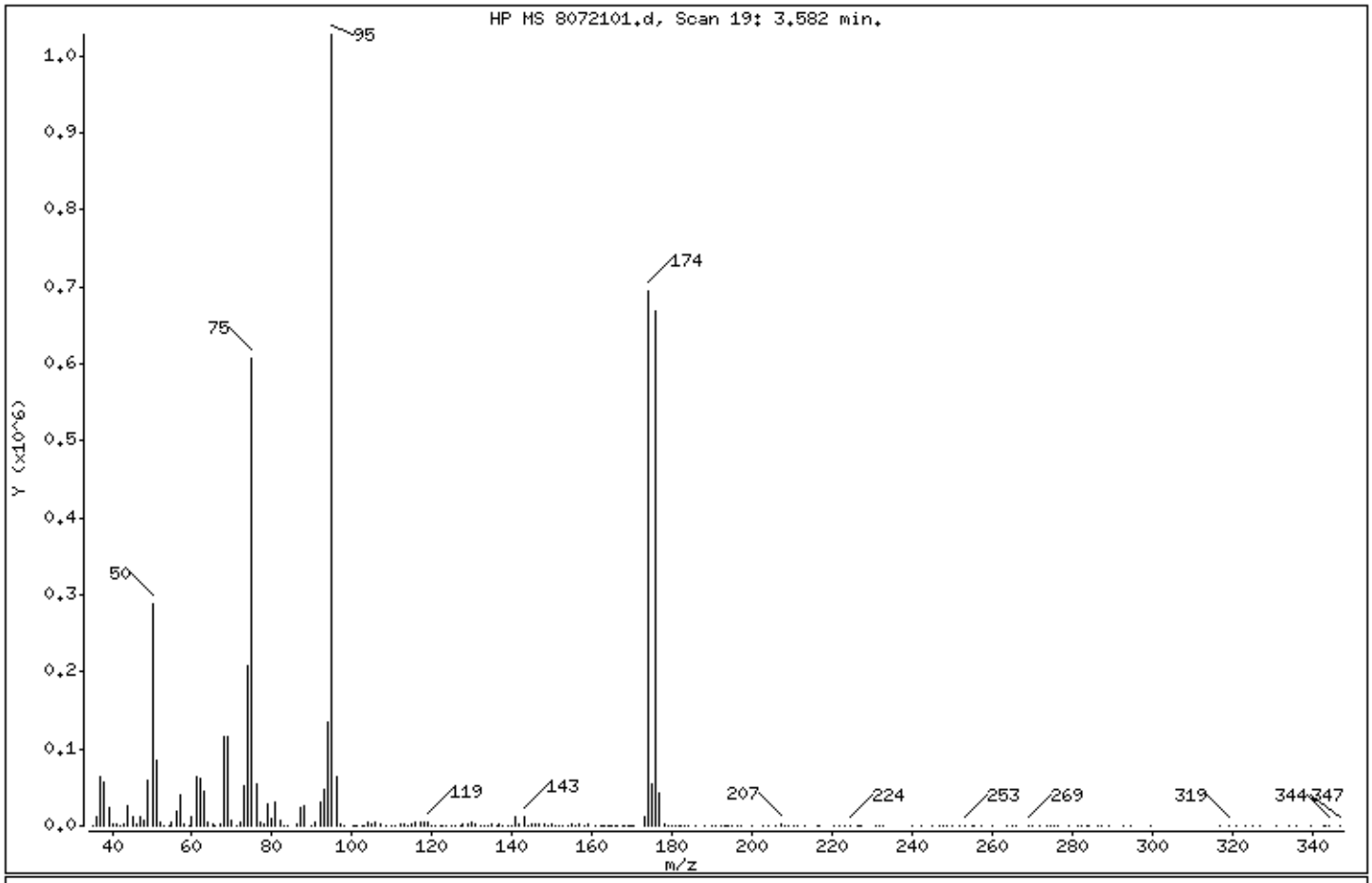
Volume Injected (uL): 2.0

Operator: smd

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	28.08
75	30.00 - 60.00% of mass 95	59.03
96	5.00 - 9.00% of mass 95	6.28
173	Less than 2.00% of mass 174	1.19 (1.77)
174	50.00 - 100.00% of mass 95	67.50
175	5.00 - 9.00% of mass 174	5.17 (7.66)
176	95.00 - 101.00% of mass 174	64.99 (96.28)
177	5.00 - 9.00% of mass 176	4.10 (6.32)

