
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 #: 0804255

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	4/28/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804255

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:	04/10/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	04/23/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS 1	Modified TO-15	5.5 "Hg	5 psi
01AA	UW AMS 1 Lab Duplicate	Modified TO-15	5.5 "Hg	5 psi
02A	DW AMS 5	Modified TO-15	5.5 "Hg	5 psi
03A	XX AMS X	Modified TO-15	4.0 "Hg	5 psi
04A	Trip Blank	Modified TO-15	4.6 psi	4.6 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: 04/23/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
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# 0804255

One 6 Liter Summa Canister and three 6 Liter Summa Canister (100% Certified) samples were received on April 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 with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample identification for sample Trip Blank was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

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

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 no 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 1	0804255-01A	4/ 9/2008	4/10/2008	NA	12	4/21/2008	NA	Good
UW AMS 1 Lab Duplicate	0804255-01AA	4/ 9/2008	4/10/2008	NA	12	4/21/2008	NA	Good
DW AMS 5	0804255-02A	4/ 9/2008	4/10/2008	NA	12	4/21/2008	NA	Good
XX AMS X	0804255-03A	4/ 9/2008	4/10/2008	NA	12	4/21/2008	NA	Good
Trip Blank	0804255-04A	NA	4/10/2008	NA	NA	4/21/2008	NA	Good
Lab Blank	0804255-05A	NA	NA	NA	NA	4/21/2008	NA	Good
CCV	0804255-06A	NA	NA	NA	NA	4/21/2008	NA	Good
LCS	0804255-07A	NA	NA	NA	NA	4/21/2008	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 1

Lab ID#: 0804255-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	0.94	4.0	4.7
Tetrahydrofuran	0.82	2.3	2.4	6.9

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1

Lab ID#: 0804255-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042111**	**Date of Collection: 4/9/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 4/21/08 07:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	0.94	4.0	4.7
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1

Lab ID#: 0804255-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042111**	**Date of Collection: 4/9/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 4/21/08 07:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	Not Detected	7.8	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	2.3	2.4	6.9
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21apr.b/5042111.d
Lab Smp Id: 0804255-01A
Inj Date : 21-APR-2008 19:12
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #25239
Misc Info : 5.5"Hg -> 5psi
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1
Dil Factor: 1.64000
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	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	173225	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	124963			46.23- 106.23	72.14
8.059	8.059 (1.000)	49	331935			170.58- 230.58	191.62
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	704894	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	105290			0.00- 45.33	14.94
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	762217	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	423625			0.00- 30.00	55.58
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	248499	26.8246	26.824	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	123919			28.07- 88.07	49.87
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	779933	26.4111	26.411	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	82468			0.00- 39.37	10.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	495301			40.62- 100.62	63.51
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	449168	24.5117	24.512	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	617351			111.11- 171.11	137.44
16.575	16.575 (1.105)	176	417005			64.95- 124.95	92.84
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.290)	85	9622	0.57553	0.9439	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	3296			0.00- 30.00	34.26
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	29876	1.42756	2.341	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	7934			0.00- 56.28	26.56
8.059	8.059 (1.000)	72	4655			0.00- 30.00	15.58

Report Date: 23-Apr-2008 10:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042111.d
Lab Smp Id: 0804255-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	173225	-23.44
92 1,4-Difluorobenze	973329	583997	1362661	704894	-27.58
125 Chlorobenzene-d5	1070776	642466	1499086	762217	-28.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 10:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804255-01A
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.824	107.30	70-130
$ 107 Toluene-d8	25.000	26.411	105.64	70-130
$ 138 Bromofluorobenzene	25.000	24.512	98.05	70-130

Data File: /chem/msd5.i/5-21apr.b/5042111.d

Date : 21-APR-2008 19:12

Client ID:

Sample Info: 200mL #25239

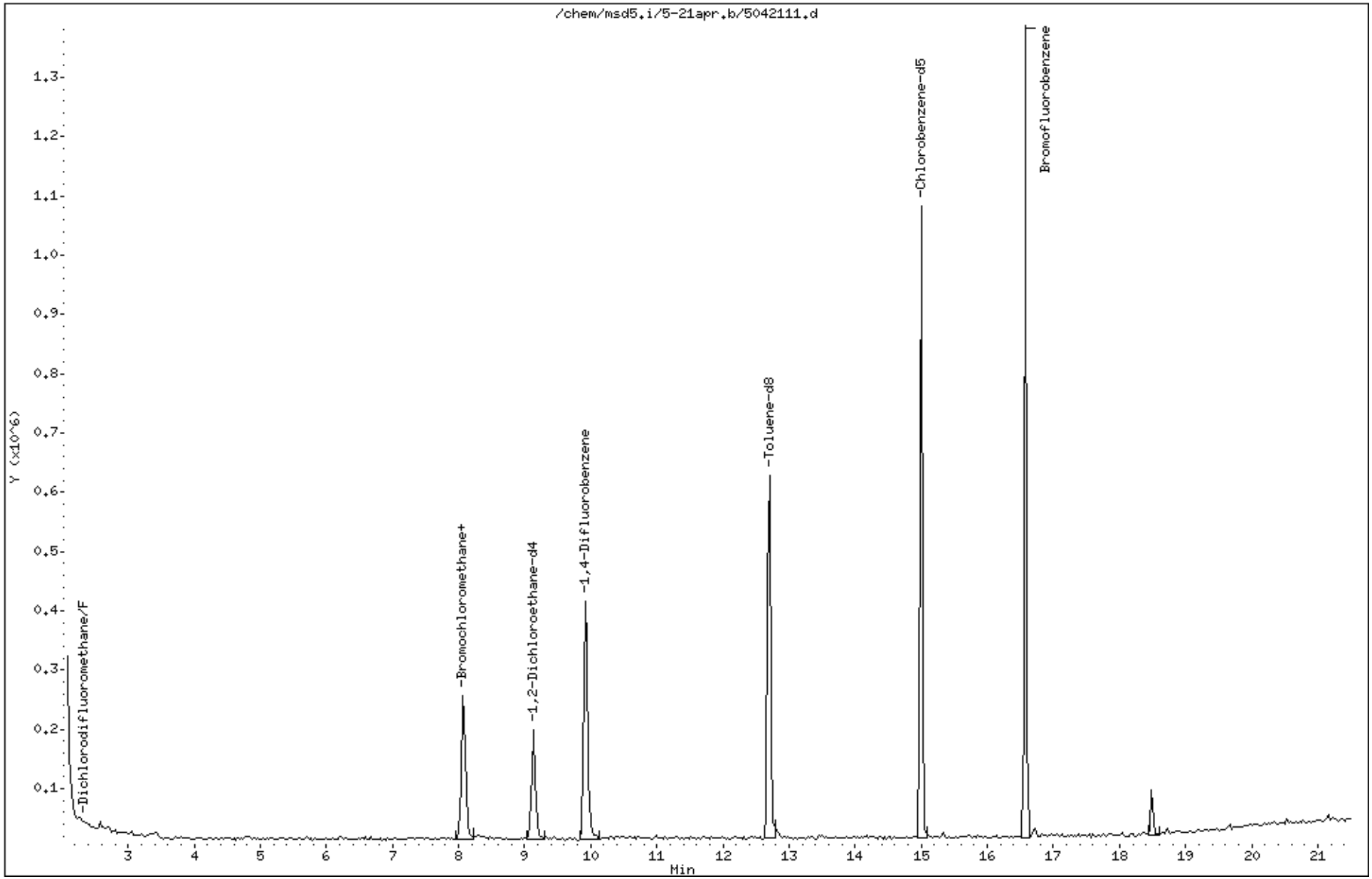
Column phase: RTx-624

Instrument: msd5.i

Operator: xp

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-21apr.b/5042111.d

Date : 21-APR-2008 19:12

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25239

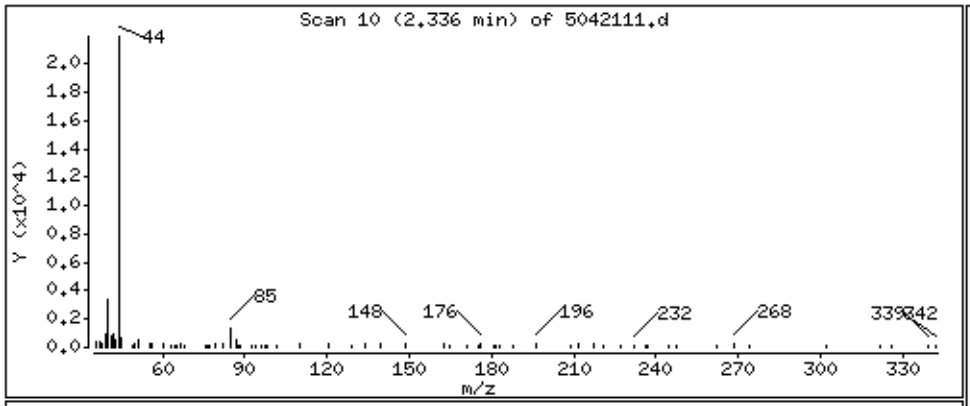
Operator: xp

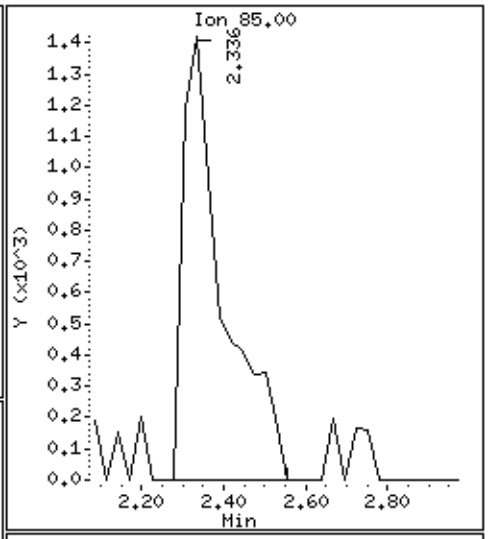
Column phase: RTx-624

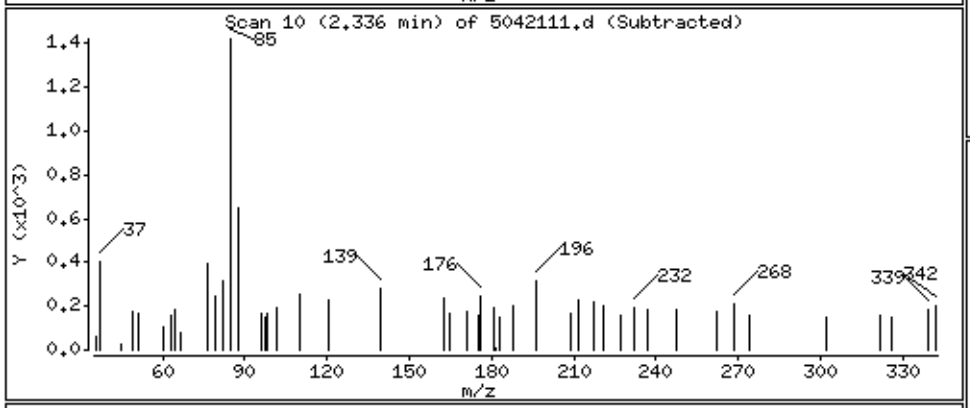
Column diameter: 0.53

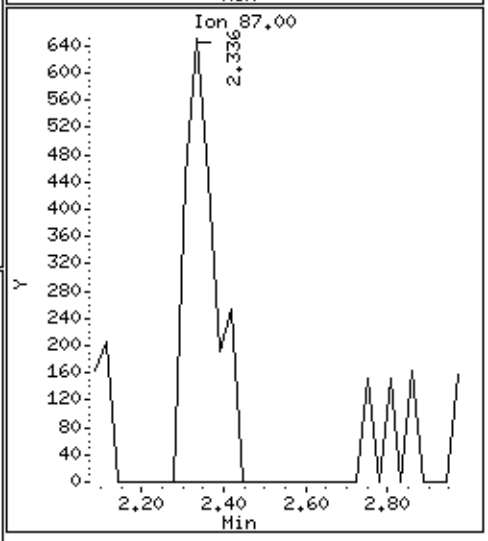
8 Dichlorodifluoromethane/Fr12

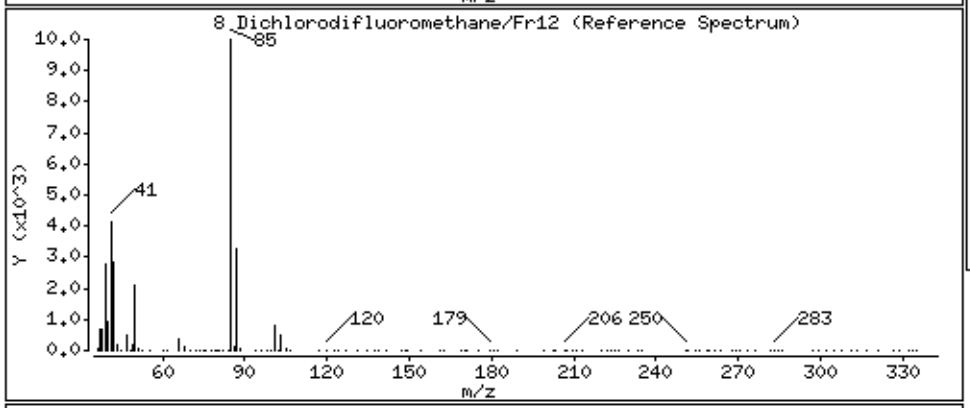
Concentration: 0.9439 PPBV

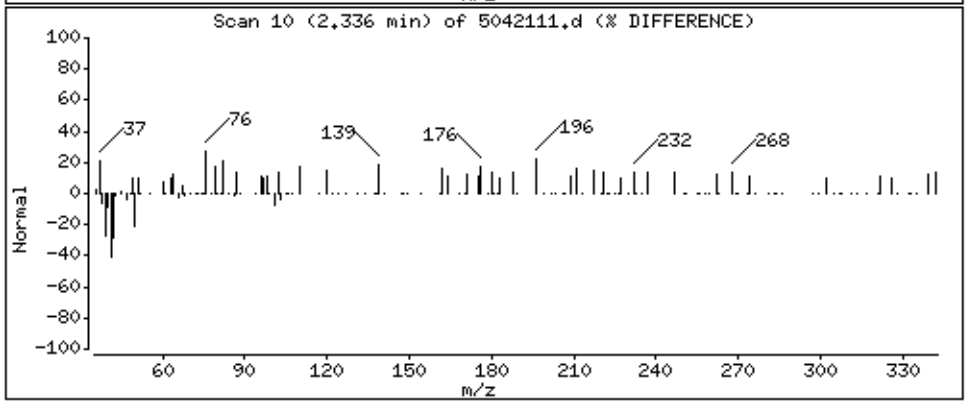












Data File: /chem/msd5.i/5-21apr.b/5042111.d

Date : 21-APR-2008 19:12

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25239

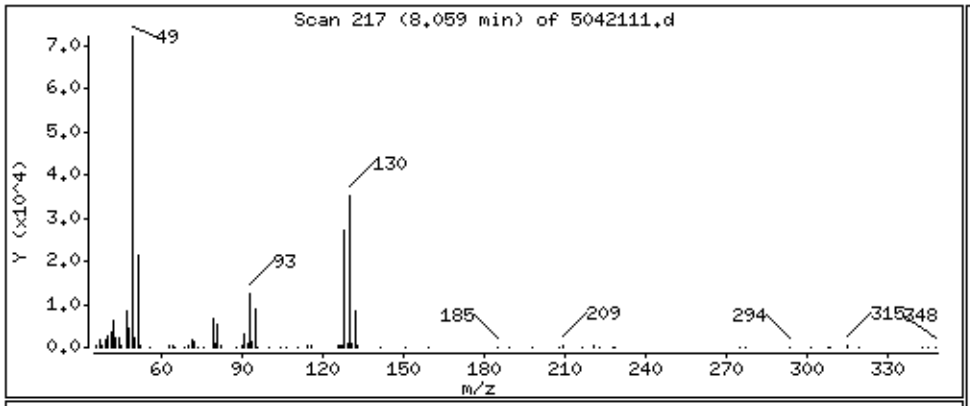
Operator: xp

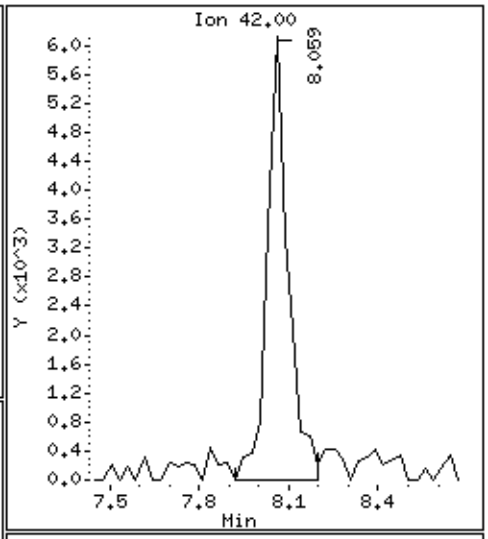
Column phase: RTx-624

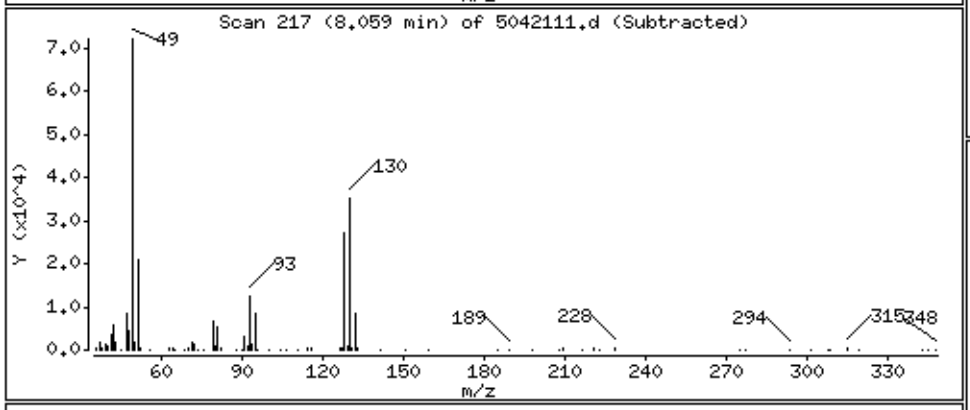
Column diameter: 0.53

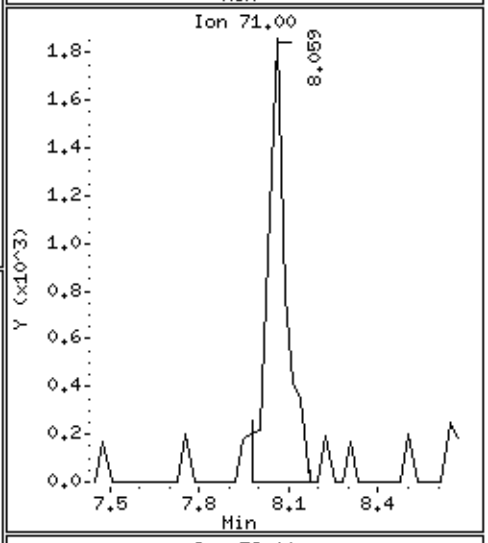
70 Tetrahydrofuran

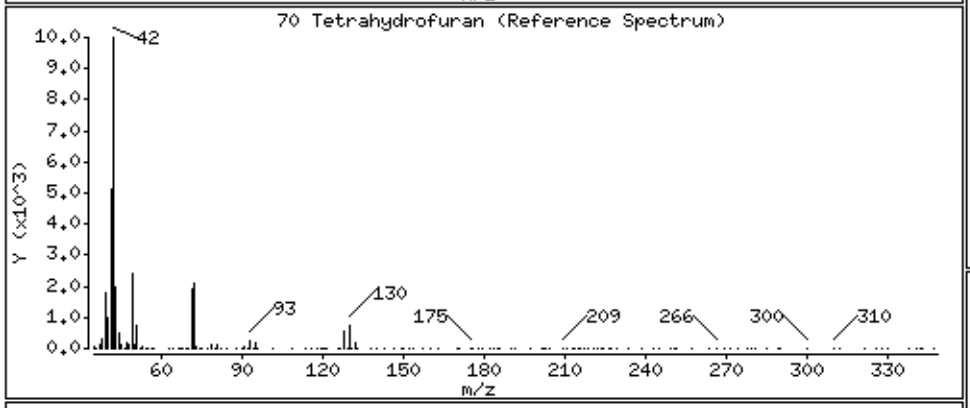
Concentration: 2.341 PPBV

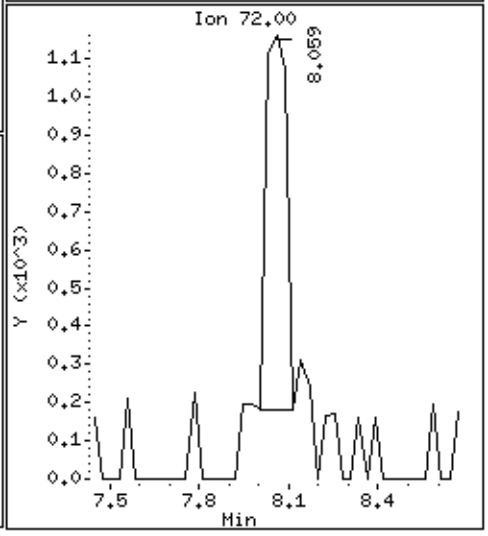


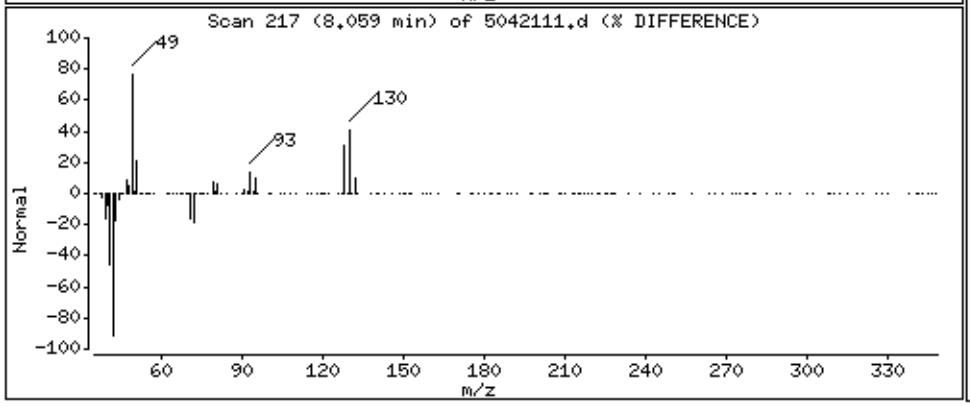












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 1 Lab Duplicate

Lab ID#: 0804255-01AA

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1 Lab Duplicate

Lab ID#: 0804255-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042112**	**Date of Collection:**	**4/9/08**
Dil. Factor:	**1.64**	**Date of Analysis:**	**4/21/08 07:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 1 Lab Duplicate

Lab ID#: 0804255-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042112**	**Date of Collection:**	**4/9/08**
Dil. Factor:	**1.64**	**Date of Analysis:**	**4/21/08 07:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	Not Detected	7.8	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21apr.b/5042112.d
Lab Smp Id: 0804255-01AA
Inj Date : 21-APR-2008 19:45
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #25239
Misc Info : 5.5"Hg -> 5psi
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1
Dil Factor: 1.64000
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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	157728	25.0000		80.00- 120.00	100.00
8.087	8.059 (1.000)	128	126476			46.23- 106.23	80.19
8.059	8.059 (1.000)	49	309497			170.58- 230.58	196.22
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	666600	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	104417			0.00- 45.33	15.66
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	743806	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	398018			0.00- 30.00	53.51
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	241457	28.6253	28.625	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	116579			28.07- 88.07	48.28
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	746995	26.7488	26.749	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	73875			0.00- 39.37	9.89

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	480029			40.62- 100.62	64.26
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	428272	23.9499	23.950	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	591425			111.11- 171.11	138.10
16.575	16.575 (1.105)	176	406534			64.95- 124.95	94.92

Report Date: 23-Apr-2008 10:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042112.d
Lab Smp Id: 0804255-01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	157728	-30.29
92 1,4-Difluorobenze	973329	583997	1362661	666600	-31.51
125 Chlorobenzene-d5	1070776	642466	1499086	743806	-30.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 10:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804255-01AA
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	28.625	114.50	70-130
$ 107 Toluene-d8	25.000	26.749	107.00	70-130
$ 138 Bromofluorobenzene	25.000	23.950	95.80	70-130

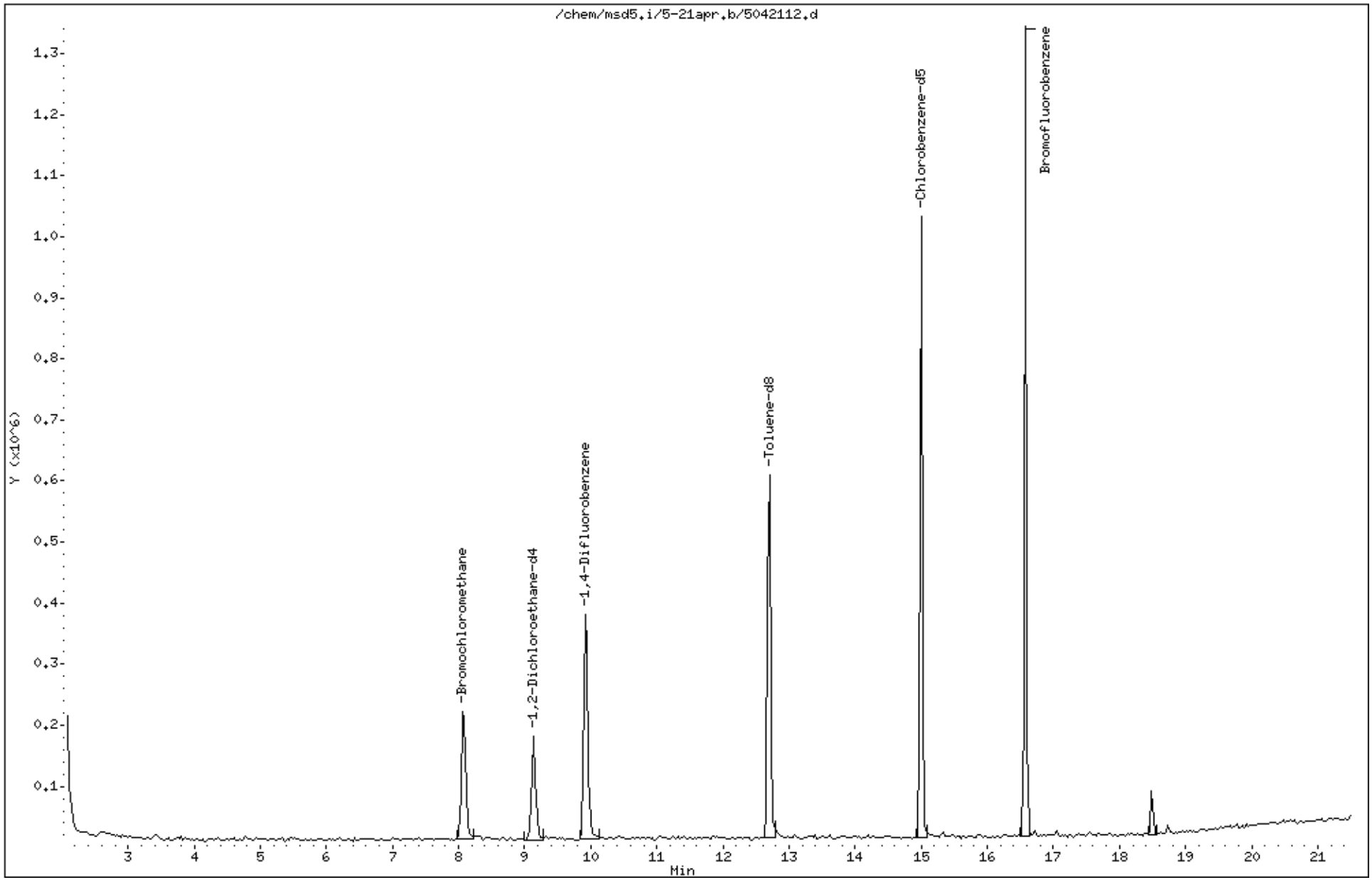
0023

Data File: /chem/msd5.i/5-21apr.b/5042112.d
Date : 21-APR-2008 19:45
Client ID:
Sample Info: 200mL #25239

Instrument: msd5.i

Operator: xp
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 5

Lab ID#: 0804255-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.3	12	7.8	29
2-Butanone (Methyl Ethyl Ketone)	0.82	2.4	2.4	7.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 5

Lab ID#: 0804255-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042113**	**Date of Collection:**	**4/9/08**
Dil. Factor:	**1.64**	**Date of Analysis:**	**4/21/08 08:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 5

Lab ID#: 0804255-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042113**	**Date of Collection: 4/9/08**	
Dil. Factor:	**1.64**	**Date of Analysis: 4/21/08 08:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	12	7.8	29
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	2.4	2.4	7.0
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21apr.b/5042113.d
Lab Smp Id: 0804255-02A
Inj Date : 21-APR-2008 20:18
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #5655
Misc Info : 5.5"Hg -> 5psi
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1
Dil Factor: 1.64000
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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	159292	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	121010			46.23- 106.23	75.97
8.059	8.059 (1.000)	49	304562			170.58- 230.58	191.20
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	681775	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	102382			0.00- 45.33	15.02
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	732063	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	399452			0.00- 30.00	54.57
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	242486	28.4650	28.465	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	115728			28.07- 88.07	47.73
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	744998	26.0835	26.084	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	84451			0.00- 39.37	11.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	470910			40.62- 100.62	63.21
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	438782	24.9312	24.931	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	594606			111.11- 171.11	135.51
16.575	16.575 (1.105)	176	421414			64.95- 124.95	96.04
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.590)	58	40124	7.38014	12.103	80.00- 120.00	100.00
4.741	4.741 (0.586)	43	144413			0.00- 30.00	359.91
67 2-Butanone					CAS #: 78-93-3		
7.700	7.672 (0.952)	72	6773	1.44682	2.373	80.00- 120.00	100.00
7.700	7.672 (0.952)	43	37422			581.14- 641.14	552.46
7.727	7.672 (0.956)	57	1941			0.00- 30.00	28.66

Report Date: 23-Apr-2008 10:52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042113.d
Lab Smp Id: 0804255-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	159292	-29.60
92 1,4-Difluorobenze	973329	583997	1362661	681775	-29.95
125 Chlorobenzene-d5	1070776	642466	1499086	732063	-31.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 10:52

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804255-02A
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 5.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	28.465	113.86	70-130
$ 107 Toluene-d8	25.000	26.084	104.33	70-130
$ 138 Bromofluorobenzene	25.000	24.931	99.72	70-130

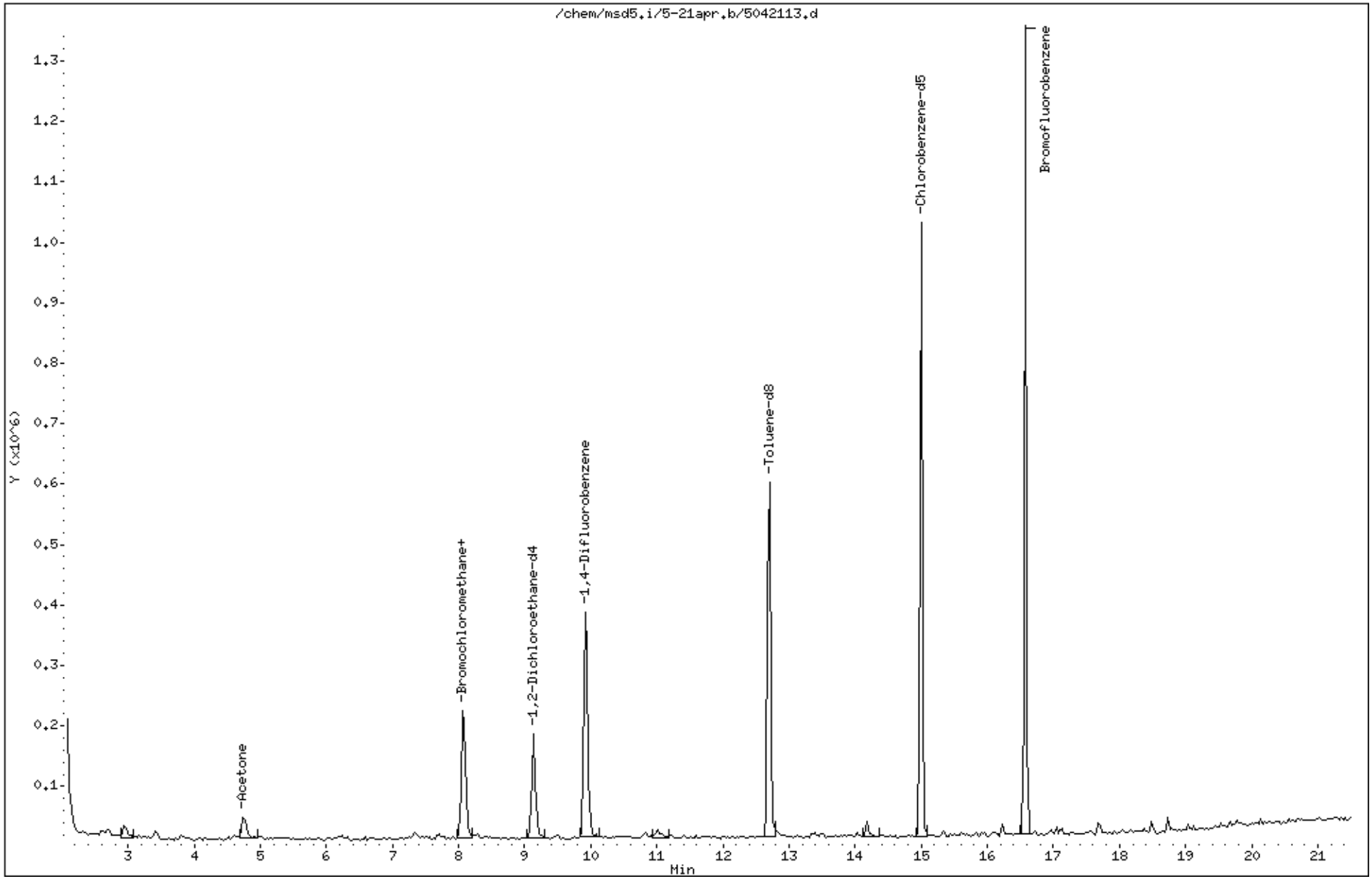
0031

Data File: /chem/msd5.i/5-21apr.b/5042113.d
Date : 21-APR-2008 20:18
Client ID:
Sample Info: 200mL #5655

Instrument: msd5.i

Operator: xp
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-21apr.b/5042113.d

Date : 21-APR-2008 20:18

Client ID:

Instrument: msd5.i

Sample Info: 200mL #5655

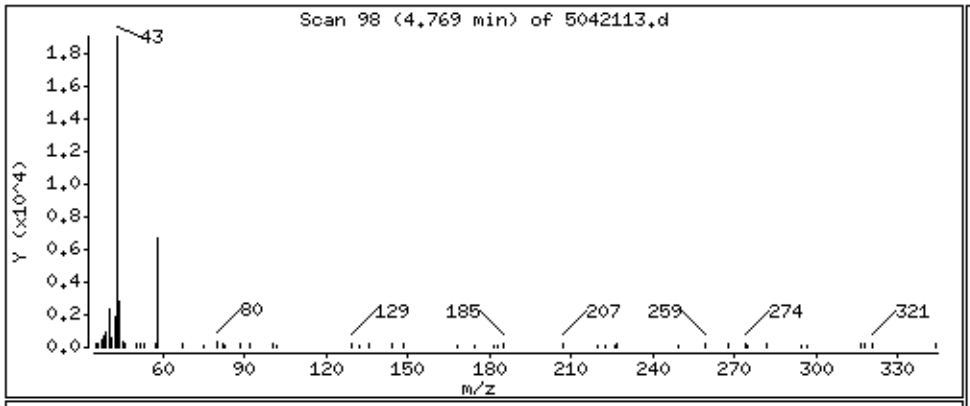
Operator: xp

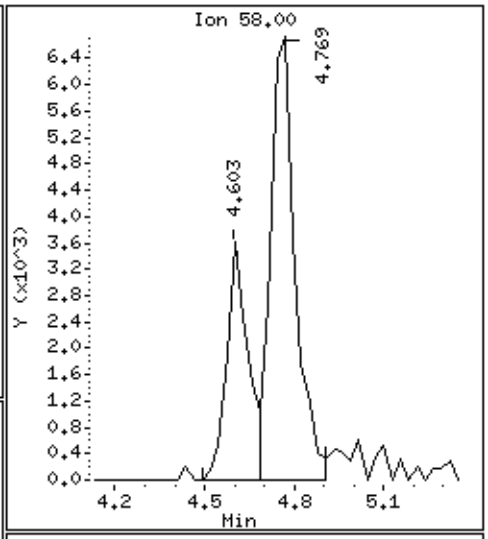
Column phase: RTx-624

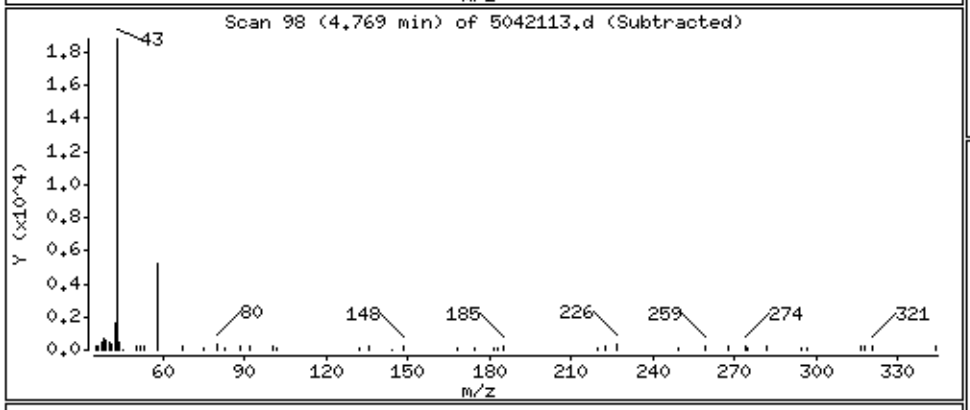
Column diameter: 0.53

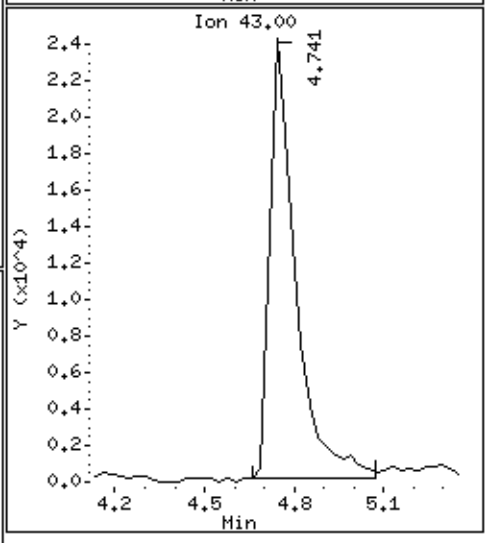
32 Acetone

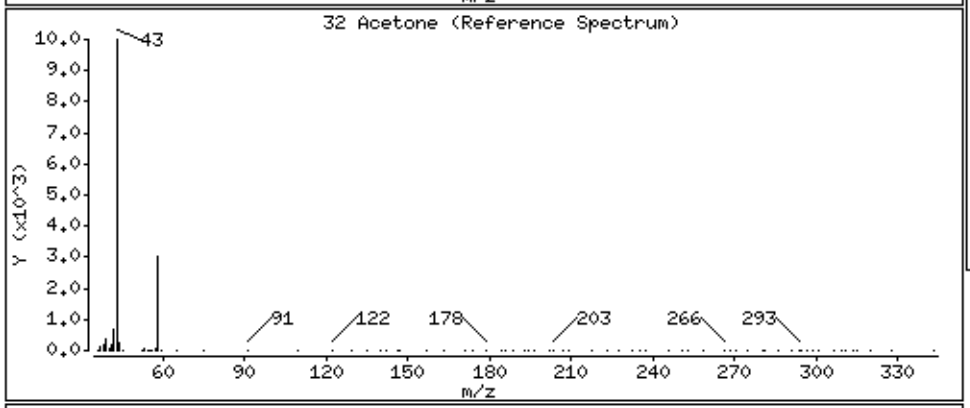
Concentration: 12.103 PPBV

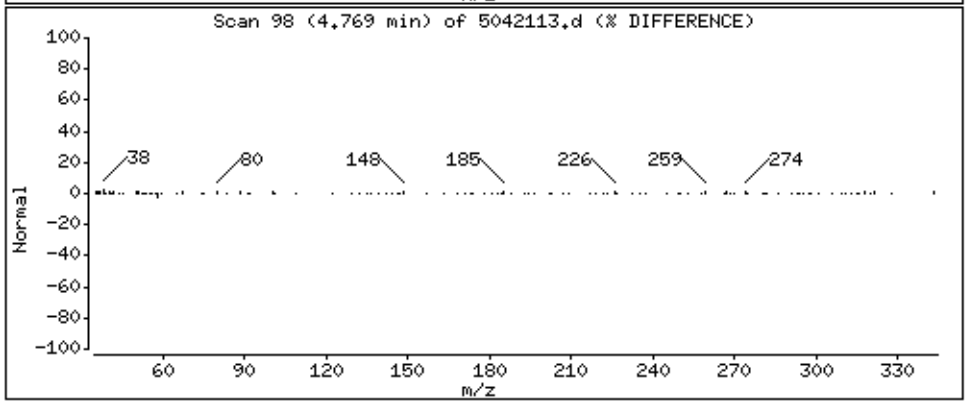












Data File: /chem/msd5.i/5-21apr.b/5042113.d

Date : 21-APR-2008 20:18

Client ID:

Instrument: msd5.i

Sample Info: 200mL #5655

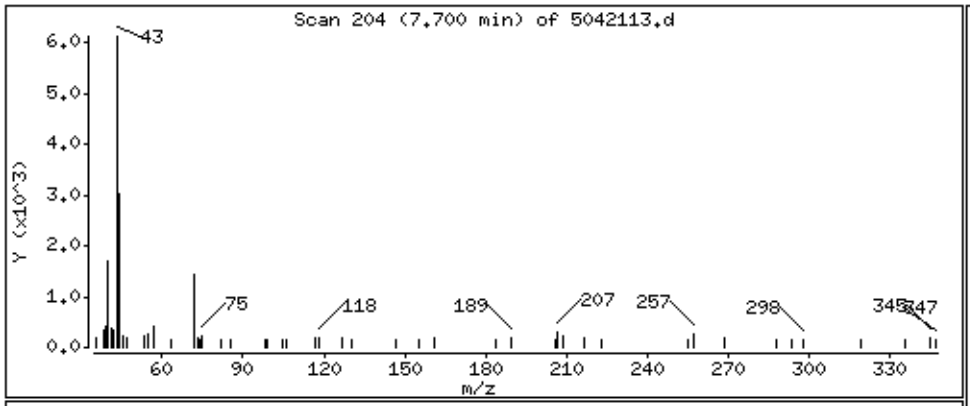
Operator: xp

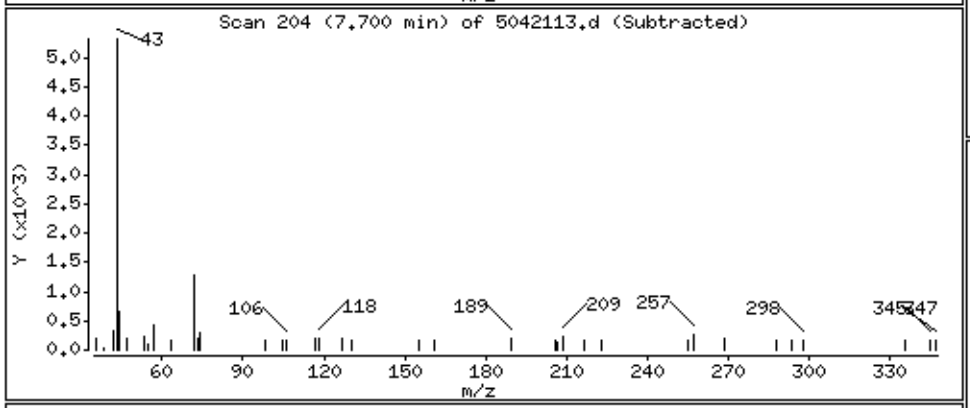
Column phase: RTx-624

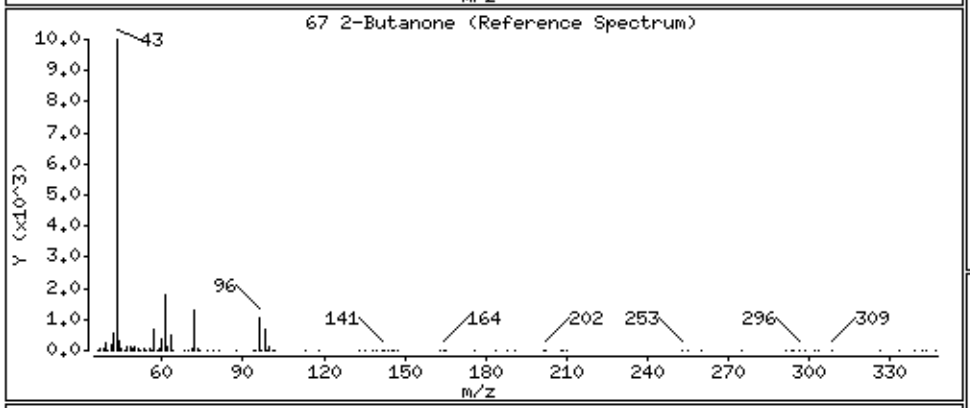
Column diameter: 0.53

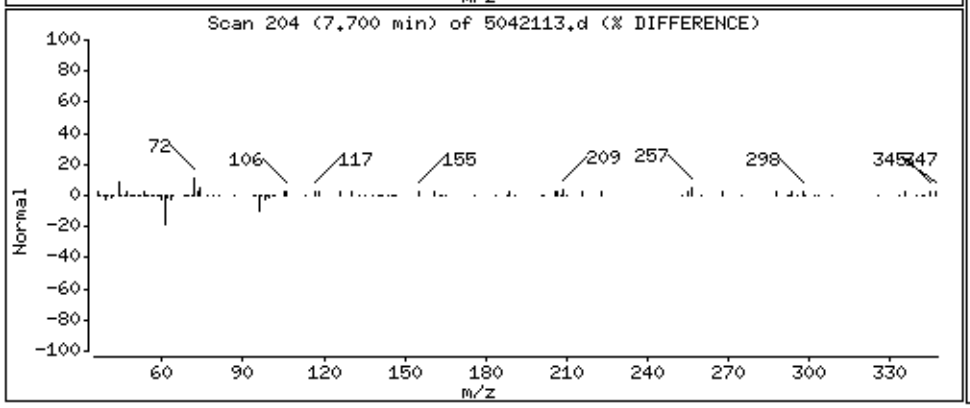
67 2-Butanone

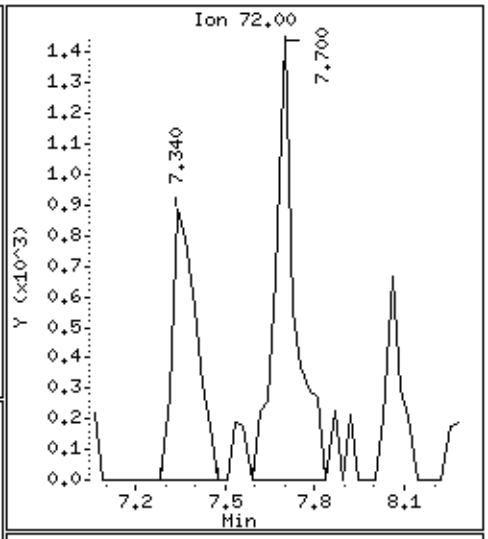
Concentration: 2.373 PPBV

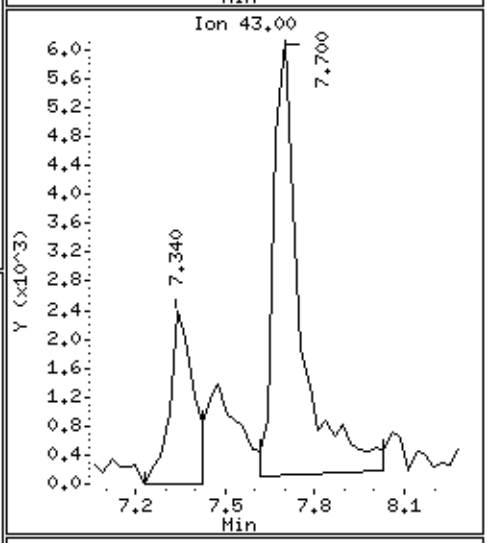


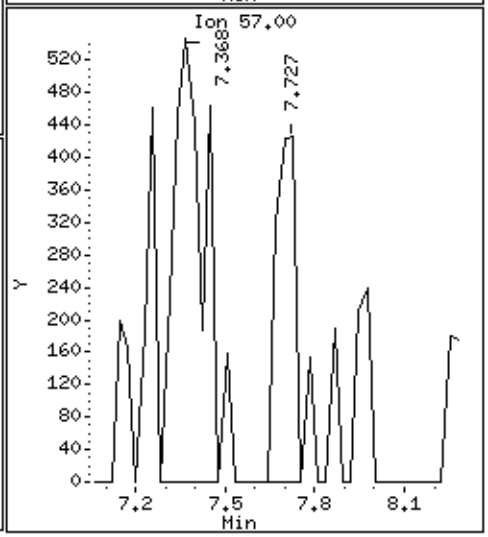












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: XX AMS X

Lab ID#: 0804255-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.78	1.9	2.9	7.3
Hexane	0.78	1.2	2.7	4.3

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X

Lab ID#: 0804255-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042114**	**Date of Collection: 4/9/08**	
Dil. Factor:	**1.55**	**Date of Analysis: 4/21/08 08:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Freon 114	0.78	Not Detected	5.4	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Bromomethane	0.78	Not Detected	3.0	Not Detected
Chloroethane	0.78	Not Detected	2.0	Not Detected
Freon 11	0.78	Not Detected	4.4	Not Detected
1,1-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Freon 113	0.78	Not Detected	5.9	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Chloroform	0.78	Not Detected	3.8	Not Detected
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Carbon Tetrachloride	0.78	Not Detected	4.9	Not Detected
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
1,2-Dichloropropane	0.78	Not Detected	3.6	Not Detected
cis-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
Toluene	0.78	1.9	2.9	7.3
trans-1,3-Dichloropropene	0.78	Not Detected	3.5	Not Detected
1,1,2-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	Not Detected
m,p-Xylene	0.78	Not Detected	3.4	Not Detected
o-Xylene	0.78	Not Detected	3.4	Not Detected
Styrene	0.78	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,2,4-Trimethylbenzene	0.78	Not Detected	3.8	Not Detected
1,3-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.78	Not Detected	4.0	Not Detected
1,2-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Hexane	0.78	1.2	2.7	4.3
Cyclohexane	0.78	Not Detected	2.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: XX AMS X

Lab ID#: 0804255-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042114**	**Date of Collection: 4/9/08**	
Dil. Factor:	**1.55**	**Date of Analysis: 4/21/08 08:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.78	Not Detected	3.2	Not Detected
Bromodichloromethane	0.78	Not Detected	5.2	Not Detected
Dibromochloromethane	0.78	Not Detected	6.6	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
Propylbenzene	0.78	Not Detected	3.8	Not Detected
Chloromethane	3.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	3.1	Not Detected	23	Not Detected
Hexachlorobutadiene	3.1	Not Detected	33	Not Detected
Acetone	3.1	Not Detected	7.4	Not Detected
Carbon Disulfide	0.78	Not Detected	2.4	Not Detected
2-Propanol	3.1	Not Detected	7.6	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.78	Not Detected	2.3	Not Detected
Tetrahydrofuran	0.78	Not Detected	2.3	Not Detected
1,4-Dioxane	3.1	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.78	Not Detected	3.2	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected
Bromoform	0.78	Not Detected	8.0	Not Detected
4-Ethyltoluene	0.78	Not Detected	3.8	Not Detected
Ethanol	3.1	Not Detected	5.8	Not Detected
Methyl tert-butyl ether	0.78	Not Detected	2.8	Not Detected
3-Chloropropene	3.1	Not Detected	9.7	Not Detected
2,2,4-Trimethylpentane	0.78	Not Detected	3.6	Not Detected
Naphthalene	3.1	Not Detected	16	Not Detected

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

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21apr.b/5042114.d
Lab Smp Id: 0804255-03A
Inj Date : 21-APR-2008 20:50
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #34362
Misc Info : 4.0"Hg -> 5psi
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1
Dil Factor: 1.55000
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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	153153	25.0000		80.00- 120.00	100.00
8.087	8.059 (1.000)	128	124241			46.23- 106.23	81.12
8.059	8.059 (1.000)	49	294010			170.58- 230.58	191.97
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	646699	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	97272			0.00- 45.33	15.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	724540	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	392353			0.00- 30.00	54.15
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	232950	28.4418	28.442	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	113863			28.07- 88.07	48.88
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	737080	27.2060	27.206	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	73367			0.00- 39.37	9.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	466004			40.62- 100.62	63.22
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	412862	23.7020	23.702	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	567446			111.11- 171.11	137.44
16.575	16.575 (1.105)	176	405892			64.95- 124.95	98.31
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.761)	57	15441	0.78121	1.211	80.00- 120.00	100.00
6.151	6.179 (0.761)	43	10395			0.00- 30.00	67.32
6.151	6.179 (0.761)	86	1509			0.00- 30.00	9.78
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	41776	1.25586	1.946	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	26402			27.96- 87.96	63.20

Report Date: 23-Apr-2008 10:53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042114.d
Lab Smp Id: 0804255-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 4.0"Hg -> 5psi

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	153153	-32.31
92 1,4-Difluorobenze	973329	583997	1362661	646699	-33.56
125 Chlorobenzene-d5	1070776	642466	1499086	724540	-32.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 10:53

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804255-03A
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 4.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	28.442	113.77	70-130
$ 107 Toluene-d8	25.000	27.206	108.82	70-130
$ 138 Bromofluorobenzene	25.000	23.702	94.81	70-130

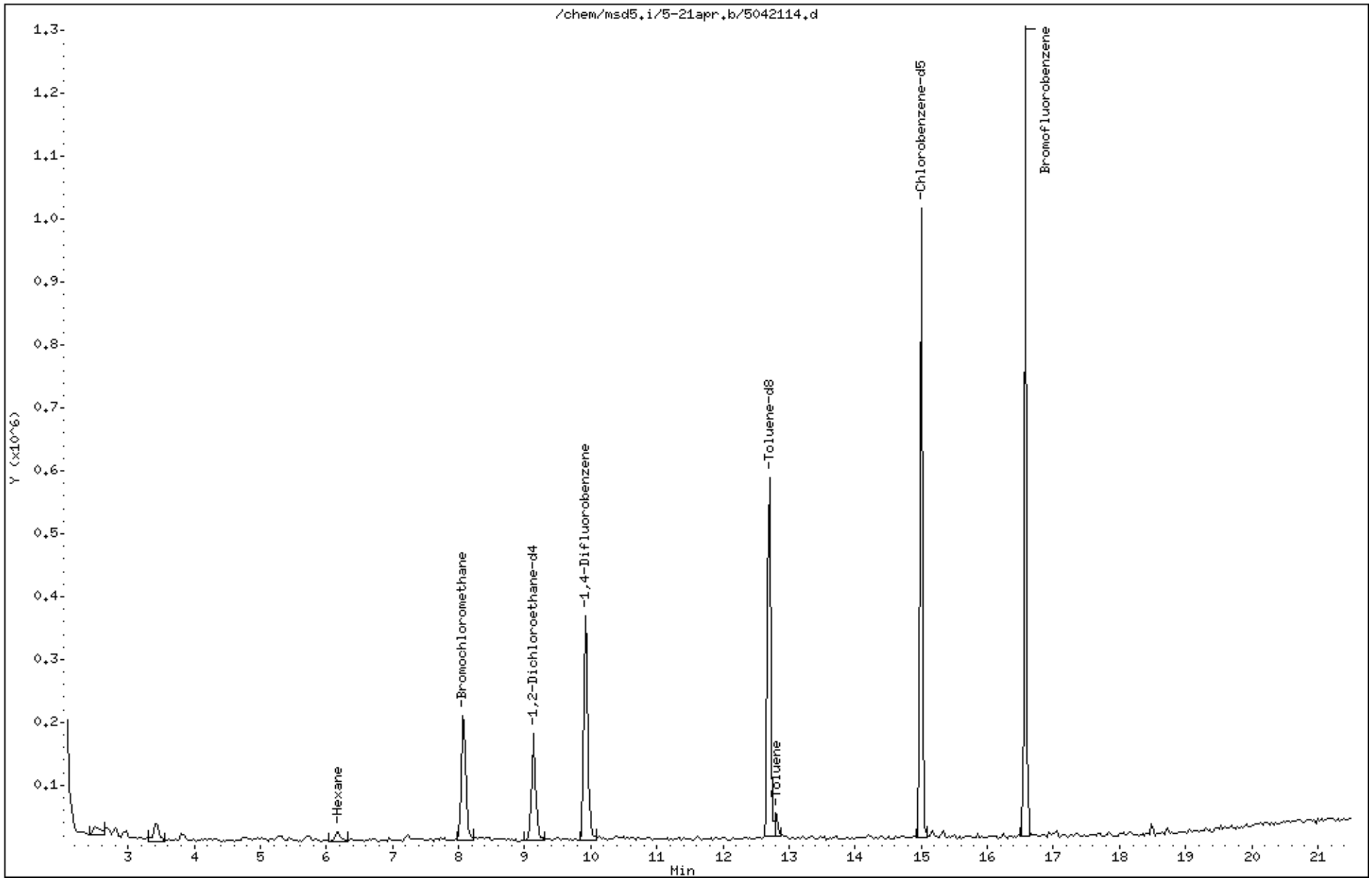
0041

Data File: /chem/msd5.i/5-21apr.b/5042114.d
Date : 21-APR-2008 20:50
Client ID:
Sample Info: 200mL #34362

Instrument: msd5.i

Operator: xp
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd5.i/5-21apr.b/5042114.d

Date : 21-APR-2008 20:50

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34362

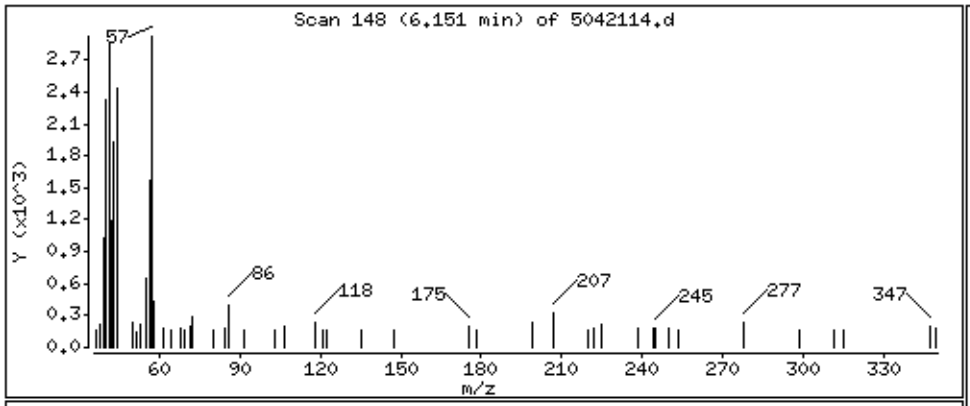
Operator: xp

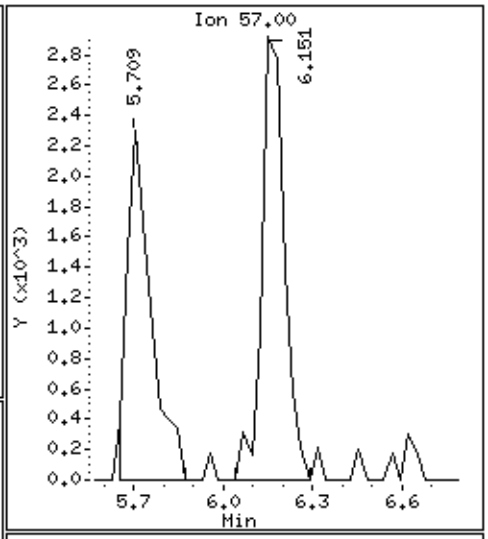
Column phase: RTx-624

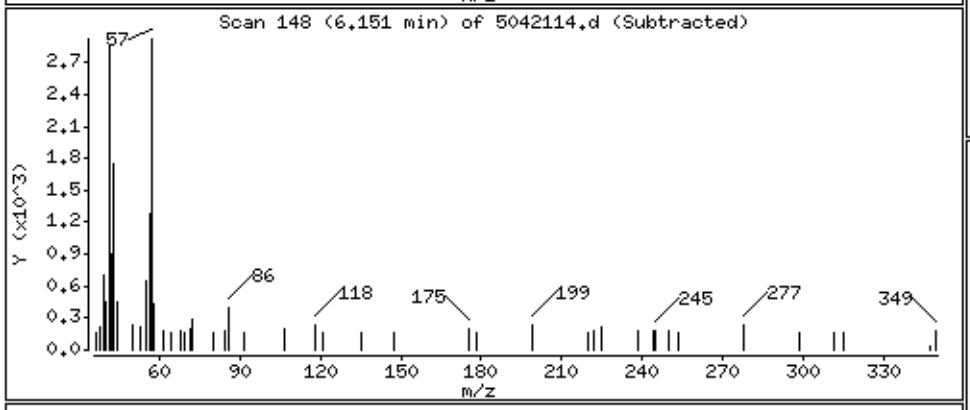
Column diameter: 0.53

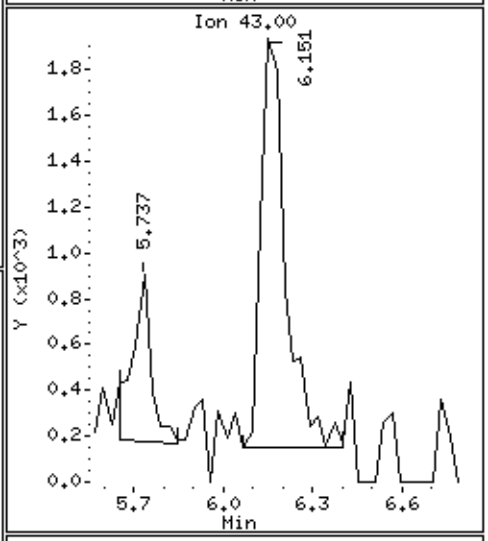
51 Hexane

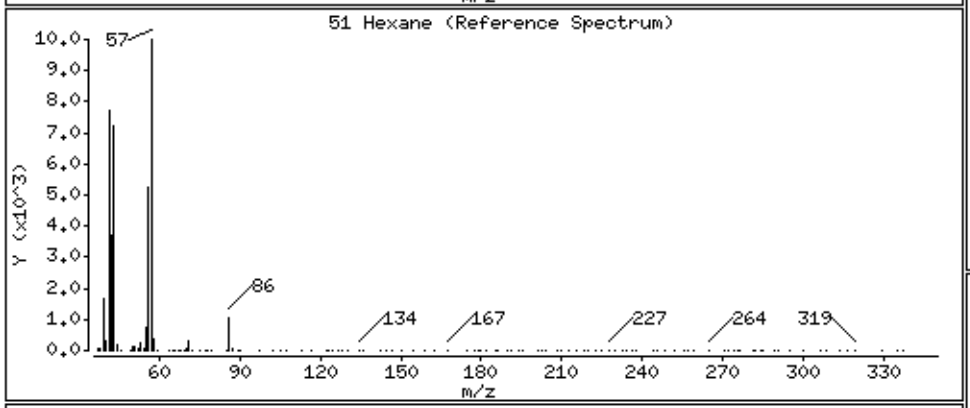
Concentration: 1.211 PPBV

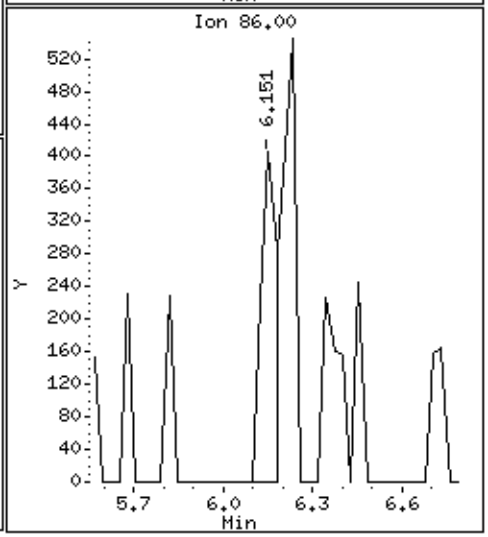


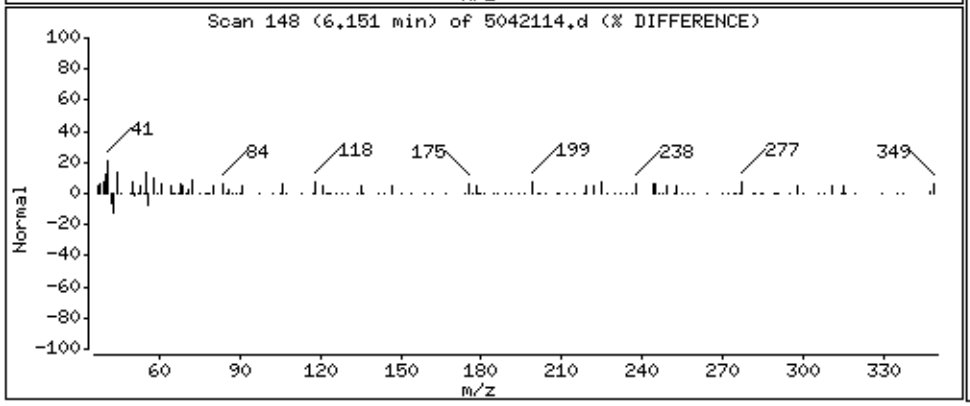












Data File: /chem/msd5.i/5-21apr.b/5042114.d

Date : 21-APR-2008 20:50

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34362

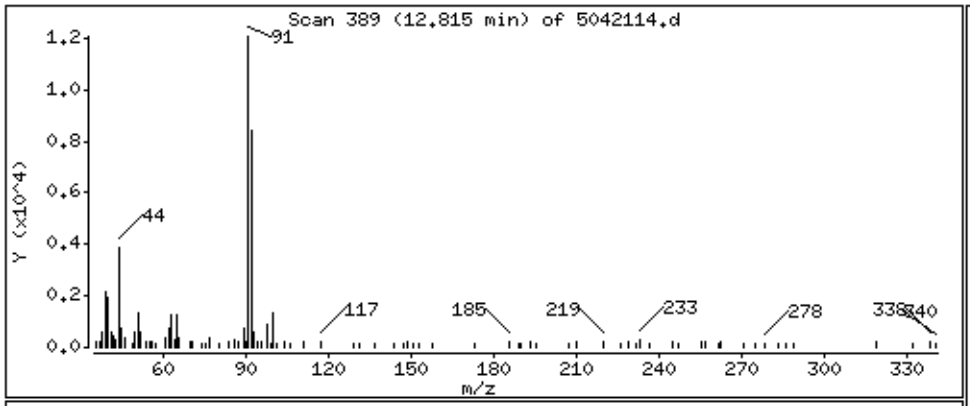
Operator: xp

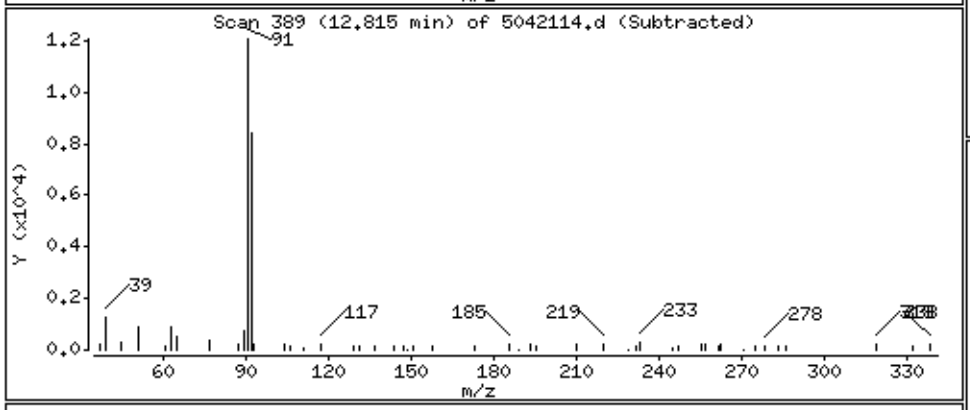
Column phase: RTx-624

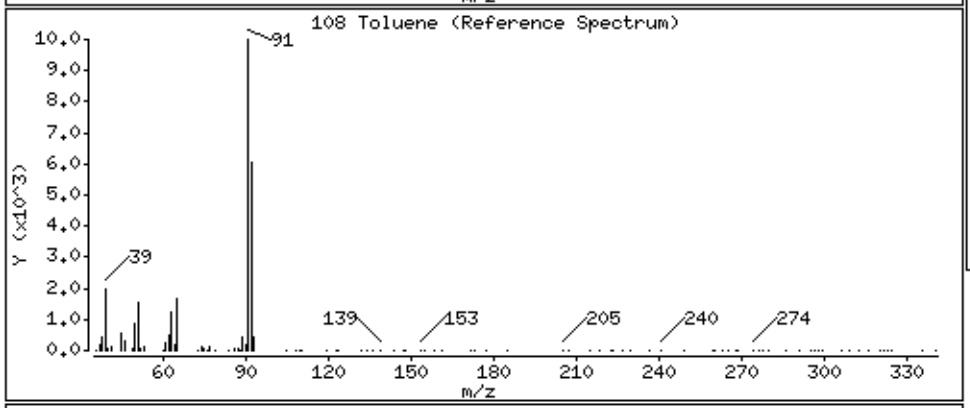
Column diameter: 0.53

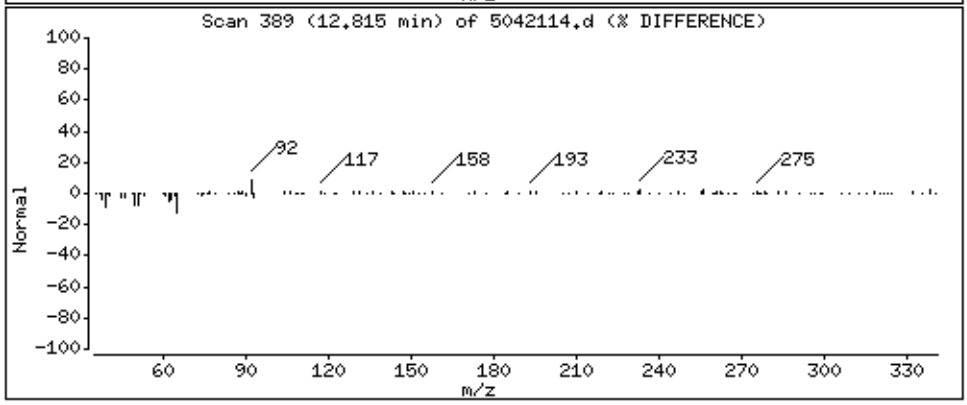
108 Toluene

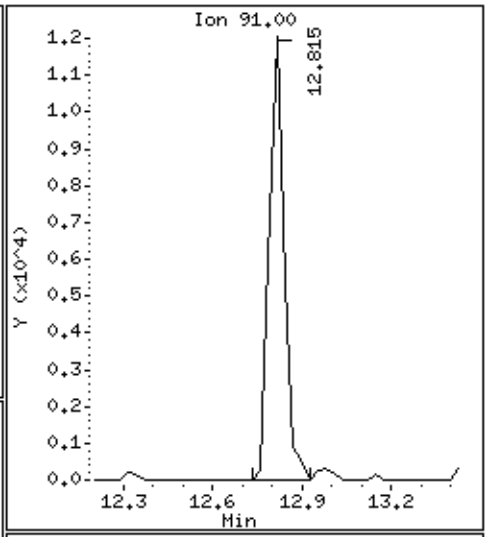
Concentration: 1.946 PPBV

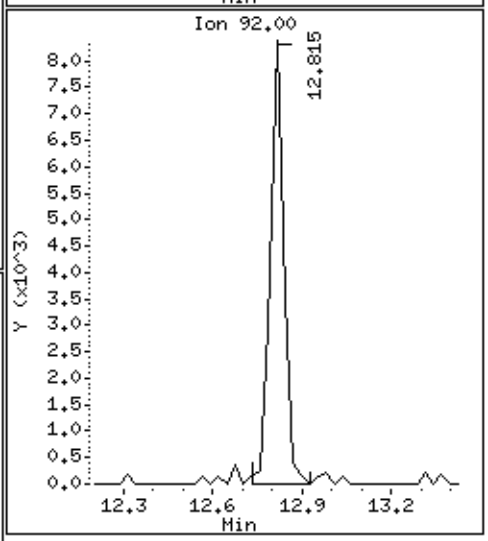












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: Trip Blank

Lab ID#: 0804255-04A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0804255-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042115**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 09:23 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
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#: 0804255-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042115**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 09:23 PM**	

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	107	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21apr.b/5042115.d
Lab Smp Id: 0804255-04A
Inj Date : 21-APR-2008 21:23
Operator : xp Inst ID: msd5.i
Smp Info : 200mL #4297
Misc Info : 4.6psi -> 4.6psi
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	160248	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	124947			46.23- 106.23	77.97
8.059	8.059 (1.000)	49	306214			170.58- 230.58	191.09
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	647958	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	96645			0.00- 45.33	14.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	732879	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	377945			0.00- 30.00	51.57
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	233917	27.2953	27.295	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	113394			28.07- 88.07	48.48
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	727169	26.7880	26.788	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	76629			0.00- 39.37	10.54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	464203			40.62- 100.62	63.84
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	411710	23.3670	23.367	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	584449			111.11- 171.11	141.96
16.575	16.575 (1.105)	176	389453			64.95- 124.95	94.59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042115.d
Lab Smp Id: 0804255-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: xp
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 4.6psi -> 4.6psi

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	160248	-29.17
92 1,4-Difluorobenze	973329	583997	1362661	647958	-33.43
125 Chlorobenzene-d5	1070776	642466	1499086	732879	-31.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 11:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804255-04A
Level: LOW Operator: xp
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 4.6psi -> 4.6psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	27.295	109.18	70-130
$ 107 Toluene-d8	25.000	26.788	107.15	70-130
$ 138 Bromofluorobenzene	25.000	23.367	93.47	70-130

Data File: /chem/msd5.i/5-21apr.b/5042115.d

Date : 21-APR-2008 21:23

Client ID:

Sample Info: 200mL #4297

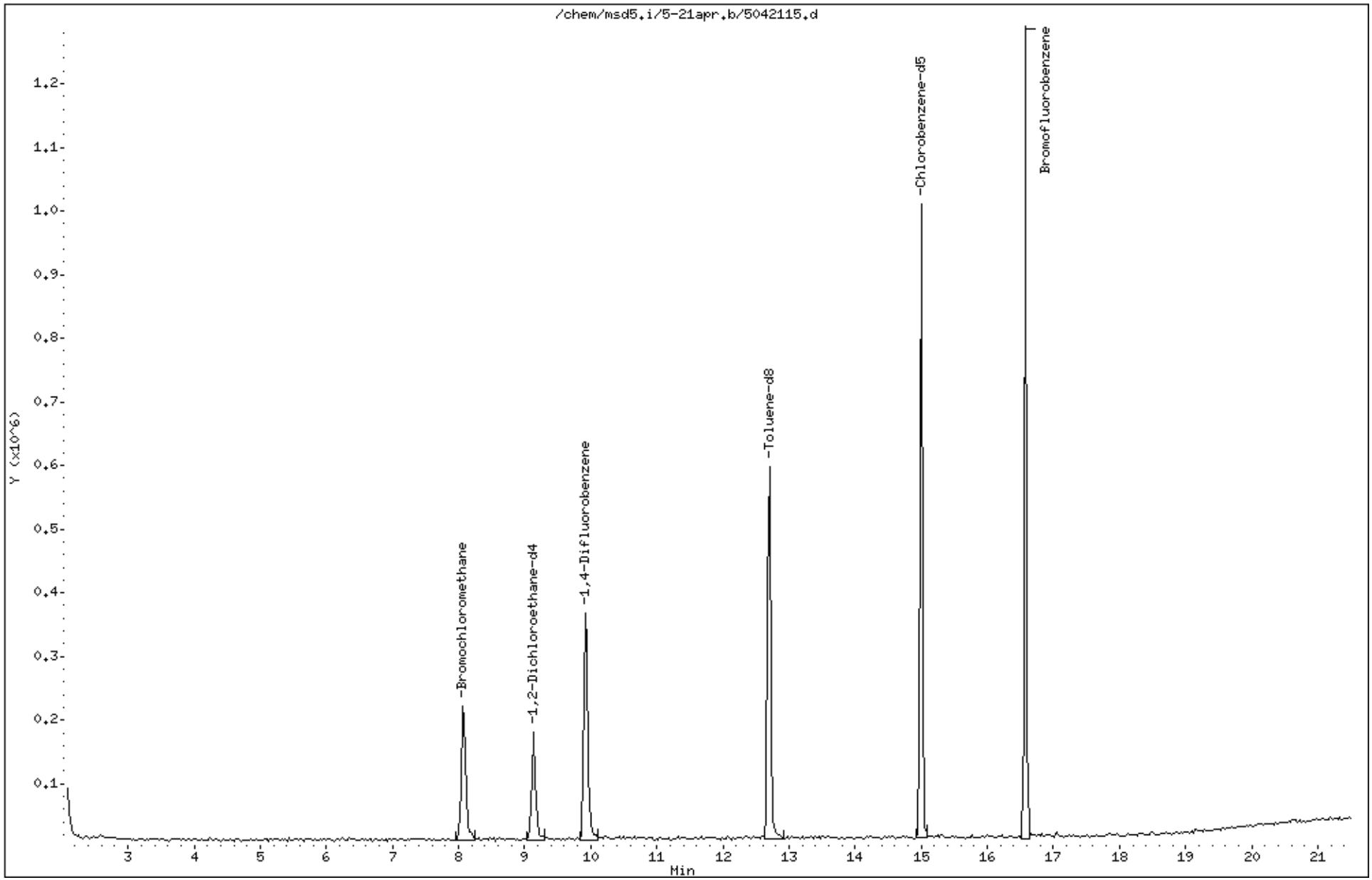
Column phase: RTx-624

Instrument: msd5.i

Operator: xp

Column diameter: 0.53

0051



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804255-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 12:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
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#: 0804255-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 12:02 PM**	

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	107	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-21apr.b/5042107.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 21-APR-2008 12:02
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Cart #15/ Leg #8
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	172683	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	132992			46.23- 106.23	77.01
8.059	8.059 (1.000)	49	343004			170.58- 230.58	198.63
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	738157	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	111874			0.00- 45.33	15.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	804397	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	442934			0.00- 30.00	55.06
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	256680	27.7947	27.795	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	126228			28.07- 88.07	49.18
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	830867	26.8680	26.868	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	88544			0.00- 39.37	10.66

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	536135			40.62- 100.62	64.53
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	477062	24.6688	24.669	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	661780			111.11- 171.11	138.72
16.575	16.575 (1.105)	176	447944			64.95- 124.95	93.90

Report Date: 21-Apr-2008 12:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042107.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: Cart #15/ Leg #8

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	172683	-23.68
92 1,4-Difluorobenze	973329	583997	1362661	738157	-24.16
125 Chlorobenzene-d5	1070776	642466	1499086	804397	-24.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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-Apr-2008 12:26

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: Cart #15/ Leg #8

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	27.795	111.18	70-130
$ 107 Toluene-d8	25.000	26.868	107.47	70-130
$ 138 Bromofluorobenzene	25.000	24.669	98.68	70-130

Data File: /var/chem/msd5.i/5-21apr.b/5042107.d

Date : 21-APR-2008 12:02

Client ID: Lab Blank

Sample Info: 200mL #12941

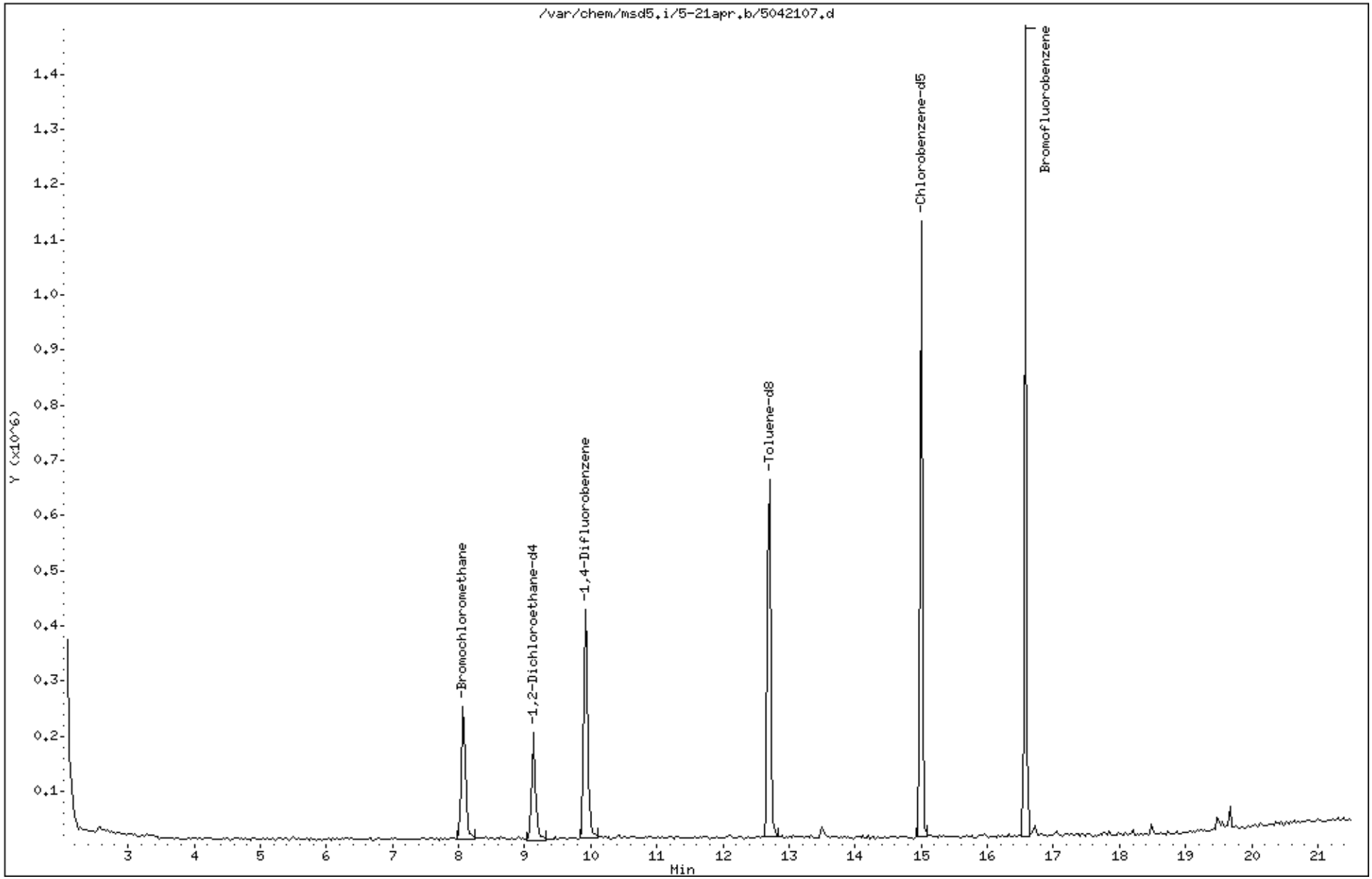
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0059



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0804255

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 1	107		106		98				0
02	UW AMS 1 Lab Duplicate	114		107		96				0
03	DW AMS 5	114		104		100				0
04	XX AMS X	114		109		95				0
05	Trip Blank	109		107		93				0
06	Lab Blank	111		107		99				0
07	CCV	119		110		101				0
08	LCS	116		111		99				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: 0804255

Lab File ID: 5042102.d | Date Analyzed: 04/21/2008

Instrument ID: msd5.i | Time Analyzed: 08:06 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1070776		15		973329		9.91		226259		8.06	
	UPPER LIMIT	1499086		15.33		1362661		10.24		316763		08.39	
	LOWER LIMIT	642466		14.67		583997		09.58		135755		07.73	
	CLIENT SAMPLE NO												
01	UW AMS 1	762217		15		704894		9.91		173225		8.06	
02	UW AMS 1 Lab Duplicate	743806		15		666600		9.91		157728		8.09	
03	DW AMS 5	732063		15		681775		9.91		159292		8.09	
04	XX AMS X	724540		15		646699		9.91		153153		8.09	
05	Trip Blank	732879		15		647958		9.91		160248		8.09	
06	Lab Blank	804397		15		738157		9.91		172683		8.09	
07	CCV	1070776		15		973329		9.91		226259		8.06	
08	LCS	889593		15		793476		9.91		183269		8.06	
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: 5042112.d & 5042111.d

Lab Sample ID: 01A & 01AA Dilution: 1.64 & 1.64

Client Sample ID: & Date Analyzed: 4/21/08 & 4/21/08

		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)	ND	U	ND	U	0
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	ND	U	ND	U	0
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	0.9439		ND	U	-->200<--

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: 5042112.d & 5042111.d

Lab Sample ID: 01A & 01AA

Dilution: 1.64 & 1.64

Client Sample ID: &

Date Analyzed: 4/21/08 & 4/21/08

		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	2.341		ND	U	-->200<--
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 : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-09apr.b/5040905.d
Level 2: /chem/msd5.i/5-09apr.b/5040913.d
Level 3: /chem/msd5.i/5-10apr.b/5041006.d
Level 4: /chem/msd5.i/5-09apr.b/5040908.d
Level 5: /chem/msd5.i/5-10apr.b/5041007.d
Level 6: /chem/msd5.i/5-09apr.b/5040910.d
Level 7: /chem/msd5.i/5-10apr.b/5041008.d

Compound	0.20000 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 Freon134a	+++++	+++++	0.94059	+++++	1.04280	+++++	0.94699	0.97679	5.861
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	0.71301	+++++	0.83714	+++++	0.74480	0.76498	8.429
4 Freon 22	+++++	+++++	0.26015	+++++	0.29058	+++++	0.27232	0.27435	5.584
5 Freon142b	+++++	+++++	2.06403	+++++	2.55804	+++++	2.44580	2.35596	10.992
6 Propylene	+++++	+++++	1.19011	1.70029	1.66059	1.55434	1.41570	1.50420	13.782
7 Isobutane	+++++	+++++	3.82922	+++++	3.92758	+++++	3.59740	3.78474	4.479