Date : 21-JUL-2008 08:36

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8072101.d
Spectrum: HP MS 8072101.d, Scan 19: 3.582 min.
Location of Maximum: 95.00
Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.30	373	95.00	1027840	155.00	2367	224.60	372
36.00	12405	96.00	64544	155.80	577	226.30	211
37.00	64240	97.00	1573	156.90	2511	226.80	225
38.00	57272	97.90	469	158.10	449	227.40	256
39.10	24304	100.10	282	158.90	1501	230.90	270
40.00	1740	100.90	236	160.80	1094	231.70	239
41.00	1267	101.40	335	162.00	463	232.90	268
42.10	688	102.70	408	162.70	308	239.80	210
43.10	2106	103.00	415	163.20	225	242.10	225
44.00	25696	103.90	5281	164.00	240	245.10	290
45.00	12761	104.80	1508	164.40	207	246.60	382
46.10	1658	105.80	4020	165.10	432	247.90	249
47.00	10885	107.00	1237	165.90	425	248.60	306
48.00	7880	108.60	340	166.40	355	249.80	204
49.00	59256	109.80	720	167.50	210	251.80	211
50.00	288640	110.80	1004	168.20	633	253.20	691
51.00	84552	111.90	1191	168.90	438	254.90	245
52.10	3962	112.90	1252	169.40	732	255.60	200
53.00	534	114.00	269	170.00	614	257.30	244
54.20	608	114.90	1797	170.50	603	260.10	433
55.00	4104	115.90	4102	173.10	12277	263.80	202
56.00	19184	116.90	5407	173.90	693824	265.10	304
57.00	39488	117.90	3684	175.00	53168	266.10	232
57.80	1187	118.90	5489	175.90	668032	268.90	805
59.20	480	119.90	497	176.90	42192	270.10	231
60.00	11953	120.80	298	178.00	1666	272.00	366
61.00	62976	121.90	477	179.10	335	273.70	318
62.00	61336	122.70	615	180.00	212	274.50	256
63.00	45744	123.70	708	180.60	275	275.60	463
64.00	4337	124.70	836	181.70	232	276.20	204
65.10	1888	125.80	746	182.10	306	279.30	215
65.80	720	126.90	399	183.00	344	281.20	320
67.00	3133	127.80	2801	183.90	309	282.20	218
68.00	115088	129.00	1989	185.60	225	283.60	204
69.00	116792	129.80	3579	188.20	249	284.20	341

Date : 21-JUL-2008 08:36

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8072101.d
Spectrum: HP MS 8072101.d, Scan 19: 3.582 min.
Location of Maximum: 95.00
Number of points: 232

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	6998	130.80	1265	190.00	249	286.50	244
71.20	476	132.10	441	190.80	335	287.30	453
72.00	5567	132.90	732	192.20	577	289.10	266
73.00	51576	133.90	527	193.10	523	292.90	206
74.00	207936	135.00	1682	193.60	276	294.50	252
75.00	606720	136.20	478	194.10	213	299.70	218
76.00	53408	136.90	1720	194.90	284	316.70	212
77.00	4975	137.60	243	196.30	220	319.20	249
78.10	2796	138.90	391	197.30	331	320.80	296
78.90	29064	139.90	826	200.10	220	323.10	282
79.90	8636	140.90	11516	202.70	273	325.10	349
80.90	31088	141.90	1849	204.20	232	326.90	298
81.90	7556	142.90	12063	205.80	229	331.10	205
82.90	861	143.90	947	207.10	1493	334.20	237
84.00	296	144.90	1381	207.90	517	336.00	321
86.00	1496	146.00	1979	208.90	366	339.70	239
87.00	24520	146.90	1321	210.40	212	342.60	225
87.90	26824	147.90	1964	211.10	307	343.10	265
89.80	339	149.00	731	213.00	376	344.00	383
90.00	328	149.80	1253	216.10	202	346.80	227
90.90	4038	150.90	524	216.80	201		
92.00	30752	151.80	431	220.50	247		
93.00	46608	152.80	607	221.60	219		
94.00	133504	153.90	847	223.00	324		

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 #: 0807189
# of pages (Including Cover): 1

7/28/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no 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.