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.20149	2.02290	2.77128	2.57554	2.42292	2.48282	2.41282	11.069
9 Freon 114	+++++	1.87956	1.82787	2.52430	2.42251	2.28421	2.11165	2.17502	13.117
10 Chloromethane	+++++	+++++	1.70842	2.27167	2.14208	2.04109	1.87294	2.00724	11.044
11 Butane	+++++	+++++	0.47877	0.48627	0.44584	0.41960	0.38248	0.44259	9.698
12 1,3-Butadiene	+++++	1.98031	1.20310	1.82729	1.71353	1.62575	1.47539	1.63756	16.711
13 Vinyl Chloride	+++++	1.44662	1.35204	1.85893	1.76870	1.67533	1.53640	1.60634	12.135
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	0.49326	0.80755	1.03876	1.03712	1.01590	0.96542	0.89300	23.989
16 Dichlorofluoromethane/Fr21	+++++	+++++	1.64661	+++++	2.06170	+++++	1.92972	1.87934	11.285
17 Isopentane	+++++	+++++	2.25411	2.97854	2.92875	2.83149	2.57755	2.71409	11.054

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
18 Pentane	+++++	+++++	3.22649	+++++	3.99590	+++++		
	4.00235						3.74158	11.923
19 Chloroethane	+++++	0.49561	0.51899	0.96463	0.90021	0.84163		
	0.77746						0.74975	26.398
20 Trichlorofluoromethane/Fr11	+++++	2.35058	2.14963	3.22942	3.07060	2.93874		
	2.71066						2.74161	15.383
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	0.80448	+++++	1.01034	+++++		
	0.98431						0.93305	12.014
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	0.19754	+++++	0.19405	+++++		
	0.17090						0.18750	7.722
25 Acrolein	+++++	+++++	0.34766	+++++	0.51948	+++++		
	0.55187						0.47300	23.204
26 Ethanol	+++++	+++++	0.75926	0.85040	0.78602	0.69096		
	0.62767						0.74286	11.591
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Freon 113	+++++	1.49989	1.47270	2.09981	1.98340	1.92747		
	1.79650						1.79663	14.448
31 1,1-Dichloroethene	+++++	1.81604	1.86338	2.66386	2.58444	2.42116		
	2.25038						2.26654	15.890
32 Acetone	+++++	+++++	0.72072	0.92303	0.92081	0.88621		
	0.81557						0.85327	10.065
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Acetonitrile	+++++	+++++	1.10343	+++++	1.70747	+++++		
	0.88459						1.23183	34.599
35 Carbon Disulfide	+++++	3.24619	2.77210	4.26582	4.08998	3.94884		
	3.65832						3.66354	15.416
36 2-Propanol	+++++	+++++	2.84422	4.12126	4.03578	3.85248		
	3.52640						3.67603	14.090
37 tert-Butyl-Alcohol	+++++	+++++	2.22348	2.56164	2.32127	1.98179		
	1.44350						2.10634	20.171

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 3-Chloropropene	+++++	+++++	0.60943	0.75945	0.72487	0.70067	0.63160	0.68520	9.213
39 Acrylonitrile	+++++	+++++	1.36745	+++++	1.80509	+++++	1.81214	1.66156	15.331
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	1.85249	+++++	2.03237	+++++	1.95019	1.94502	4.630
43 Methylene Chloride	+++++	1.87828	1.81960	2.42392	2.28142	2.18384	2.01352	2.10010	11.271
44 Ethyl Ether	+++++	+++++	0.61668	+++++	0.77040	+++++	0.73966	0.70891	11.474
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	1.75079	1.33863	2.76400	2.72003	2.78532	2.54815	2.31782	26.685
47 trans-1,2-Dichloroethene	+++++	1.65967	1.23646	1.70378	1.63467	1.57541	1.45705	1.54451	11.224

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	5.41840	+++++	7.59641	+++++	7.16477	6.72652	17.145
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	3.29517	2.53026	3.71894	3.47263	3.31026	3.03136	3.22644	12.686
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	2.33731	+++++	3.38588	+++++	2.90903	2.87741	18.246
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.39913	2.13466	3.27879	3.09258	2.96802	2.73768	2.76848	15.698
56 Vinyl Acetate	+++++	+++++	0.29217	0.47404	0.44330	0.43597	0.40387	0.40987	17.168
57 Ethyl-tert-butyl Ether	+++++	+++++	2.56178	+++++	4.56483	+++++	4.15965	3.76209	28.151

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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 1-Hexene	+++++	+++++	1.39666	+++++	1.44911	+++++	1.46407	1.43661	2.464
59 1,3-Dichloropropane	+++++	+++++	0.51454	+++++	0.70070	+++++	0.63612	0.61712	15.317
60 2,2-Dichloropropane	+++++	+++++	1.57015	+++++	2.50203	+++++	2.44068	2.17095	24.008
61 Ethyl Acetate	+++++	+++++	0.22100	+++++	0.39734	+++++	0.38490	0.33441	29.428
62 Methyl Acrylate	+++++	+++++	2.38240	+++++	3.77090	+++++	3.70222	3.28518	23.822
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	0.40378	+++++	0.42280	+++++	0.41319	0.41326	2.302
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	2.13133	1.81583	2.52171	2.37121	2.29527	2.14264	2.21300	11.003
67 2-Butanone	+++++	0.54674	0.62064	0.87056	0.81847	0.80417	0.74765	0.73470	17.088

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
70 Tetrahydrofuran	+++++	3.97410	2.60771	3.06962	2.95587	2.85914		
	2.65560						3.02034	16.525
72 Chloroform	4.50377	2.27635	1.94005	2.99310	2.79942	2.69354		
	2.52521						2.81878	29.104
73 1,1-Dichloropropene	+++++	+++++	0.71779	+++++	0.93384	+++++		
	0.89733						0.84965	13.611
74 Cyclohexane	+++++	2.42373	1.86647	2.42492	2.32646	2.25213		
	2.07537						2.22818	9.861
75 1,1,1-Trichloroethane	+++++	1.91144	1.84594	2.99671	2.79223	2.69468		
	2.51628						2.45955	19.368
76 Isobutanol	+++++	+++++	0.36055	+++++	0.47840	+++++		
	0.48514						0.44136	15.875
77 Carbon Tetrachloride	+++++	2.10352	1.75047	2.65090	2.53007	2.51016		
	2.34874						2.31564	14.475
78 tert-amyl-Methyl Ether	+++++	+++++	2.93286	+++++	4.00429	+++++		
	3.44994						3.46236	15.476

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
80 2,2,4-Trimethylpentane	+++++	8.72039	8.13846	11.68863	11.18934	10.86967		
	9.82498						10.07191	14.128
81 Benzene	1.90377	0.89829	0.90069	1.24813	1.17828	1.14019		
	1.12365						1.19900	28.244
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.32563	0.32194	0.49431	0.47454	0.46301		
	0.44641						0.42097	18.264
86 2-Pentanone	+++++	+++++	1.16848	+++++	1.53661	+++++		
	1.56436						1.42315	15.528
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	0.86046	+++++	1.19491	+++++		
	1.18321						1.07953	17.582
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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
90 Heptane	+++++	0.11660	0.11609	0.15202	0.14518	0.14382	0.13451	0.13470	11.343
91 1-Butanol	+++++	+++++	0.37319	+++++	0.38459	+++++	0.39072	0.38283	2.323
93 Trichloroethene	+++++	0.37019	0.35547	0.50658	0.47477	0.46779	0.45835	0.43886	13.958
94 Methyl Cyclohexane	+++++	0.55337	0.58313	0.79687	0.74990	0.71980	0.70292	0.68433	14.010
95 Dibromomethane	+++++	+++++	0.28855	+++++	0.40193	+++++	0.41503	0.36851	18.874
96 Methyl Methacrylate	+++++	+++++	0.62162	+++++	0.83438	+++++	0.84223	0.76608	16.338
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.41855	0.35283	0.50447	0.47980	0.46437	0.45318	0.44553	12.038
99 1,4-Dioxane	+++++	+++++	0.23776	0.31846	0.30290	0.29758	0.28998	0.28934	10.597
100 Bromodichloromethane	+++++	0.50646	0.48345	0.69108	0.66738	0.65469	0.63941	0.60708	14.625

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.40900	0.40221	0.62624	0.58294	0.56647	0.55758	0.52407	18.085
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.33151	0.34919	0.49104	0.46464	0.45180	0.43646	0.42077	15.461
108 Toluene	+++++	1.08408	1.06028	1.47668	1.42364	1.35208	1.31891	1.28595	13.580
109 trans-1,4-dichloro-2-butene	+++++	+++++	0.10571	+++++	0.15800	+++++	0.16862	0.14411	23.367
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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 Alphamethylstyrene	+++++	+++++	0.67698	+++++	0.90880	+++++	0.90278	0.82952	15.929
113 trans-1,3-Dichloropropene	+++++	0.37550	0.36918	0.55318	0.53267	0.51796	0.51992	0.47807	17.336
114 1,1,2-Trichloroethane	+++++	0.46906	0.34056	0.48319	0.44403	0.43746	0.43141	0.43428	11.513
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Tetrachloroethene	+++++	0.37662	0.39923	0.58801	0.55684	0.54223	0.53621	0.49986	17.770
117 Bis(2-chloroethyl) ether	+++++	+++++	0.65761	+++++	0.81371	+++++	0.87465	0.78199	14.315
118 Butyl Acetate	+++++	+++++	0.47035	+++++	0.58598	+++++	0.55500	0.53711	11.144
119 2-Hexanone	+++++	+++++	0.50154	0.64548	0.62087	0.60758	0.59258	0.59361	9.268
120 Dibromochloromethane	+++++	0.42443	0.42234	0.64117	0.63227	0.62359	0.61934	0.56052	18.999
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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 1,2-Dibromoethane	+++++	0.48915	0.50617	0.74404	0.71519	0.68942	0.68363	0.63793	17.380
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.32628	+++++	0.45533	+++++	0.45224	0.41129	17.903
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.87617	0.80337	1.12691	1.05422	1.02901	1.00516	0.98247	12.220
127 Nonane	+++++	+++++	1.08439	+++++	1.41043	+++++	1.39184	1.29556	14.134
128 Ethyl Benzene	+++++	0.43430	0.45384	0.63839	0.60139	0.58001	0.57611	0.54734	15.204
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.57091	0.56817	0.80149	0.76385	0.74234	0.71654	0.69388	14.449
131 2-Heptanone	+++++	+++++	0.64030	+++++	0.79721	+++++	0.81414	0.75055	12.771
132 o-Xylene	+++++	0.52337	0.55896	0.73911	0.70401	0.67449	0.66256	0.64375	13.127

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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 Styrene	1.63816	0.79503	0.86112	1.21574	1.18224	1.12256	1.09914	1.13057	24.325
134 Bromoform	+++++	0.37357	0.38950	0.59471	0.59832	0.60601	0.60180	0.52732	21.448
135 Cyclohexanone	+++++	+++++	0.60344	+++++	0.63826	+++++	0.64604	0.62925	3.604
136 Cumene	2.57718	1.45242	1.51302	2.11006	2.01220	1.98400	1.76515	1.91629	20.084
137 Bromobenzene	+++++	+++++	0.42848	+++++	0.61119	+++++	0.60745	0.54904	19.020
139 1,2,3-Trichloropropane	+++++	+++++	0.21912	+++++	0.29887	+++++	0.29423	0.27074	16.535
140 2-Chlorotoluene	+++++	+++++	0.37848	+++++	0.49751	+++++	0.50561	0.46053	15.455
141 1,1,2,2-Tetrachloroethane	+++++	0.78871	0.79830	1.04166	0.99929	0.98266	0.94075	0.92523	11.573
142 Propylbenzene	+++++	1.61128	1.78428	2.43494	2.32697	2.30012	2.15890	2.10275	15.711
143 4-Chlorotoluene	+++++	+++++	0.39907	+++++	0.49176	+++++	0.49660	0.46247	11.885

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
144 4-Ethyltoluene	+++++	1.59411	1.55122	2.17328	2.12787	2.09094		
	1.96798						1.91757	14.397
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	1.65167	+++++	1.63809	+++++		
	1.61818						1.63598	1.030
147 1,3,5-Trimethylbenzene	2.14626	1.32083	1.41885	1.91174	1.85862	1.81691		
	1.60060						1.72483	16.923
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
149 tert-Butylbenzene	+++++	+++++	1.47328	+++++	1.89267	+++++		
	2.06825						1.81140	16.876
150 Pentachloroethane	+++++	+++++	0.25194	+++++	0.39179	+++++		
	0.42235						0.35536	25.569
151 sec-Butylbenzene	+++++	+++++	1.65898	+++++	2.43814	+++++		
	2.14696						2.08136	18.916
152 1,2,4-Trimethylbenzene	1.91610	1.20022	1.19328	1.62863	1.57453	1.54462		
	1.47760						1.50500	16.755
153 p-Cymene	+++++	+++++	0.38785	+++++	0.48058	+++++		
	0.51405						0.46083	14.187

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
154 1,2,3-Trimethylbenzene	+++++	+++++	0.55096	+++++	0.72167	+++++		
	0.75913						0.67725	16.385
155 1,3-Dichlorobenzene	+++++	0.87653	0.87038	1.06964	1.04116	1.01508		
	0.98421						0.97617	8.651
156 1,4-Dichlorobenzene	+++++	1.07800	0.89012	1.28773	1.27956	1.26558		
	1.20290						1.16732	13.427
157 alpha-Chlorotoluene	+++++	1.04199	1.20122	1.75101	1.79838	1.83608		
	1.44326						1.51199	22.260
158 Butylbenzene	+++++	+++++	0.32529	+++++	0.39820	+++++		
	0.41022						0.37790	12.162
159 1,2-Dichlorobenzene	+++++	0.91012	0.95191	1.07154	1.02985	1.00693		
	0.96910						0.98991	5.854
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.31507	+++++	0.41106	+++++		
	0.45196						0.39270	17.893
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.64463	0.63138	0.64316	0.67994		
	0.66990						0.65380	3.099

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : /chem/msd5.i/5-10apr.b/t14q409a.m
Cal Date : 10-Apr-2008 14:08 sscott
Curve Type : Average

Compound	0.20000 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							
164 Hexachlorobutadiene	+++++	+++++	0.43968	0.47710	0.45902	0.46841		
	0.46293						0.46143	3.017
165 Naphthalene	+++++	+++++	2.15317	1.99276	2.29115	2.34775		
	1.47818						2.05260	17.011
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
193 Cyclopentane	+++++	+++++	0.78692	+++++	0.93727	+++++		
	0.93043						0.88487	9.594
$ 84 1,2-Dichloroethane-d4	+++++	1.29735	1.27525	1.30404	1.35960	1.39579		
	1.38978						1.33697	3.846
$ 107 Toluene-d8	+++++	1.06981	1.02373	1.05021	1.04120	1.04705		
	1.05203						1.04734	1.436
$ 138 Bromofluorobenzene	+++++	0.57974	0.59595	0.60504	0.59750	0.61364		
	0.61432						0.60103	2.161

Calibration History

Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Start Cal Date: 09-APR-2008 11:52
End Cal Date : 10-APR-2008 12:52

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
09-APR-2008 11:52	AFCEElow	/chem/msd5.i/5-09apr.b/5040905.d
Cal Level: 2 , Cal Amount: 0.50000		
09-APR-2008 16:02	AT08Low	/chem/msd5.i/5-09apr.b/5040913.d
Cal Level: 3 , Cal Amount: 2.00000		
10-APR-2008 11:52	sp19a	/chem/msd5.i/5-10apr.b/5041006.d
10-APR-2008 08:53	sp35a	/chem/msd5.i/5-10apr.b/5041002.d
09-APR-2008 12:48	AT08mdl	/chem/msd5.i/5-09apr.b/5040907.d
Cal Level: 4 , Cal Amount: 25.00000		
09-APR-2008 13:15	AT08mdl	/chem/msd5.i/5-09apr.b/5040908.d
Cal Level: 5 , Cal Amount: 50.00000		
10-APR-2008 12:20	sp19a	/chem/msd5.i/5-10apr.b/5041007.d
10-APR-2008 09:21	sp35a	/chem/msd5.i/5-10apr.b/5041003.d
09-APR-2008 13:43	AT08mdl	/chem/msd5.i/5-09apr.b/5040909.d
Cal Level: 6 , Cal Amount: 100.00000		
09-APR-2008 14:11	AT08mdl	/chem/msd5.i/5-09apr.b/5040910.d
Cal Level: 7 , Cal Amount: 200.00000		
10-APR-2008 12:52	sp19a	/chem/msd5.i/5-10apr.b/5041008.d
10-APR-2008 09:53	sp35a	/chem/msd5.i/5-10apr.b/5041004.d
09-APR-2008 14:44	AT08mdl	/chem/msd5.i/5-09apr.b/5040911.d

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

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000			
10-APR-2008 12:20	sp19a	/chem/msd5.i/5-10apr.b/5041007.d
Ccal Level: 5 , Ccal Amount: 50.000			
10-APR-2008 12:20	sp19aCCV	/chem/msd5.i/5-10apr.b/5041007a.d
Ccal Level: 5 , Ccal Amount: 50.000			
10-APR-2008 09:21	sp35aCCV	/chem/msd5.i/5-10apr.b/5041003a.d
Ccal Level: 5 , Ccal Amount: 50.000			
10-APR-2008 09:21	sp35a	/chem/msd5.i/5-10apr.b/5041003.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	23.21
75	30.0 – 60.0% of mass 95	40.45
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.47
173	Less than 2.0% of mass 174	(0.67)[1]
174	Greater than 50.0% of mass 95	75.17
175	5.0 – 9.0% of mass 174	(7.21)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.63)[1]
177	5.0 – 9.0% of mass 176	(6.21)[2]

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

BFB Injection Date: ~~4/9/08~~ 4/9/08

BFB Injection Time: 0901e

BFB File ID: 5040902

Tekmar Purge Flow: 13.8 ml/min

Vacuum: 6.49 x10⁻⁶ Torr

IS/S Std.#:	1541-103	Exp. Date: 7/4/08
BCM	245525	
1,4-DFB	1111535	
CB-d5	1171590	

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

Verify 176/174 m/z Ratio: (1629096 / 1684012) x100 = 96.758

NOAH Cart #: N/A **File #:** N/A

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 333815\ )}{(\ 245525\ )} \times \frac{(\ 25\ )}{(\ 1.33697\ )} = 25.423$

Reported Result 25.423

File ID: 5040909
Compound: 1,2-DCA-d4
Initials: CT

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5040901	BFB Tune Check	1471-191	50psig	20ml	1.00	4/9/08	0849	SS	
2	✓	02	BFB Tune Check	1471-191	50psig	20ml	1.00		0901e	SS	
3	X	03	System Blank	13675	Humid	200ml	1.00		0936	SS	
4	✓	04	System Blank	13675	Humid	200ml	1.00		1031	SS	
5	✓	5040905	ICAL Level 1	1576-326	0.2ppbv	0.2ml	1.00		1152	SS	T14q409a
6	X	06	2		0.5ppbv	0.5ml			1220	SS	
7	✓	07	3		2.0ppbv	20ml			1248	SS	
8	✓	08	4		25ppbv	25ml			1315	SS	
9	✓	09	5		50ppbv	50ml			1343	SS	

Signature

4/9/08
Date

0083

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MSD-5

Logbook #: 1637

10	✓	50409 10	ICAL Level 6	1576-326	100ppbv	100ml	1.00	4/8/08	1419	GS	
11	✓	↓ 11	↓ ↓ 7	↓	200ppbv	200ml	1.00	↓	1444	GS	
12	✓	50409 12	System Blank	12341	Humid	200ml	1.00	↓	1534	CT	
13	✓	↓ 13	ICAL Level 2	1576-326	0.5ppbv	0.5ml	1.00	↓	1602	CT	
14	~~✓~~	~~50409 14~~	~~System Blank~~	~~12341~~	~~Humid~~	~~200ml~~	~~1.00~~	~~4/10/08~~			
15											
16											
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32											

GS 4/10/08

4800

Comments:

Signature

4/10/08
Date

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MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.42
75	30.0 – 60.0% of mass 95	40.69
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.58
173	Less than 2.0% of mass 174	(0.56)[1]
174	Greater than 50.0% of mass 95	71.84
175	5.0 – 9.0% of mass 174	(7.13)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.48)[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: 4/10/08
BFB Injection Time: 0821
BFB File ID: 5041001
Tekmar Purge Flow: 13.8 ml/min
Vacuum: 6.4 x 10⁻⁶ Torr

IS/S Std.#: 1541 - 103		Exp. Date: 7/4/08
BCM	225889	
1,4-DFB	1007938	
CB-d5	1095270	

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

Verify 176/174 m/z Ratio: (1782272 / 1828352) x100 = 97.479

NOAH Cart #: 11 **File #:** 8040819

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1080770)}{(1007938)} \times \frac{(25.000)}{(~~0.104794~~\ 1.04734)} = 25.5948$

Reported Result 25.595 ✓

File ID:	5041010
Compound:	Toluene-d8
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5041001	BFB Tune Check	1426-191	50 ng	2.0 µl	1.00	4/10/08	0821	SS	
2	✓	02	1576-341 200 ppbv	SpIcal	2.0 ppbv	2.0 ml	↓	↓	0853	SS	TH84092 ~~SO34e.b~~ SO35a.b
3	✓	03	↓	↓	50 ppbv	50 ml	↓	↓	0921	SS	↓
4	✓	↓ 04	↓	↓	200 ppbv	200 ml	↓	↓	0953	SS	SS 4/10/08 ↓
5	✓	5041005	System Blank	13673	Humid	200 ml	1.00	↓	1024	SS	
6	✓	06	1576-319 200 ppbv	Sp ICAL	2.0 ppbv	2.0 ml	↓	↓	1152	SS	AT specials - sp19a.b
7	✓	07	↓	↓	50 ppbv	50 ml	↓	↓	1222	SS	↓
8	✓	08	↓	↓	200 ppbv	200 ml	↓	↓	1252	SS	↓
9	✓	↓ 09	System Blank	13673	Humid	200 ml	1.00	↓	1351	SS	

Signature: [signature]   Date: 4/10/08

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MSD-5

Logbook #: 1637

9006

10	✓	5041010	1576-326 200ppbv	CCV-1	50ppbv	50mL	1.00	4/10/08	1419	SMS	
11	✓	11	1576-335 200ppbv	LCS-1	50ppbv	50mL	1.00	↓	1446	SMS	ICAL LCS
12	X	12	Lab Blank	~~12941~~ 12941 ~~4/11/08~~ 4/10/08	Humid	200mL	1.00	↓	1534	SMS	
13	✓	5041013	Lab Blank	12941	Humid	200mL	1.00	4/10/08	1627	KR	
14	✓	14	0804168A - 01A	918	5.0"Hg - 5psi	200mL	1.61		1720	KR	
15	✓	15	-02A	35151	3.5"Hg		1.52		1752	KR	
16	✓	16	-03A	33575	7.0"Hg		1.75		1825	KR	
17	✓	17	-04A	31147	7.0"Hg		1.75		1857	KR	
18	✓	18	-05A	35987	2.5"Hg	↓	1.46		1930	KR	
19	✓	19	0804057A - 01A	13850	9.0"Hg	100mL	3.82		1958	KR	Diluted for matrix
20	✓	20	0804030 - 02A	5605	0.2psi	40mL	6.60		2026	KR	Diluted for NT
21	✓	21	↓ -01A	4233	9.0"Hg	13.5mL	23.0	↓	2053	KR	Diluted for NT
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											4-11-08 CT

Comments: Flow Controller SN# AA920318 Actual; 25.0 mL/min

NIST Flowmeter SN# 2200-77214 Nominal; 22.16 mL/min @ 4/10/08

Signature

4/10/08
Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 4/09/2008. As noted on the accompanying analytical run log, the following point, ICAL Level 2, was re-analyzed due to:

a. unacceptable peak resolution and/or integration of Chloroethane and MtBE

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene, Styrene, 1,2,4-Trimethylbenzene and 1,3,5-Trimethylbenzene.

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15

Internal Standard and Associated Target Compounds and Surrogates

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041011.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 10-APR-2008 14:46
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-335
Misc Info : 200ppbv (50ppbv)
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 10-Apr-2008 14:51 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS			
				ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	220185	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	173114			45.23- 105.23	78.62
8.059	8.059 (1.000)	49	458262			169.46- 229.46	208.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	998910	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	152261			0.00- 44.71	15.24
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1083826	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	552578			0.00- 30.00	50.98
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	307059	26.0767	26.077	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	190761			28.07- 88.07	62.13
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1087309	25.9824	25.982	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	100082			0.00- 39.37	9.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	768083			40.62- 100.62	70.64
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	648083	24.8722	24.872	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	911756			106.95- 166.95	140.69
16.575	16.575 (1.105)	176	616497			69.03- 129.03	95.13
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	742835	56.0709	56.071	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	514888			0.00- 30.00	69.31
2.253	2.253 (0.280)	39	557323			0.00- 30.00	75.03
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.336 (0.286)	85	1177366	55.4036	55.404	80.00- 120.00	100.00
2.308	2.336 (0.286)	87	373944			0.00- 30.00	31.76
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1083205	56.5457	56.546	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	349435			2.69- 62.69	32.26
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	921035	52.0990	52.099	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	265370			0.00- 30.00	28.81
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.778 (0.341)	62	743485	52.5518	52.552	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	222295			0.00- 30.00	29.90
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	708500	49.1241	49.124	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	930526			0.00- 30.00	131.34
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	434730	55.2739	55.274	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	409613			65.23- 125.23	94.22
19 Chloroethane					CAS #: 75-00-3		
3.386	3.414 (0.420)	64	362469	54.8913	54.891	80.00- 120.00	100.00
3.386	3.414 (0.420)	49	131508			0.00- 30.00	36.28
3.386	3.414 (0.420)	66	112583			0.00- 30.00	31.06
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1366934	56.6102	56.610	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	882789			34.12- 94.12	64.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.078 (0.506)	45	352013	53.8026	53.803	80.00- 120.00	100.00
4.077	4.078 (0.506)	43	68886			0.00- 30.00	19.57
4.077	4.078 (0.506)	46	142529			0.00- 30.00	40.49
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1008075	63.7070	63.707	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	629878			32.02- 92.02	62.48
4.520	4.520 (0.561)	101	1250005			95.42- 155.42	124.00
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1266517	63.4453	63.445	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	669212			20.93- 80.93	52.84
4.575	4.575 (0.568)	98	423037			4.15- 64.15	33.40
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	408529	54.3613	54.361	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1530552			0.00- 30.00	374.65
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	1793279	55.3887	55.389	80.00- 120.00	100.00
4.907	4.935 (0.609)	43	433584			0.00- 30.00	24.18
4.935	4.935 (0.612)	59	54720			0.00- 30.00	3.05
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1771549	54.9041	54.904	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	327918	54.3373	54.337	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1381631			0.00- 30.00	421.33
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1110168	60.0207	60.021	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	573071			22.02- 82.02	51.62
5.432	5.460 (0.674)	51	333619			0.00- 30.00	30.05
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1296143	63.4930	63.493	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	388143			0.10- 60.10	29.95
5.764	5.764 (0.715)	41	466098			0.00- 30.00	35.96
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	725286	53.3178	53.318	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1167496			133.03- 193.03	160.97
5.819	5.819 (0.722)	98	456326			0.00- 30.00	62.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1537596	54.1092	54.109	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1170672			0.00- 30.00	76.14
6.151	6.179 (0.763)	86	216404			0.00- 30.00	14.07
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.677 (0.825)	86	191113	52.9415	52.942	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	2916611			0.00- 30.00	1526.12
6.649	6.649 (0.825)	42	232704			0.00- 30.00	121.76
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1460673	59.9052	59.905	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	434040			0.00- 59.37	29.72
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	361837	55.9182	55.918	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	2271914			573.84- 633.84	627.88
7.644	7.672 (0.949)	57	151644			0.00- 30.00	41.91
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1139922	58.4852	58.485	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	769457			37.43- 97.43	67.50
7.617	7.617 (0.945)	98	503330			13.12- 73.12	44.15
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1357365	51.0261	51.026	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	342128			0.00- 54.34	25.21
8.031	8.059 (0.997)	72	370220			0.00- 30.00	27.27
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1377590	55.4896	55.490	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	880112			34.20- 94.20	63.89
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1385368	63.9532	63.953	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	894746			34.34- 94.34	64.59
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1057595	53.8916	53.892	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1693855			131.39- 191.39	160.16
8.418	8.418 (1.045)	41	1045137			68.82- 128.82	98.82
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1241242	60.8607	60.861	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1284065			74.06- 134.06	103.45

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		
9.082	9.082 (1.127)	57	5157406	58.1395	58.140	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	1698739			0.00- 30.00	32.94
9.082	9.082 (1.127)	41	1511991			0.00- 30.00	29.32
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2461801	51.3863	51.386	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	585317			0.00- 30.00	23.78
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1093722	65.0229	65.023	80.00- 120.00	100.00(R)
9.276	9.276 (0.936)	64	337664			0.00- 30.00	30.87
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	313994	58.3382	58.338	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2316641			0.00- 30.00	737.80
9.469	9.497 (0.955)	71	896513			0.00- 30.00	285.52
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1044872	59.5872	59.587	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1056624			70.12- 130.12	101.12
10.326	10.326 (1.042)	97	673150			32.96- 92.96	64.42
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1017345	57.1480	57.148	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	730392			39.37- 99.37	71.79
10.824	10.852 (1.092)	41	711824			39.85- 99.85	69.97
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	641447	55.4844	55.484	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	536027			55.04- 115.04	83.57
11.073	11.073 (1.117)	57	168260			0.00- 30.00	26.23
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1495292	61.6447	61.645	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	969320			34.60- 94.60	64.82
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1270392	60.6680	60.668	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	417012			1.98- 61.98	32.83
12.317	12.317 (1.243)	39	918070			39.33- 99.33	72.27
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1022957	60.8445	60.844	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2908225			0.00- 30.00	284.30
12.594	12.594 (1.271)	85	363617			0.00- 30.00	35.55

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3257038	63.3890	63.389	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1902356			28.82- 88.82	58.41
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1241666	59.9096	59.910	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	390959			2.41- 62.41	31.49
13.368	13.368 (0.891)	39	883014			40.25- 100.25	71.12
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1052066	55.8791	55.879	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	672318			31.86- 91.86	63.90
13.644	13.644 (0.910)	83	889219			54.18- 114.18	84.52
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1301910	60.0783	60.078	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	994415			46.10- 106.10	76.38
13.700	13.700 (0.913)	131	955915			42.23- 102.23	73.42
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1397191	54.2918	54.292	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2850475			171.37- 231.37	204.01
14.031	14.031 (0.935)	100	251378			0.00- 30.00	17.99
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1487792	61.2249	61.225	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1157627			0.00- 30.00	77.81
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1589813	57.4845	57.484	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1499629			63.67- 123.67	94.33
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2430219	57.0564	57.056	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	786681			1.98- 61.98	32.37
15.027	15.027 (1.002)	77	1445601			28.38- 88.38	59.48
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1381293	58.2118	58.212	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4151577			0.00- 30.00	300.56
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1724029	57.3112	57.311	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3288547			0.00- 30.00	190.75
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1616609	57.9254	57.925	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)							
15.856	15.856 (1.057)	91	3274058			171.11- 231.11	202.53
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2587991	52.8014	52.801	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1168855			14.88- 74.88	45.16
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1440115	62.9945	62.994	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	741948			22.48- 82.48	51.52
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2341346	58.3709	58.371	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1494549			34.84- 94.84	63.83
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4940441	59.4287	59.429	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1487926			0.34- 60.34	30.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4294384	57.4295	57.430	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2122427			0.00- 30.00	49.42
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3485389	53.4190	53.419	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1722562			18.39- 78.39	49.42
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2303851	54.4391	54.439	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1472820			0.00- 30.00	63.93
17.764	17.764 (1.184)	111	881511			0.00- 30.00	38.26
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2865450	56.6220	56.622	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1794522			0.00- 30.00	62.63
17.847	17.847 (1.190)	111	1100063			0.00- 30.00	38.39
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3957579	60.3755	60.375	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	857545			0.00- 30.00	21.67
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2225599	51.8599	51.860	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1424117			33.70- 93.70	63.99
18.206	18.206 (1.214)	111	847788			8.67- 68.67	38.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1364016	48.1231	48.123	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1294726			65.21- 125.21	94.92
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	937489	46.8645	46.864	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	580295			33.49- 93.49	61.90
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5500673	60.3405	60.340	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1324524			0.00- 30.00	24.08
16.824	16.824 (1.122)	105	204023			0.00- 30.00	3.71
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4837434	58.2283	58.228	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1336042			0.00- 30.00	27.62
16.326	16.326 (1.088)	51	564871			0.00- 30.00	11.68
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4880870	54.8496	54.850	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	609237			0.00- 30.00	12.48
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	1023980	55.1971	55.197	80.00- 120.00	100.00
5.571	5.571 (0.691)	41	281443			0.00- 30.00	27.49
5.571	5.571 (0.691)	57	104337			0.00- 30.00	10.19
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	187923	48.2091	48.209	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	1618417			0.00- 30.00	861.21
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1214462	50.8057	50.806	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	698447			0.00- 30.00	57.51
3.414	3.414 (0.424)	72	64773			0.00- 30.00	5.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.547 (1.067)	83	1574288	57.5745	57.574	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	783114			0.00- 30.00	49.74
10.547	10.547 (1.064)	55	1657416			0.00- 30.00	105.28

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041011.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv (50ppbv)

Calibration Date: 10-APR-2008
Calibration Time: 14:19
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	225889	135533	316245	220185	-2.53
92 1,4-Difluorobenze	1007938	604763	1411113	998910	-0.90
125 Chlorobenzene-d5	1095270	657162	1533378	1083826	-1.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Report Date: 10-Apr-2008 14:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-10apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv (50ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	55.404	110.81	70-130
9 Freon 114	50.000	56.546	113.09	70-130
10 Chloromethane	50.000	52.099	104.20	70-130
13 Vinyl Chloride	50.000	52.552	105.10	70-130
12 1,3-Butadiene	50.000	49.124	98.25	60-140
15 Bromomethane	50.000	55.274	110.55	70-130
19 Chloroethane	50.000	54.891	109.78	70-130
20 Trichlorofluoromet	50.000	56.610	113.22	70-130
26 Ethanol	50.000	53.803	107.61	60-140
30 Freon 113	50.000	63.707	127.41	70-130
31 1,1-Dichloroethene	50.000	63.445	126.89	70-130
35 Carbon Disulfide	50.000	54.904	109.81	60-140
32 Acetone	50.000	54.361	108.72	60-140
36 2-Propanol	50.000	55.389	110.78	60-140
38 3-Chloropropene	50.000	54.337	108.67	60-140
43 Methylene Chloride	50.000	60.021	120.04	70-130
46 MTBE	50.000	63.493	126.99	60-140
47 trans-1,2-Dichloro	50.000	53.318	106.64	60-140
51 Hexane	50.000	54.109	108.22	60-140
55 1,1-Dichloroethane	50.000	59.905	119.81	70-130
66 cis-1,2-Dichloroet	50.000	58.485	116.97	70-130
67 2-Butanone	50.000	55.918	111.84	60-140
70 Tetrahydrofuran	50.000	51.026	102.05	60-140
72 Chloroform	50.000	55.490	110.98	70-130
74 Cyclohexane	50.000	53.892	107.78	60-140
75 1,1,1-Trichloroeth	50.000	63.953	127.91	70-130
56 Vinyl Acetate	50.000	52.942	105.88	60-140
77 Carbon Tetrachlori	50.000	60.861	121.72	70-130
80 2,2,4-Trimethylpen	50.000	58.140	116.28	60-140
81 Benzene	50.000	51.386	102.77	70-130
85 1,2-Dichloroethane	50.000	65.023	130.05*	70-130
90 Heptane	50.000	58.338	116.68	60-140
93 Trichloroethene	50.000	59.587	119.17	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	57.148	114.30	70-130
99 1,4-Dioxane	50.000	55.484	110.97	60-140
100 Bromodichlorometha	50.000	61.645	123.29	60-140
103 cis-1,3-Dichloropr	50.000	60.668	121.34	70-130
106 4-Methyl-2-pentano	50.000	60.844	121.69	60-140
108 Toluene	50.000	63.389	126.78	70-130
113 trans-1,3-Dichloro	50.000	59.910	119.82	70-130
114 1,1,2-Trichloroeth	50.000	55.879	111.76	70-130
116 Tetrachloroethene	50.000	60.078	120.16	70-130
119 2-Hexanone	50.000	54.292	108.58	60-140
120 Dibromochlorometha	50.000	61.225	122.45	60-140
122 1,2-Dibromoethane	50.000	57.484	114.97	70-130
126 Chlorobenzene	50.000	57.056	114.11	70-130
128 Ethyl Benzene	50.000	58.212	116.42	70-130
130 m,p-Xylene	50.000	57.311	114.62	70-130
132 o-Xylene	50.000	57.925	115.85	70-130
133 Styrene	50.000	52.801	105.60	70-130
134 Bromoform	50.000	62.994	125.99	60-140
136 Cumene	50.000	58.228	116.46	60-140
141 1,1,2,2-Tetrachlor	50.000	58.371	116.74	70-130
142 Propylbenzene	50.000	60.340	120.68	60-140
144 4-Ethyltoluene	50.000	59.429	118.86	60-140
147 1,3,5-Trimethylben	50.000	57.430	114.86	70-130
152 1,2,4-Trimethylben	50.000	53.419	106.84	70-130
155 1,3-Dichlorobenzen	50.000	54.439	108.88	70-130
156 1,4-Dichlorobenzen	50.000	56.622	113.24	70-130
157 alpha-Chlorotoluen	50.000	60.375	120.75	70-130
159 1,2-Dichlorobenzen	50.000	51.860	103.72	70-130
163 1,2,4-Trichloroben	50.000	48.123	96.25	70-130
164 Hexachlorobutadien	50.000	46.864	93.73	70-130
6 Propylene	50.000	56.071	112.14	70-130
165 Naphthalene	50.000	54.850	109.70	60-140
11 Butane	50.000	48.209	96.42	70-130
17 Isopentane	50.000	50.806	101.61	70-130
94 Methyl Cyclohexane	50.000	57.574	115.15	70-130

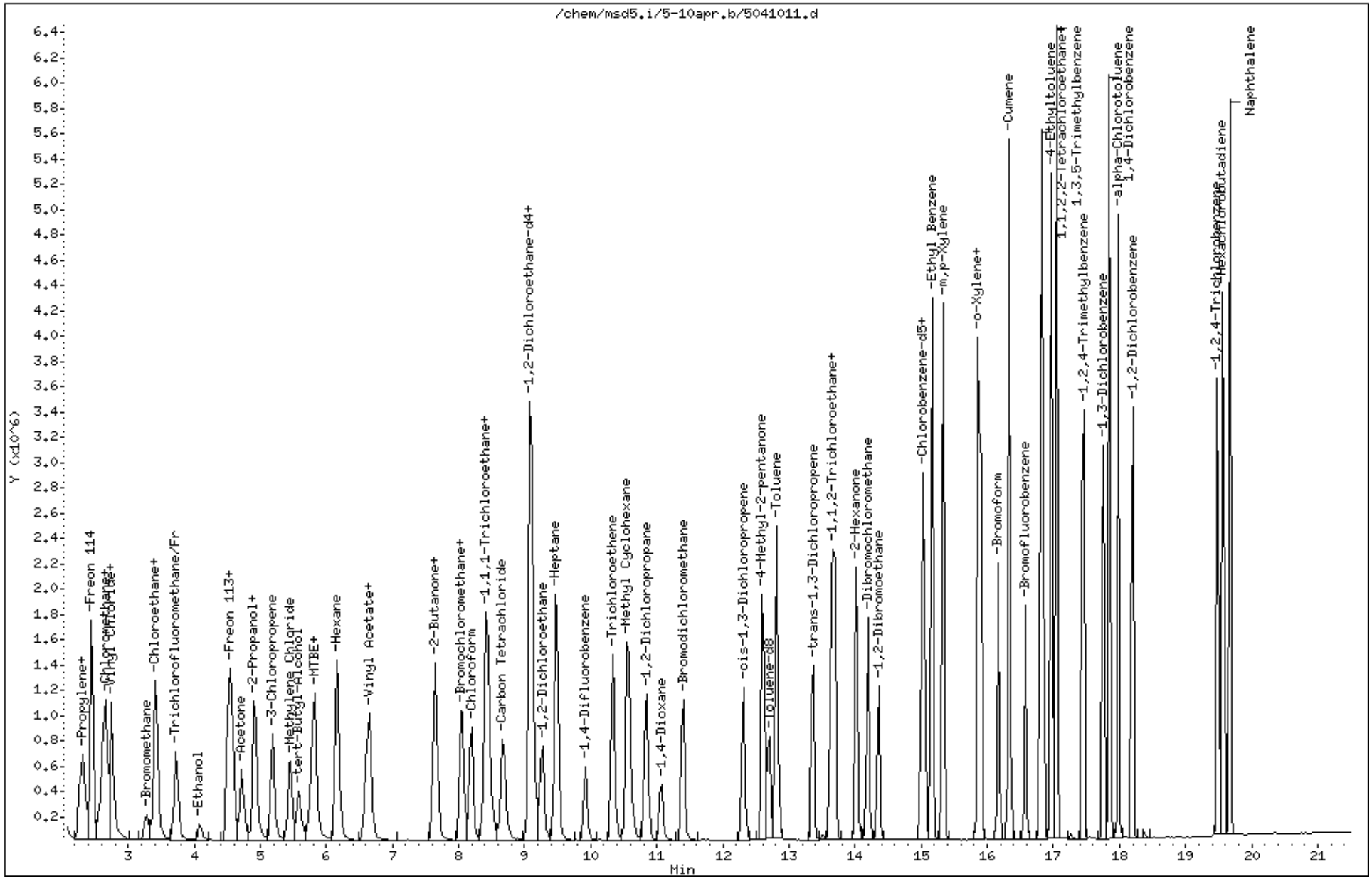
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	26.077	104.31	70-130
$ 107 Toluene-d8	25.000	25.982	103.93	70-130
$ 138 Bromofluorobenzene	25.000	24.872	99.49	70-130

0100

Data File: /chem/msd5.i/5-10apr.b/5041011.d
Date : 10-APR-2008 14:46
Client ID: LCS
Sample Info: 50mL #1576-335

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040905.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 09-APR-2008 11:52
Operator : ct Inst ID: msd5.i
Smp Info : 0.2mL #1576-326
Misc Info : 200ppbv -> 0.2ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 11:52 Cal File: 5040905.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	271578	25.0000		70.00- 130.00	100.00
8.087	8.087 (1.000)	128	208919			48.93- 108.93	76.93
8.059	8.059 (1.000)	49	533329			174.90- 234.90	196.38
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1168471	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	179998			0.00- 45.06	15.40
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1182349	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	599808			0.00- 30.00	50.73
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	331240	25.0000		70.00- 130.00	100.00(a)
9.137	9.137 (1.130)	67	185512			0.00- 30.00	56.01
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1201809	25.0000		70.00- 130.00	100.00(a)
12.704	12.704 (1.278)	70	117370			0.00- 30.00	9.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	799003			0.00- 30.00	66.48
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	681943	25.0000		70.00- 130.00	100.00(a)
16.575	16.575 (1.105)	95	967586			105.46- 165.46	141.89
16.575	16.575 (1.105)	176	644453			67.29- 127.29	94.50
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	9389	0.20000		70.00- 130.00	100.00(a)
2.778	2.778 (0.344)	39	24145			0.00- 30.00	257.16
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	9785	0.20000	0.2000	70.00- 130.00	100.00
8.197	8.197 (1.014)	85	6248			35.62- 95.62	63.85
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.914)	78	17796	0.20000	0.2000	70.00- 130.00	100.00
9.082	9.082 (0.914)	77	4404			0.00- 30.00	24.75
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15495	0.20000	0.2000	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	7885			12.91- 72.91	50.89
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	24377	0.20000	0.2000	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	7720			0.00- 30.00	31.67
16.326	16.326 (1.088)	51	4216			0.00- 30.00	17.29
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	11296	0.20000		70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	9119			65.04- 125.04	80.73
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	20301	0.20000	0.2000	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	11219			0.00- 30.00	55.26
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	18124	0.20000	0.2000	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	9849			18.96- 78.96	54.34