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

0263

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

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	UW AMS 5 34009	7/9/08 0550-1345	TO-15 + Naphthalene	-30	-9.5	
02A	DW AMS 3 4164	7/9/08 0552-1347	TO-15 + Naphthalene	-30	-6.5	
03A	XX AMS X 34260	7/9/08 0552-1347	TO-15 + NAPHTHALENE	-30	-7.5	
04A	TRIP BLANK 410	7/9/08	TRIP BLANK			

Relinquished By: (Signature) Date/Time: MRL 7/9/08 @ 1403
Received By: (Signature) Date/Time: MONICA GLOSSEN AIT 7/10/08 930
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	8631 8423 4360	MG	NA	Good	Yes No (None)	0807189

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0807189

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: 07/24/08
Date Completed: 7/23/08
Date Received: 7/10/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 1,303.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 5	Modified TO-15	7/9/2008	8.5 "Hg	$225.00
02A	DW AMS 3	Modified TO-15	7/9/2008	5.0 "Hg	$225.00
03A	XX AMS X	Modified TO-15	7/9/2008	8.0 "Hg	$225.00
03AA	XX AMS X Lab Duplicate	Modified TO-15	7/9/2008	8.0 "Hg	$0.00
04A	Trip Blank	Modified TO-15	7/9/2008	4.6psi	$225.00
05A	Lab Blank	Modified TO-15	NA	NA	$0.00
06A	CCV	Modified TO-15	NA	NA	$0.00
07A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (1) @ $50.00 each., Shipment 58430	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each., Shipment 58	$195.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 58430	$70.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each., Shipmen	$80.00
	Fuel Surcharge (4) @ $2.00 each.	$8.00

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

Other Records

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
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	

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Media Certification Report

Canister Number: 6L#34009 w/10.2ml+T+cane
Can#: 58430-34009
Date : 05/24/08 0:04
Data File: x052322.d

Name	CAS	Type	Conc.	Units
Ethyl Benzene	100-41-4	Not Found	0.00	ppbv
Styrene	100-42-5	Not Found	0.00	ppbv
alpha-Chlorotoluene	100-44-7	Not Found	0.00	ppbv
cis-1,3-Dichloropropene	10061-01-5	Not Found	0.00	ppbv
trans-1,3-Dichloropropene	10061-02-6	Not Found	0.00	ppbv
Propylbenzene	103-65-1	Not Found	0.00	ppbv
1,4-Dichlorobenzene	106-46-7	Not Found	0.00	ppbv
1,2-Dibromoethane (EDB)	106-93-4	Not Found	0.00	ppbv
1,3-Butadiene	106-99-0	Not Found	0.00	ppbv
3-Chloropropene	107-05-1	Not Found	0.00	ppbv
1,2-Dichloroethane	107-06-2	Not Found	0.00	ppbv
4-Methyl-2-pentanone	108-10-1	Not Found	0.00	ppbv
m,p-Xylene	108-38-3	Not Found	0.00	ppbv
1,3,5-Trimethylbenzene	108-67-8	Not Found	0.00	ppbv
Toluene	108-88-3	Not Found	0.00	ppbv
Chlorobenzene	108-90-7	Not Found	0.00	ppbv
Tetrahydrofuran	109-99-9	Not Found	0.00	ppbv
Hexane	110-54-3	Not Found	0.00	ppbv
Cyclohexane	110-82-7	Not Found	0.00	ppbv
1,2,4-Trichlorobenzene	120-82-1	Not Found	0.00	ppbv
1,4-Dioxane	123-91-1	Not Found	0.00	ppbv
Dibromochloromethane	124-48-1	Not Found	0.00	ppbv
Tetrachloroethene	127-18-4	Not Found	0.00	ppbv
Heptane	142-82-5	Not Found	0.00	ppbv
cis-1,2-Dichloroethene	156-59-2	Not Found	0.00	ppbv
trans-1,2-Dichloroethene	156-60-5	Not Found	0.00	ppbv
Methyl tert-butyl ether	1634-04-4	Not Found	0.00	ppbv
2,2,4-Trimethylpentane	540-84-1	Not Found	0.00	ppbv
1,3-Dichlorobenzene	541-73-1	Not Found	0.00	ppbv
Carbon Tetrachloride	56-23-5	Not Found	0.00	ppbv
2-Hexanone	591-78-6	Not Found	0.00	ppbv
4-Ethyltoluene	622-96-8	Not Found	0.00	ppbv
Ethanol	64-17-5	Not Found	0.00	ppbv
2-Propanol	67-63-0	Not Found	0.00	ppbv
Acetone	67-64-1	Not Found	0.00	ppbv
Chloroform	67-66-3	Not Found	0.00	ppbv
Benzene	71-43-2	Not Found	0.00	ppbv
1,1,1-Trichloroethane	71-55-6	Not Found	0.00	ppbv
Bromomethane	74-83-9	Not Found	0.00	ppbv
Chloromethane	74-87-3	Not Found	0.00	ppbv
Chloroethane	75-00-3	Not Found	0.00	ppbv
Vinyl Chloride	75-01-4	Not Found	0.00	ppbv
Methylene Chloride	75-09-2	Not Found	0.00	ppbv

Name	CAS	Type	Conc.	Units
Carbon Disulfide	75-15-0	Not Found	0.00	ppbv
Bromoform	75-25-2	Not Found	0.00	ppbv
Bromodichloromethane	75-27-4	Not Found	0.00	ppbv
1,1-Dichloroethane	75-34-3	Not Found	0.00	ppbv
1,1-Dichloroethene	75-35-4	Not Found	0.00	ppbv
Freon 11	75-69-4	Not Found	0.00	ppbv
Freon 12	75-71-8	Not Found	0.00	ppbv
Freon 113	76-13-1	Not Found	0.00	ppbv
Freon 114	76-14-2	Not Found	0.00	ppbv
1,2-Dichloropropane	78-87-5	Not Found	0.00	ppbv
2-Butanone (Methyl Ethyl	78-93-3	Not Found	0.00	ppbv
1,1,2-Trichloroethane	79-00-5	Not Found	0.00	ppbv
Trichloroethene	79-01-6	Not Found	0.00	ppbv
1,1,2,2-Tetrachloroethane	79-34-5	Not Found	0.00	ppbv
Hexachlorobutadiene	87-68-3	Not Found	0.00	ppbv
Naphthalene	91-20-3	Not Found	0.00	ppbv
o-Xylene	95-47-6	Not Found	0.00	ppbv
1,2-Dichlorobenzene	95-50-1	Not Found	0.00	ppbv
1,2,4-Trimethylbenzene	95-63-6	Not Found	0.00	ppbv
Cumene	98-82-8	Not Found	0.00	ppbv
1,2-Dichloroethane-d4	17060-07-0		96.00	% Recovery
Toluene-d8	2037-26-5		98.00	% Recovery
4-Bromofluorobenzene	460-00-4		101.00	% Recovery