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040905.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 0.2ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	271578	10.61
92 1,4-Difluorobenze	1111535	666921	1556149	1168471	5.12
125 Chlorobenzene-d5	1171390	702834	1639946	1182349	0.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

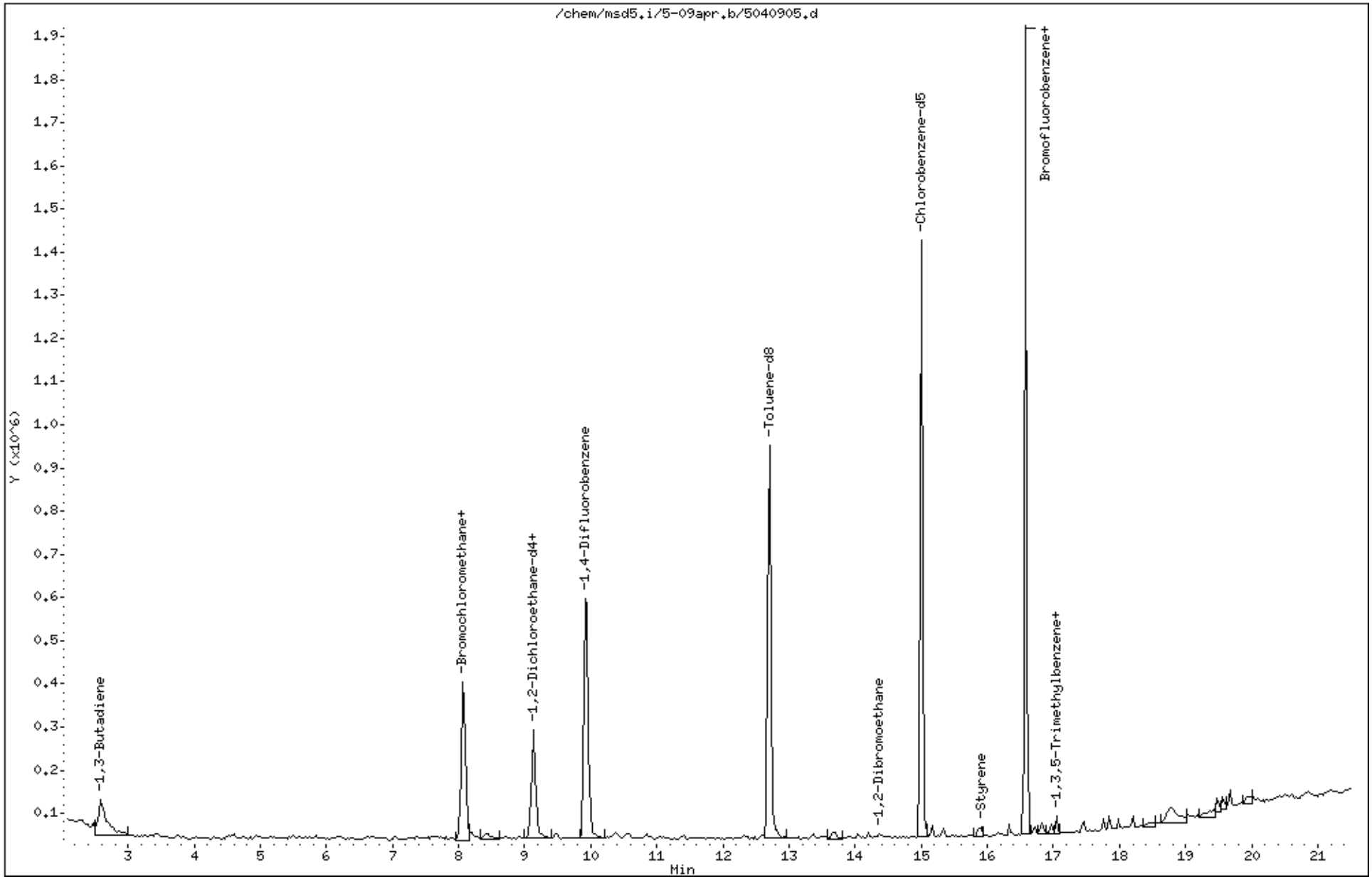
0104

Data File: /chem/msd5.i/5-09apr.b/5040905.d
Date : 09-APR-2008 11:52
Client ID: Level 1
Sample Info: 0.2mL #1576-326

Instrument: msd5.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040913.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 09-APR-2008 16:02
Operator : ct Inst ID: msd5.i
Smp Info : 0.5mL #1576-326
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 16:02 Cal File: 5040913.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	233751	25.0000		70.00- 130.00	100.00
8.087	8.087 (1.000)	128	182071			48.93- 108.93	77.89
8.059	8.059 (1.000)	49	468309			174.90- 234.90	200.35
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1036913	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	159186			0.00- 45.06	15.35
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1114794	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	556699			0.00- 30.00	49.94
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	303257	25.0000	24.259	70.00- 130.00	100.00
9.137	9.137 (1.130)	67	165019			0.00- 30.00	54.42
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1109305	25.0000	25.536	70.00- 130.00	100.00
12.704	12.704 (1.278)	70	105081			0.00- 30.00	9.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	730975			0.00- 30.00	65.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	646286	25.0000	24.114	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	901002			105.46- 165.46	139.41
16.575	16.575 (1.105)	176	616934			67.29- 127.29	95.46
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.289)	85	10292	0.50000	0.4562	70.00- 130.00	100.00(a)
2.336	2.336 (0.289)	87	3676			0.00- 30.00	35.72
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.306)	135	8787	0.50000	0.4321	70.00- 130.00	100.00(a)
2.474	2.474 (0.306)	137	3656			2.26- 62.26	41.61
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.344)	62	6763	0.50000	0.4503	70.00- 130.00	100.00(a)
2.806	2.806 (0.347)	64	1796			0.00- 30.00	26.56
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	9258	0.50000	0.6046	70.00- 130.00	100.00
2.778	2.778 (0.344)	39	9896			0.00- 30.00	106.89
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.408)	94	2306	0.50000	0.2762	70.00- 130.00	100.00(a)
3.303	3.303 (0.408)	96	4338			64.97- 124.97	188.12
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.426)	64	2317	0.50000	0.3305	70.00- 130.00	100.00(Ta)
0.000	1.000 (0.000)	49	0			0.00- 30.00	0.00
3.746	3.746 (0.463)	66	2098			0.00- 30.00	90.55
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.463)	101	10989	0.50000	0.4287	70.00- 130.00	100.00(a)
3.746	3.746 (0.463)	103	6566			34.72- 94.72	59.75
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.559)	151	7012	0.50000	0.4174	70.00- 130.00	100.00(a)
4.548	4.548 (0.562)	153	4228			34.83- 94.83	60.30
4.520	4.520 (0.559)	101	9136			99.93- 159.93	130.29
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.569)	61	8490	0.50000	0.4006	70.00- 130.00	100.00(a)
4.603	4.603 (0.569)	96	6063			22.58- 82.58	71.41
4.603	4.603 (0.569)	98	3299			3.77- 63.77	38.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.610)	76	15176	0.50000	0.4430	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	8781	0.50000	0.4472	70.00- 130.00	100.00(a)
5.460	5.460 (0.675)	84	5614			23.12- 83.12	63.93
5.488	5.488 (0.679)	51	3142			0.00- 30.00	35.78
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.716)	73	8185	0.50000	0.3777	70.00- 130.00	100.00(a)
5.764	5.764 (0.713)	57	3040			0.50- 60.50	37.14
5.764	5.764 (0.713)	41	2269			0.00- 30.00	27.72
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	7759	0.50000	0.5373	70.00- 130.00	100.00
5.847	5.847 (0.723)	61	8411			134.04- 194.04	108.40
5.847	5.847 (0.723)	98	4331			0.00- 30.00	55.82
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	15405	0.50000	0.5106	70.00- 130.00	100.00
6.179	6.179 (0.764)	43	9983			0.00- 30.00	64.80
6.151	6.151 (0.761)	86	1566			0.00- 30.00	10.17
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	11216	0.50000	0.4333	70.00- 130.00	100.00(a)
6.621	6.621 (0.819)	65	3278			0.00- 59.38	29.23
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.952)	72	2556	0.50000	0.3721	70.00- 130.00	100.00(a)
7.727	7.727 (0.956)	43	18130			572.61- 632.61	709.31
7.451	7.451 (0.921)	57	1871			0.00- 30.00	73.20
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	9964	0.50000	0.4815	70.00- 130.00	100.00(a)
7.644	7.644 (0.945)	96	4631			40.21- 100.21	46.48
7.644	7.644 (0.945)	98	4455			15.96- 75.96	44.71
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (0.997)	42	18579	0.50000	0.6579	70.00- 130.00	100.00
8.087	8.087 (1.000)	71	3361			0.00- 55.28	18.09
8.059	8.059 (0.997)	72	5297			0.00- 30.00	28.51
72 Chloroform					CAS #: 67-66-3		
8.225	8.225 (1.017)	83	10642	0.50000	0.4038	70.00- 130.00	100.00(a)
8.197	8.197 (1.014)	85	7088			35.62- 95.62	66.60

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		
8.446	8.446 (1.044)	97	8936	0.50000	0.3886	70.00- 130.00	100.00(a)
8.474	8.474 (1.048)	99	6388			35.49- 95.49	71.49
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.041)	84	11331	0.50000	0.5439	70.00- 130.00	100.00
8.419	8.419 (1.041)	56	15565			127.74- 187.74	137.37
8.419	8.419 (1.041)	41	9449			65.80- 125.80	83.39
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.075)	119	9834	0.50000	0.4542	70.00- 130.00	100.00(a)
8.667	8.667 (1.072)	117	8603			73.84- 133.84	87.48
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.123)	57	40768	0.50000	0.4329	70.00- 130.00	100.00(a)
9.110	9.110 (1.127)	56	13347			0.00- 30.00	32.74
9.110	9.110 (1.127)	41	13155			0.00- 30.00	32.27
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	18629	0.50000	0.3746	70.00- 130.00	100.00(a)
9.110	9.110 (0.917)	77	5068			0.00- 30.00	27.20
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.933)	62	6753	0.50000	0.3868	70.00- 130.00	100.00(a)
9.276	9.276 (0.933)	64	4387			0.00- 30.00	64.96
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	2418	0.50000	0.4328	70.00- 130.00	100.00(a)
9.469	9.469 (0.953)	43	17407			0.00- 30.00	719.89
9.497	9.497 (0.955)	71	7974			0.00- 30.00	329.78
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.042)	95	7677	0.50000	0.4218	70.00- 130.00	100.00(a)
10.354	10.354 (1.042)	130	7068			75.19- 135.19	92.07
10.326	10.326 (1.039)	97	5395			35.92- 95.92	70.27
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	8680	0.50000	0.4697	70.00- 130.00	100.00(a)
10.852	10.852 (1.092)	62	6877			42.36- 102.36	79.23
10.852	10.852 (1.092)	41	7055			36.24- 96.24	81.28
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	10503	0.50000	0.4171	70.00- 130.00	100.00(a)
11.405	11.405 (1.147)	85	6375			34.29- 94.29	60.70
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	8482	0.50000	0.3902	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.239)	77	4245			2.88- 62.88	50.05
12.317	12.317 (1.239)	39	7937			38.55- 98.55	93.57
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.270)	58	6875	0.50000	0.3939	70.00- 130.00	100.00(a)
12.621	12.621 (1.270)	43	29525			0.00- 30.00	429.45
12.621	12.621 (1.270)	85	2778			0.00- 30.00	40.41
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	22482	0.50000	0.4215	70.00- 130.00	100.00(a)
12.815	12.815 (1.289)	92	15186			28.92- 88.92	67.55
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	8372	0.50000	0.3927	70.00- 130.00	100.00(a)
13.368	13.368 (0.891)	77	3566			2.45- 62.45	42.59
13.368	13.368 (0.891)	39	6862			41.02- 101.02	81.96
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	10458	0.50000	0.5400	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	4520			33.86- 93.86	43.22
13.644	13.644 (0.910)	83	6790			54.90- 114.90	64.93
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	8397	0.50000	0.3767	70.00- 130.00	100.00(a)
13.700	13.700 (0.913)	129	7558			44.47- 104.47	90.01
13.700	13.700 (0.913)	131	6342			41.24- 101.24	75.53
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	9463	0.50000	0.3786	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	7343			0.00- 30.00	77.60
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	10906	0.50000	0.3834	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	11589			65.04- 125.04	106.26
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	19535	0.50000	0.4459	70.00- 130.00	100.00(a)
15.054	15.054 (1.004)	114	7078			2.03- 62.03	36.23
15.027	15.027 (1.002)	77	19624			26.76- 86.76	100.46
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	9683	0.50000	0.3967	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	30167			0.00- 30.00	311.55
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	12729	0.50000	0.4114	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	24352			0.00- 30.00	191.31
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	11669	0.50000	0.4065	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	23321			169.15- 229.15	199.85
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	17726	0.50000	0.3516	70.00- 130.00	100.00(a)
15.912	15.912 (1.061)	78	9868			12.91- 72.91	55.67
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	8329	0.50000	0.3542	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	3960			21.95- 81.95	47.54
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	17585	0.50000	0.4262	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	11219			34.75- 94.75	63.80
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	35542	0.50000	0.4156	70.00- 130.00	100.00(a)
16.990	16.990 (1.133)	120	9648			1.07- 61.07	27.15
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	29449	0.50000	0.3829	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	15841			0.00- 30.00	53.79
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	26760	0.50000	0.3987	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	13221			18.96- 78.96	49.41
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	19543	0.50000	0.4490	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	13286			0.00- 30.00	67.98
17.764	17.764 (1.184)	111	8401			0.00- 30.00	42.99
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	24035	0.50000	0.4617	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	14375			0.00- 30.00	59.81
17.847	17.847 (1.190)	111	9433			0.00- 30.00	39.25
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	23232	0.50000	0.3446	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	5021			0.00- 30.00	21.61
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.207	18.207 (1.214)	146	20292	0.50000	0.4597	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.207	18.207 (1.214)	148	13381			33.15- 93.15	65.94
18.207	18.207 (1.214)	111	7633			7.43- 67.43	37.62
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	35925	0.50000	0.3831	70.00- 130.00	100.00(a)
16.852	16.852 (1.123)	120	9433			0.00- 30.00	26.26
16.852	16.852 (1.123)	105	2627			0.00- 30.00	7.31
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	32383	0.50000	0.3790	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	10902			0.00- 30.00	33.67
16.326	16.326 (1.088)	51	4951			0.00- 30.00	15.29
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	11476	0.50000	0.4043	70.00- 130.00	100.00(a)
10.548	10.548 (1.061)	98	7526			0.00- 30.00	65.58
10.575	10.575 (1.064)	55	18840			0.00- 30.00	164.17

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040913.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	233751	-4.80
92 1,4-Difluorobenze	1111535	666921	1556149	1036913	-6.71
125 Chlorobenzene-d5	1171390	702834	1639946	1114794	-4.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

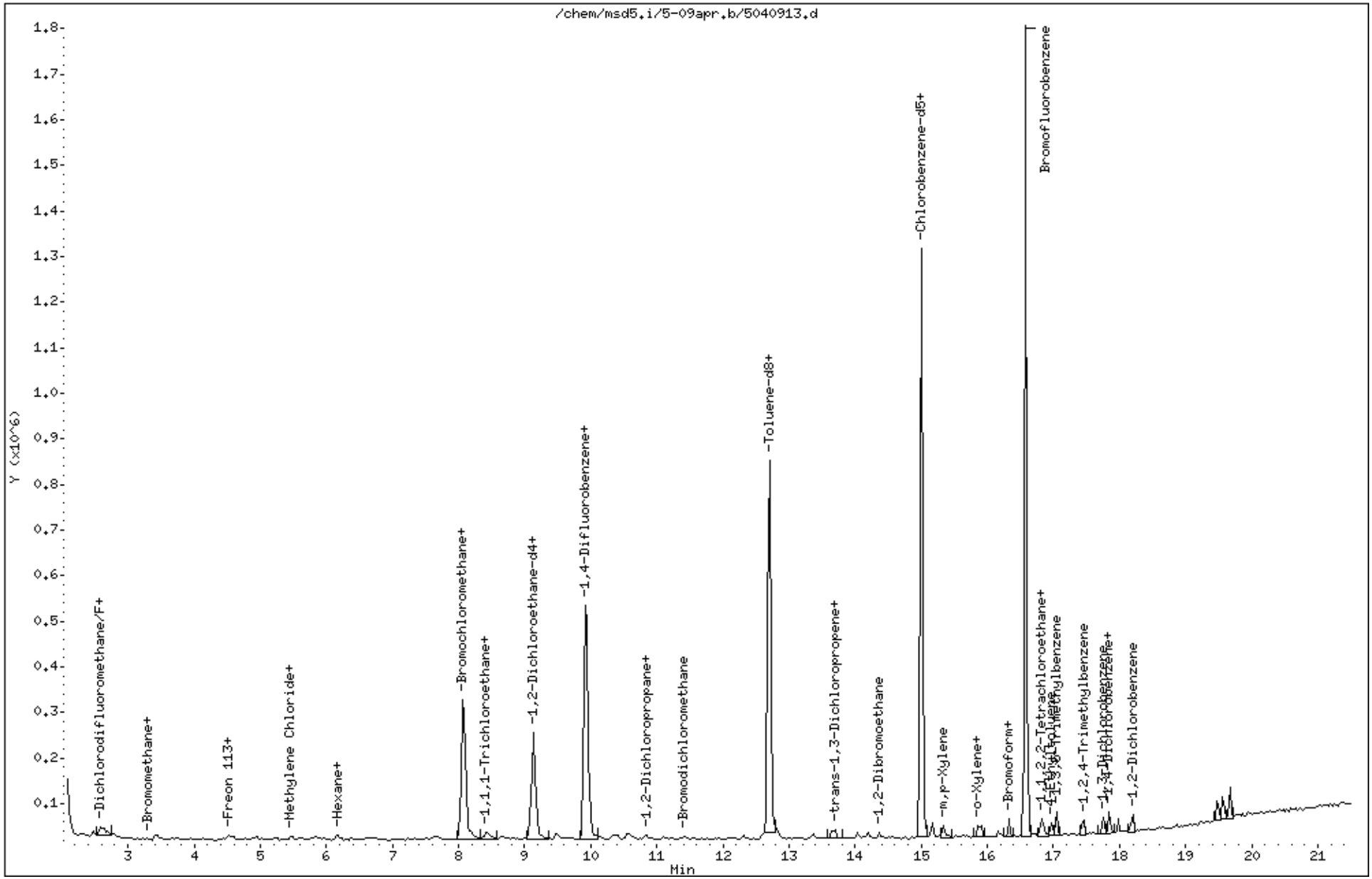
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-09apr.b/5040913.d
Date : 09-APR-2008 16:02
Client ID: Level 2
Sample Info: 0.5mL #1576-326

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



0113

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041006.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 3
Inj Date : 10-APR-2008 11:52
Operator : ct Inst ID: msd5.i
Smp Info : 2.0mL #1576-319
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 11-Apr-2008 07:33 ctaylor Quant Type: ISTD
Cal Date : 10-APR-2008 11:52 Cal File: 5041006.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19a.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.087	8.059 (1.000)	130	219542	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	171618			45.23- 105.23		78.17
8.059	8.059 (1.000)	49	448928			169.46- 229.46		204.48
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.939	9.912 (1.000)	114	1020354	25.0000		80.00- 120.00		100.00
9.911	9.912 (1.000)	88	153978			0.00- 44.71		15.09
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1076155	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	545734			0.00- 30.00		50.71
7 Isobutane						CAS #: 75-28-5		
2.501	2.474 (0.309)	43	67254	2.00000	1.975	80.00- 120.00		100.00(a)
2.529	2.474 (0.313)	42	23419			0.00- 30.00		34.82
2.529	2.474 (0.313)	58	3644			0.00- 30.00		5.42
18 Pentane						CAS #: 109-66-0		
3.829	3.801 (0.473)	43	56668	2.00000	1.787	80.00- 120.00		100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.470)	57	7722			0.00- 30.00	13.63
3.829	3.801 (0.473)	72	4144			0.00- 30.00	7.31
25 Acrolein					CAS #: 107-02-8		
4.520	4.492 (0.559)	55	6106	2.00000	1.604	80.00- 120.00	100.00(a)
4.520	4.492 (0.559)	56	10432			0.00- 30.00	170.85
34 Acetonitrile					CAS #: 75-05-8		
5.349	5.294 (0.662)	41	19380	2.00000	1.570	80.00- 120.00	100.00(a)
5.322	5.294 (0.658)	38	6196			0.00- 30.00	31.97
5.322	5.294 (0.658)	40	36923			0.00- 30.00	190.52
39 Acrylonitrile					CAS #: 107-13-1		
5.985	5.958 (0.740)	53	24017	2.00000	1.724	80.00- 120.00	100.00(a)
5.985	5.958 (0.740)	52	12970			0.00- 30.00	54.00
42 1-Pentene					CAS #: 109-67-1		
3.746	3.746 (0.463)	55	32536	2.00000	1.907	80.00- 120.00	100.00(Ta)
3.746	3.746 (0.463)	42	72923			0.00- 30.00	224.13
0.000	3.746 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.188	4.161 (0.518)	74	10831	2.00000	1.778	80.00- 120.00	100.00(Ta)
4.188	4.161 (0.518)	59	17711			0.00- 30.00	163.52
0.000	4.161 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.879	4.852 (0.603)	142	41051	2.00000	1.634	80.00- 120.00	100.00(a)
4.879	4.852 (0.603)	127	16049			0.00- 30.00	39.10
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.747)	55	24530	2.00000	1.963	80.00- 120.00	100.00(a)
6.041	6.041 (0.747)	41	31202			0.00- 30.00	127.20
6.068	6.041 (0.750)	84	7479			0.00- 30.00	30.49
62 Methyl Acrylate					CAS #: 96-33-3		
7.838	7.783 (0.969)	55	41843	2.00000	1.549	80.00- 120.00	100.00(a)
7.838	7.783 (0.969)	85	5865			0.00- 30.00	14.02
7.810	7.783 (0.966)	58	5925			0.00- 30.00	14.16
86 2-Pentanone					CAS #: 107-87-9		
10.824	10.796 (1.089)	43	95381	2.00000	1.728	80.00- 120.00	100.00(a)
10.796	10.796 (1.086)	58	7234			0.00- 30.00	7.58
10.824	10.796 (1.089)	86	13676			0.00- 30.00	14.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
88 Ethyl Acrylate					CAS #: 140-88-5		
10.630	10.630 (1.070)	55	70238	2.00000	1.674	80.00- 120.00	100.00(a)
10.658	10.630 (1.072)	99	4648			0.00- 30.00	6.62
10.630	10.630 (1.070)	45	8895			0.00- 30.00	12.66
95 Dibromomethane					CAS #: 74-95-3		
11.100	11.073 (1.117)	174	23554	2.00000	1.672	80.00- 120.00	100.00(a)
11.073	11.073 (1.114)	93	24605			0.00- 30.00	104.46
11.073	11.073 (1.114)	95	20586			0.00- 30.00	87.40
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.114)	41	50742	2.00000	1.708	80.00- 120.00	100.00(a)
11.100	11.073 (1.117)	69	28314			0.00- 30.00	55.80
11.100	11.073 (1.117)	100	9911			0.00- 30.00	19.53
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	9101	2.00000	1.603	80.00- 120.00	100.00(a)
16.879	16.879 (1.125)	53	17266			0.00- 30.00	189.72
16.879	16.879 (1.125)	124	3805			0.00- 30.00	41.81
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	58283	2.00000	1.708	80.00- 120.00	100.00(a)
17.294	17.294 (1.153)	103	32363			0.00- 30.00	55.53
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	56615	2.00000	1.788	80.00- 120.00	100.00(a)
17.709	17.709 (1.181)	95	18237			0.00- 30.00	32.21
17.709	17.709 (1.181)	63	46241			0.00- 30.00	81.68
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	93358	2.00000	1.739	80.00- 120.00	100.00(a)
15.331	15.331 (1.022)	57	72038			0.00- 30.00	77.16
15.331	15.331 (1.022)	85	24957			0.00- 30.00	26.73
193 Cyclopentane					CAS #: 287-92-3		
5.432	5.405 (0.672)	70	13821	2.00000	1.826	80.00- 120.00	100.00(a)
5.432	5.405 (0.672)	55	22076			0.00- 30.00	159.73

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041006.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 10-APR-2008
Calibration Time: 14:19
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	225889	135533	316245	219542	-2.81
92 1,4-Difluorobenze	1007938	604763	1411113	1020354	1.23
125 Chlorobenzene-d5	1095270	657162	1533378	1076155	-1.75

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

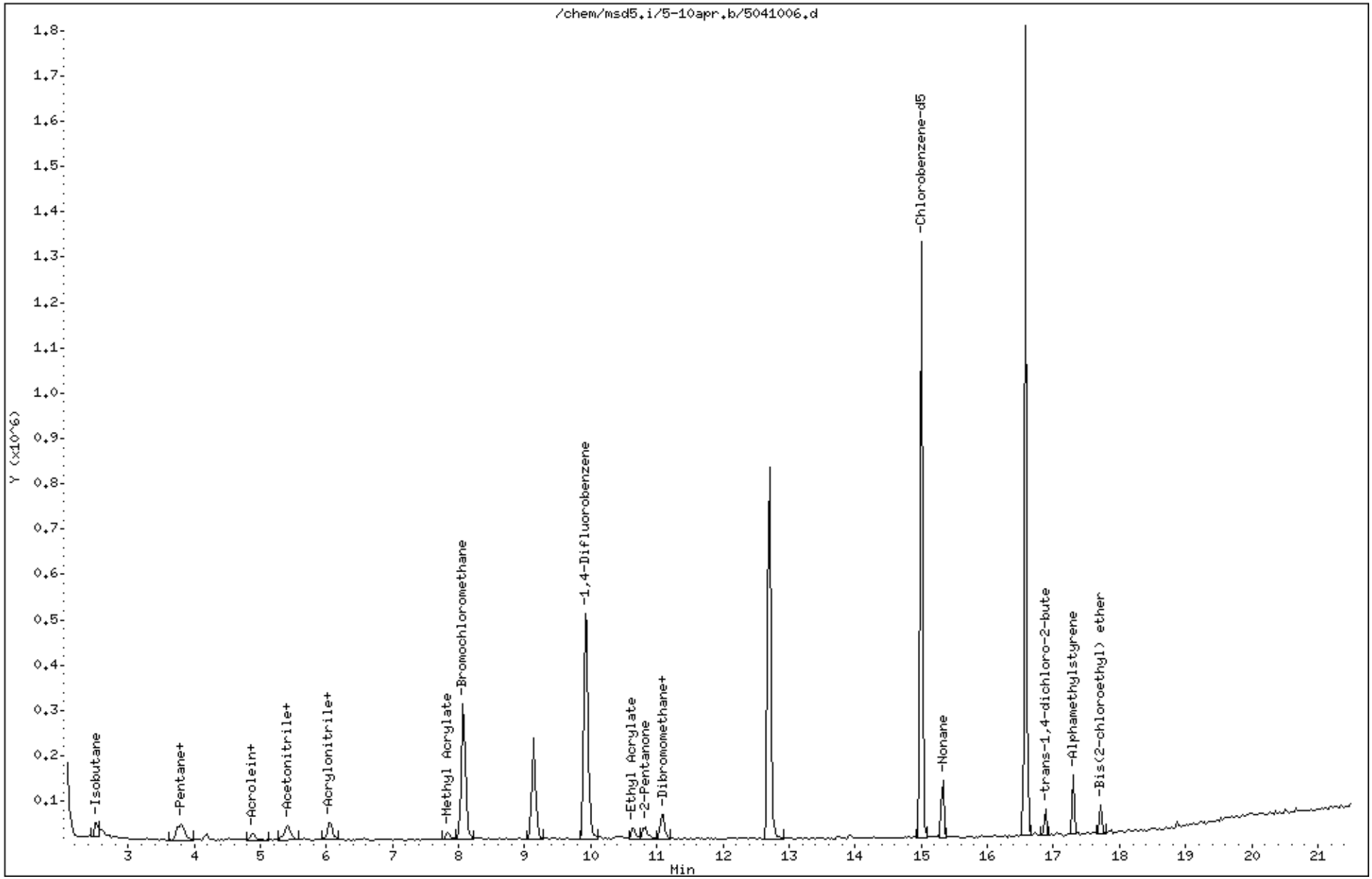
0118

Data File: /chem/msd5.i/5-10apr.b/5041006.d
Date : 10-APR-2008 11:52
Client ID: Level 3
Sample Info: 2.0mL #1576-319

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041002.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 3
Inj Date : 10-APR-2008 08:53
Operator : ct Inst ID: msd5.i
Smp Info : 2.0mL #1576-341
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 10-Apr-2008 14:03 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 08:53 Cal File: 5041002.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp35a.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.087	8.087 (1.000)	130	300504	25.0000		70.00- 130.00		100.00
8.087	8.087 (1.000)	128	233283			45.96- 105.96		77.63
8.087	8.087 (1.000)	49	588294			166.24- 226.24		195.77
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1286435	25.0000		70.00- 130.00		100.00
9.939	9.939 (1.000)	88	196954			0.00- 45.19		15.31
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1352464	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	672057			0.00- 30.00		49.69
1 Freon134a						CAS #: 811-97-2		
2.225	2.225 (0.275)	83	22612	2.00000	1.897	70.00- 130.00		100.00(a)
2.225	2.225 (0.275)	69	88148			0.00- 30.00		389.83
3 Freon 152a						CAS #: 75-37-6		
2.308	2.308 (0.285)	65	17141	2.00000	1.840	70.00- 130.00		100.00(a)
2.363	2.363 (0.292)	51	97712			0.00- 30.00		570.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.363	2.363 (0.292)	67	6254	2.00000	1.889	70.00- 130.00	100.00(a)
2.363	2.363 (0.292)	51	97712			0.00- 30.00	1562.39
5 Freon142b					CAS #: 75-68-3		
2.584	2.584 (0.320)	65	49620	2.00000	1.786	70.00- 130.00	100.00(a)
2.612	2.612 (0.323)	45	27285			0.00- 30.00	54.99
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.773	3.773 (0.467)	67	39585	2.00000	1.776	70.00- 130.00	100.00(a)
3.801	3.801 (0.470)	69	13948			0.00- 30.00	35.24
3.829	3.829 (0.473)	35	1219			0.00- 30.00	3.08
22 Freon123a					CAS #: 354-23-4		
4.299	4.299 (0.532)	117	19340	2.00000	1.773	70.00- 130.00	100.00(a)
4.326	4.326 (0.535)	67	27585			0.00- 30.00	142.63
24 Freon123					CAS #: 306-83-2		
4.437	4.437 (0.549)	83	4749	2.00000	2.018	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	133	0			0.00- 30.00	0.00
4.437	4.437 (0.549)	85	3332			0.00- 30.00	70.16
49 Isopropyl ether					CAS #: 108-20-3		
6.621	6.621 (0.819)	45	130260	2.00000	1.665	70.00- 130.00	100.00(a)
6.621	6.621 (0.819)	87	23986			0.00- 30.00	18.41
6.621	6.621 (0.819)	59	13485			0.00- 30.00	10.35
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.229	7.229 (0.894)	59	61586	2.00000	1.438	70.00- 130.00	100.00(a)
7.229	7.229 (0.894)	87	25194			0.00- 30.00	40.91
7.229	7.229 (0.894)	41	19389			0.00- 30.00	31.48
61 Ethyl Acetate					CAS #: 141-78-6		
7.755	7.755 (0.959)	70	5313	2.00000	1.430	70.00- 130.00	100.00(a)
7.755	7.755 (0.959)	43	85421			0.00- 30.00	1607.77
7.755	7.755 (0.959)	61	11027			0.00- 30.00	207.55
64 1-Propanol					CAS #: 71-23-8		
6.842	6.842 (0.846)	42	9707	2.00000	1.954	70.00- 130.00	100.00(a)
6.870	6.870 (0.850)	59	4932			0.00- 30.00	50.81
6.870	6.870 (0.850)	41	4769			0.00- 30.00	49.13
76 Isobutanol					CAS #: 78-83-1		
9.110	9.110 (0.917)	43	37106	2.00000	1.719	70.00- 130.00	100.00(a)
9.110	9.110 (0.917)	41	26587			0.00- 30.00	71.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.147)	73	70507	2.00000	1.691	70.00- 130.00	100.00(a)
9.303	9.303 (1.150)	87	16515			0.00- 30.00	23.42
9.303	9.303 (1.150)	55	24616			0.00- 30.00	34.91
91 1-Butanol					CAS #: 71-36-3		
10.382	10.382 (1.044)	56	38407	2.00000	1.970	70.00- 130.00	100.00(a)
10.382	10.382 (1.044)	41	26862			0.00- 30.00	69.94
10.382	10.382 (1.044)	43	20855			0.00- 30.00	54.30
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.428)	56	48406	2.00000	1.781	70.00- 130.00	100.00(a)
14.197	14.197 (1.428)	73	13550			0.00- 30.00	27.99
14.197	14.197 (1.428)	43	120781			0.00- 30.00	249.52
131 2-Heptanone					CAS #: 110-43-0		
16.105	16.105 (1.074)	58	69279	2.00000	1.782	70.00- 130.00	100.00(a)
16.105	16.105 (1.074)	43	122815			0.00- 30.00	177.28
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	65291	2.00000	1.944	70.00- 130.00	100.00(a)
16.520	16.520 (1.101)	98	22267			0.00- 30.00	34.10
16.520	16.520 (1.101)	42	46855			0.00- 30.00	71.76
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	178706	2.00000	2.008	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	123361			42.39- 102.39	69.03
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.921	13.921 (1.401)	76	52954	2.00000	1.694	70.00- 130.00	100.00(a)
13.893	13.893 (1.398)	41	47694			60.28- 120.28	90.07
13.921	13.921 (1.401)	78	16345			0.00- 30.00	30.87
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.589	7.589 (0.938)	77	37747	2.00000	1.542	70.00- 130.00	100.00(a)
7.589	7.589 (0.938)	79	15800			2.05- 62.05	41.86
7.589	7.589 (0.938)	97	8656			0.00- 30.00	22.93
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.750	8.750 (1.082)	110	17256	2.00000	1.738	70.00- 130.00	100.00(a)
8.750	8.750 (1.082)	75	41430			0.00- 30.00	240.09
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	35303	2.00000	1.670	70.00- 130.00	100.00(a)
15.193	15.193 (1.013)	117	29351			0.00- 30.00	83.14
15.193	15.193 (1.013)	95	13874			0.00- 30.00	39.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	46360	2.00000	1.648	70.00- 130.00	100.00(a)
16.741	16.741 (1.116)	77	76984			129.99- 189.99	166.06
16.741	16.741 (1.116)	158	47747			0.00- 30.00	102.99
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.851	16.851 (1.123)	110	23708	2.00000	1.692	70.00- 130.00	100.00(a)
16.851	16.851 (1.123)	61	18874			0.00- 30.00	79.61
16.851	16.851 (1.123)	112	15526			0.00- 30.00	65.49
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	40950	2.00000	1.728	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	91	117611			256.38- 316.38	287.21
16.962	16.962 (1.131)	65	10090			0.00- 30.00	24.64
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	43178	2.00000	1.792	70.00- 130.00	100.00(a)
17.100	17.100 (1.140)	91	118062			249.03- 309.03	273.43
17.100	17.100 (1.140)	63	12616			0.00- 30.00	29.22
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	159405	2.00000	1.751	70.00- 130.00	100.00(a)
17.377	17.377 (1.159)	134	33209			0.00- 53.21	20.83
17.377	17.377 (1.159)	91	88764			0.00- 30.00	55.68
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	27259	2.00000	1.565	70.00- 130.00	100.00(a)
17.432	17.432 (1.162)	117	30764			0.00- 30.00	112.86
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	179497	2.00000	1.620	70.00- 130.00	100.00(a)
17.598	17.598 (1.173)	134	36297			0.00- 48.49	20.22
17.598	17.598 (1.173)	91	26376			0.00- 30.00	14.69
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	41964	2.00000	1.786	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	119	153348			349.09- 409.09	365.43
17.764	17.764 (1.184)	91	30772			0.00- 30.00	73.33
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.875	17.875 (1.192)	120	59612	2.00000	1.732	70.00- 130.00	100.00(a)
17.875	17.875 (1.192)	105	130473			186.36- 246.36	218.87
17.875	17.875 (1.192)	77	15038			0.00- 30.00	25.23
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	35195	2.00000	1.798	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
158 Butylbenzene (continued)							
18.123	18.123 (1.208)	91	124867			375.33- 435.33	354.79
18.123	18.123 (1.208)	92	67999			0.00- 30.00	193.21
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.898	18.898 (1.260)	157	34090	2.00000	1.736	70.00- 130.00	100.00(a)
18.870	18.870 (1.258)	75	33291			74.65- 134.65	97.66
18.898	18.898 (1.260)	155	26366			0.00- 30.00	77.34

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041002.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 10-APR-2008
Calibration Time: 09:21
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	240974	144584	337364	300504	24.70
92 1,4-Difluorobenze	1048713	629228	1468198	1286435	22.67
125 Chlorobenzene-d5	1138308	682985	1593631	1352464	18.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

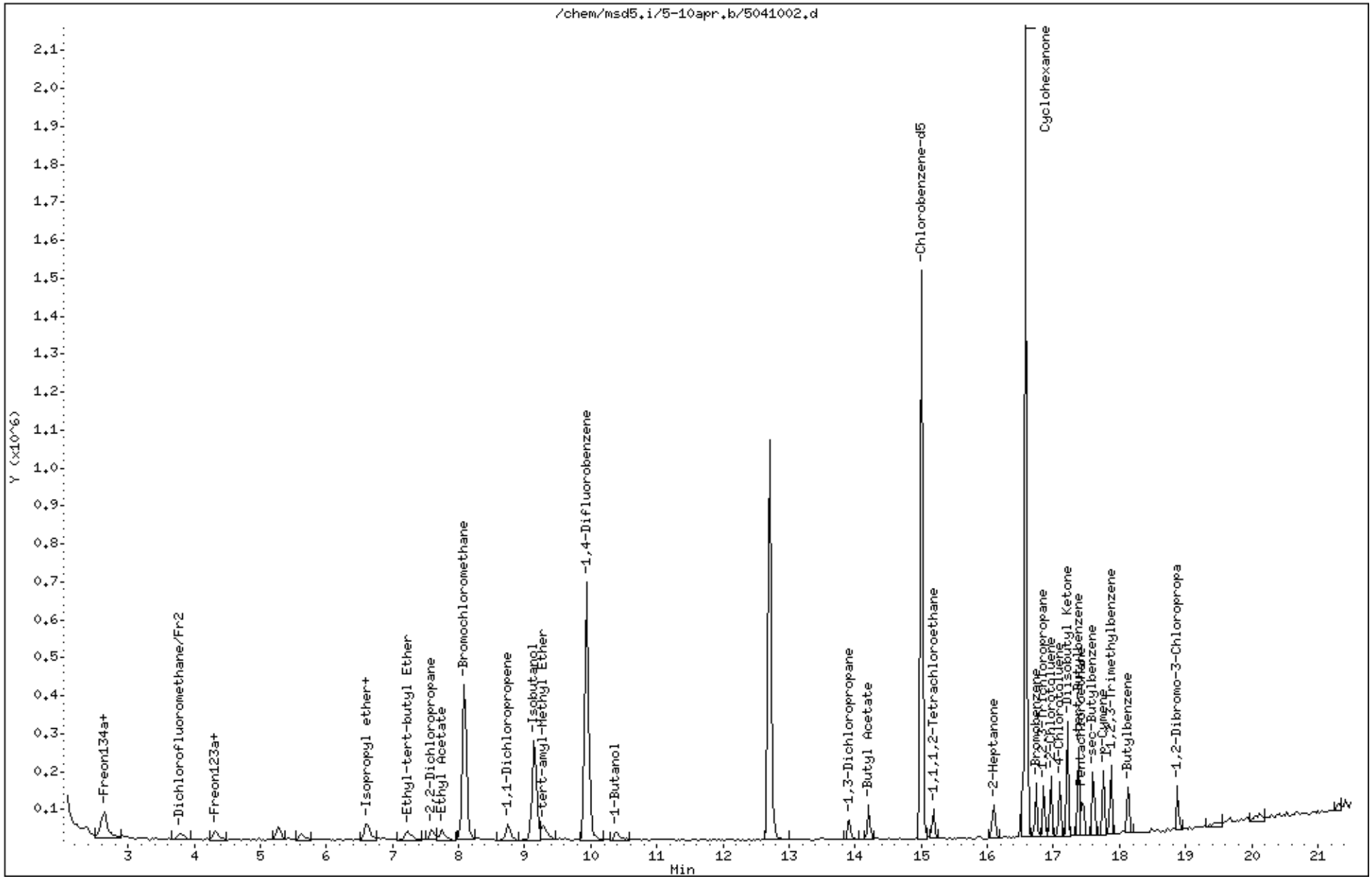
0125

Data File: /chem/msd5.i/5-10apr.b/5041002.d
Date : 10-APR-2008 08:53
Client ID: Level 3
Sample Info: 2.0mL #1576-341

Instrument: msd5.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040907.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 09-APR-2008 12:48
Operator : ct Inst ID: msd5.i
Smp Info : 2.0mL #1576-326
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 12:48 Cal File: 5040907.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	238686	25.0000		70.00- 130.00	100.00
8.087	8.087 (1.000)	128	187347			48.93- 108.93	78.49
8.059	8.059 (1.000)	49	491298			174.90- 234.90	205.83
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1089014	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	170278			0.00- 45.06	15.64
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1140006	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	567782			0.00- 30.00	49.81
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	304385	25.0000	25.000	70.00- 130.00	100.00
9.137	9.137 (1.130)	67	167174			0.00- 30.00	54.92
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1114858	25.0000	25.000	70.00- 130.00	100.00
12.704	12.704 (1.278)	70	106955			0.00- 30.00	9.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	753989			0.00- 30.00	67.63
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	679390	25.0000	25.000	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	941947			105.46- 165.46	138.65
16.575	16.575 (1.105)	176	643366			67.29- 127.29	94.70
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.282)	41	22725	2.00000	2.000	70.00- 130.00	100.00
2.280	2.280 (0.282)	42	19182			0.00- 30.00	84.41
2.280	2.280 (0.282)	39	19686			0.00- 30.00	86.63
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.285)	85	38627	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.289)	87	13053			0.00- 30.00	33.79
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.306)	135	34903	2.00000	2.000	70.00- 130.00	100.00
2.474	2.474 (0.306)	137	11397			2.26- 62.26	32.65
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.326)	50	32622	2.00000	2.000	70.00- 130.00	100.00
2.612	2.612 (0.323)	52	11561			0.00- 30.00	35.44
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.340)	62	25817	2.00000	2.000	70.00- 130.00	100.00
2.778	2.778 (0.344)	64	10536			0.00- 30.00	40.81
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	22973	2.00000	2.000	70.00- 130.00	100.00
2.778	2.778 (0.344)	39	35301			0.00- 30.00	153.66
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.405)	94	15420	2.00000	2.000	70.00- 130.00	100.00
3.276	3.276 (0.405)	96	12178			64.97- 124.97	78.98
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.426)	64	9910	2.00000	2.000	70.00- 130.00	100.00
3.442	3.442 (0.426)	49	3619			0.00- 30.00	36.52
3.442	3.442 (0.426)	66	3946			0.00- 30.00	39.82
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.463)	101	41047	2.00000	2.000	70.00- 130.00	100.00
3.746	3.746 (0.463)	103	28747			34.72- 94.72	70.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.511)	45	14498	2.00000	2.000	70.00- 130.00	100.00
4.133	4.133 (0.511)	43	9378			0.00- 30.00	64.68
4.160	4.160 (0.514)	46	4653			0.00- 30.00	32.09
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.559)	151	28121	2.00000	2.000	70.00- 130.00	100.00
4.520	4.520 (0.559)	153	16817			34.83- 94.83	59.80
4.520	4.520 (0.559)	101	36340			99.93- 159.93	129.23
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.566)	61	35581	2.00000	2.000	70.00- 130.00	100.00
4.603	4.603 (0.569)	96	21307			22.58- 82.58	59.88
4.603	4.603 (0.569)	98	12434			3.77- 63.77	34.95
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.586)	58	13762	2.00000	2.000	70.00- 130.00	100.00
4.741	4.741 (0.586)	43	37022			0.00- 30.00	269.02
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.610)	45	54310	2.00000	2.000	70.00- 130.00	100.00
4.962	4.962 (0.614)	43	16492			0.00- 30.00	30.37
4.935	4.935 (0.610)	59	1826			0.00- 30.00	3.36
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.610)	76	52933	2.00000	2.000	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.644)	76	11637	2.00000	2.000	70.00- 130.00	100.00
5.211	5.211 (0.644)	41	45153			0.00- 30.00	388.01
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	34745	2.00000	2.000	70.00- 130.00	100.00
5.488	5.488 (0.679)	84	20114			23.12- 83.12	57.89
5.460	5.460 (0.675)	51	11867			0.00- 30.00	34.15
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.713)	73	25561	2.00000	2.000	70.00- 130.00	100.00
5.792	5.792 (0.716)	57	8165			0.50- 60.50	31.94
5.792	5.792 (0.716)	41	18904			0.00- 30.00	73.96
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	23610	2.00000	2.000	70.00- 130.00	100.00
5.847	5.847 (0.723)	61	36778			134.04- 194.04	155.77
5.847	5.847 (0.723)	98	17560			0.00- 30.00	74.38

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	48315	2.00000	2.000	70.00- 130.00	100.00
6.179	6.179 (0.764)	43	38370			0.00- 30.00	79.42
6.179	6.179 (0.764)	86	8071			0.00- 30.00	16.70
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	40761	2.00000	2.000	70.00- 130.00	100.00
6.621	6.621 (0.819)	65	16553			0.00- 59.38	40.61
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.952)	72	11851	2.00000	2.000	70.00- 130.00	100.00
7.700	7.700 (0.952)	43	59063			572.61- 632.61	498.38
7.700	7.700 (0.952)	57	5209			0.00- 30.00	43.95
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	34673	2.00000	2.000	70.00- 130.00	100.00
7.644	7.644 (0.945)	96	28773			40.21- 100.21	82.98
7.644	7.644 (0.945)	98	17884			15.96- 75.96	51.58
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (0.997)	42	49794	2.00000	2.000	70.00- 130.00	100.00
8.059	8.059 (0.997)	71	13637			0.00- 55.28	27.39
8.059	8.059 (0.997)	72	14920			0.00- 30.00	29.96
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	37045	2.00000	1.204	70.00- 130.00	100.00
8.197	8.197 (1.014)	85	27539			35.62- 95.62	74.34
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.044)	97	35248	2.00000	2.000	70.00- 130.00	100.00
8.446	8.446 (1.044)	99	25759			35.49- 95.49	73.08
74 Cyclohexane					CAS #: 110-82-7		
8.446	8.446 (1.044)	84	35640	2.00000	2.000	70.00- 130.00	100.00
8.418	8.418 (1.041)	56	46433			127.74- 187.74	130.28
8.418	8.418 (1.041)	41	27722			65.80- 125.80	77.78
56 Vinyl Acetate					CAS #: 108-05-4		
6.704	6.704 (0.829)	86	5579	2.00000	2.000	70.00- 130.00	100.00
6.676	6.676 (0.826)	43	76526			0.00- 30.00	1371.68
6.704	6.704 (0.829)	42	8382			0.00- 30.00	150.24
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.072)	119	33425	2.00000	2.000	70.00- 130.00	100.00
8.695	8.695 (1.075)	117	34151			73.84- 133.84	102.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.123)	57	155403	2.00000	2.000	70.00- 130.00	100.00
9.110	9.110 (1.127)	56	51857			0.00- 30.00	33.37
9.110	9.110 (1.127)	41	41388			0.00- 30.00	26.63
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	78469	2.00000	1.285	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	19148			0.00- 30.00	24.40
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.933)	62	28048	2.00000	2.000	70.00- 130.00	100.00
9.276	9.276 (0.933)	64	10791			0.00- 30.00	38.47
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	10114	2.00000	2.000	70.00- 130.00	100.00
9.497	9.497 (0.955)	43	71044			0.00- 30.00	702.43
9.497	9.497 (0.955)	71	27831			0.00- 30.00	275.17
93 Trichloroethene					CAS #: 79-01-6		
10.354	10.354 (1.042)	95	30969	2.00000	2.000	70.00- 130.00	100.00
10.354	10.354 (1.042)	130	32034			75.19- 135.19	103.44
10.354	10.354 (1.042)	97	16794			35.92- 95.92	54.23
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	30739	2.00000	2.000	70.00- 130.00	100.00
10.852	10.852 (1.092)	62	23159			42.36- 102.36	75.34
10.852	10.852 (1.092)	41	22019			36.24- 96.24	71.63
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	20714	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.114)	58	21406			55.93- 115.93	103.34
11.073	11.073 (1.114)	57	6367			0.00- 30.00	30.74
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	42119	2.00000	2.000	70.00- 130.00	100.00
11.405	11.405 (1.147)	85	26424			34.29- 94.29	62.74
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	35041	2.00000	2.000	70.00- 130.00	100.00
12.317	12.317 (1.239)	77	14781			2.88- 62.88	42.18
12.317	12.317 (1.239)	39	28244			38.55- 98.55	80.60
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.270)	58	30422	2.00000	2.000	70.00- 130.00	100.00
12.621	12.621 (1.270)	43	103752			0.00- 30.00	341.04
12.621	12.621 (1.270)	85	13627			0.00- 30.00	44.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.289)	91	92373	2.00000	2.000	70.00- 130.00	100.00
12.815	12.815 (1.289)	92	54470			28.92- 88.92	58.97
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	33669	2.00000	2.000	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	12089			2.45- 62.45	35.91
13.368	13.368 (0.891)	39	29501			41.02- 101.02	87.62
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	31059	2.00000	2.000	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	19290			33.86- 93.86	62.11
13.644	13.644 (0.910)	83	26794			54.90- 114.90	86.27
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	36410	2.00000	2.000	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	26716			44.47- 104.47	73.38
13.699	13.699 (0.913)	131	27053			41.24- 101.24	74.30
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	45741	2.00000	2.000	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	90638			172.69- 232.69	198.15
14.031	14.031 (0.935)	100	9590			0.00- 30.00	20.97
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	38518	2.00000	2.000	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	31257			0.00- 30.00	81.15
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	46163	2.00000	2.000	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	45846			65.04- 125.04	99.31
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	73268	2.00000	2.000	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	24685			2.03- 62.03	33.69
15.054	15.054 (1.004)	77	49027			26.76- 86.76	66.91
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	41390	2.00000	2.000	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	119298			0.00- 30.00	288.23
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	51817	2.00000	2.000	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	99036			0.00- 30.00	191.13
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	50977	2.00000	2.000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	90845			169.15- 229.15	178.21
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	78535	2.00000	1.378	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	35315			12.91- 72.91	44.97
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	35523	2.00000	2.000	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	17406			21.95- 81.95	49.00
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	72805	2.00000	2.000	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	45430			34.75- 94.75	62.40
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	141472	2.00000	2.000	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	48865			1.07- 61.07	34.54
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	129400	2.00000	1.592	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	67179			0.00- 30.00	51.92
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	108828	2.00000	1.535	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	56923			18.96- 78.96	52.31
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	79379	2.00000	2.000	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	57646			0.00- 30.00	72.62
17.764	17.764 (1.184)	111	29520			0.00- 30.00	37.19
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	81179	2.00000	2.000	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	56797			0.00- 30.00	69.97
17.847	17.847 (1.190)	111	35716			0.00- 30.00	44.00
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	109552	2.00000	2.000	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	22640			0.00- 30.00	20.67
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	86815	2.00000	2.000	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	53008			33.15- 93.15	61.06
18.206	18.206 (1.214)	111	34371			7.43- 67.43	39.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	58791	2.00000	2.000	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	56384			65.53- 125.53	95.91
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	40099	2.00000	2.000	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	27687			32.61- 92.61	69.05
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	162727	2.00000	2.000	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	39175			0.00- 30.00	24.07
16.852	16.852 (1.123)	105	7173			0.00- 30.00	4.41
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	137988	2.00000	1.480	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	42588			0.00- 30.00	30.86
16.326	16.326 (1.088)	51	19020			0.00- 30.00	13.78
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	196370	2.00000	2.000	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	23893			0.00- 30.00	12.17
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.692)	59	42457	2.00000	2.000	70.00- 130.00	100.00
5.598	5.598 (0.692)	41	12146			0.00- 30.00	28.61
5.598	5.598 (0.692)	57	5735			0.00- 30.00	13.51
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.333)	58	9142	2.00000	2.000	70.00- 130.00	100.00
2.695	2.695 (0.333)	43	69192			0.00- 30.00	756.86
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.422)	43	43042	2.00000	2.000	70.00- 130.00	100.00
3.442	3.442 (0.426)	57	25012			0.00- 30.00	58.11
3.414	3.414 (0.422)	72	2898			0.00- 30.00	6.73
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	50803	2.00000	2.000	70.00- 130.00	100.00
10.575	10.575 (1.064)	98	24994			0.00- 30.00	49.20
10.547	10.547 (1.061)	55	46513			0.00- 30.00	91.56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040907.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	238686	-2.79
92 1,4-Difluorobenze	1111535	666921	1556149	1089014	-2.03
125 Chlorobenzene-d5	1171390	702834	1639946	1140006	-2.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

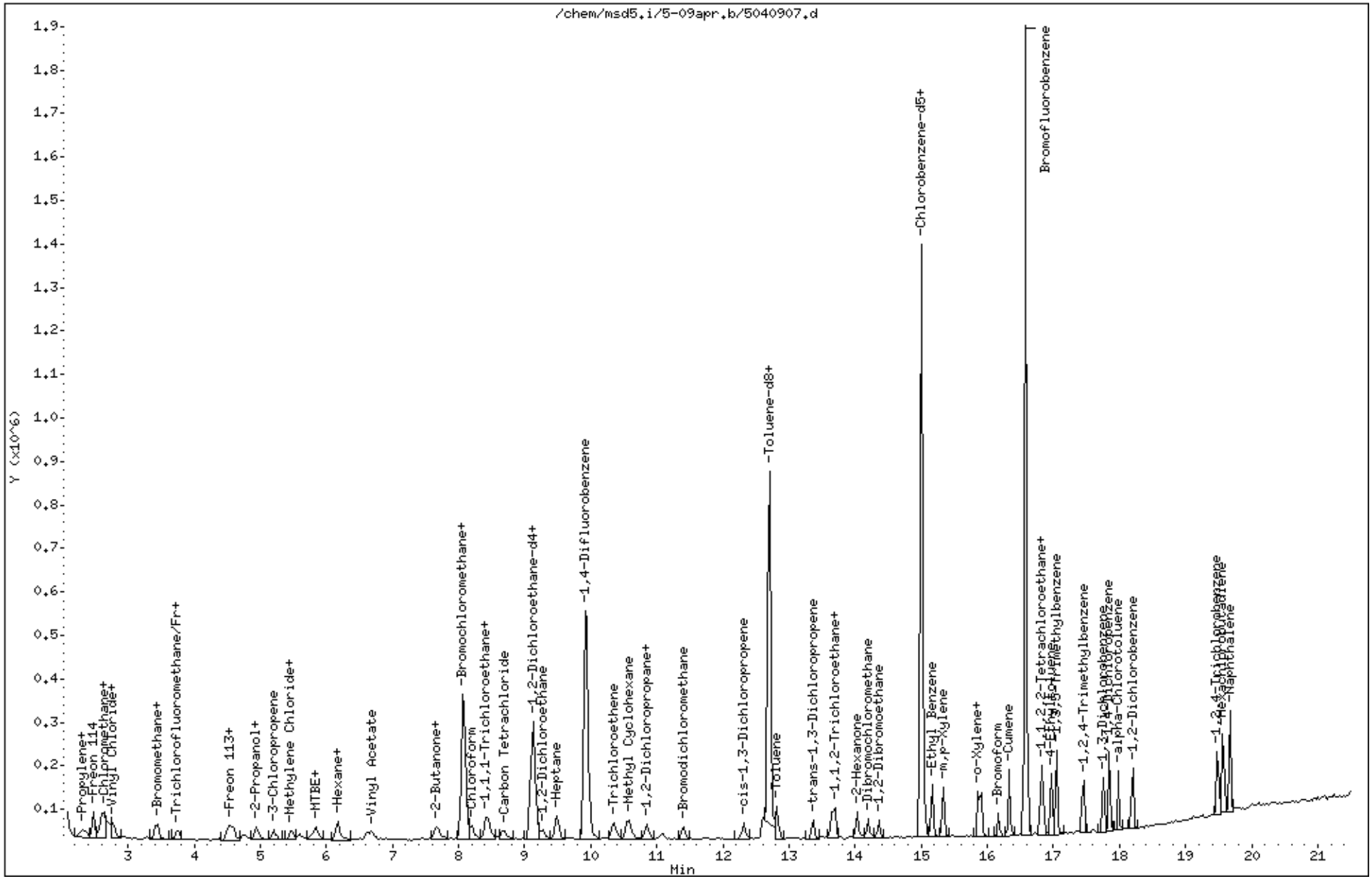
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-09apr.b/5040907.d
Date : 09-APR-2008 12:48
Client ID: Level 3
Sample Info: 2.0mL #1576-326

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040908.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 09-APR-2008 13:15
Operator : ct Inst ID: msd5.i
Smp Info : 25mL #1576-326
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 13:15 Cal File: 5040908.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	243717	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	193971			48.93- 108.93	79.59
8.059	8.059 (1.000)	49	492243			174.90- 234.90	201.97
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1102019	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	169115			0.00- 45.06	15.35
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1164805	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	596305			0.00- 30.00	51.19
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	317817	25.0000	25.279	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	183873			0.00- 30.00	57.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1157349	25.0000	25.319	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	105757			0.00- 30.00	9.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	782283			0.00- 30.00	67.59
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	704753	25.0000	25.189	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	961232			105.46- 165.46	136.39
16.575	16.575 (1.105)	176	673517			67.29- 127.29	95.57
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	414389	25.0000	29.413	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	288271			0.00- 30.00	69.57
2.253	2.253 (0.280)	39	309859			0.00- 30.00	74.77
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	675407	25.0000	28.902	70.00- 130.00	100.00
2.335	2.335 (0.290)	87	227822			0.00- 30.00	33.73
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	615216	25.0000	29.000	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	194028			2.26- 62.26	31.54
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	553644	25.0000	28.538	70.00- 130.00	100.00
2.557	2.557 (0.317)	52	158283			0.00- 30.00	28.59
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	453054	25.0000	28.946	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	141150			0.00- 30.00	31.16
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	445342	25.0000	30.149	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	559127			0.00- 30.00	125.55
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	253163	25.0000	28.131	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	233331			64.97- 124.97	92.17
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	235096	25.0000	32.509	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	81330			0.00- 30.00	34.59
3.386	3.386 (0.420)	66	66651			0.00- 30.00	28.35
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	787065	25.0000	30.018	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	503771			34.72- 94.72	64.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	207256	25.0000	26.415	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	44174			0.00- 30.00	21.31
4.077	4.077 (0.506)	46	83605			0.00- 30.00	40.34
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	511759	25.0000	29.388	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	318227			34.83- 94.83	62.18
4.520	4.520 (0.561)	101	646108			99.93- 159.93	126.25
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	649228	25.0000	29.420	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	350177			22.58- 82.58	53.94
4.575	4.575 (0.568)	98	224449			3.77- 63.77	34.57
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	224959	25.0000	28.077	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	838908			0.00- 30.00	372.92
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1004421	25.0000	29.583	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	239532			0.00- 30.00	23.85
4.935	4.935 (0.612)	59	30583			0.00- 30.00	3.04
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1039652	25.0000	30.306	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	185091	25.0000	27.740	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	779940			0.00- 30.00	421.38
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	590751	25.0000	28.560	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	312723			23.12- 83.12	52.94
5.432	5.432 (0.674)	51	174210			0.00- 30.00	29.49
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	673633	25.0000	33.686	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	205002			0.50- 60.50	30.43
5.764	5.764 (0.715)	41	225789			0.00- 30.00	33.52
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	415239	25.0000	28.973	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	666654			134.04- 194.04	160.55
5.819	5.819 (0.722)	98	271166			0.00- 30.00	65.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane						CAS #: 110-54-3	
6.151	6.151 (0.763)	57	906369	25.0000	29.755	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	647726			0.00- 30.00	71.46
6.151	6.151 (0.763)	86	126720			0.00- 30.00	13.98
55 1,1-Dichloroethane						CAS #: 75-34-3	
6.593	6.593 (0.818)	63	799097	25.0000	30.284	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	230722			0.00- 59.38	28.87
67 2-Butanone						CAS #: 78-93-3	
7.672	7.672 (0.952)	72	212170	25.0000	29.190	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1243079			572.61- 632.61	585.89
7.672	7.672 (0.952)	57	86154			0.00- 30.00	40.61
66 cis-1,2-Dichloroethene						CAS #: 156-59-2	
7.617	7.617 (0.945)	61	614584	25.0000	29.068	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	435323			40.21- 100.21	70.83
7.617	7.617 (0.945)	98	282807			15.96- 75.96	46.02
70 Tetrahydrofuran						CAS #: 109-99-9	
8.031	8.031 (0.997)	42	748119	25.0000	27.034	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	191756			0.00- 55.28	25.63
8.031	8.031 (0.997)	72	219574			0.00- 30.00	29.35
72 Chloroform						CAS #: 67-66-3	
8.197	8.197 (1.017)	83	729470	25.0000	23.788	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	476001			35.62- 95.62	65.25
75 1,1,1-Trichloroethane						CAS #: 71-55-6	
8.446	8.446 (1.048)	97	730348	25.0000	30.941	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	453468			35.49- 95.49	62.09
74 Cyclohexane						CAS #: 110-82-7	
8.418	8.418 (1.045)	84	590995	25.0000	28.253	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	938244			127.74- 187.74	158.76
8.418	8.418 (1.045)	41	583474			65.80- 125.80	98.73
56 Vinyl Acetate						CAS #: 108-05-4	
6.676	6.676 (0.828)	86	115531	25.0000	30.934	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1599815			0.00- 30.00	1384.75
6.649	6.649 (0.825)	42	126013			0.00- 30.00	109.07
77 Carbon Tetrachloride						CAS #: 56-23-5	
8.667	8.667 (1.075)	119	646070	25.0000	30.114	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	664650			73.84- 133.84	102.88

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		
9.082	9.082 (1.127)	57	2848718	25.0000	29.476	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	922574			0.00- 30.00	32.39
9.082	9.082 (1.127)	41	779542			0.00- 30.00	27.36
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1375463	25.0000	23.099	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	330623			0.00- 30.00	24.04
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	544734	25.0000	30.279	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	165958			0.00- 30.00	30.47
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	167533	25.0000	28.350	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1248147			0.00- 30.00	745.02
9.497	9.497 (0.958)	71	497356			0.00- 30.00	296.87
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	558258	25.0000	29.382	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	566693			75.19- 135.19	101.51
10.326	10.326 (1.042)	97	363547			35.92- 95.92	65.12
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	555939	25.0000	29.422	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	402232			42.36- 102.36	72.35
10.852	10.852 (1.095)	41	363422			36.24- 96.24	65.37
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	350948	25.0000	28.627	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	298406			55.93- 115.93	85.03
11.073	11.073 (1.117)	57	88126			0.00- 30.00	25.11
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	761578	25.0000	29.419	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	491752			34.29- 94.29	64.57
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	690130	25.0000	30.446	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	215003			2.88- 62.88	31.15
12.317	12.317 (1.243)	39	480138			38.55- 98.55	69.57
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	541139	25.0000	29.220	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	1509982			0.00- 30.00	279.04
12.593	12.593 (1.271)	85	197348			0.00- 30.00	36.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1627333	25.0000	29.103	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	976831			28.92- 88.92	60.03
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	644342	25.0000	29.987	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	208030			2.45- 62.45	32.29
13.368	13.368 (0.891)	39	459219			41.02- 101.02	71.27
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	562827	25.0000	29.329	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	347978			33.86- 93.86	61.83
13.644	13.644 (0.910)	83	470221			54.90- 114.90	83.55
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	684916	25.0000	29.780	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	511377			44.47- 104.47	74.66
13.699	13.699 (0.913)	131	502992			41.24- 101.24	73.44
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	751860	25.0000	28.137	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1533138			172.69- 232.69	203.91
14.031	14.031 (0.935)	100	128106			0.00- 30.00	17.04
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	746841	25.0000	30.144	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	569811			0.00- 30.00	76.30
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	866667	25.0000	29.757	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	813554			65.04- 125.04	93.87
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1312630	25.0000	29.190	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	421253			2.03- 62.03	32.09
15.027	15.027 (1.002)	77	750815			26.76- 86.76	57.20
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	743595	25.0000	29.224	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	2210796			0.00- 30.00	297.31
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	933577	25.0000	29.259	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1747834			0.00- 30.00	187.22
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	860923	25.0000	28.470	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1709874			169.15- 229.15	198.61
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1416100	25.0000	24.544	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	622017			12.91- 72.91	43.92
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	692727	25.0000	30.212	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	367017			21.95- 81.95	52.98
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1213335	25.0000	28.307	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	769726			34.75- 94.75	63.44
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2531446	25.0000	29.175	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	780584			1.07- 61.07	30.84
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2226801	25.0000	26.179	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1116828			0.00- 30.00	50.15
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1897034	25.0000	25.780	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	934522			18.96- 78.96	49.26
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1245925	25.0000	27.568	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	805734			0.00- 30.00	64.67
17.764	17.764 (1.184)	111	472161			0.00- 30.00	37.90
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1499957	25.0000	29.564	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	943527			0.00- 30.00	62.90
17.847	17.847 (1.190)	111	602094			0.00- 30.00	40.14
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2039591	25.0000	29.656	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	433155			0.00- 30.00	21.24
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1248132	25.0000	26.478	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	776503			33.15- 93.15	62.21
18.206	18.206 (1.214)	111	464543			7.43- 67.43	37.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	735438	25.0000	24.740	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	706828			65.53- 125.53	96.11
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	555725	25.0000	26.020	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	336795			32.61- 92.61	60.60
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2836232	25.0000	28.855	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	696394			0.00- 30.00	24.55
16.824	16.824 (1.122)	105	99566			0.00- 30.00	3.51
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2457808	25.0000	25.524	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	692715			0.00- 30.00	28.18
16.326	16.326 (1.088)	51	285950			0.00- 30.00	11.63
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2321174	25.0000	24.033	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	290492			0.00- 30.00	12.51
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	624314	25.0000	26.767	70.00- 130.00	100.00
5.570	5.570 (0.691)	41	159030			0.00- 30.00	25.47
5.570	5.570 (0.691)	57	67181			0.00- 30.00	10.76
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	118512	25.0000	25.194	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	979717			0.00- 30.00	826.68
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	725921	25.0000	28.461	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	426101			0.00- 30.00	58.70
3.414	3.414 (0.424)	72	34389			0.00- 30.00	4.74
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	878171	25.0000	28.872	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	424163			0.00- 30.00	48.30
10.547	10.547 (1.064)	55	869481			0.00- 30.00	99.01

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040908.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	243717	-0.74
92 1,4-Difluorobenze	1111535	666921	1556149	1102019	-0.86
125 Chlorobenzene-d5	1171390	702834	1639946	1164805	-0.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

0145

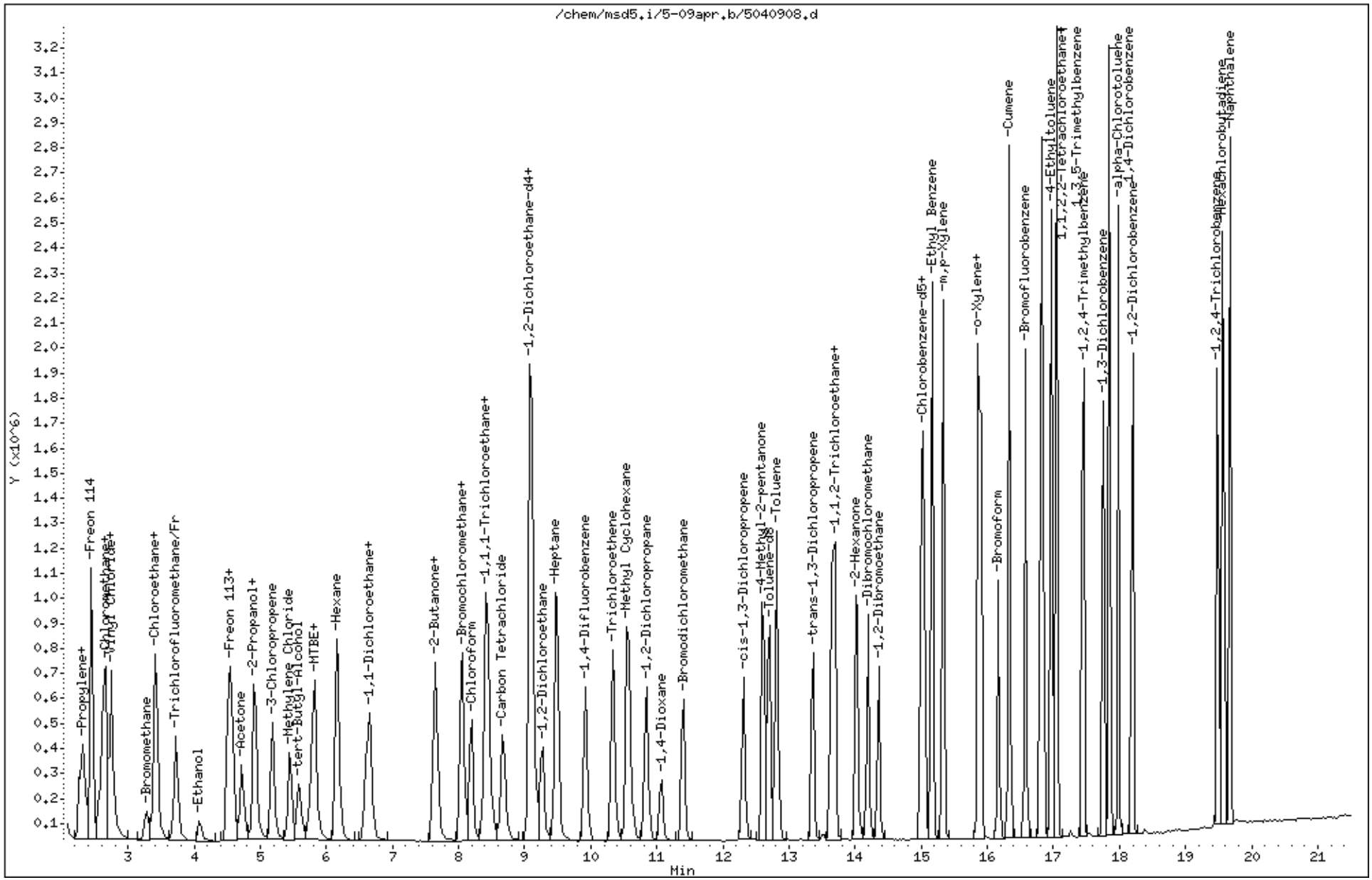
Data File: /chem/msd5.i/5-09apr.b/5040908.d
Date : 09-APR-2008 13:15
Client ID: Level 4
Sample Info: 25mL #1576-326

Instrument: msd5.i

Operator: ct

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041007.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 5
Inj Date : 10-APR-2008 12:20
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-319
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 11-Apr-2008 07:33 ctaylor Quant Type: ISTD
Cal Date : 10-APR-2008 12:20 Cal File: 5041007.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19a.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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	226586	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	176398			45.23- 105.23	77.85
8.059	8.059 (1.000)	49	451097			169.46- 229.46	199.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	995351	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	150856			0.00- 44.71	15.16
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1081190	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	546698			0.00- 30.00	50.56
7 Isobutane					CAS #: 75-28-5		
2.474	2.474 (0.307)	43	1779871	50.0000	50.000	80.00- 120.00	100.00
2.474	2.474 (0.307)	42	583778			0.00- 30.00	32.80
2.474	2.474 (0.307)	58	45549			0.00- 30.00	2.56
18 Pentane					CAS #: 109-66-0		
3.801	3.801 (0.472)	43	1810831	50.0000	50.000	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.472)	57	229991			0.00- 30.00	12.70
3.801	3.801 (0.472)	72	130955			0.00- 30.00	7.23
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	235416	50.0000	50.000	80.00- 120.00	100.00
4.492	4.492 (0.557)	56	356574			0.00- 30.00	151.47
34 Acetonitrile					CAS #: 75-05-8		
5.294	5.294 (0.657)	41	773779	50.0000	50.000	80.00- 120.00	100.00
5.294	5.294 (0.657)	38	94567			0.00- 30.00	12.22
5.294	5.294 (0.657)	40	435863			0.00- 30.00	56.33
39 Acrylonitrile					CAS #: 107-13-1		
5.958	5.958 (0.739)	53	818017	50.0000	50.000	80.00- 120.00	100.00
5.958	5.958 (0.739)	52	598553			0.00- 30.00	73.17
42 1-Pentene					CAS #: 109-67-1		
3.746	3.746 (0.465)	55	921011	50.0000	50.000	80.00- 120.00	100.00(T)
3.746	3.746 (0.465)	42	2376871			0.00- 30.00	258.07
0.000	3.746 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.161	4.161 (0.516)	74	349123	50.0000	50.000	80.00- 120.00	100.00(T)
4.161	4.161 (0.516)	59	583247			0.00- 30.00	167.06
0.000	4.161 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.852	4.852 (0.602)	142	1534387	50.0000	50.000	80.00- 120.00	100.00
4.852	4.852 (0.602)	127	516121			0.00- 30.00	33.64
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.750)	55	656694	50.0000	50.000	80.00- 120.00	100.00
6.041	6.041 (0.750)	41	1152687			0.00- 30.00	175.53
6.041	6.041 (0.750)	84	207523			0.00- 30.00	31.60
62 Methyl Acrylate					CAS #: 96-33-3		
7.783	7.783 (0.966)	55	1708867	50.0000	50.000	80.00- 120.00	100.00
7.810	7.783 (0.969)	85	210992			0.00- 30.00	12.35
7.783	7.783 (0.966)	58	144835			0.00- 30.00	8.48
86 2-Pentanone					CAS #: 107-87-9		
10.796	10.796 (1.089)	43	3058933	50.0000	50.000	80.00- 120.00	100.00
10.796	10.796 (1.089)	58	214271			0.00- 30.00	7.00
10.796	10.796 (1.089)	86	401320			0.00- 30.00	13.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
88 Ethyl Acrylate					CAS #: 140-88-5		
10.630	10.630 (1.073)	55	2378709	50.0000	50.000	80.00- 120.00	100.00
10.630	10.630 (1.073)	99	141867			0.00- 30.00	5.96
10.630	10.630 (1.073)	45	235005			0.00- 30.00	9.88
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	800130	50.0000	50.000	80.00- 120.00	100.00
11.073	11.073 (1.117)	93	779828			0.00- 30.00	97.46
11.073	11.073 (1.117)	95	653770			0.00- 30.00	81.71
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	1660995	50.0000	50.000	80.00- 120.00	100.00
11.073	11.073 (1.117)	69	898628			0.00- 30.00	54.10
11.073	11.073 (1.117)	100	355352			0.00- 30.00	21.39
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	341646	50.0000	50.000	80.00- 120.00	100.00
16.879	16.879 (1.125)	53	622859			0.00- 30.00	182.31
16.879	16.879 (1.125)	124	120344			0.00- 30.00	35.22
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	1965161	50.0000	50.000	80.00- 120.00	100.00
17.294	17.294 (1.153)	103	1077472			0.00- 30.00	54.83
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	1759543	50.0000	50.000	80.00- 120.00	100.00
17.709	17.709 (1.181)	95	565720			0.00- 30.00	32.15
17.709	17.709 (1.181)	63	1427971			0.00- 30.00	81.16
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	3049886	50.0000	50.000	80.00- 120.00	100.00
15.331	15.331 (1.022)	57	2399080			0.00- 30.00	78.66
15.331	15.331 (1.022)	85	778594			0.00- 30.00	25.53
193 Cyclopentane					CAS #: 287-92-3		
5.405	5.405 (0.671)	70	424744	50.0000	50.000	80.00- 120.00	100.00
5.405	5.405 (0.671)	55	746534			0.00- 30.00	175.76

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041007.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 10-APR-2008
Calibration Time: 14:19
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	225889	135533	316245	226586	0.31
92 1,4-Difluorobenze	1007938	604763	1411113	995351	-1.25
125 Chlorobenzene-d5	1095270	657162	1533378	1081190	-1.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

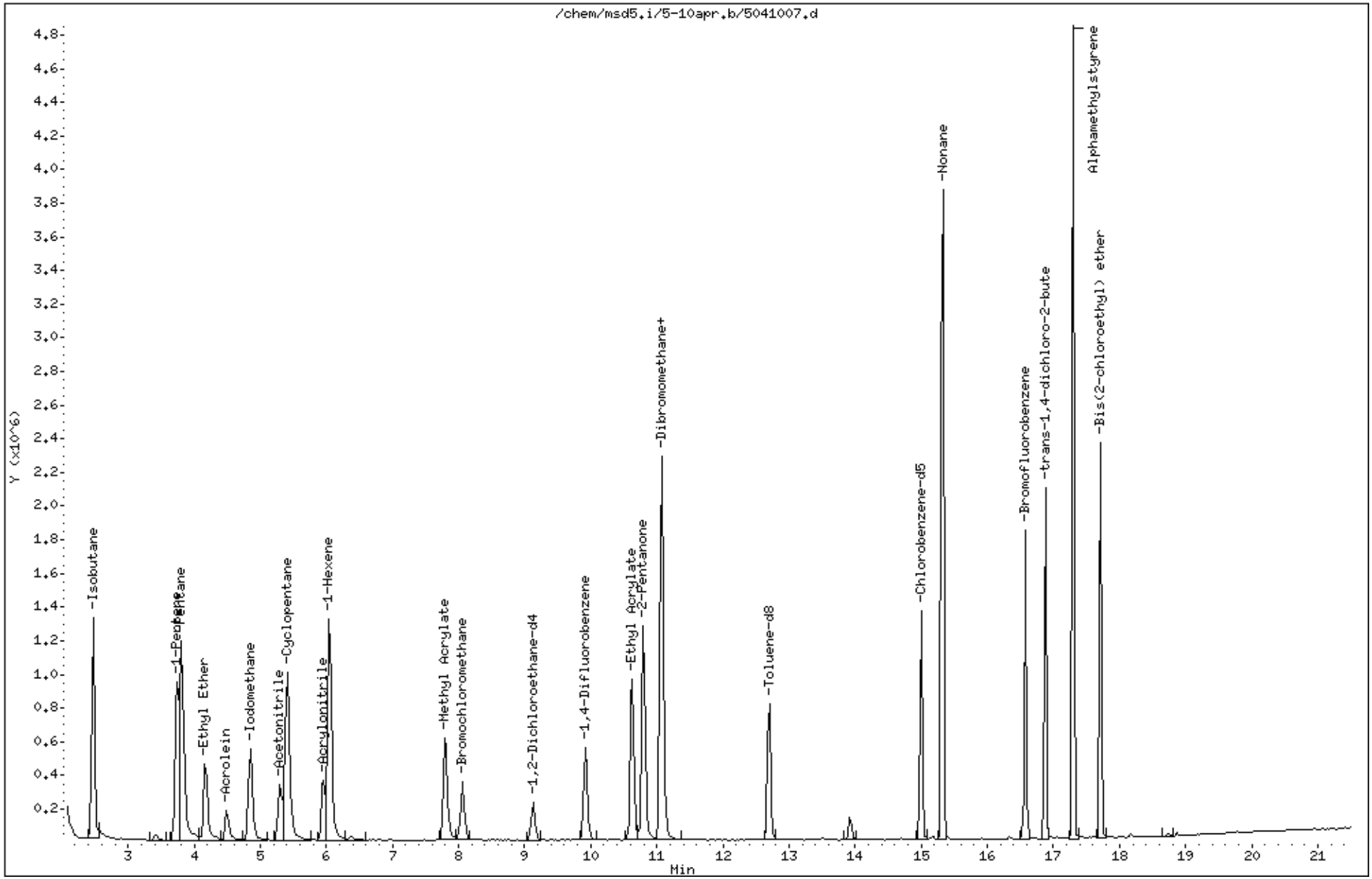
0150

Data File: /chem/msd5.i/5-10apr.b/5041007.d
Date : 10-APR-2008 12:20
Client ID: Level 5
Sample Info: 50mL #1576-319

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041003.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 5
Inj Date : 10-APR-2008 09:21
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-341
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 10-Apr-2008 14:03 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 09:21 Cal File: 5041003.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp35a.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	240974	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	183052			45.96- 105.96	75.96
8.059	8.059 (1.000)	49	472876			166.24- 226.24	196.24
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1048713	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	159251			0.00- 45.19	15.19
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1138308	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	561599			19.34- 79.34	49.34
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	502574	50.0000	50.000	80.00- 120.00	100.00
2.335	2.335 (0.290)	69	50388			0.00- 40.03	10.03
3 Freon 152a					CAS #: 75-37-6		
2.253	2.253 (0.280)	65	403458	50.0000	50.000	80.00- 120.00	100.00
2.335	2.335 (0.290)	51	2439917			574.75- 634.75	604.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.335	2.335 (0.290)	67	140046	50.0000	50.000	80.00- 120.00	100.00
2.335	2.335 (0.290)	51	2443272			1714.62-1774.62	1744.62
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	1232842	50.0000	50.000	80.00- 120.00	100.00
2.529	2.529 (0.314)	45	491356			9.86- 69.86	39.86
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.718	3.718 (0.461)	67	993631	50.0000	50.000	80.00- 120.00	100.00
3.718	3.718 (0.461)	69	309403			1.14- 61.14	31.14
3.856	3.856 (0.478)	35	1015			0.00- 30.10	0.10
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	486933	50.0000	50.000	80.00- 120.00	100.00
4.271	4.271 (0.530)	67	687434			111.18- 171.18	141.18
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	93522	50.0000	50.000	80.00- 120.00	100.00
4.409	4.409 (0.547)	133	14453			0.00- 45.45	15.45
4.382	4.382 (0.544)	85	73933			49.05- 109.05	79.05
49 Isopropyl ether					CAS #: 108-20-3		
6.593	6.593 (0.818)	45	3661073	50.0000	50.000	80.00- 120.00	100.00
6.593	6.593 (0.818)	87	628214			0.00- 47.16	17.16
6.593	6.593 (0.818)	59	321340			0.00- 38.78	8.78
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	2200011	50.0000	50.000	80.00- 120.00	100.00
7.202	7.202 (0.894)	87	737812			3.54- 63.54	33.54
7.202	7.202 (0.894)	41	476332			0.00- 51.65	21.65
61 Ethyl Acetate					CAS #: 141-78-6		
7.699	7.699 (0.955)	70	191495	50.0000	50.000	80.00- 120.00	100.00
7.699	7.699 (0.955)	43	2537350			1295.02-1355.02	1325.02
7.699	7.699 (0.955)	61	328443			141.52- 201.52	171.52
64 1-Propanol					CAS #: 71-23-8		
6.815	6.815 (0.846)	42	203770	50.0000	50.000	80.00- 120.00	100.00
6.815	6.815 (0.846)	59	190160			63.32- 123.32	93.32
6.815	6.815 (0.846)	41	138108			37.78- 97.78	67.78
76 Isobutanol					CAS #: 78-83-1		
9.082	9.082 (0.916)	43	1003401	50.0000	50.000	80.00- 120.00	100.00
9.082	9.082 (0.916)	41	701491			39.91- 99.91	69.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.275	9.275 (1.151)	73	1929860	50.0000	50.000	80.00- 120.00	100.00
9.275	9.275 (1.151)	87	475444			0.00- 54.64	24.64
9.275	9.275 (1.151)	55	670799			4.76- 64.76	34.76
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	806640	50.0000	50.000	80.00- 120.00	100.00
10.354	10.354 (1.045)	41	639378			49.26- 109.26	79.26
10.354	10.354 (1.045)	43	519905			34.45- 94.45	64.45
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	1229047	50.0000	50.000	80.00- 120.00	100.00
14.197	14.197 (1.432)	73	396193			2.24- 62.24	32.24
14.197	14.197 (1.432)	43	3223164			232.25- 292.25	262.25
131 2-Heptanone					CAS #: 110-43-0		
16.077	16.077 (1.072)	58	1814952	50.0000	50.000	80.00- 120.00	100.00
16.077	16.077 (1.072)	43	3175102			144.94- 204.94	174.94
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	1453076	50.0000	50.000	80.00- 120.00	100.00
16.520	16.520 (1.101)	98	538182			7.04- 67.04	37.04
16.520	16.520 (1.101)	42	1081508			44.43- 104.43	74.43
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	3729294	50.0000	50.000	80.00- 120.00	100.00
17.211	17.211 (1.147)	85	2699816			42.39- 102.39	72.39
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.893	13.893 (1.402)	76	1469664	50.0000	50.000	80.00- 120.00	100.00
13.893	13.893 (1.402)	41	1326803			60.28- 120.28	90.28
13.893	13.893 (1.402)	78	464576			1.61- 61.61	31.61
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.561	7.561 (0.938)	77	1205846	50.0000	50.000	80.00- 120.00	100.00
7.561	7.561 (0.938)	79	386490			2.05- 62.05	32.05
7.589	7.589 (0.942)	97	258496			0.00- 51.44	21.44
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.722	8.722 (1.082)	110	450060	50.0000	50.000	80.00- 120.00	100.00
8.722	8.722 (1.082)	75	1104749			215.47- 275.47	245.47
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.192	15.192 (1.013)	131	1036619	50.0000	50.000	80.00- 120.00	100.00
15.192	15.192 (1.013)	117	757728			43.10- 103.10	73.10
15.192	15.192 (1.013)	95	366104			5.32- 65.32	35.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	1391454	50.0000	50.000	80.00- 120.00	100.00
16.741	16.741 (1.116)	77	2226182			129.99- 189.99	159.99
16.741	16.741 (1.116)	158	1342316			66.47- 126.47	96.47
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.851	16.851 (1.123)	110	680422	50.0000	50.000	80.00- 120.00	100.00
16.851	16.851 (1.123)	61	501854			43.76- 103.76	73.76
16.851	16.851 (1.123)	112	428742			33.01- 93.01	63.01
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	1132640	50.0000	50.000	80.00- 120.00	100.00
16.962	16.962 (1.131)	91	3243685			256.38- 316.38	286.38
16.962	16.962 (1.131)	65	272484			0.00- 54.06	24.06
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	1119539	50.0000	50.000	80.00- 120.00	100.00
17.100	17.100 (1.140)	91	3123858			249.03- 309.03	279.03
17.100	17.100 (1.140)	63	364009			2.51- 62.51	32.51
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	4308887	50.0000	50.000	80.00- 120.00	100.00
17.377	17.377 (1.159)	134	1000171			0.00- 53.21	23.21
17.377	17.377 (1.159)	91	2410127			25.93- 85.93	55.93
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	891966	50.0000	50.000	80.00- 120.00	100.00
17.432	17.432 (1.162)	117	950925			76.61- 136.61	106.61
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	5550718	50.0000	50.000	80.00- 120.00	100.00
17.598	17.598 (1.173)	134	1026461			0.00- 48.49	18.49
17.598	17.598 (1.173)	91	806196			0.00- 44.52	14.52
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	1094102	50.0000	50.000	80.00- 120.00	100.00
17.764	17.764 (1.184)	119	4147659			349.09- 409.09	379.09
17.736	17.736 (1.182)	91	865541			49.11- 109.11	79.11
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.874	17.874 (1.192)	120	1642968	50.0000	50.000	80.00- 120.00	100.00
17.874	17.874 (1.192)	105	3554682			186.36- 246.36	216.36
17.874	17.874 (1.192)	77	362126			0.00- 52.04	22.04
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	906547	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
158 Butylbenzene (continued)							
18.123	18.123 (1.208)	91	3674464			375.33- 435.33	405.33
18.123	18.123 (1.208)	92	2021529			192.99- 252.99	222.99
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.870	18.870 (1.258)	157	935825	50.0000	50.000	80.00- 120.00	100.00
18.870	18.870 (1.258)	75	979355			74.65- 134.65	104.65
18.870	18.870 (1.258)	155	732901			48.32- 108.32	78.32