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Media Certification Report

File/Canister #: F051942; 6L #34260 w/ 10.2 mL:1
Date: 5/20/2008 05:08:05

Peak #	Quantification	CAS	Type	Concentration	Units
	Bromochloromethane-IS1111	0-00-0	Not Found		ppbv
	1,4-Difluorobenzene-IS1111	0-00-0	Not Found		ppbv
	Chlorobenzene-d5-IS1111	0-00-0	Not Found		ppbv
	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	Propylene	132417-16-4	Not Found		ppbv
	Isobutane	0-00-0	Not Found		ppbv
	Freon 12	0-00-0	Not Found		ppbv
	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	Freon 114	0-00-0	Not Found		ppbv
	Chloromethane	0-00-0	Not Found		ppbv
	Butane	0-00-0	Not Found		ppbv
	Vinyl Chloride	0-00-0	Not Found		ppbv
	1,3-Butadiene	0-00-0	Not Found		ppbv
	Acrolein	0-00-0	Not Found		ppbv
	2-Methylpentane	0-00-0	Not Found		ppbv
	Methyl Acetate	0-00-0	Not Found		ppbv
	Bromomethane	0-00-0	Not Found		ppbv
	Acrylonitrile	0-00-0	Not Found		ppbv
	Chloroethane	0-00-0	Not Found		ppbv
	Chloroprene	0-00-0	Not Found		ppbv
	Isopentane	0-00-0	Not Found		ppbv
	Vinyl bromide	0-00-0	Not Found		ppbv
	Freon 11	0-00-0	Not Found		ppbv
	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	Thiophene	0-00-0	Not Found		ppbv
	Ethanol	0-00-0	Not Found		ppbv
	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	Freon 113	0-00-0	Not Found		ppbv
	Dibromomethane	0-00-0	Not Found		ppbv
	Acetone	0-00-0	Not Found		ppbv
	3-Chloropropene	0-00-0	Not Found		ppbv
	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	Hexane	0-00-0	Not Found		ppbv
	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	Isopropyl ether	0-00-0	Not Found		ppbv
	Vinyl Acetate	0-00-0	Not Found		ppbv
	Nonane	589-43-5	Not Found		ppbv
	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	cis-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		ppbv

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Media Certification Report

File/Canister #: F051942; 6L #34260 w/ 10.2 mL:1
Date: 5/20/2008 05:08:05

Peak #	Quantification	CAS	Type	Concentration	Units
	Tetrahydrofuran	0-00-0	Not Found		ppbv
	Chloroform	0-00-0	Not Found		ppbv
	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	Cyclohexane	0-00-0	Not Found		ppbv
	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	Heptane	0-00-0	Not Found		ppbv
	Methylcyclohexane	0-00-0	Not Found		ppbv
	1,2-Dichloropropane	0-00-0	Not Found		ppbv
	1,4-Dioxane	0-00-0	Not Found		ppbv
	Bromodichloromethane	0-00-0	Not Found		ppbv
	Indan	0-00-0	Not Found		ppbv
	Hexachloroethane	0-00-0	Not Found		ppbv
	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv
	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	1,1,2-Trichloroethane	0-00-0	Not Found		ppbv
	Tetrachloroethene	0-00-0	Not Found		ppbv
	2-Hexanone	0-00-0	Not Found		ppbv
	Dibromochloromethane	0-00-0	Not Found		ppbv
	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	Chlorobenzene	0-00-0	Not Found		ppbv
	Ethyl Benzene	0-00-0	Not Found		ppbv
	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	m,p-Xylene	0-00-0	Not Found		ppbv
	o-Xylene	0-00-0	Not Found		ppbv
	Styrene	0-00-0	Not Found		ppbv
	Bromoform	0-00-0	Not Found		ppbv
	Cumene	0-00-0	Not Found		ppbv
	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	Propylbenzene	0-00-0	Not Found		ppbv
	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	4-Ethyltoluene	0-00-0	Not Found		ppbv
	2-Chlorotoluene	108-41-8	Not Found		ppbv
	1,3,5-Trimethylbenzene	0-00-0	Not Found		ppbv
	3-Chlorotoluene	106-43-4	Not Found		ppbv
	tert-Butylbenzene	0-00-0	Not Found		ppbv
	1,2,4-Trimethylbenzene	0-00-0	Not Found		ppbv
	Pentachloroethane	0-00-0	Not Found		ppbv

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Media Certification Report

File/Canister #: F051942; 6L #34260 w/ 10.2 mL:1
Date: 5/20/2008 05:08:05

Peak #	Quantification	CAS	Type	Concentration	Units
	sec-Butylbenzene	0-00-0	Not Found		ppbv
	p-Cymene	0-00-0	Not Found		ppbv
	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv
	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	Butylbenzene	0-00-0	Not Found		ppbv
	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		ppbv
	1,2,4-Trichlorobenzene	0-00-0	Not Found		ppbv
	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	Naphthalene	0-00-0	Not Found		ppbv
2	Carbon Disulfide	83463-62-1	Quantified	0.00	ppbv
7	Methylene Chloride	75-09-2	Quantified	0.02	ppbv
9	Bromochloromethane-IS	74-97-5	Quantified	2.50	ppbv
10	Benzene	22592-15-0	Quantified	0.01	ppbv
10	1,2-Dichloroethane-d4	22592-15-0	Quantified	3.12	ppbv
14	1,4-Difluorobenzene-IS	540-36-3	Quantified	2.50	ppbv
15	1-Butanol	32347-12-9	Quantified	0.00	ppbv
20	Toluene-D8	2037-26-5	Quantified	2.53	ppbv
22	Toluene	2422-86-8	Quantified	0.01	ppbv
27	Chlorobenzene-d5-IS	3114-55-4	Quantified	2.50	ppbv
32	Bromofluorobenzene	1073-06-9	Quantified	2.32	ppbv

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Media Certification Report

File/Canister #: F052960; 6L #410 w/ 10.2mL w/ T:1
Date: 5/30/2008 07:35:29

Peak #	Quantification	CAS	Type	Concentration	Units
	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	Freon 134a	0-00-0	Not Found		ppbv
	Propylene	132417-16-4	Not Found		ppbv
	Isobutane	0-00-0	Not Found		ppbv
	Freon 12	0-00-0	Not Found		ppbv
	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	Freon 114	0-00-0	Not Found		ppbv
	Chloromethane	0-00-0	Not Found		ppbv
	1,3-Butadiene	0-00-0	Not Found		ppbv
	Acrolein	0-00-0	Not Found		ppbv
	2-Methylpentane	0-00-0	Not Found		ppbv
	Methyl Acetate	0-00-0	Not Found		ppbv
	Acrylonitrile	0-00-0	Not Found		ppbv
	Chloroethane	0-00-0	Not Found		ppbv
	Vinyl bromide	0-00-0	Not Found		ppbv
	Freon 11	0-00-0	Not Found		ppbv
	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	Thiophene	0-00-0	Not Found		ppbv
	Ethanol	0-00-0	Not Found		ppbv
	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	Freon 113	0-00-0	Not Found		ppbv
	Dibromomethane	0-00-0	Not Found		ppbv
	Acetone	0-00-0	Not Found		ppbv
	3-Chloropropene	0-00-0	Not Found		ppbv
	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	Ethyl-tert-butyl ether	0-00-0	Not Found		ppbv
	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	Hexane	0-00-0	Not Found		ppbv
	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	Isopropyl ether	0-00-0	Not Found		ppbv
	Vinyl Acetate	0-00-0	Not Found		ppbv
	Nonane	589-43-5	Not Found		ppbv
	2,2-Dichloropropane	0-00-0	Not Found		ppbv
	cis-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	2-Butanone (Methyl Ethyl Ketone)	0-00-0	Not Found		ppbv
	Ethyl Acetate	0-00-0	Not Found		ppbv
	Tetrahydrofuran	0-00-0	Not Found		ppbv
	Chloroform	0-00-0	Not Found		ppbv
	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	Cyclohexane	0-00-0	Not Found		ppbv
	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	1,1-Dichloropropene	0-00-0	Not Found		ppbv