Report Date: 10-Apr-2008 14:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041003.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 10-APR-2008
Calibration Time: 09:21
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	240974	144584	337364	240974	0.00
92 1,4-Difluorobenze	1048713	629228	1468198	1048713	0.00
125 Chlorobenzene-d5	1138308	682985	1593631	1138308	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

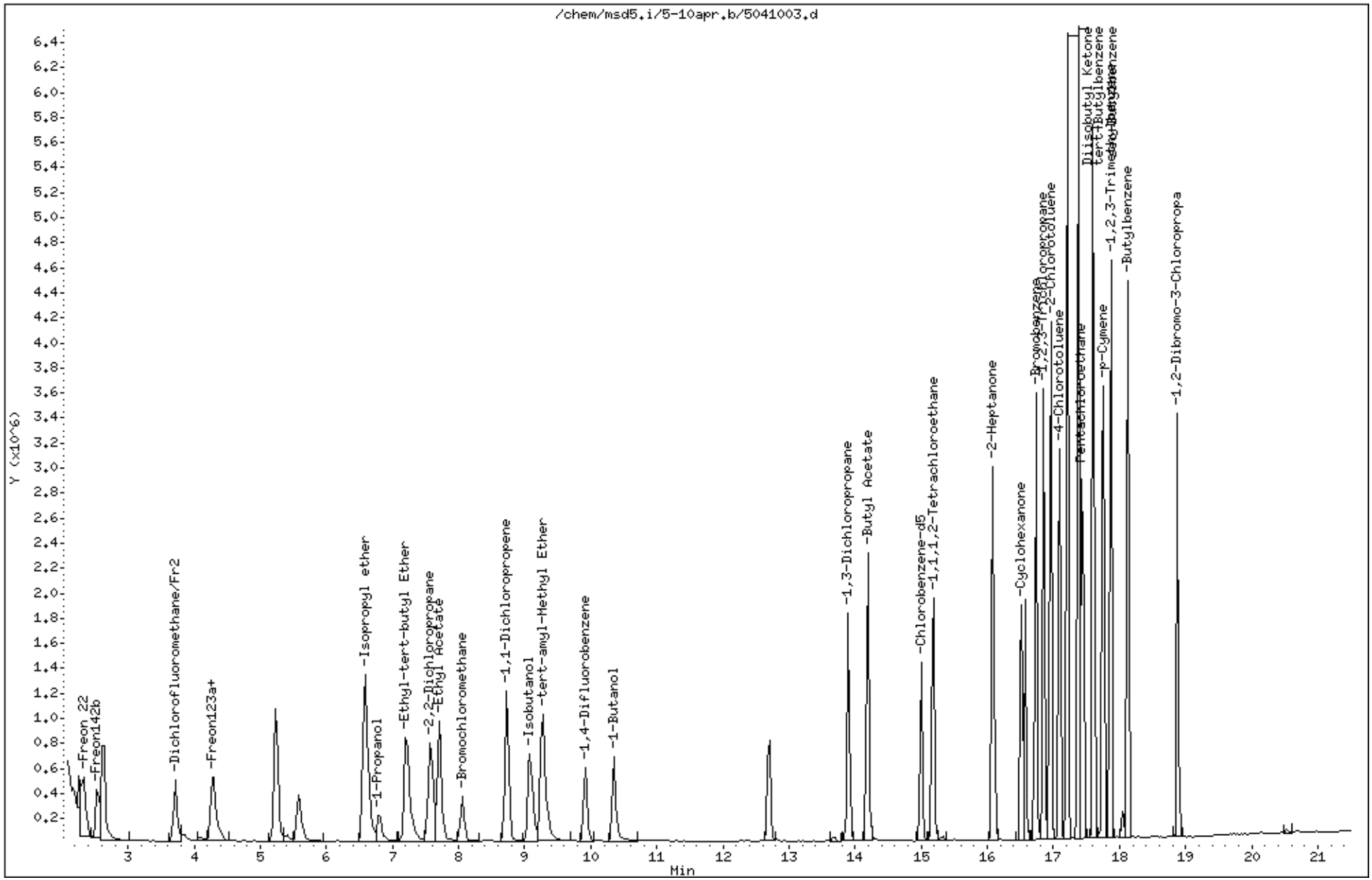
0157

Data File: /chem/msd5.i/5-10apr.b/5041003.d
Date : 10-APR-2008 09:21
Client ID: Level 5
Sample Info: 50mL #1576-341

Instrument: msd5.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040909.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 09-APR-2008 13:43
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-326
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 13:43 Cal File: 5040909.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	245525	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	193805			48.93- 108.93	78.93
8.059	8.059 (1.000)	49	503090			174.90- 234.90	204.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1111535	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	167410			0.00- 45.06	15.06
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1171390	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	590620			20.42- 80.42	50.42
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	333815	25.0000	25.888	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	193861			28.07- 88.07	58.07
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1157334	25.0000	25.068	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	108428			0.00- 39.37	9.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	817268			40.62- 100.62	70.62
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	699900	25.0000	24.916	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	948113			105.46- 165.46	135.46
16.575	16.575 (1.105)	176	680956			67.29- 127.29	97.29
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	815431	50.0000	54.733	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	539528			36.16- 96.16	66.16
2.253	2.253 (0.280)	39	594646			42.92- 102.92	72.92
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1264718	50.0000	52.421	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	416007			2.89- 62.89	32.89
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	1189575	50.0000	53.637	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	383723			2.26- 62.26	32.26
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1051868	50.0000	52.483	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	299448			0.00- 58.47	28.47
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	868521	50.0000	53.278	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	257841			0.00- 59.69	29.69
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	841428	50.0000	54.181	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1114974			102.51- 162.51	132.51
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	509276	50.0000	53.952	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	483665			64.97- 124.97	94.97
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	442049	50.0000	56.645	80.00- 120.00	100.00
3.386	3.386 (0.420)	49	147031			3.26- 63.26	33.26
3.414	3.414 (0.424)	66	133245			0.14- 60.14	30.14
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1507817	50.0000	54.510	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	975898			34.72- 94.72	64.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	385974	50.0000	49.215	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	87185			0.00- 52.59	22.59
4.078	4.078 (0.506)	46	154841			10.12- 70.12	40.12
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	973947	50.0000	53.548	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	631407			34.83- 94.83	64.83
4.520	4.520 (0.561)	101	1265438			99.93- 159.93	129.93
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1269091	50.0000	54.511	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	667252			22.58- 82.58	52.58
4.575	4.575 (0.568)	98	428591			3.77- 63.77	33.77
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	452164	50.0000	53.858	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1624449			329.26- 389.26	359.26
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1981772	50.0000	55.027	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	452758			0.00- 52.85	22.85
4.935	4.935 (0.612)	59	65432			0.00- 33.30	3.30
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2008383	50.0000	55.131	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	355945	50.0000	51.931	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	1514902			395.60- 455.60	425.60
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1120293	50.0000	52.447	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	595141			23.12- 83.12	53.12
5.460	5.460 (0.677)	51	341885			0.52- 60.52	30.52
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1335669	50.0000	59.801	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	407425			0.50- 60.50	30.50
5.764	5.764 (0.715)	41	481805			6.07- 66.07	36.07
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	802707	50.0000	53.597	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1316729			134.04- 194.04	164.04
5.819	5.819 (0.722)	98	516832			34.39- 94.39	64.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1705234	50.0000	53.580	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1272469			44.62- 104.62	74.62
6.179	6.179 (0.767)	86	232527			0.00- 43.64	13.64
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1518609	50.0000	54.536	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	446225			0.00- 59.38	29.38
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	401912	50.0000	53.155	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2421965			572.61- 632.61	602.61
7.672	7.672 (0.952)	57	166177			11.35- 71.35	41.35
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1164385	50.0000	53.018	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	817511			40.21- 100.21	70.21
7.644	7.644 (0.949)	98	535132			15.96- 75.96	45.96
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1451481	50.0000	51.358	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	366922			0.00- 55.28	25.28
8.031	8.031 (0.997)	72	412150			0.00- 58.40	28.40
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1374656	50.0000	45.756	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	902092			35.62- 95.62	65.62
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1371125	50.0000	54.858	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	897963			35.49- 95.49	65.49
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1142410	50.0000	52.732	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1802032			127.74- 187.74	157.74
8.418	8.418 (1.045)	41	1094485			65.80- 125.80	95.80
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	217684	50.0000	54.977	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3126108			1406.08-1466.08	1436.08
6.649	6.649 (0.825)	42	250055			84.87- 144.87	114.87
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1242392	50.0000	54.752	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1290046			73.84- 133.84	103.84

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		
9.082	9.082 (1.127)	57	5494527	50.0000	54.113	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	1782585			2.44- 62.44	32.44
9.082	9.082 (1.127)	41	1505203			0.00- 57.39	27.39
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2619409	50.0000	45.051	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	606933			0.00- 53.17	23.17
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1054944	50.0000	55.146	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	327364			1.03- 61.03	31.03
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	322755	50.0000	52.692	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2402435			714.35- 774.35	744.35
9.497	9.497 (0.958)	71	958735			267.05- 327.05	297.05
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1055437	50.0000	53.272	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1110227			75.19- 135.19	105.19
10.326	10.326 (1.042)	97	695695			35.92- 95.92	65.92
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1066630	50.0000	53.825	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	771849			42.36- 102.36	72.36
10.852	10.852 (1.095)	41	706533			36.24- 96.24	66.24
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	673374	50.0000	52.886	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	578626			55.93- 115.93	85.93
11.073	11.073 (1.117)	57	173299			0.00- 55.74	25.74
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1483623	50.0000	54.349	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	953855			34.29- 94.29	64.29
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1295910	50.0000	54.264	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	426050			2.88- 62.88	32.88
12.317	12.317 (1.243)	39	888352			38.55- 98.55	68.55
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1032926	50.0000	53.412	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2885014			249.31- 309.31	279.31
12.594	12.594 (1.271)	85	373727			6.18- 66.18	36.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3164846	50.0000	53.917	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1864657			28.92- 88.92	58.92
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1247936	50.0000	54.914	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	404927			2.45- 62.45	32.45
13.368	13.368 (0.891)	39	886230			41.02- 101.02	71.02
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1040275	50.0000	52.536	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	664320			33.86- 93.86	63.86
13.644	13.644 (0.910)	83	883215			54.90- 114.90	84.90
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1304552	50.0000	54.094	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	971520			44.47- 104.47	74.47
13.700	13.700 (0.913)	131	929418			41.24- 101.24	71.24
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1454560	50.0000	52.679	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2948285			172.69- 232.69	202.69
14.031	14.031 (0.935)	100	255200			0.00- 47.54	17.54
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1481281	50.0000	55.927	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1151837			47.76- 107.76	77.76
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1675532	50.0000	54.583	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1592421			65.04- 125.04	95.04
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2469806	50.0000	52.985	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	791138			2.03- 62.03	32.03
15.027	15.027 (1.002)	77	1401967			26.76- 86.76	56.76
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1408914	50.0000	53.264	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4266674			272.83- 332.83	302.83
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1789526	50.0000	53.704	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3357915			157.64- 217.64	187.64
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1649346	50.0000	52.746	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)							
15.856	15.856 (1.057)	91	3284725			169.15- 229.15	199.15
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2769723	50.0000	48.282	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1188570			12.91- 72.91	42.91
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1401743	50.0000	56.712	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	728194			21.95- 81.95	51.95
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2341117	50.0000	52.793	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1515786			34.75- 94.75	64.75
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4985129	50.0000	54.539	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1549072			1.07- 61.07	31.07
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4354349	50.0000	50.675	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2246339			21.59- 81.59	51.59
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3688788	50.0000	49.886	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1805979			18.96- 78.96	48.96
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2439199	50.0000	52.386	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1580323			34.79- 94.79	64.79
17.764	17.764 (1.184)	111	923885			7.88- 67.88	37.88
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2997720	50.0000	55.514	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1887422			32.96- 92.96	62.96
17.847	17.847 (1.190)	111	1182741			9.45- 69.45	39.45
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4213219	50.0000	56.784	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	915270			0.00- 51.72	21.72
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2412711	50.0000	50.594	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1523674			33.15- 93.15	63.15
18.206	18.206 (1.214)	111	903169			7.43- 67.43	37.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1506790	50.0000	50.268	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1439399			65.53- 125.53	95.53
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1075378	50.0000	50.046	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	673271			32.61- 92.61	62.61
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5451573	50.0000	53.320	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1304007			0.00- 53.92	23.92
16.824	16.824 (1.122)	105	201561			0.00- 33.70	3.70
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4714153	50.0000	49.004	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1337009			0.00- 58.36	28.36
16.326	16.326 (1.088)	51	548911			0.00- 41.64	11.64
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5367649	50.0000	53.389	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	658674			0.00- 42.27	12.27
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	1139862	50.0000	48.997	80.00- 120.00	100.00
5.571	5.571 (0.691)	41	294293			0.00- 55.82	25.82
5.571	5.571 (0.691)	57	113430			0.00- 39.95	9.95
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	218931	50.0000	47.400	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	1867023			822.79- 882.79	852.79
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1438165	50.0000	53.828	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	831452			27.81- 87.81	57.81
3.414	3.414 (0.424)	72	74382			0.00- 35.17	5.17
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1667080	50.0000	52.812	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	816332			18.97- 78.97	48.97
10.547	10.547 (1.064)	55	1683939			71.01- 131.01	101.01

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040909.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	245525	0.00
92 1,4-Difluorobenze	1111535	666921	1556149	1111535	0.00
125 Chlorobenzene-d5	1171390	702834	1639946	1171390	0.00

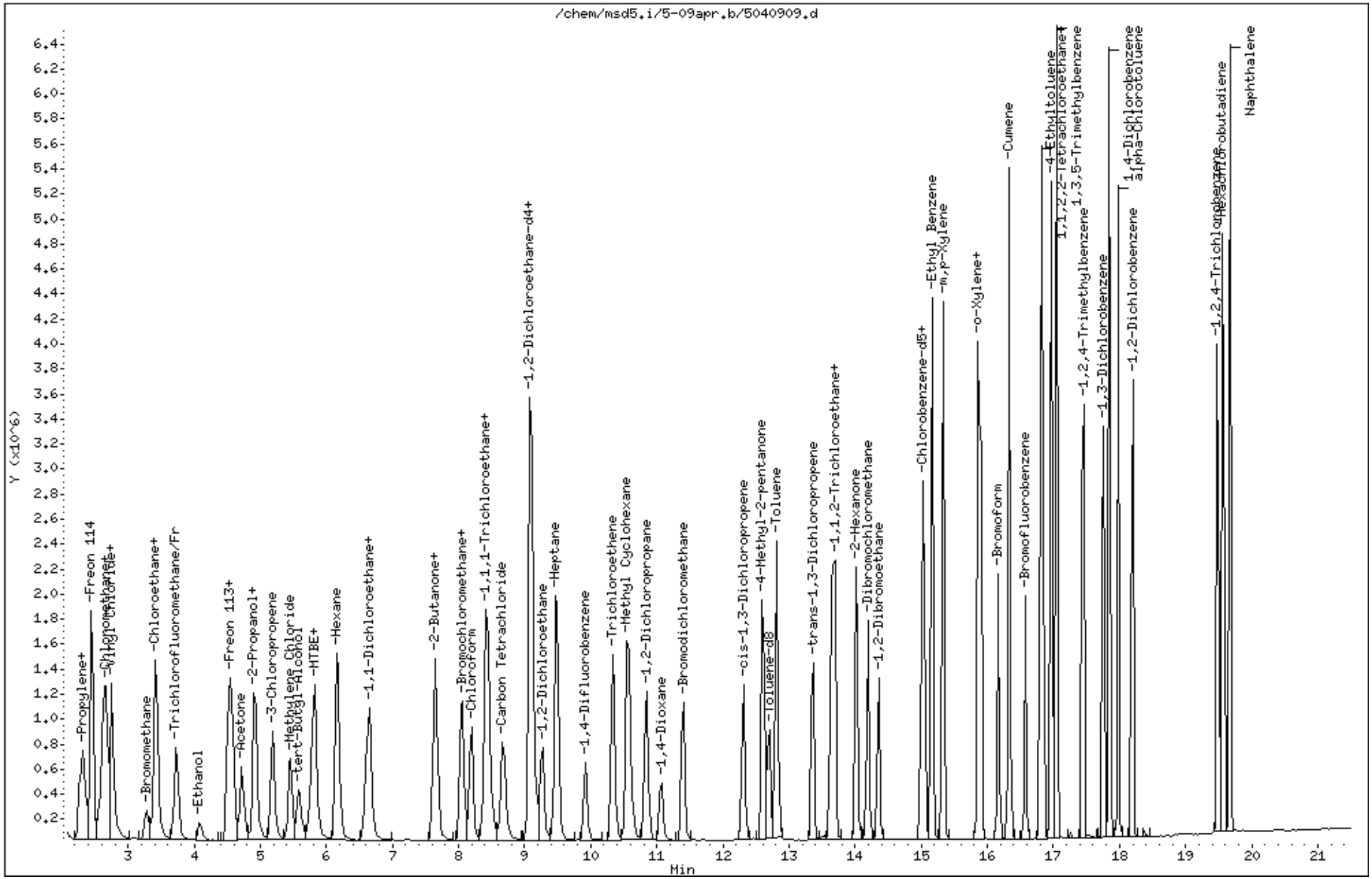
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-09apr.b/5040909.d
Date : 09-APR-2008 13:43
Client ID: Level 5
Sample Info: 50mL #1576-326

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040910.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 09-APR-2008 14:11
Operator : ct Inst ID: msd5.i
Smp Info : 100mL #1576-326
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 14:11 Cal File: 5040910.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	255427	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	203438			48.93- 108.93		79.65
8.059	8.059 (1.000)	49	529375			174.90- 234.90		207.25
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1159063	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	178125			0.00- 45.06		15.37
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1221223	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	618307			0.00- 30.00		50.63
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	356522	25.0000	26.164	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	234740			0.00- 30.00		65.84
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1213601	25.0000	25.156	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	118528			0.00- 30.00		9.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	880827			0.00- 30.00	72.58
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	749391	25.0000	25.440	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1024762			105.46- 165.46	136.75
16.575	16.575 (1.105)	176	717892			67.29- 127.29	95.80
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1588080	100.000	101.83	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	1046233			0.00- 30.00	65.88
2.253	2.253 (0.280)	39	1160370			0.00- 30.00	73.07
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2475513	100.000	98.969	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	805791			0.00- 30.00	32.55
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2333798	100.000	100.86	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	751444			2.26- 62.26	32.20
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	2085402	100.000	100.01	70.00- 130.00	100.00
2.585	2.585 (0.321)	52	577995			0.00- 30.00	27.72
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1711697	100.000	100.70	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	514578			0.00- 30.00	30.06
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1661041	100.000	102.09	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	2295281			0.00- 30.00	138.18
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1037956	100.000	104.21	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	983822			64.97- 124.97	94.78
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	859902	100.000	104.37	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	289794			0.00- 30.00	33.70
3.414	3.414 (0.424)	66	258842			0.00- 30.00	30.10
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	3002537	100.000	103.22	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	1962888			34.72- 94.72	65.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	705957	100.000	89.542	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	134549			0.00- 30.00	19.06
4.105	4.105 (0.509)	46	291796			0.00- 30.00	41.33
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1969309	100.000	103.03	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1254322			34.83- 94.83	63.69
4.520	4.520 (0.561)	101	2479224			99.93- 159.93	125.89
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2473716	100.000	101.59	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1321705			22.58- 82.58	53.43
4.575	4.575 (0.568)	98	859407			3.77- 63.77	34.74
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	905446	100.000	102.72	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	3271502			0.00- 30.00	361.31
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	3936113	100.000	103.74	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	883338			0.00- 30.00	22.44
4.935	4.935 (0.612)	59	134503			0.00- 30.00	3.42
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	4034560	100.000	104.77	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	715885	100.000	100.30	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	3036577			0.00- 30.00	424.17
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	2231250	100.000	100.30	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	1179789			23.12- 83.12	52.88
5.460	5.460 (0.678)	51	670200			0.00- 30.00	30.04
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	2845788	100.000	115.96	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	876326			0.50- 60.50	30.79
5.764	5.764 (0.715)	41	971653			0.00- 30.00	34.14
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	1609606	100.000	102.46	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	2627285			134.04- 194.04	163.23
5.820	5.820 (0.722)	98	1029215			0.00- 30.00	63.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	3382122	100.000	101.60	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	2519860			0.00- 30.00	74.51
6.179	6.179 (0.767)	86	462842			0.00- 30.00	13.68
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	3032445	100.000	103.47	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	903192			0.00- 59.38	29.78
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	821622	100.000	103.30	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	4852508			572.61- 632.61	590.60
7.672	7.672 (0.952)	57	328168			0.00- 30.00	39.94
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2345096	100.000	101.97	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	1622539			40.21- 100.21	69.19
7.644	7.644 (0.949)	98	1064470			15.96- 75.96	45.39
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2921211	100.000	99.515	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	744884			0.00- 55.28	25.50
8.031	8.031 (0.997)	72	812694			0.00- 30.00	27.82
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2752010	100.000	90.206	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1798103			35.62- 95.62	65.34
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2753177	100.000	104.35	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	1784987			35.49- 95.49	64.83
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	2301022	100.000	101.56	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	3638724			127.74- 187.74	158.14
8.419	8.419 (1.045)	41	2147660			65.80- 125.80	93.34
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	445429	100.000	105.98	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	6336640			0.00- 30.00	1422.59
6.649	6.649 (0.825)	42	486174			0.00- 30.00	109.15
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2564646	100.000	106.34	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	2639678			73.84- 133.84	102.93

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		
9.082	9.082 (1.127)	57	11105629	100.000	103.80	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	3624506			0.00- 30.00	32.64
9.082	9.082 (1.127)	41	3051511			0.00- 30.00	27.48
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	5286216	100.000	89.482	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1233749			0.00- 30.00	23.34
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	2146631	100.000	105.60	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	657860			0.00- 30.00	30.65
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	666806	100.000	103.26	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	4881761			0.00- 30.00	732.11
9.497	9.497 (0.958)	71	1940356			0.00- 30.00	290.99
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2168805	100.000	103.69	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2200839			75.19- 135.19	101.48
10.326	10.326 (1.042)	97	1392861			35.92- 95.92	64.22
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	2152924	100.000	103.11	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	1566535			42.36- 102.36	72.76
10.852	10.852 (1.095)	41	1411755			36.24- 96.24	65.57
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1379674	100.000	102.91	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1159785			55.93- 115.93	84.06
11.073	11.073 (1.117)	57	363068			0.00- 30.00	26.32
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3035293	100.000	104.89	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	1937443			34.29- 94.29	63.83
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2626294	100.000	104.04	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	846295			2.88- 62.88	32.22
12.317	12.317 (1.243)	39	1792904			38.55- 98.55	68.27
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	2094652	100.000	102.88	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	5853813			0.00- 30.00	279.46
12.594	12.594 (1.271)	85	735169			0.00- 30.00	35.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	6268584	100.000	101.80	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	3777095			28.92- 88.92	60.25
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2530200	100.000	105.01	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	810560			2.45- 62.45	32.04
13.368	13.368 (0.891)	39	1800399			41.02- 101.02	71.16
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2136929	100.000	102.61	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1341485			33.86- 93.86	62.78
13.644	13.644 (0.910)	83	1816856			54.90- 114.90	85.02
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	2648722	100.000	103.96	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	1994345			44.47- 104.47	75.29
13.700	13.700 (0.913)	131	1909433			41.24- 101.24	72.09
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2967972	100.000	102.31	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	5949092			172.69- 232.69	200.44
14.004	14.004 (0.934)	100	521563			0.00- 30.00	17.57
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3046162	100.000	107.54	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2349323			0.00- 30.00	77.12
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3367726	100.000	103.87	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3181529			65.04- 125.04	94.47
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	5026615	100.000	102.55	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1601978			2.03- 62.03	31.87
15.027	15.027 (1.002)	77	2851193			26.76- 86.76	56.72
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2833296	100.000	102.04	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	8477997			0.00- 30.00	299.23
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	3626256	100.000	103.25	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	6816608			0.00- 30.00	187.98
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3294802	100.000	100.80	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	6604712			169.15- 229.15	200.46
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	5483598	100.000	93.239	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	2410332			12.91- 72.91	43.96
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2960307	100.000	110.76	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1550949			21.95- 81.95	52.39
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	4800205	100.000	102.84	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3119034			34.75- 94.75	64.98
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	10214017	100.000	105.29	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	3175405			1.07- 61.07	31.09
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	8875387	100.000	99.259	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	4581413			0.00- 30.00	51.62
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	7545324	100.000	98.294	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	3654407			18.96- 78.96	48.43
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4958579	100.000	101.60	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3163886			0.00- 30.00	63.81
17.764	17.764 (1.184)	111	1885920			0.00- 30.00	38.03
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	6182236	100.000	107.18	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	3951665			0.00- 30.00	63.92
17.847	17.847 (1.190)	111	2401341			0.00- 30.00	38.84
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	8969074	100.000	111.50	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1961538			0.00- 30.00	21.87
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	4918757	100.000	99.199	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3160617			33.15- 93.15	64.26
18.206	18.206 (1.214)	111	1888370			7.43- 67.43	38.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	3321410	100.000	104.64	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3148145			65.53- 125.53	94.78
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2288145	100.000	101.60	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1432025			32.61- 92.61	62.58
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	11235859	100.000	104.00	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2645932			0.00- 30.00	23.55
16.824	16.824 (1.122)	105	414713			0.00- 30.00	3.69
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	9691634	100.000	97.289	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2679251			0.00- 30.00	27.64
16.326	16.326 (1.088)	51	1114313			0.00- 30.00	11.50
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	11468497	100.000	106.90	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1463990			0.00- 30.00	12.77
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2024806	100.000	87.225	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	532995			0.00- 30.00	26.32
5.571	5.571 (0.691)	57	212380			0.00- 30.00	10.49
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	428705	100.000	91.691	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	3631370			0.00- 30.00	847.06
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2892954	100.000	103.03	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1641513			0.00- 30.00	56.74
3.414	3.414 (0.424)	72	147573			0.00- 30.00	5.10
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	3337173	100.000	101.03	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	1638750			0.00- 30.00	49.11
10.548	10.548 (1.064)	55	3385508			0.00- 30.00	101.45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040910.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	255427	4.03
92 1,4-Difluorobenze	1111535	666921	1556149	1159063	4.28
125 Chlorobenzene-d5	1171390	702834	1639946	1221223	4.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

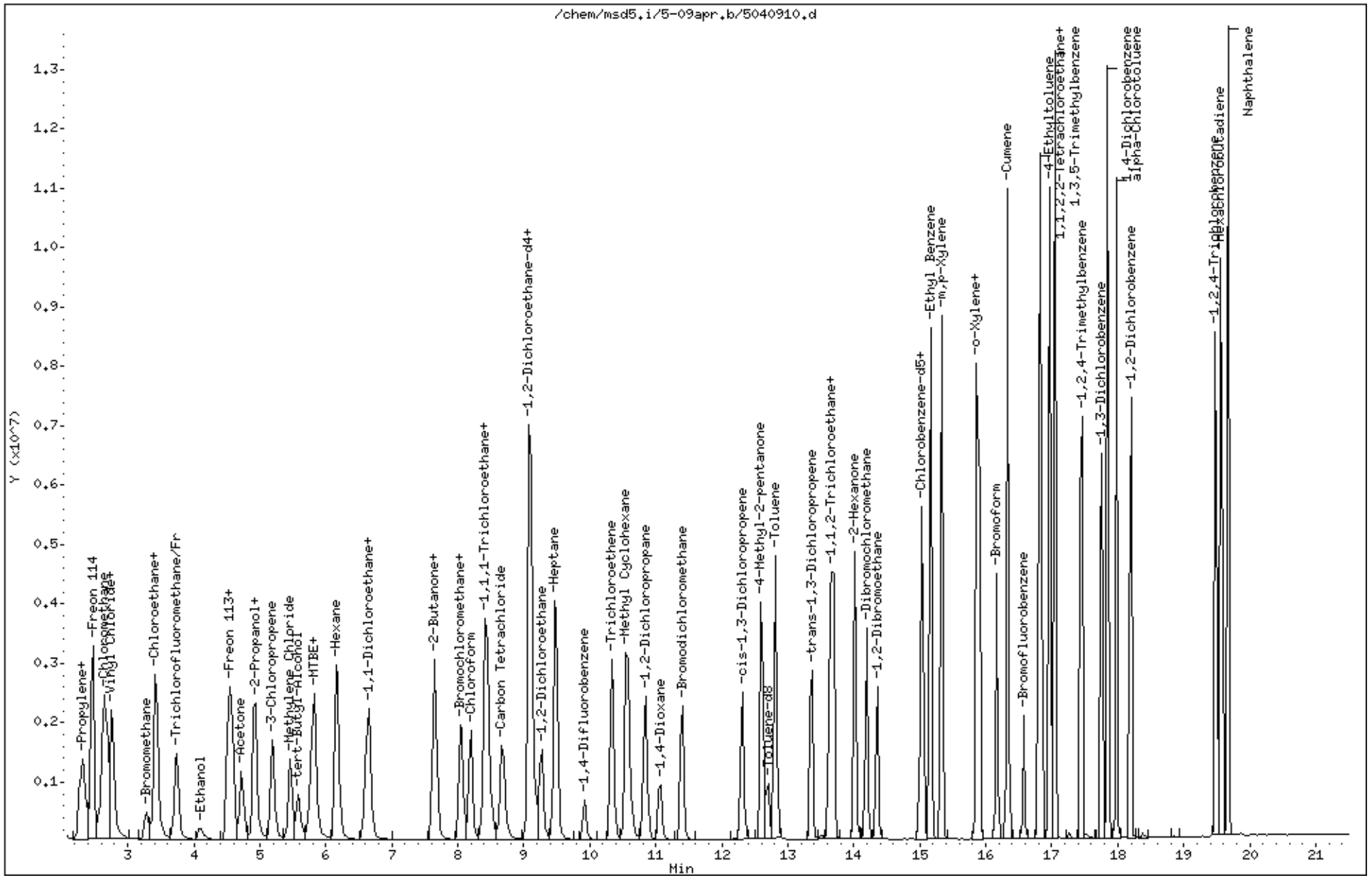
Data File: /chem/msd5.i/5-09apr.b/5040910.d
Date : 09-APR-2008 14:11
Client ID: Level 6
Sample Info: 100mL #1576-326

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

0177



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041008.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 7
Inj Date : 10-APR-2008 12:52
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1576-319
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 11-Apr-2008 07:33 ctaylor Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19a.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.087	8.059 (1.000)	130	236771	25.0000		80.00- 120.00		100.00
8.087	8.059 (1.000)	128	181097			45.23- 105.23		76.49
8.087	8.059 (1.000)	49	473962			169.46- 229.46		200.18
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.939	9.912 (1.000)	114	1005164	25.0000		80.00- 120.00		100.00
9.911	9.912 (1.000)	88	153240			0.00- 44.71		15.25
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1100580	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	552687			0.00- 30.00		50.22
7 Isobutane					CAS #: 75-28-5			
2.501	2.474 (0.309)	43	6814081	200.000	190.10	80.00- 120.00		100.00
2.501	2.474 (0.309)	42	2298904			0.00- 30.00		33.74
2.501	2.474 (0.309)	58	175195			0.00- 30.00		2.57
18 Pentane					CAS #: 109-66-0			
3.829	3.801 (0.473)	43	7581128	200.000	213.94	80.00- 120.00		100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.829	3.801 (0.473)	57	956309			0.00- 30.00	12.61
3.829	3.801 (0.473)	72	534931			0.00- 30.00	7.06
25 Acrolein					CAS #: 107-02-8		
4.520	4.492 (0.559)	55	1045330	200.000	233.35	80.00- 120.00	100.00(A)
4.520	4.492 (0.559)	56	1482869			0.00- 30.00	141.86
34 Acetonitrile					CAS #: 75-05-8		
5.294	5.294 (0.655)	41	1675561	200.000	143.62	80.00- 120.00	100.00
5.322	5.294 (0.658)	38	208657			0.00- 30.00	12.45
5.405	5.294 (0.668)	40	2079322			0.00- 30.00	124.10
39 Acrylonitrile					CAS #: 107-13-1		
5.958	5.958 (0.737)	53	3432505	200.000	218.12	80.00- 120.00	100.00(A)
5.958	5.958 (0.737)	52	2612820			0.00- 30.00	76.12
42 1-Pentene					CAS #: 109-67-1		
3.746	3.746 (0.463)	55	3693995	200.000	200.53	80.00- 120.00	100.00(TA)
3.746	3.746 (0.463)	42	9663828			0.00- 30.00	261.61
0.000	3.746 (0.000)	0	0			0.00- 30.00	0.00
44 Ethyl Ether					CAS #: 60-29-7		
4.188	4.161 (0.518)	74	1401038	200.000	208.67	80.00- 120.00	100.00(TA)
4.188	4.161 (0.518)	59	2412755			0.00- 30.00	172.21
0.000	4.161 (0.000)	31	0			0.00- 30.00	0.00
53 Iodomethane					CAS #: 74-88-4		
4.879	4.852 (0.603)	142	5510184	200.000	202.20	80.00- 120.00	100.00(A)
4.879	4.852 (0.603)	127	1853577			0.00- 30.00	33.64
58 1-Hexene					CAS #: 592-41-6		
6.040	6.041 (0.747)	55	2773187	200.000	203.82	80.00- 120.00	100.00(A)
6.040	6.041 (0.747)	41	4849994			0.00- 30.00	174.89
6.068	6.041 (0.750)	84	891101			0.00- 30.00	32.13
62 Methyl Acrylate					CAS #: 96-33-3		
7.782	7.783 (0.962)	55	7012634	200.000	225.39	80.00- 120.00	100.00(A)
7.810	7.783 (0.966)	85	885471			0.00- 30.00	12.63
7.782	7.783 (0.962)	58	628918			0.00- 30.00	8.97
86 2-Pentanone					CAS #: 107-87-9		
10.796	10.796 (1.086)	43	12579540	200.000	219.84	80.00- 120.00	100.00(A)
10.796	10.796 (1.086)	58	860157			0.00- 30.00	6.84
10.796	10.796 (1.086)	86	1679620			0.00- 30.00	13.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
88 Ethyl Acrylate					CAS #: 140-88-5		
10.630	10.630 (1.070)	55	9514557	200.000	219.21	80.00- 120.00	100.00(A)
10.630	10.630 (1.070)	99	584157			0.00- 30.00	6.14
10.603	10.630 (1.067)	45	985376			0.00- 30.00	10.36
95 Dibromomethane					CAS #: 74-95-3		
11.100	11.073 (1.117)	174	3337383	200.000	225.25	80.00- 120.00	100.00(A)
11.073	11.073 (1.114)	93	3205783			0.00- 30.00	96.06
11.073	11.073 (1.114)	95	2727382			0.00- 30.00	81.72
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.114)	41	6772673	200.000	219.88	80.00- 120.00	100.00(A)
11.073	11.073 (1.114)	69	3680601			0.00- 30.00	54.34
11.073	11.073 (1.114)	100	1478217			0.00- 30.00	21.83
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	1484634	200.000	234.02	80.00- 120.00	100.00(A)
16.879	16.879 (1.125)	53	2609159			0.00- 30.00	175.74
16.879	16.879 (1.125)	124	557636			0.00- 30.00	37.56
112 Alphamethylstyrene					CAS #: 98-83-9		
17.294	17.294 (1.153)	118	7948687	200.000	217.66	80.00- 120.00	100.00(A)
17.294	17.294 (1.153)	103	4385430			0.00- 30.00	55.17
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	7701016	200.000	223.70	80.00- 120.00	100.00(A)
17.709	17.709 (1.181)	95	2449453			0.00- 30.00	31.81
17.709	17.709 (1.181)	63	6197139			0.00- 30.00	80.47
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	12254684	200.000	214.86	80.00- 120.00	100.00(A)
15.331	15.331 (1.022)	57	9554547			0.00- 30.00	77.97
15.331	15.331 (1.022)	85	3092485			0.00- 30.00	25.24
193 Cyclopentane					CAS #: 287-92-3		
5.432	5.405 (0.672)	70	1762394	200.000	210.30	80.00- 120.00	100.00(A)
5.432	5.405 (0.672)	55	3049788			0.00- 30.00	173.05

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041008.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 10-APR-2008
Calibration Time: 14:19
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	225889	135533	316245	236771	4.82
92 1,4-Difluorobenze	1007938	604763	1411113	1005164	-0.28
125 Chlorobenzene-d5	1095270	657162	1533378	1100580	0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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.

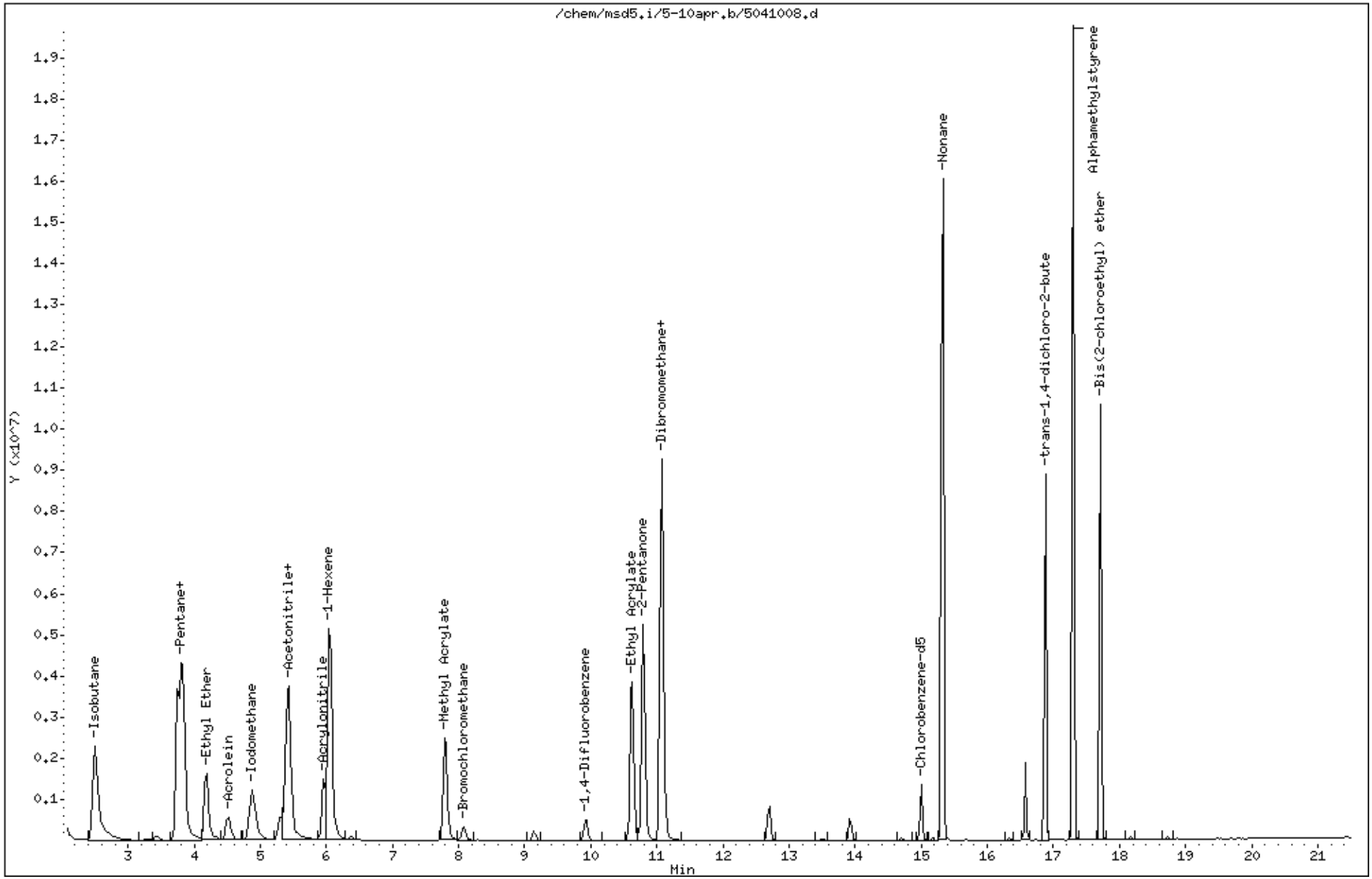
0182

Data File: /chem/msd5.i/5-10apr.b/5041008.d
Date : 10-APR-2008 12:52
Client ID: Level 7
Sample Info: 200mL #1576-319

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-10apr.b/5041004.d
Lab Smp Id: Sp ICAL Client Smp ID: Level 7
Inj Date : 10-APR-2008 09:53
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1576-341
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-10apr.b/t14q409a.m
Meth Date : 10-Apr-2008 14:03 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 09:53 Cal File: 5041004.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp35a.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.087	8.087 (1.000)	130	255952	25.0000		70.00- 130.00		100.00
8.087	8.087 (1.000)	128	201976			45.96- 105.96		78.91
8.059	8.059 (1.000)	49	510440			166.24- 226.24		199.43
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1121206	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	171387			0.00- 45.19		15.29
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1168251	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	578869			0.00- 30.00		49.55
1 Freon134a						CAS #: 811-97-2		
2.197	2.197 (0.272)	83	1939074	200.000	193.90	70.00- 130.00		100.00(T)
0.000	1.000 (0.000)	69	0			0.00- 30.00		0.00
3 Freon 152a						CAS #: 75-37-6		
2.280	2.280 (0.282)	65	1525058	200.000	194.72	70.00- 130.00		100.00
2.336	2.336 (0.289)	51	9809887			0.00- 30.00		643.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
4 Freon 22					CAS #: 75-45-6		
2.336	2.336 (0.289)	67	557605	200.000	198.52	70.00- 130.00	100.00
2.336	2.336 (0.289)	51	9841827			0.00- 30.00	1765.02
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.313)	65	5008067	200.000	207.63	70.00- 130.00	100.00(A)
2.529	2.529 (0.313)	45	1930967			0.00- 30.00	38.56
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.463)	67	3951316	200.000	205.36	70.00- 130.00	100.00(A)
3.746	3.746 (0.463)	69	1179676			0.00- 30.00	29.86
4.022	4.022 (0.497)	35	8056			0.00- 30.00	0.20
22 Freon123a					CAS #: 354-23-4		
4.299	4.299 (0.532)	117	2015496	200.000	210.99	70.00- 130.00	100.00(A)
4.299	4.299 (0.532)	67	2821852			0.00- 30.00	140.01
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.545)	83	349943	200.000	182.30	70.00- 130.00	100.00
4.409	4.409 (0.545)	133	61278			0.00- 30.00	17.51
4.299	4.299 (0.532)	85	1284257			0.00- 30.00	366.99
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.815)	45	14670688	200.000	213.03	70.00- 130.00	100.00(A)
6.594	6.594 (0.815)	87	2590135			0.00- 30.00	17.66
6.594	6.594 (0.815)	59	1259637			0.00- 30.00	8.59
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.891)	59	8517366	200.000	221.14	70.00- 130.00	100.00(A)
7.230	7.230 (0.894)	87	2834914			0.00- 30.00	33.28
7.202	7.202 (0.891)	41	1808565			0.00- 30.00	21.23
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.952)	70	788124	200.000	230.19	70.00- 130.00	100.00(A)
7.700	7.700 (0.952)	43	10670452			0.00- 30.00	1353.91
7.700	7.700 (0.952)	61	1354294			0.00- 30.00	171.84
64 1-Propanol					CAS #: 71-23-8		
6.815	6.815 (0.843)	42	846056	200.000	199.97	70.00- 130.00	100.00
6.815	6.815 (0.843)	59	833398			0.00- 30.00	98.50
6.815	6.815 (0.843)	41	626407			0.00- 30.00	74.04
76 Isobutanol					CAS #: 78-83-1		
9.082	9.082 (0.916)	43	4351502	200.000	219.84	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	41	3031334			0.00- 30.00	69.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 tert-amyl-Methyl Ether					CAS #: 994-05-8		
9.276	9.276 (1.147)	73	7064150	200.000	199.28	70.00- 130.00	100.00
9.276	9.276 (1.147)	87	1705382			0.00- 30.00	24.14
9.276	9.276 (1.147)	55	2389777			0.00- 30.00	33.83
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	3504614	200.000	204.12	70.00- 130.00	100.00(A)
10.354	10.354 (1.045)	41	2727016			0.00- 30.00	77.81
10.354	10.354 (1.045)	43	2206239			0.00- 30.00	62.95
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	4978110	200.000	206.66	70.00- 130.00	100.00(A)
14.197	14.197 (1.432)	73	1588704			0.00- 30.00	31.91
14.197	14.197 (1.432)	43	13227025			0.00- 30.00	265.70
131 2-Heptanone					CAS #: 110-43-0		
16.077	16.077 (1.072)	58	7608983	200.000	216.94	70.00- 130.00	100.00(A)
16.077	16.077 (1.072)	43	13286866			0.00- 30.00	174.62
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	6037857	200.000	205.34	70.00- 130.00	100.00(A)
16.520	16.520 (1.101)	98	2261460			0.00- 30.00	37.45
16.520	16.520 (1.101)	42	4583739			0.00- 30.00	75.92
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	15123516	200.000	197.82	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	11129437			42.39- 102.39	73.59
59 1,3-Dichloropropane					CAS #: 142-28-9		
13.893	13.893 (1.402)	76	5705798	200.000	206.16	70.00- 130.00	100.00(A)
13.893	13.893 (1.402)	41	5244014			60.28- 120.28	91.91
13.893	13.893 (1.402)	78	1828178			0.00- 30.00	32.04
60 2,2-Dichloropropane					CAS #: 594-20-7		
7.589	7.589 (0.938)	77	4997575	200.000	224.85	70.00- 130.00	100.00(A)
7.589	7.589 (0.938)	79	1584314			2.05- 62.05	31.70
7.589	7.589 (0.938)	97	1116184			0.00- 30.00	22.33
73 1,1-Dichloropropene					CAS #: 563-58-6		
8.750	8.750 (1.082)	110	1837397	200.000	211.22	70.00- 130.00	100.00(A)
8.723	8.723 (1.079)	75	4493104			0.00- 30.00	244.54
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	4226685	200.000	219.92	70.00- 130.00	100.00(A)
15.193	15.193 (1.013)	117	3120564			0.00- 30.00	73.83
15.193	15.193 (1.013)	95	1501235			0.00- 30.00	35.52

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
137 Bromobenzene					CAS #: 108-86-1		
16.741	16.741 (1.116)	156	5677279	200.000	221.28	70.00- 130.00	100.00(A)
16.741	16.741 (1.116)	77	9254489			129.99- 189.99	163.01
16.741	16.741 (1.116)	158	5489599			0.00- 30.00	96.69
139 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.852	16.852 (1.123)	110	2749887	200.000	217.35	70.00- 130.00	100.00(A)
16.852	16.852 (1.123)	61	2089628			0.00- 30.00	75.99
16.852	16.852 (1.123)	112	1713562			0.00- 30.00	62.31
140 2-Chlorotoluene					CAS #: 95-49-8		
16.962	16.962 (1.131)	126	4725402	200.000	219.58	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	91	13499508			256.38- 316.38	285.68
16.962	16.962 (1.131)	65	1149718			0.00- 30.00	24.33
143 4-Chlorotoluene					CAS #: 106-43-4		
17.100	17.100 (1.140)	126	4641201	200.000	214.76	70.00- 130.00	100.00(A)
17.100	17.100 (1.140)	91	13153907			249.03- 309.03	283.42
17.100	17.100 (1.140)	63	1532496			0.00- 30.00	33.02
149 tert-Butylbenzene					CAS #: 98-06-6		
17.377	17.377 (1.159)	119	19329861	200.000	228.36	70.00- 130.00	100.00(A)
17.377	17.377 (1.159)	134	4012047			0.00- 53.21	20.76
17.377	17.377 (1.159)	91	9650950			0.00- 30.00	49.93
150 Pentachloroethane					CAS #: 76-01-7		
17.460	17.460 (1.164)	167	3947321	200.000	237.70	70.00- 130.00	100.00(A)
17.432	17.432 (1.162)	117	4171042			0.00- 30.00	105.67
151 sec-Butylbenzene					CAS #: 135-98-8		
17.598	17.598 (1.173)	105	20065513	200.000	206.30	70.00- 130.00	100.00(A)
17.598	17.598 (1.173)	134	4293613			0.00- 48.49	21.40
17.598	17.598 (1.173)	91	3335462			0.00- 30.00	16.62
153 p-Cymene					CAS #: 99-87-6		
17.764	17.764 (1.184)	134	4804276	200.000	223.10	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	119	17954223			349.09- 409.09	373.71
17.764	17.764 (1.184)	91	3596172			0.00- 30.00	74.85
154 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.875	17.875 (1.192)	120	7094831	200.000	224.18	70.00- 130.00	100.00(A)
17.875	17.875 (1.192)	105	15315408			186.36- 246.36	215.87
17.875	17.875 (1.192)	77	1536494			0.00- 30.00	21.66
158 Butylbenzene					CAS #: 104-51-8		
18.151	18.151 (1.210)	134	3833904	200.000	217.10	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
158 Butylbenzene (continued)							
18.123	18.123 (1.208)	91	15366010			375.33- 435.33	400.79
18.123	18.123 (1.208)	92	8583475			0.00- 30.00	223.88
161 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.870	18.870 (1.258)	157	4223976	200.000	230.18	70.00- 130.00	100.00(A)
18.870	18.870 (1.258)	75	4386747			74.65- 134.65	103.85
18.870	18.870 (1.258)	155	3324775			0.00- 30.00	78.71

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5041004.d
Lab Smp Id: Sp ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-10apr.b/t14q409a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 10-APR-2008
Calibration Time: 09:21
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	240974	144584	337364	255952	6.22
92 1,4-Difluorobenze	1048713	629228	1468198	1121206	6.91
125 Chlorobenzene-d5	1138308	682985	1593631	1168251	2.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

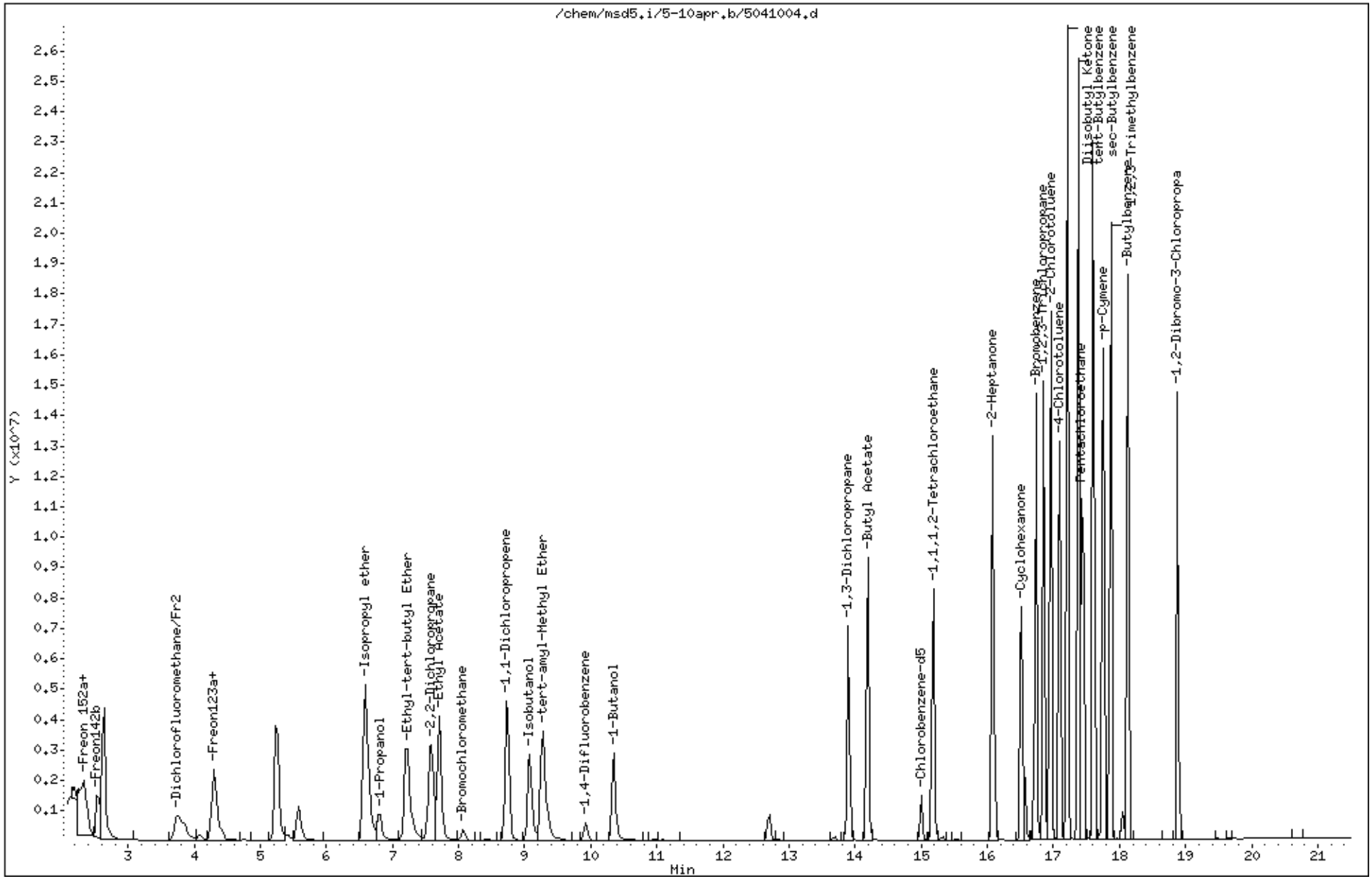
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-10apr.b/5041004.d
Date : 10-APR-2008 09:53
Client ID: Level 7
Sample Info: 200mL #1576-341

Instrument: msd5.i

Operator: ct

Column phase: RTx-624
Column diameter: 0.53



0189

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-09apr.b/5040911.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 09-APR-2008 14:44
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1576-326
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-09apr.b/t14q409a.m
Meth Date : 10-Apr-2008 08:27 ctaylor Quant Type: ISTD
Cal Date : 09-APR-2008 14:44 Cal File: 5040911.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.087	8.087 (1.000)	130	284122	25.0000		70.00- 130.00		100.00
8.087	8.087 (1.000)	128	218790			48.93- 108.93		77.01
8.059	8.059 (1.000)	49	573342			174.90- 234.90		201.79
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1215381	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	183940			0.00- 45.06		15.13
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1274796	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	658972			0.00- 30.00		51.69
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.130)	65	394866	25.0000	25.834	70.00- 130.00		100.00
9.137	9.137 (1.130)	67	297129			0.00- 30.00		75.25
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1278616	25.0000	25.220	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	120559			0.00- 30.00		9.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	1009896			0.00- 30.00	78.98
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	783136	25.0000	25.373	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1057119			105.46- 165.46	134.99
16.575	16.575 (1.105)	176	748571			67.29- 127.29	95.59
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.282)	41	3217856	200.000	188.23	70.00- 130.00	100.00
2.253	2.253 (0.279)	42	2144849			0.00- 30.00	66.65
2.253	2.253 (0.279)	39	2396692			0.00- 30.00	74.48
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.335 (0.289)	85	5643401	200.000	202.26	70.00- 130.00	100.00(A)
2.335	2.335 (0.289)	87	1816057			0.00- 30.00	32.18
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.306)	135	4799732	200.000	189.04	70.00- 130.00	100.00
2.474	2.474 (0.306)	137	1549164			2.26- 62.26	32.28
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.326)	50	4257144	200.000	186.62	70.00- 130.00	100.00
2.612	2.612 (0.323)	52	1204050			0.00- 30.00	28.28
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.344)	62	3492200	200.000	187.56	70.00- 130.00	100.00
2.778	2.778 (0.344)	64	1019688			0.00- 30.00	29.20
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.344)	54	3353534	200.000	188.07	70.00- 130.00	100.00
2.778	2.778 (0.344)	39	4893758			0.00- 30.00	145.93
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.405)	94	2194386	200.000	198.45	70.00- 130.00	100.00
3.276	3.276 (0.405)	96	2074960			64.97- 124.97	94.56
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.426)	64	1767143	200.000	194.22	70.00- 130.00	100.00
3.441	3.441 (0.426)	49	604973			0.00- 30.00	34.23
3.441	3.441 (0.426)	66	514634			0.00- 30.00	29.12
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.463)	101	6161263	200.000	192.26	70.00- 130.00	100.00
3.746	3.746 (0.463)	103	4026913			34.72- 94.72	65.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.508)	45	1426687	200.000	168.99	70.00- 130.00	100.00
4.105	4.105 (0.508)	43	254636			0.00- 30.00	17.85
4.133	4.133 (0.511)	46	594699			0.00- 30.00	41.68
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.562)	151	4083402	200.000	193.59	70.00- 130.00	100.00
4.547	4.547 (0.562)	153	2580770			34.83- 94.83	63.20
4.520	4.520 (0.559)	101	5128602			99.93- 159.93	125.60
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.569)	61	5115055	200.000	190.98	70.00- 130.00	100.00
4.603	4.603 (0.569)	96	2753473			22.58- 82.58	53.83
4.603	4.603 (0.569)	98	1768940			3.77- 63.77	34.58
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.586)	58	1853773	200.000	191.16	70.00- 130.00	100.00
4.741	4.741 (0.586)	43	6608523			0.00- 30.00	356.49
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.610)	45	8015412	200.000	191.86	70.00- 130.00	100.00
4.935	4.935 (0.610)	43	1829792			0.00- 30.00	22.83
4.935	4.935 (0.610)	59	257421			0.00- 30.00	3.21
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.610)	76	8315274	200.000	195.27	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.644)	76	1435606	200.000	184.35	70.00- 130.00	100.00
5.211	5.211 (0.644)	41	6246676			0.00- 30.00	435.12
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	4576686	200.000	187.79	70.00- 130.00	100.00
5.460	5.460 (0.675)	84	2434937			23.12- 83.12	53.20
5.460	5.460 (0.675)	51	1366939			0.00- 30.00	29.87
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.713)	73	5791875	200.000	209.62	70.00- 130.00	100.00(A)
5.764	5.764 (0.713)	57	1770770			0.50- 60.50	30.57
5.764	5.764 (0.713)	41	1978856			0.00- 30.00	34.17
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.723)	96	3311844	200.000	191.53	70.00- 130.00	100.00
5.847	5.847 (0.723)	61	5335194			134.04- 194.04	161.09
5.847	5.847 (0.723)	98	2111538			0.00- 30.00	63.76

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.764)	57	6890205	200.000	188.71	70.00- 130.00	100.00
6.151	6.151 (0.761)	43	5171172			0.00- 30.00	75.05
6.179	6.179 (0.764)	86	948183			0.00- 30.00	13.76
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.819)	63	6222680	200.000	192.64	70.00- 130.00	100.00
6.621	6.621 (0.819)	65	1837233			0.00- 59.38	29.52
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.949)	72	1699396	200.000	193.62	70.00- 130.00	100.00
7.672	7.672 (0.949)	43	10045948			572.61- 632.61	591.15
7.672	7.672 (0.949)	57	693744			0.00- 30.00	40.82
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.945)	61	4870169	200.000	192.22	70.00- 130.00	100.00
7.644	7.644 (0.945)	96	3387094			40.21- 100.21	69.55
7.644	7.644 (0.945)	98	2187239			15.96- 75.96	44.91
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.993)	42	6036113	200.000	187.70	70.00- 130.00	100.00
8.031	8.031 (0.993)	71	1537912			0.00- 55.28	25.48
8.059	8.059 (0.997)	72	1694982			0.00- 30.00	28.08
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	5739753	200.000	173.60	70.00- 130.00	100.00
8.197	8.197 (1.014)	85	3771932			35.62- 95.62	65.72
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.044)	97	5719451	200.000	195.88	70.00- 130.00	100.00
8.446	8.446 (1.044)	99	3678918			35.49- 95.49	64.32
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.041)	84	4717272	200.000	189.61	70.00- 130.00	100.00
8.418	8.418 (1.041)	56	7424545			127.74- 187.74	157.39
8.418	8.418 (1.041)	41	4492978			65.80- 125.80	95.25
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.826)	86	917990	200.000	197.07	70.00- 130.00	100.00
6.649	6.649 (0.822)	43	13079328			0.00- 30.00	1424.78
6.649	6.649 (0.822)	42	1023271			0.00- 30.00	111.47
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.072)	119	5338641	200.000	199.21	70.00- 130.00	100.00
8.667	8.667 (1.072)	117	5517993			73.84- 133.84	103.36

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		
9.110	9.110 (1.127)	57	22331935	200.000	190.00	70.00- 130.00	100.00
9.110	9.110 (1.127)	56	7308253			0.00- 30.00	32.73
9.110	9.110 (1.127)	41	6098852			0.00- 30.00	27.31
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	10925270	200.000	179.91	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	2541145			0.00- 30.00	23.26
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	4340425	200.000	202.89	70.00- 130.00	100.00(A)
9.275	9.275 (0.936)	64	1344169			0.00- 30.00	30.97
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1307816	200.000	194.48	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	9827255			0.00- 30.00	751.42
9.497	9.497 (0.958)	71	3920175			0.00- 30.00	299.75
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	4456604	200.000	202.55	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	4515245			75.19- 135.19	101.32
10.326	10.326 (1.042)	97	2879121			35.92- 95.92	64.60
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	4406302	200.000	201.00	70.00- 130.00	100.00(A)
10.851	10.851 (1.095)	62	3157099			42.36- 102.36	71.65
10.851	10.851 (1.095)	41	2931148			36.24- 96.24	66.52
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	2819460	200.000	200.44	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	58	2376419			55.93- 115.93	84.29
11.073	11.073 (1.117)	57	733268			0.00- 30.00	26.01
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	6217059	200.000	203.89	70.00- 130.00	100.00(A)
11.404	11.404 (1.151)	85	4042033			34.29- 94.29	65.02
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	5421348	200.000	203.83	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1731108			2.88- 62.88	31.93
12.317	12.317 (1.243)	39	3762331			38.55- 98.55	69.40
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	4243748	200.000	199.01	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	12072882			0.00- 30.00	284.49
12.593	12.593 (1.271)	85	1565978			0.00- 30.00	36.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	12823837	200.000	198.88	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	7663810			28.92- 88.92	59.76
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	5302304	200.000	208.56	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1709948			2.45- 62.45	32.25
13.368	13.368 (0.891)	39	3757603			41.02- 101.02	70.87
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	4399631	200.000	201.91	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	2724089			33.86- 93.86	61.92
13.644	13.644 (0.910)	83	3717178			54.90- 114.90	84.49
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	5468443	200.000	204.46	70.00- 130.00	100.00(A)
13.699	13.699 (0.913)	129	4067287			44.47- 104.47	74.38
13.699	13.699 (0.913)	131	3900277			41.24- 101.24	71.32
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	6043355	200.000	199.65	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	12159210			172.69- 232.69	201.20
14.031	14.031 (0.935)	100	1100572			0.00- 30.00	18.21
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	6316220	200.000	210.75	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	4884592			0.00- 30.00	77.33
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	6971949	200.000	204.78	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	6600656			65.04- 125.04	94.67
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	10250999	200.000	200.28	70.00- 130.00	100.00(A)
15.054	15.054 (1.004)	114	3276390			2.03- 62.03	31.96
15.027	15.027 (1.002)	77	5858752			26.76- 86.76	57.15
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	5875386	200.000	202.16	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	17261747			0.00- 30.00	293.80
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	7307496	200.000	199.46	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	13696314			0.00- 30.00	187.43
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	6756985	200.000	198.42	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	13446156			169.15- 229.15	199.00
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	11209438	200.000	185.28	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	4841074			12.91- 72.91	43.19
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6137372	200.000	215.67	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3202752			21.95- 81.95	52.18
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	9594154	200.000	197.53	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	6170137			34.75- 94.75	64.31
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	20070147	200.000	198.56	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	6318619			1.07- 61.07	31.48
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16323548	200.000	178.62	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	8917183			0.00- 30.00	54.63
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	15069144	200.000	189.95	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	7414227			18.96- 78.96	49.20
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	10037319	200.000	197.61	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	6387913			0.00- 30.00	63.64
17.764	17.764 (1.184)	111	3813146			0.00- 30.00	37.99
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	12267634	200.000	202.99	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	7809376			0.00- 30.00	63.66
17.847	17.847 (1.190)	111	4766024			0.00- 30.00	38.85
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14718928	200.000	179.73	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	3969917			0.00- 30.00	26.97
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	9883248	200.000	192.69	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	6363469			33.15- 93.15	64.39
18.206	18.206 (1.214)	111	3768884			7.43- 67.43	38.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	6831838	200.000	204.92	70.00- 130.00	100.00(A)
19.506	19.506 (1.300)	182	6488599			65.53- 125.53	94.98
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	4721084	200.000	200.65	70.00- 130.00	100.00(A)
19.589	19.589 (1.306)	223	2961529			32.61- 92.61	62.73
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	22017247	200.000	196.17	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	5393024			0.00- 30.00	24.49
16.824	16.824 (1.122)	105	829969			0.00- 30.00	3.77
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	18001694	200.000	177.08	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5463296			0.00- 30.00	30.35
16.326	16.326 (1.088)	51	2221860			0.00- 30.00	12.34
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15074999	200.000	144.03	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2935225			0.00- 30.00	19.47
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.689)	59	3281052	200.000	137.06	70.00- 130.00	100.00
5.570	5.570 (0.689)	41	863028			0.00- 30.00	26.30
5.570	5.570 (0.689)	57	341652			0.00- 30.00	10.41
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.333)	58	869375	200.000	172.84	70.00- 130.00	100.00
2.695	2.695 (0.333)	43	7366632			0.00- 30.00	847.35
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.426)	43	5858716	200.000	189.94	70.00- 130.00	100.00
3.441	3.441 (0.426)	57	3369829			0.00- 30.00	57.52
3.441	3.441 (0.426)	72	308848			0.00- 30.00	5.27
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	6834507	200.000	197.86	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	3310162			0.00- 30.00	48.43
10.575	10.575 (1.067)	55	6840295			0.00- 30.00	100.08

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: msd5.i
Lab File ID: 5040911.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-09apr.b/t14q409a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 09-APR-2008
Calibration Time: 13:43
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	245525	147315	343735	284122	15.72
92 1,4-Difluorobenze	1111535	666921	1556149	1215381	9.34
125 Chlorobenzene-d5	1171390	702834	1639946	1274796	8.83

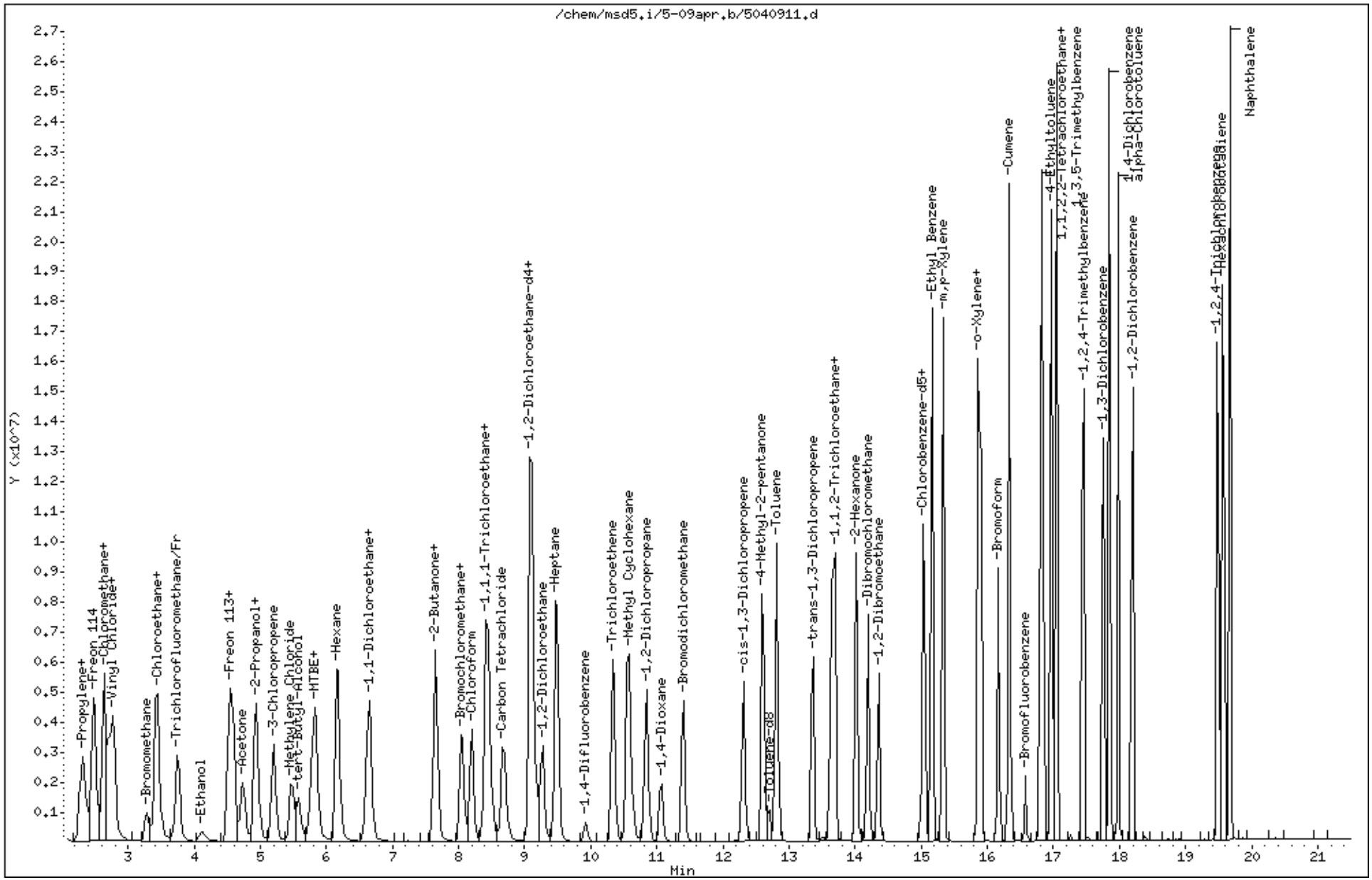
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.34
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/msd5.i/5-09apr.b/5040911.d
Date : 09-APR-2008 14:44
Client ID: Level 7
Sample Info: 200mL #1576-326

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



0199

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804255-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 08:06 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	107
Vinyl Chloride	96
Bromomethane	96
Chloroethane	103
Freon 11	110
1,1-Dichloroethene	98
Freon 113	104
Methylene Chloride	94
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	95
Chloroform	93
1,1,1-Trichloroethane	108
Carbon Tetrachloride	109
Benzene	87
1,2-Dichloroethane	125
Trichloroethene	102
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	115
Toluene	108
trans-1,3-Dichloropropene	117
1,1,2-Trichloroethane	97
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	106
Chlorobenzene	99
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	101
Styrene	92
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	87
1,3-Butadiene	91
Hexane	85
Cyclohexane	89

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804255-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 08:06 AM**	

Compound	%Recovery
Heptane	93
Bromodichloromethane	119
Dibromochloromethane	118
Cumene	102
Propylbenzene	109
Chloromethane	104
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	87
Acetone	91
Carbon Disulfide	98
2-Propanol	88
trans-1,2-Dichloroethene	94
2-Butanone (Methyl Ethyl Ketone)	90
Tetrahydrofuran	128
1,4-Dioxane	92
4-Methyl-2-pentanone	105
2-Hexanone	93
Bromoform	116
4-Ethyltoluene	106
Ethanol	88
Methyl tert-butyl ether	73
3-Chloropropene	90
2,2,4-Trimethylpentane	89
Naphthalene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-APR-2008 08:06
Lab File ID: 5042102.d Init. Cal. Date(s): 09-APR-2008 10-APR-2008
Analysis Type: AIR Init. Cal. Times: 11:52 12:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21apr.b/t14q409a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.33697	1.58925	0.010	-18.86992	30.00000	Averaged
$ 107 Toluene-d8	1.04734	1.15559	0.010	-10.33529	30.00000	Averaged
$ 138 Bromofluorobenzene	0.60103	0.60680	0.010	-0.96035	30.00000	Averaged
6 Propylene	1.50420	1.42134	0.010	5.50893	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.41282	2.45982	0.010	-1.94759	30.00000	Averaged
9 Freon 114	2.17502	2.32918	0.010	-7.08768	30.00000	Averaged
10 Chloromethane	2.00724	2.07974	0.010	-3.61173	30.00000	Averaged
13 Vinyl Chloride	1.60634	1.53919	0.010	4.17991	30.00000	Averaged
12 1,3-Butadiene	1.63756	1.49283	0.010	8.83852	30.00000	Averaged
15 Bromomethane	0.89300	0.85962	0.010	3.73849	30.00000	Averaged
19 Chloroethane	0.74975	0.77381	0.010	-3.20849	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	2.74161	3.01329	0.010	-9.90981	30.00000	Averaged
26 Ethanol	0.74286	0.65247	0.010	12.16840	30.00000	Averaged
30 Freon 113	1.79663	1.86533	0.010	-3.82422	30.00000	Averaged
31 1,1-Dichloroethene	2.26654	2.21947	0.010	2.07682	30.00000	Averaged
32 Acetone	0.85327	0.77447	0.010	9.23531	30.00000	Averaged
36 2-Propanol	3.67603	3.25023	0.010	11.58317	30.00000	Averaged
35 Carbon Disulfide	3.66354	3.59723	0.010	1.81013	30.00000	Averaged
38 3-Chloropropene	0.68520	0.61464	0.010	10.29771	30.00000	Averaged
43 Methylene Chloride	2.10010	1.97170	0.010	6.11395	30.00000	Averaged
46 MTBE	2.31782	1.70035	0.010	26.64027	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.54451	1.45534	0.010	5.77318	30.00000	Averaged
51 Hexane	3.22644	2.73933	0.010	15.09738	30.00000	Averaged
56 Vinyl Acetate	0.40987	0.37761	0.010	7.87194	30.00000	Averaged
55 1,1-Dichloroethane	2.76848	2.67161	0.010	3.49903	30.00000	Averaged
67 2-Butanone	0.73470	0.66379	0.010	9.65143	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.21300	2.09662	0.010	5.25891	30.00000	Averaged
70 Tetrahydrofuran	3.02034	3.86638	0.010	-28.01132	30.00000	Averaged
72 Chloroform	2.81878	2.63241	0.010	6.61155	30.00000	Averaged
75 1,1,1-Trichloroethane	2.45955	2.65629	0.010	-7.99914	30.00000	Averaged
74 Cyclohexane	2.22818	1.97471	0.010	11.37579	30.00000	Averaged
77 Carbon Tetrachloride	2.31564	2.52626	0.010	-9.09521	30.00000	Averaged
80 2,2,4-Trimethylpentane	10.07191	9.00112	0.010	10.63148	30.00000	Averaged
81 Benzene	1.19900	1.04894	0.010	12.51521	30.00000	Averaged
85 1,2-Dichloroethane	0.42097	0.52483	0.010	-24.67001	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-APR-2008 08:06
Lab File ID: 5042102.d Init. Cal. Date(s): 09-APR-2008 10-APR-2008
Analysis Type: AIR Init. Cal. Times: 11:52 12:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21apr.b/t14q409a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.13470	0.12509	0.010	7.13724	30.00000	Averaged
93 Trichloroethene	0.43886	0.44616	0.010	-1.66471	30.00000	Averaged
98 1,2-Dichloropropane	0.44553	0.42851	0.010	3.81989	30.00000	Averaged
99 1,4-Dioxane	0.28934	0.26731	0.010	7.61214	30.00000	Averaged
100 Bromodichloromethane	0.60708	0.72532	0.010	-19.47672	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.52407	0.60274	0.010	-15.01129	30.00000	Averaged
106 4-Methyl-2-pentanone	0.42077	0.44229	0.010	-5.11350	30.00000	Averaged
108 Toluene	1.28595	1.38995	0.010	-8.08736	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.47807	0.56129	0.010	-17.40754	30.00000	Averaged
114 1,1,2-Trichloroethane	0.43428	0.42306	0.010	2.58404	30.00000	Averaged
116 Tetrachloroethene	0.49986	0.51072	0.010	-2.17372	30.00000	Averaged
119 2-Hexanone	0.59361	0.55349	0.010	6.75844	30.00000	Averaged
120 Dibromochloromethane	0.56052	0.66054	0.010	-17.84326	30.00000	Averaged
122 1,2-Dibromoethane	0.63793	0.67747	0.010	-6.19775	30.00000	Averaged
126 Chlorobenzene	0.98247	0.97231	0.010	1.03478	30.00000	Averaged
128 Ethyl Benzene	0.54734	0.56466	0.010	-3.16547	30.00000	Averaged
130 m,p-Xylene	0.69388	0.71548	0.010	-3.11290	30.00000	Averaged
132 o-Xylene	0.64375	0.65044	0.010	-1.03960	30.00000	Averaged
133 Styrene	1.13057	1.03685	0.010	8.28982	30.00000	Averaged
134 Bromoform	0.52732	0.61012	0.010	-15.70283	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.92523	0.95983	0.010	-3.73972	30.00000	Averaged
144 4-Ethyltoluene	1.91757	2.03688	0.010	-6.22241	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.72483	1.80344	0.010	-4.55765	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.50500	1.43775	0.010	4.46823	30.00000	Averaged
155 1,3-Dichlorobenzene	0.97617	0.88456	0.010	9.38388	30.00000	Averaged
156 1,4-Dichlorobenzene	1.16732	1.14692	0.010	1.74746	30.00000	Averaged
157 alpha-Chlorotoluene	1.51199	1.66387	0.010	-10.04478	30.00000	Averaged
159 1,2-Dichlorobenzene	0.98991	0.86276	0.010	12.84490	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.65380	0.56587	0.010	13.44935	30.00000	Averaged
164 Hexachlorobutadiene	0.46143	0.40370	0.010	12.50984	30.00000	Averaged
142 Propylbenzene	2.10275	2.29032	0.010	-8.92019	30.00000	Averaged
136 Cumene	1.91629	1.95202	0.010	-1.86465	30.00000	Averaged
165 Naphthalene	2.05260	1.88205	0.010	8.30893	30.00000	Averaged
37 tert-Butyl-Alcohol	2.10634	1.36428	0.010	35.22954	40.00000	Averaged
11 Butane	0.44259	0.39352	0.010	11.08739	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 21-APR-2008 08:06
Lab File ID: 5042102.d Init. Cal. Date(s): 09-APR-2008 10-APR-2008
Analysis Type: AIR Init. Cal. Times: 11:52 12:52
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-21apr.b/t14q409a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	2.71409	2.46783	0.010	9.07331	30.00000	Averaged
94 Methyl Cyclohexane	0.68433	0.66402	0.010	2.96842	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-21apr.b/5042102.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 21-APR-2008 08:06
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-326
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.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
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	226259	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	172474			46.23- 106.23		76.23
8.059	8.059 (1.000)	49	453831			170.58- 230.58		200.58
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	973329	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	149250			0.00- 45.33		15.33
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1070776	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	592480			0.00- 30.00		55.33
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	359583	25.0000	29.717	80.00- 120.00		100.00
9.137	9.137 (1.134)	67	209879			28.07- 88.07		58.37
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1124765	25.0000	27.584	80.00- 120.00		100.00
12.704	12.704 (1.282)	70	122167			0.00- 39.37		10.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	764750			40.62- 100.62	67.99
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	649750	25.0000	25.240	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	916867			111.11- 171.11	141.11
16.575	16.575 (1.105)	176	616943			64.95- 124.95	94.95
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	643182	50.0000	47.246	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	429183			0.00- 30.00	66.73
2.280	2.280 (0.283)	39	464926			0.00- 30.00	72.29
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	1113112	50.0000	50.974	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	355953			0.00- 30.00	31.98
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1053996	50.0000	53.544	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	331246			1.43- 61.43	31.43
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	941119	50.0000	51.806	80.00- 120.00	100.00
2.585	2.585 (0.321)	52	256934			0.00- 30.00	27.30
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	696514	50.0000	47.910	80.00- 120.00	100.00
2.806	2.806 (0.348)	64	206743			0.00- 30.00	29.68
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	675531	50.0000	45.581	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	855510			0.00- 30.00	126.64
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	388992	50.0000	48.131	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	353760			60.94- 120.94	90.94
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	350163	50.0000	51.604	80.00- 120.00	100.00
3.442	3.442 (0.427)	49	121507			0.00- 30.00	34.70
3.414	3.414 (0.424)	66	100868			0.00- 30.00	28.81
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	1363571	50.0000	54.955	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	885446			34.94- 94.94	64.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	295253	50.0000	43.916	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	62823			0.00- 30.00	21.28
4.105	4.105 (0.509)	46	125733			0.00- 30.00	42.58
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	844098	50.0000	51.912	80.00- 120.00	100.00
4.548	4.548 (0.564)	153	540351			34.02- 94.02	64.02
4.548	4.548 (0.564)	101	1056175			95.12- 155.12	125.12
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.571)	61	1004351	50.0000	48.962	80.00- 120.00	100.00
4.603	4.603 (0.571)	96	549024			24.66- 84.66	54.66
4.603	4.603 (0.571)	98	360431			5.89- 65.89	35.89
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	350460	50.0000	45.382	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	1299932			0.00- 30.00	370.92
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1470789	50.0000	44.208	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	372554			0.00- 30.00	25.33
4.935	4.935 (0.612)	59	44411			0.00- 30.00	3.02
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	1627812	50.0000	49.095	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	278137	50.0000	44.851	80.00- 120.00	100.00
5.211	5.211 (0.647)	41	1118587			0.00- 30.00	402.17
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	892230	50.0000	46.943	80.00- 120.00	100.00
5.460	5.460 (0.678)	84	478415			23.62- 83.62	53.62
5.460	5.460 (0.678)	51	271953			0.00- 30.00	30.48
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	769438	50.0000	36.680	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	237989			0.93- 60.93	30.93
5.792	5.792 (0.719)	41	265963			0.00- 30.00	34.57
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	658568	50.0000	47.113	80.00- 120.00	100.00
5.847	5.847 (0.726)	61	1041312			128.12- 188.12	158.12
5.847	5.847 (0.726)	98	426080			0.00- 30.00	64.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	1239598	50.0000	42.451	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	954362			0.00- 30.00	76.99
6.179	6.179 (0.767)	86	183025			0.00- 30.00	14.76
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	170873	50.0000	46.064	80.00- 120.00	100.00
6.677	6.677 (0.828)	43	2367721			0.00- 30.00	1385.66
6.677	6.677 (0.828)	42	210817			0.00- 30.00	123.38
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	1208951	50.0000	48.250	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	352885			0.00- 59.19	29.19
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	300379	50.0000	45.174	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	1835744			581.14- 641.14	611.14
7.672	7.672 (0.952)	57	122431			0.00- 30.00	40.76
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	948759	50.0000	47.370	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	647823			38.28- 98.28	68.28
7.644	7.644 (0.949)	98	420651			14.34- 74.34	44.34
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	1749609	50.0000	64.006	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	459846			0.00- 56.28	26.28
8.059	8.059 (1.000)	72	484732			0.00- 30.00	27.71
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1191216	50.0000	46.694	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	777926			35.31- 95.31	65.31
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1202020	50.0000	54.000	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	791381			35.84- 95.84	65.84
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	893592	50.0000	44.312	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	1302643			115.78- 175.78	145.78
8.419	8.419 (1.045)	41	898257			70.52- 130.52	100.52
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.079)	119	1143178	50.0000	54.548	80.00- 120.00	100.00
8.695	8.695 (1.079)	117	1179461			73.17- 133.17	103.17

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		
9.110	9.110 (1.130)	57	4073175	50.0000	44.684	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1331204			0.00- 30.00	32.68
9.110	9.110 (1.130)	41	1345829			0.00- 30.00	33.04
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2041933	50.0000	43.742	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	486169			0.00- 30.00	23.81
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1021659	50.0000	62.335	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	312508			0.00- 30.00	30.59
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	243508	50.0000	46.431	80.00- 120.00	100.00
9.497	9.497 (0.958)	43	1822565			0.00- 30.00	748.46
9.497	9.497 (0.958)	71	715707			0.00- 30.00	293.92
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	868527	50.0000	50.832	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	857387			68.72- 128.72	98.72
10.326	10.326 (1.042)	97	566667			35.24- 95.24	65.24
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	834172	50.0000	48.090	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	595789			41.42- 101.42	71.42
10.852	10.852 (1.095)	41	719161			56.21- 116.21	86.21
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	520365	50.0000	46.194	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	452681			56.99- 116.99	86.99
11.073	11.073 (1.117)	57	152692			0.00- 30.00	29.34
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1411941	50.0000	59.738	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	905113			34.10- 94.10	64.10
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1173334	50.0000	57.506	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	376516			2.09- 62.09	32.09
12.317	12.317 (1.243)	39	958984			51.73- 111.73	81.73
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	860989	50.0000	52.557	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2648054			0.00- 30.00	307.56
12.594	12.594 (1.271)	85	307239			0.00- 30.00	35.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2705749	50.0000	54.044	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1568335			27.96- 87.96	57.96
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1202025	50.0000	58.704	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	391390			2.56- 62.56	32.56
13.368	13.368 (0.891)	39	935170			47.80- 107.80	77.80
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	906009	50.0000	48.708	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	556908			31.47- 91.47	61.47
13.644	13.644 (0.910)	83	765985			54.54- 114.54	84.54
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1093735	50.0000	51.087	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	870393			49.58- 109.58	79.58
13.700	13.700 (0.913)	131	816815			44.68- 104.68	74.68
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1185333	50.0000	46.621	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2671522			195.38- 255.38	225.38
14.031	14.031 (0.935)	100	199367			0.00- 30.00	16.82
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1414581	50.0000	58.922	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1066795			0.00- 30.00	75.41
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1450841	50.0000	53.099	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1374891			64.77- 124.77	94.77
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2082250	50.0000	49.483	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	660638			1.73- 61.73	31.73
15.027	15.027 (1.002)	77	1270879			31.03- 91.03	61.03
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1209256	50.0000	51.583	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3790343			0.00- 30.00	313.44
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1532242	50.0000	51.556	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3026777			0.00- 30.00	197.54
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1392955	50.0000	50.520	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)							
15.856	15.856 (1.057)	91	2924207			179.93- 239.93	209.93
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2220468	50.0000	45.855	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	1112614			20.11- 80.11	50.11
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1306615	50.0000	57.851	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	682160			22.21- 82.21	52.21
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2055529	50.0000	51.870	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1325658			34.49- 94.49	64.49
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4362096	50.0000	53.111	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1273165			0.00- 59.19	29.19
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3862166	50.0000	52.279	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1847129			0.00- 30.00	47.83
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3079024	50.0000	47.766	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1439124			16.74- 76.74	46.74
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1894342	50.0000	45.308	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1234128			0.00- 30.00	65.15
17.764	17.764 (1.184)	111	748205			0.00- 30.00	39.50
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2456184	50.0000	49.126	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1548377			0.00- 30.00	63.04
17.847	17.847 (1.190)	111	986978			0.00- 30.00	40.18
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3563264	50.0000	55.022	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	741931			0.00- 30.00	20.82
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.207	18.207 (1.214)	146	1847639	50.0000	43.578	80.00- 120.00	100.00
18.207	18.207 (1.214)	148	1183653			34.06- 94.06	64.06
18.207	18.207 (1.214)	111	745336			10.34- 70.34	40.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1211841	50.0000	43.275	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1143988			64.40- 124.40	94.40
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	864551	50.0000	43.745	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	555600			34.26- 94.26	64.26
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4904840	50.0000	54.460	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1083788			0.00- 30.00	22.10
16.824	16.824 (1.122)	105	177765			0.00- 30.00	3.62
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4180363	50.0000	50.932	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1129689			0.00- 30.00	27.02
16.326	16.326 (1.088)	51	568066			0.00- 30.00	13.59
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4030512	50.0000	45.846	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	500575			0.00- 30.00	12.42
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	617363	50.0000	32.385	80.00- 120.00	100.00
5.598	5.598 (0.695)	41	172370			0.00- 30.00	27.92
5.598	5.598 (0.695)	57	62482			0.00- 30.00	10.12
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	178075	50.0000	44.456	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	1488534			0.00- 30.00	835.90
17 Isopentane					CAS #: 78-78-4		
3.442	3.442 (0.427)	43	1116740	50.0000	45.463	80.00- 120.00	100.00
3.442	3.442 (0.427)	57	642468			0.00- 30.00	57.53
3.442	3.442 (0.427)	72	60241			0.00- 30.00	5.39
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	1292618	50.0000	48.516	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	631918			0.00- 30.00	48.89
10.575	10.575 (1.067)	55	1320017			0.00- 30.00	102.12

Report Date: 21-Apr-2008 08:49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042102.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	226259	0.00
92 1,4-Difluorobenze	973329	583997	1362661	973329	0.00
125 Chlorobenzene-d5	1070776	642466	1499086	1070776	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

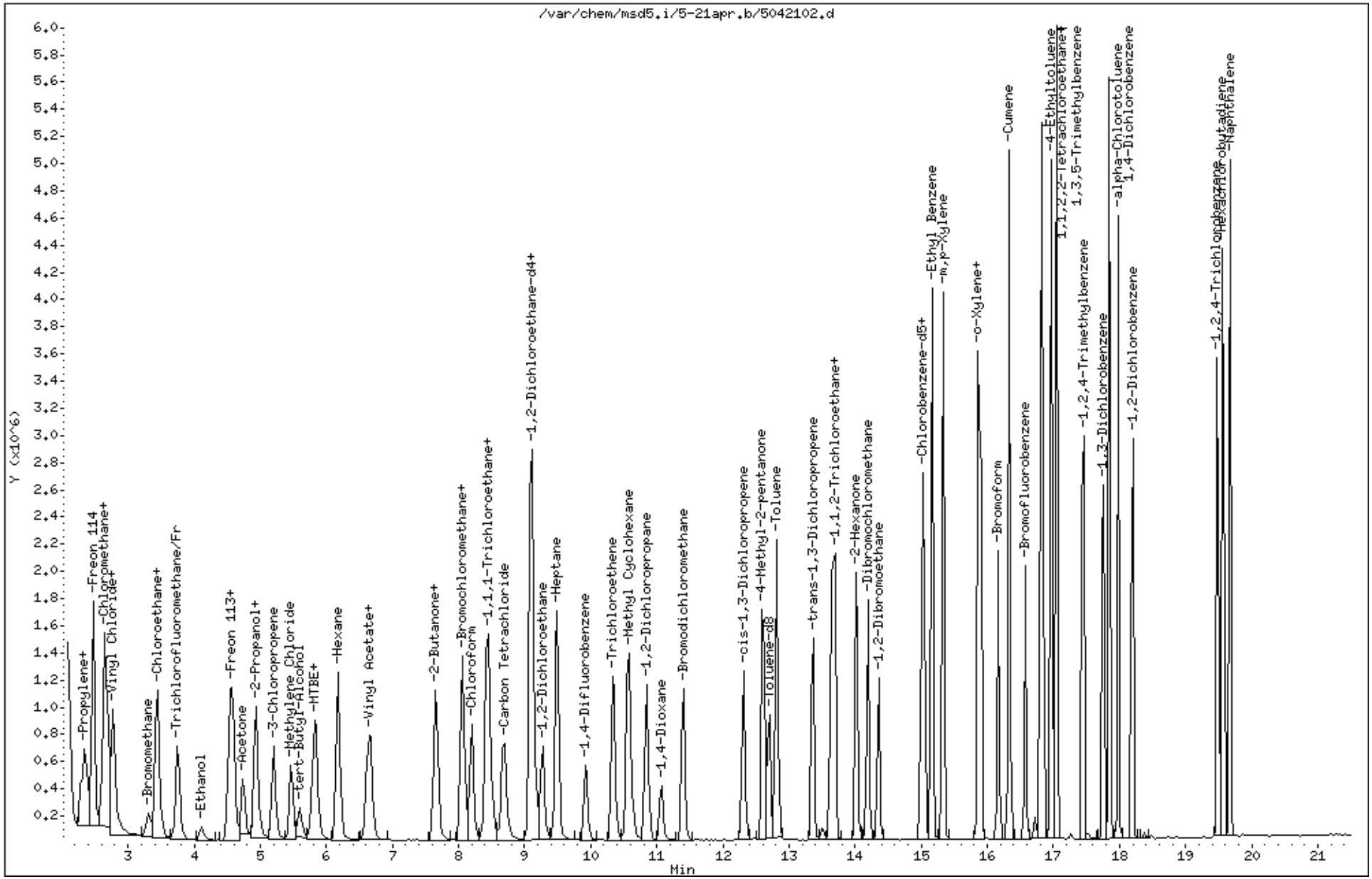
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0214

Data File: /var/chem/msd5.i/5-21apr.b/5042102.d
Date : 21-APR-2008 08:06
Client ID: CCV-1
Sample Info: 50mL #1576-326

Instrument: msd5.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804255-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 08:35 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	107
Vinyl Chloride	95
Bromomethane	109
Chloroethane	100
Freon 11	108
1,1-Dichloroethene	109
Freon 113	116
Methylene Chloride	99
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	97
Chloroform	96
1,1,1-Trichloroethane	113
Carbon Tetrachloride	109
Benzene	89
1,2-Dichloroethane	129
Trichloroethene	103
1,2-Dichloropropane	95
cis-1,3-Dichloropropene	117
Toluene	115
trans-1,3-Dichloropropene	119
1,1,2-Trichloroethane	99
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	105
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	100
o-Xylene	101
Styrene	83
1,1,2,2-Tetrachloroethane	109
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	86
1,3-Butadiene	83
Hexane	85
Cyclohexane	88

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804255-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/08 08:35 AM**	

Compound	%Recovery
Heptane	91
Bromodichloromethane	123
Dibromochloromethane	116
Cumene	108
Propylbenzene	113
Chloromethane	95
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	89
Acetone	88
Carbon Disulfide	99
2-Propanol	81
trans-1,2-Dichloroethene	92
2-Butanone (Methyl Ethyl Ketone)	91
Tetrahydrofuran	76
1,4-Dioxane	84
4-Methyl-2-pentanone	103
2-Hexanone	85
Bromoform	117
4-Ethyltoluene	110
Ethanol	70
Methyl tert-butyl ether	66
3-Chloropropene	93
2,2,4-Trimethylpentane	90
Naphthalene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 21-Apr-2008 10:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	51.560	103.12	70-130
9 Freon 114	50.000	53.629	107.26	70-130
10 Chloromethane	50.000	47.387	94.77	70-130
13 Vinyl Chloride	50.000	47.586	95.17	70-130
12 1,3-Butadiene	50.000	41.543	83.09	60-140
15 Bromomethane	50.000	54.703	109.41	70-130
19 Chloroethane	50.000	50.148	100.30	70-130
20 Trichlorofluoromet	50.000	54.038	108.08	70-130
26 Ethanol	50.000	34.972	69.94	60-140
30 Freon 113	50.000	58.034	116.07	70-130
31 1,1-Dichloroethene	50.000	54.396	108.79	70-130
35 Carbon Disulfide	50.000	49.570	99.14	60-140
32 Acetone	50.000	44.288	88.58	60-140
36 2-Propanol	50.000	40.524	81.05	60-140
38 3-Chloropropene	50.000	46.697	93.39	60-140
43 Methylene Chloride	50.000	49.546	99.09	70-130
46 MTBE	50.000	33.241	66.48	60-140
47 trans-1,2-Dichloro	50.000	45.965	91.93	60-140
51 Hexane	50.000	42.323	84.65	60-140
55 1,1-Dichloroethane	50.000	50.284	100.57	70-130
66 cis-1,2-Dichloroet	50.000	48.482	96.96	70-130
67 2-Butanone	50.000	45.694	91.39	60-140
70 Tetrahydrofuran	50.000	38.272	76.54	60-140
72 Chloroform	50.000	47.940	95.88	70-130
74 Cyclohexane	50.000	43.796	87.59	60-140
75 1,1,1-Trichloroeth	50.000	56.381	112.76	70-130
56 Vinyl Acetate	50.000	47.241	94.48	60-140
77 Carbon Tetrachlori	50.000	54.562	109.12	70-130
80 2,2,4-Trimethylpen	50.000	44.826	89.65	60-140
81 Benzene	50.000	44.329	88.66	70-130
85 1,2-Dichloroethane	50.000	64.628	129.26	70-130
90 Heptane	50.000	45.626	91.25	60-140
93 Trichloroethene	50.000	51.573	103.15	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	47.589	95.18	70-130
99 1,4-Dioxane	50.000	42.029	84.06	60-140
100 Bromodichlorometha	50.000	61.733	123.47	60-140
103 cis-1,3-Dichloropr	50.000	58.724	117.45	70-130
106 4-Methyl-2-pentano	50.000	51.376	102.75	60-140
108 Toluene	50.000	57.459	114.92	70-130
113 trans-1,3-Dichloro	50.000	59.586	119.17	70-130
114 1,1,2-Trichloroeth	50.000	49.650	99.30	70-130
116 Tetrachloroethene	50.000	52.244	104.49	70-130
119 2-Hexanone	50.000	42.306	84.61	60-140
120 Dibromochlorometha	50.000	57.937	115.87	60-140
122 1,2-Dibromoethane	50.000	52.676	105.35	70-130
126 Chlorobenzene	50.000	50.550	101.10	70-130
128 Ethyl Benzene	50.000	50.786	101.57	70-130
130 m,p-Xylene	50.000	49.961	99.92	70-130
132 o-Xylene	50.000	50.470	100.94	70-130
133 Styrene	50.000	41.367	82.73	70-130
134 Bromoform	50.000	58.695	117.39	60-140
136 Cumene	50.000	54.012	108.02	60-140
141 1,1,2,2-Tetrachlor	50.000	54.394	108.79	70-130
142 Propylbenzene	50.000	56.631	113.26	60-140
144 4-Ethyltoluene	50.000	55.007	110.01	60-140
147 1,3,5-Trimethylben	50.000	52.226	104.45	70-130
152 1,2,4-Trimethylben	50.000	46.131	92.26	70-130
155 1,3-Dichlorobenzen	50.000	45.066	90.13	70-130
156 1,4-Dichlorobenzen	50.000	50.082	100.16	70-130
157 alpha-Chlorotoluen	50.000	51.555	103.11	70-130
159 1,2-Dichlorobenzen	50.000	43.202	86.40	70-130
163 1,2,4-Trichloroben	50.000	47.196	94.39	70-130
164 Hexachlorobutadien	50.000	44.347	88.69	70-130
6 Propylene	50.000	49.414	98.83	70-130
165 Naphthalene	50.000	45.114	90.23	60-140
11 Butane	50.000	42.827	85.65	70-130
17 Isopentane	50.000	42.710	85.42	70-130
94 Methyl Cyclohexane	50.000	48.989	97.98	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	29.034	116.13	70-130
$ 107 Toluene-d8	25.000	27.811	111.24	70-130
$ 138 Bromofluorobenzene	25.000	24.660	98.64	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-21apr.b/5042103.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 21-APR-2008 08:35
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1576-255A
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-21apr.b/t14q409a.m
Meth Date : 21-Apr-2008 08:49 sscott Quant Type: ISTD
Cal Date : 10-APR-2008 12:52 Cal File: 5041008.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
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	183269	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	143261			46.23- 106.23	78.17
8.059	8.059 (1.000)	49	368339			170.58- 230.58	200.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	793476	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	125564			0.00- 45.33	15.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	889593	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	489516			0.00- 30.00	55.03
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	284559	29.0337	29.034	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	166915			28.07- 88.07	58.66
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	924486	27.8111	27.811	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	99798			0.00- 39.37	10.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	596144			40.62- 100.62	64.48
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	527406	24.6602	24.660	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	759168			111.11- 171.11	143.94
16.575	16.575 (1.105)	176	500863			64.95- 124.95	94.97
6 Propylene					CAS #: 115-07-1		
2.253	2.280 (0.280)	41	544883	49.4137	49.414	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	339992			0.00- 30.00	62.40
2.280	2.280 (0.283)	39	405895			0.00- 30.00	74.49
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.290)	85	911988	51.5602	51.560	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	306654			0.00- 30.00	33.62
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	855090	53.6290	53.629	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	270456			1.43- 61.43	31.63
10 Chloromethane					CAS #: 74-87-3		
2.612	2.585 (0.324)	50	697277	47.3868	47.387	80.00- 120.00	100.00
2.585	2.585 (0.321)	52	201969			0.00- 30.00	28.97
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.806 (0.345)	62	560363	47.5865	47.586	80.00- 120.00	100.00
2.750	2.806 (0.341)	64	161807			0.00- 30.00	28.88
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	498710	41.5433	41.543	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	711526			0.00- 30.00	142.67
15 Bromomethane					CAS #: 74-83-9		
3.276	3.303 (0.406)	94	358106	54.7029	54.703	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	337145			60.94- 120.94	94.15
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	275629	50.1484	50.148	80.00- 120.00	100.00
3.442	3.442 (0.427)	49	92590			0.00- 30.00	33.59
3.442	3.414 (0.427)	66	83016			0.00- 30.00	30.12
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	1086052	54.0377	54.038	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	692805			34.94- 94.94	63.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	190447	34.9718	34.972	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	37143			0.00- 30.00	19.50
4.105	4.105 (0.509)	46	72602			0.00- 30.00	38.12
30 Freon 113					CAS #: 76-13-1		
4.520	4.548 (0.561)	151	764341	58.0337	58.034	80.00- 120.00	100.00
4.520	4.548 (0.561)	153	480892			34.02- 94.02	62.92
4.520	4.548 (0.561)	101	961784			95.12- 155.12	125.83
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.603 (0.568)	61	903821	54.3963	54.396	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	494320			24.66- 84.66	54.69
4.575	4.603 (0.568)	98	317919			5.89- 65.89	35.17
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	277026	44.2880	44.288	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	1047547			0.00- 30.00	378.14
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1092049	40.5242	40.524	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	294043			0.00- 30.00	26.93
4.935	4.935 (0.612)	59	34424			0.00- 30.00	3.15
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	1331271	49.5697	49.570	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	234560	46.6966	46.697	80.00- 120.00	100.00
5.184	5.211 (0.643)	41	885039			0.00- 30.00	377.32
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	762782	49.5464	49.546	80.00- 120.00	100.00
5.460	5.460 (0.678)	84	423970			23.62- 83.62	55.58
5.460	5.460 (0.678)	51	233271			0.00- 30.00	30.58
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	564814	33.2412	33.241	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	162890			0.93- 60.93	28.84
5.764	5.792 (0.715)	41	185429			0.00- 30.00	32.83
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.847 (0.722)	96	520431	45.9647	45.965	80.00- 120.00	100.00
5.820	5.847 (0.722)	61	836630			128.12- 188.12	160.76
5.820	5.847 (0.722)	98	338776			0.00- 30.00	65.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.763)	57	1001039	42.3232	42.323	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	753157			0.00- 30.00	75.24
6.151	6.179 (0.763)	86	147545			0.00- 30.00	14.74
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.677 (0.825)	86	141942	47.2406	47.241	80.00- 120.00	100.00
6.649	6.677 (0.825)	43	1896431			0.00- 30.00	1336.06
6.649	6.677 (0.825)	42	170222			0.00- 30.00	119.92
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	1020521	50.2843	50.284	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	304070			0.00- 59.19	29.80
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	246107	45.6944	45.694	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	1479997			581.14- 641.14	601.36
7.672	7.672 (0.952)	57	97916			0.00- 30.00	39.79
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	786521	48.4820	48.482	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	537082			38.28- 98.28	68.29
7.644	7.644 (0.949)	98	342251			14.34- 74.34	43.51
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	847400	38.2722	38.272	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	223674			0.00- 56.28	26.40
8.031	8.059 (0.997)	72	254702			0.00- 30.00	30.06
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	990628	47.9403	47.940	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	636594			35.31- 95.31	64.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1016575	56.3814	56.381	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	636422			35.84- 95.84	62.60
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	715385	43.7966	43.796	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	1061351			115.78- 175.78	148.36
8.419	8.419 (1.045)	41	720381			70.52- 130.52	100.70
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.075)	119	926215	54.5621	54.562	80.00- 120.00	100.00
8.667	8.695 (1.075)	117	957240			73.17- 133.17	103.35

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		
9.082	9.110 (1.127)	57	3309708	44.8259	44.826	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	1068669			0.00- 30.00	32.29
9.082	9.110 (1.127)	41	1106360			0.00- 30.00	33.43
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1686950	44.3291	44.329	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	406476			0.00- 30.00	24.10
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	863514	64.6281	64.628	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	253244			0.00- 30.00	29.33
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	195067	45.6256	45.626	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	1496468			0.00- 30.00	767.16
9.469	9.497 (0.955)	71	598883			0.00- 30.00	307.01
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	718355	51.5729	51.573	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	717295			68.72- 128.72	99.85
10.326	10.326 (1.042)	97	474961			35.24- 95.24	66.12
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	672945	47.5888	47.589	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	503502			41.42- 101.42	74.82
10.824	10.852 (1.092)	41	583664			56.21- 116.21	86.73
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	385963	42.0289	42.029	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	336304			56.99- 116.99	87.13
11.073	11.073 (1.117)	57	115557			0.00- 30.00	29.94
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1189482	61.7334	61.733	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	767328			34.10- 94.10	64.51
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	976782	58.7235	58.724	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	308126			2.09- 62.09	31.55
12.290	12.317 (1.240)	39	779351			51.73- 111.73	79.79
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	686132	51.3765	51.376	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2088765			0.00- 30.00	304.43
12.594	12.594 (1.271)	85	245279			0.00- 30.00	35.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2345162	57.4588	57.459	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1361276			27.96- 87.96	58.05
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1013650	59.5865	59.586	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	318912			2.56- 62.56	31.46
13.340	13.368 (0.889)	39	767756			47.80- 107.80	75.74
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	767262	49.6499	49.650	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	473384			31.47- 91.47	61.70
13.644	13.644 (0.910)	83	655110			54.54- 114.54	85.38
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	929247	52.2439	52.244	80.00- 120.00	100.00
13.672	13.700 (0.912)	129	717286			49.58- 109.58	77.19
13.700	13.700 (0.913)	131	688803			44.68- 104.68	74.12
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	893631	42.3063	42.306	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2028082			195.38- 255.38	226.95
14.004	14.031 (0.934)	100	152656			0.00- 30.00	17.08
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1155581	57.9368	57.937	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	898721			0.00- 30.00	77.77
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1195760	52.6765	52.676	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1120199			64.77- 124.77	93.68
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1767251	50.5505	50.550	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	576802			1.73- 61.73	32.64
15.027	15.027 (1.002)	77	1095512			31.03- 91.03	61.99
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	989129	50.7863	50.786	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3101560			0.00- 30.00	313.56
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1233590	49.9613	49.961	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2488626			0.00- 30.00	201.74
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1156123	50.4703	50.470	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)							
15.856	15.856 (1.057)	91	2493700			179.93- 239.93	215.70
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	1664194	41.3671	41.367	80.00- 120.00	100.00
15.912	15.912 (1.061)	78	855440			20.11- 80.11	51.40
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1101353	58.6949	58.695	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	562045			22.21- 82.21	51.03
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1790833	54.3944	54.394	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1157238			34.49- 94.49	64.62
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3753370	55.0072	55.007	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1104719			0.00- 59.19	29.43
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3205441	52.2264	52.226	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1522529			0.00- 30.00	47.50
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2470474	46.1310	46.131	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1143581			16.74- 76.74	46.29
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1565417	45.0666	45.066	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1009468			0.00- 30.00	64.49
17.764	17.764 (1.184)	111	636616			0.00- 30.00	40.67
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2080279	50.0820	50.082	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1314589			0.00- 30.00	63.19
17.847	17.847 (1.190)	111	825981			0.00- 30.00	39.71
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2773768	51.5548	51.555	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	560803			0.00- 30.00	20.22
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.207 (1.214)	146	1521765	43.2017	43.202	80.00- 120.00	100.00
18.206	18.207 (1.214)	148	968006			34.06- 94.06	63.61
18.206	18.207 (1.214)	111	609928			10.34- 70.34	40.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.506 (1.299)	180	1097990	47.1955	47.196	80.00- 120.00	100.00
19.478	19.506 (1.299)	182	1025875			64.40- 124.40	93.43
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	728153	44.3475	44.347	80.00- 120.00	100.00
19.561	19.589 (1.304)	223	461447			34.26- 94.26	63.37
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4237358	56.6313	56.631	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	933620			0.00- 30.00	22.03
16.824	16.824 (1.122)	105	144158			0.00- 30.00	3.40
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3683006	54.0119	54.012	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	967120			0.00- 30.00	26.26
16.326	16.326 (1.088)	51	481385			0.00- 30.00	13.07
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	3295117	45.1144	45.114	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	419746			0.00- 30.00	12.74
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.598 (0.691)	59	335768	21.7452	21.745	80.00- 120.00	100.00
5.571	5.598 (0.691)	41	92315			0.00- 30.00	27.49
5.571	5.598 (0.691)	57	35822			0.00- 30.00	10.67
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	138954	42.8271	42.827	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	1135409			0.00- 30.00	817.11
17 Isopentane					CAS #: 78-78-4		
3.414	3.442 (0.424)	43	849773	42.7100	42.710	80.00- 120.00	100.00
3.414	3.442 (0.424)	57	507145			0.00- 30.00	59.68
3.414	3.442 (0.424)	72	43552			0.00- 30.00	5.13
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.575 (1.064)	83	1064047	48.9891	48.989	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	522185			0.00- 30.00	49.08
10.548	10.575 (1.064)	55	1125920			0.00- 30.00	105.81

Report Date: 21-Apr-2008 10:32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042103.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-21apr.b/t14q409a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-APR-2008
Calibration Time: 08:06
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	226259	135755	316763	183269	-19.00
92 1,4-Difluorobenze	973329	583997	1362661	793476	-18.48
125 Chlorobenzene-d5	1070776	642466	1499086	889593	-16.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	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: /var/chem/msd5.i/5-21apr.b/5042103.d

Date : 21-APR-2008 08:35

Client ID: LCS-1

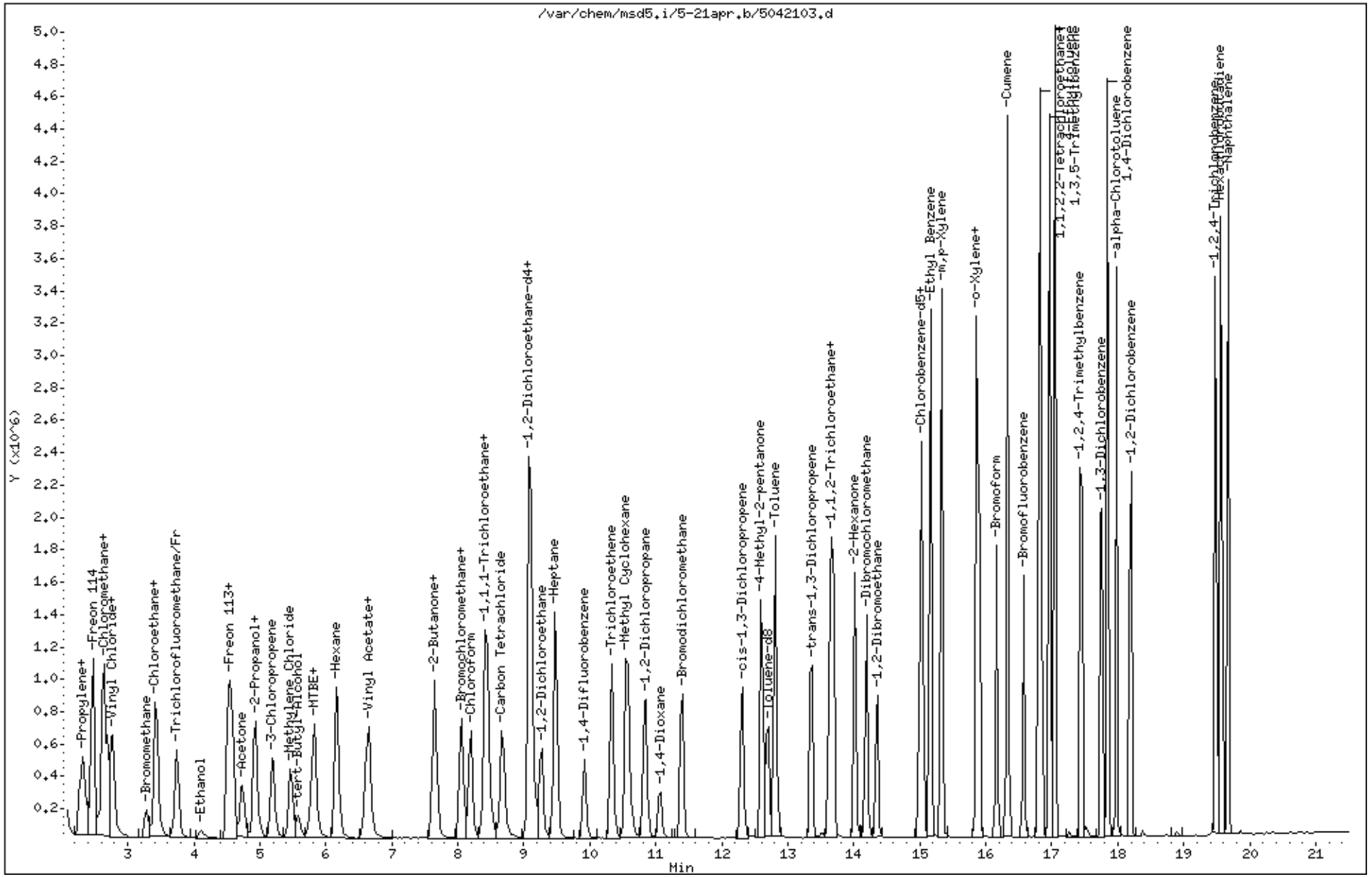
Sample Info: 50mL #1576-255A

Column phase: RTx-624

Instrument: msd5.i

Operator: ct

Column diameter: 0.53



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MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	26.67
75	30.0 – 60.0% of mass 95	44.98
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.40
173	Less than 2.0% of mass 174	(0.72)[1]
174	Greater than 50.0% of mass 95	67.10
175	5.0 – 9.0% of mass 174	(6.50)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.61)[1]
177	5.0 – 9.0% of mass 176	(6.46)[2]

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

BFB Injection Date: 4/21/08 (standards)
BFB Injection Time: 0731
BFB File ID: 5042101
Tekmar Purge Flow: 133 ml/min
Vacuum: 6.51 x10^-4

IS/S Std.#:	1541-103	Exp. Date: 7/4/08
BCM	226259	
1,4-DFB	973329	
CB-d5	1070796	

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

Verify 176/174 m/z Ratio: (1050624 / 1087485) x100 = 96.610

NOAH Cart #: 15/14 **File #:** 5042107/5042110

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1124765\ )}{(\ 973329\ )} \times \frac{(\ 25.000\ )}{(\ 1.04734\ )} = 27.5838$

File ID:	5042102
Compound:	Toluene-d8
Initials:	SG

Reported Result ~~25.290~~ 27.584 (standards)

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5042101	BFB Tune Check	14776-279	50 psig	20 ml	1.00	4/21/08	0731	SG	
2	✓	02	15716-324 200ppbv	CCV-1	50 psig	50 ml			0806	SG	
3	✓	03	15716-255A 100ppbv	LCS-1	50 psig	100 ml			0845	SG	
4	X	04	Lab Blank	12941	Humid	200 ml			0859	SG	Cart #11/Leg #1
5	X	05	Lab Blank	12941	Humid	200 ml			1023	SG	Cart #11/Leg #1
6	✓	06	15716-255A-100ppbv	LCSD	50 psig	100 ml			1103	SG	
7	✓	07	Lab Blank	12941	Humid	200 ml			1302	SG	Cart #15/Leg #8
8	X	08	Cart #7/Leg #8	12941	Humid	200 ml			1356	SG	Bel back
9	X	09	Cart #7/Leg #8	12941	Humid	200 ml	↓	↓	1412	SG	

Signature

4/21/08
Date

0229

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10	✓	5042110	Cert#14/Leg#7	12941	[illegible]	200ml	1.00	4/21/08	1912	XP/[illegible]	
11	✓	11	08041255-01A	21239	5.5"Hg→5psi	↓	1.60	↓	1912	[illegible]	
12	✓	12	-01AA	21239	5.5"Hg→5psi		1.64		1945	[illegible]	
13	✓	13	02A	5655	5.5"Hg→5psi		1.68		2018	[illegible]	
14	✓	14	03A	34362	4.0"Hg→5psi		1.55 / 1.00		2050	[illegible]	
15	✓	15	-04A	4287	4.6"Hg→5psi		1.02	4/21/08	2123	[illegible]	4.6psi → 4.6psi
16	✓	16	08042816-01A	31261	7.0"Hg→5psi		1.75		2155	[illegible]	
17	✓	17	↓ -02A	20944	7.5"Hg→5psi		1.75		2228	[illegible]	
18	✓	18	08042828-11A	33973	0.0"Hg→5psi		1.34		2301	[illegible]	
19	✗	19	-11AA	33973	↓		↓		2333	[illegible]	3rd IS ↓
20	✗	20	-12A	435	↓	↓	↓	4/22/08	0006	[illegible]	IS's ↓
21	✓	21	0804282B -13A	23925	0.0"Hg→5psi	200ml	1.34	↓	0115	[illegible]	
22	✓	22	-14A	25268	↓	↓	↓		0148	[illegible]	
23	✓	23	-15A	901	↓		↓		0221	[illegible]	
24	✓	24	-16A	10802	3.0"Hg→5psi		1.49		0253	[illegible]	
25	✓	25	-17A	4256	0.0"Hg→5psi	↓	1.34		0326	[illegible]	
26	✓	26	-18A	4381	↓	5.0mL	53.6		0356	[illegible]	
27	✓	27	-19A	34433	↓	200mL	1.34		0429	[illegible]	
28	✓	28	-20A	34306	5.0"Hg→5psi	100mL	3.22		0457	[illegible]	
29	✓	29 ↓	↓ -20AA	↓	↓	↓	↓	↓	0526	[illegible]	
30											
31											
32										[illegible] 4/22/08	

Comments:

Signature: [signature] Date: 4/22/08

0230

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-09apr.b/5040902.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 09-APR-2008 09:06
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-09apr.b/bfb30.m
Meth Date : 09-Apr-2008 08:33 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					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		
3.803	3.900	-0.097	95	2208994			100.00- 100.00	100.00
3.803	3.900	-0.097	50	512736			15.00- 40.00	23.21
3.803	3.900	-0.097	75	893522			30.00- 60.00	40.45
3.803	3.900	-0.097	96	142974			5.00- 9.00	6.47
3.803	3.900	-0.097	173	11181			0.00- 2.00	0.67
3.803	3.900	-0.097	174	1660584			50.00- 100.00	75.17
3.803	3.900	-0.097	175	119656			5.00- 9.00	7.21
3.803	3.900	-0.097	176	1604587			95.00- 101.00	96.63
3.803	3.900	-0.097	177	99654			5.00- 9.00	6.21

Data File: /var/chem/msd5.i/5-09apr.b/5040902.d

Date : 09-APR-2008 09:06

Client ID: BFB

Instrument: msd5.i

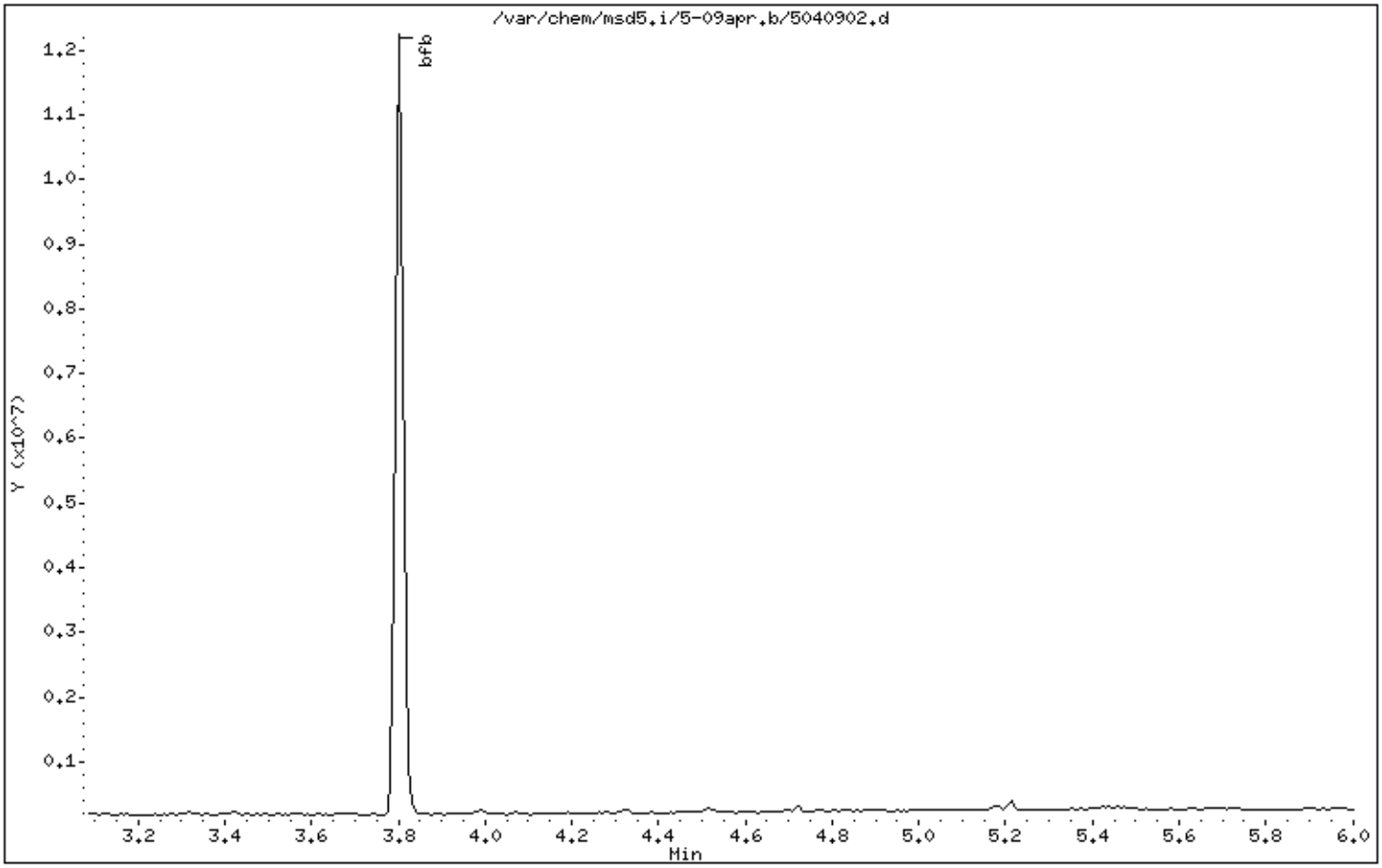
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-09apr.b/5040902.d

Date : 09-APR-2008 09:06

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

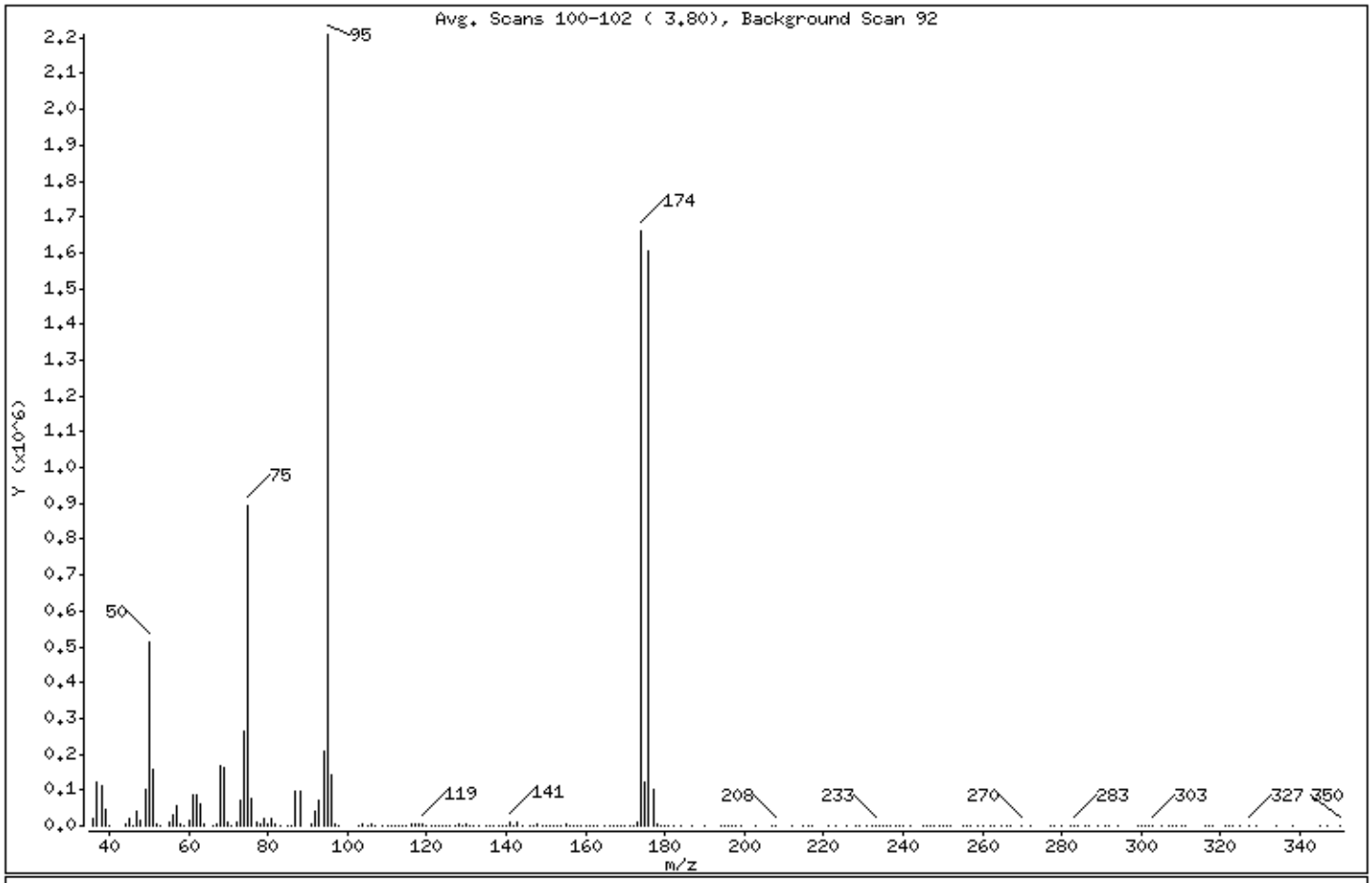
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

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	23.21
75	30.00 - 60.00% of mass 95	40.45
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.51 (0.67)
174	50.00 - 100.00% of mass 95	75.17
175	5.00 - 9.00% of mass 174	5.42 (7.21)
176	95.00 - 101.00% of mass 174	72.64 (96.63)
177	5.00 - 9.00% of mass 176	4.51 (6.21)

Date : 09-APR-2008 09:06

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5040902.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	20128	104.00	4537	163.00	461	250.00	281
37.00	121232	105.00	1936	165.00	108	251.00	149
38.00	110224	106.00	3882	166.00	541	252.00	114
39.00	43624	107.00	1503	167.00	435	255.00	399
40.00	1697	109.00	100	168.00	516	256.00	83
44.00	4258	110.00	26	169.00	543	257.00	83
45.00	21312	111.00	800	170.00	583	259.00	83
46.00	633	112.00	101	171.00	697	260.00	91
47.00	38672	113.00	708	172.00	1406	262.00	217
48.00	13072	114.00	124	173.00	11181	263.00	310
49.00	102008	115.00	1037	174.00	1660416	265.00	302
50.00	512704	116.00	3716	175.00	119656	266.00	185
51.00	155968	117.00	5416	176.00	1604096	267.00	115
52.00	6460	118.00	4297	177.00	99648	270.00	550
53.00	207	119.00	5465	178.00	2690	272.00	27
55.00	7660	120.00	99	179.00	325	277.00	75
56.00	29384	121.00	595	180.00	107	278.00	133
57.00	54512	122.00	392	181.00	212	280.00	92
58.00	2677	123.00	574	182.00	70	282.00	180
59.00	604	124.00	639	184.00	422	283.00	241
60.00	16640	125.00	161	187.00	255	284.00	81
61.00	84616	126.00	54	190.00	65	286.00	106
62.00	84760	127.00	457	194.00	99	287.00	189
63.00	58488	128.00	5023	195.00	259	289.00	216
64.00	4644	129.00	2449	196.00	232	291.00	89
66.00	587	130.00	4982	197.00	50	292.00	83
67.00	5245	131.00	1582	198.00	80	294.00	127
68.00	168832	132.00	195	199.00	66	299.00	142
69.00	161280	133.00	711	203.00	317	300.00	59
70.00	12154	135.00	1382	207.00	252	301.00	86
71.00	848	136.00	387	208.00	330	302.00	75
72.00	7738	137.00	1688	212.00	253	303.00	168
73.00	70192	138.00	661	215.00	67	305.00	155
74.00	265792	139.00	686	216.00	155	307.00	135
75.00	893504	140.00	684	217.00	146	308.00	55

Date : 09-APR-2008 09:06

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5040902.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	75624	141.00	8697	221.00	132	309.00	67
77.00	11779	142.00	1866	223.00	329	310.00	133
78.00	7573	143.00	8202	226.00	275	311.00	81
79.00	21264	144.00	497	228.00	54	316.00	165
80.00	7254	146.00	2161	229.00	71	317.00	117
81.00	22424	147.00	902	231.00	76	318.00	50
82.00	4332	148.00	3276	232.00	10	321.00	72
83.00	121	149.00	1031	233.00	423	322.00	57
85.00	681	150.00	1095	234.00	213	323.00	101
86.00	648	151.00	753	235.00	64	325.00	98
87.00	95072	152.00	784	236.00	60	327.00	372
88.00	96648	153.00	1657	237.00	264	329.00	58
91.00	4320	154.00	1091	238.00	282	334.00	183
92.00	41816	155.00	3971	239.00	114	338.00	68
93.00	71608	156.00	72	240.00	132	345.00	178
94.00	209792	157.00	2266	242.00	118	347.00	135
95.00	2208768	158.00	158	245.00	282	350.00	98
96.00	142912	159.00	1774	246.00	63		
97.00	4003	160.00	142	247