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Media Certification Report

File/Canister #: F052960; 6L #410 w/ 10.2mL w/ T:1
Date: 5/30/2008 07:35:29

Peak #	Quantification	CAS	Type	Concentration	Units
	2,2,4-Trimethylpentane	0-00-0	Not Found		ppbv
	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	Heptane	0-00-0	Not Found		ppbv
	Trichloroethene	0-00-0	Not Found		ppbv
	Methylcyclohexane	0-00-0	Not Found		ppbv
	1,2-Dichloropropane	0-00-0	Not Found		ppbv
	1,4-Dioxane	0-00-0	Not Found		ppbv
	Bromodichloromethane	0-00-0	Not Found		ppbv
	Indan	0-00-0	Not Found		ppbv
	Indene	0-00-0	Not Found		ppbv
	Hexachloroethane	0-00-0	Not Found		ppbv
	cis-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	4-Methyl-2-pentanone	0-00-0	Not Found		ppbv
	trans-1,3-Dichloropropene	0-00-0	Not Found		ppbv
	1,1,2-Trichloroethane	0-00-0	Not Found		ppbv
	Tetrachloroethene	0-00-0	Not Found		ppbv
	2-Hexanone	0-00-0	Not Found		ppbv
	Dibromochloromethane	0-00-0	Not Found		ppbv
	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
	1,2-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	Chlorobenzene	0-00-0	Not Found		ppbv
	Ethyl Benzene	0-00-0	Not Found		ppbv
	1,1,1,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	m,p-Xylene	0-00-0	Not Found		ppbv
	o-Xylene	0-00-0	Not Found		ppbv
	Styrene	0-00-0	Not Found		ppbv
	Bromoform	0-00-0	Not Found		ppbv
	Cumene	0-00-0	Not Found		ppbv
	1,1,2,2-Tetrachloroethane	0-00-0	Not Found		ppbv
	Propylbenzene	0-00-0	Not Found		ppbv
	1,2,3-Trichloropropane	0-00-0	Not Found		ppbv
	4-Ethyltoluene	0-00-0	Not Found		ppbv
	2-Chlorotoluene	108-41-8	Not Found		ppbv
	1,3,5-Trimethylbenzene	0-00-0	Not Found		ppbv
	3-Chlorotoluene	106-43-4	Not Found		ppbv
	tert-Butylbenzene	0-00-0	Not Found		ppbv
	1,2,4-Trimethylbenzene	0-00-0	Not Found		ppbv
	sec-Butylbenzene	0-00-0	Not Found		ppbv
	p-Cymene	0-00-0	Not Found		ppbv
	1,3-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,4-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv

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Media Certification Report

File/Canister #: F052960; 6L #410 w/ 10.2mL w/ T:1
Date: 5/30/2008 07:35:29

Peak #	Quantification	CAS	Type	Concentration	Units
	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	Butylbenzene	0-00-0	Not Found		ppbv
	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	1,2-Dibromo-3-chloropropane	0-00-0	Not Found		ppbv
	1,2,4-Trichlorobenzene	0-00-0	Not Found		ppbv
	Hexachlorobutadiene	0-00-0	Not Found		ppbv
	Naphthalene	0-00-0	Not Found		ppbv
2	Butane	150479-93-9	Quantified	0.02	ppbv
7	Isopentane	19634-37-8	Quantified	0.03	ppbv
14	Carbon Disulfide	24457-73-6	Quantified	0.01	ppbv
18	Methylene Chloride	75-09-2	Quantified	0.01	ppbv
22	Bromochloromethane-IS	74-97-5	Quantified	2.50	ppbv
23	Benzene	22592-15-0	Quantified	0.01	ppbv
23	1,2-Dichloroethane-d4	22592-15-0	Quantified	3.05	ppbv
26	1,4-Difluorobenzene-IS	540-36-3	Quantified	2.50	ppbv
27	1-Butanol	32347-12-9	Quantified	0.00	ppbv
30	Toluene-D8	2037-26-5	Quantified	2.53	ppbv
34	Chlorobenzene-d5-IS	3114-55-4	Quantified	2.50	ppbv
35	Bromofluorobenzene	460-00-4	Quantified	2.22	ppbv

DATA REVIEW CHECKLIST

Work Order #: 0807189

A	R	T	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)
N/A	☑	☐	☑	☐	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 7/23
	☑	☐	☐	☐	Appropriate data qualifier flags are applied
	☑	☐	☐	☐	Manual integrations for samples and QC are properly documented
☑	☑	☐		☐	Samples analyzed within the project or method specific clock 24
	☑	☐			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
☑	☐	☐	☑	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) 5psi
☑	☑			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: Qual in CCV, LCS

TO15 + Methane

M/O:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
7-22-08	R: BSA 7-23-08	7/23/08	
SO 7/23/08	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 08/29/05
Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable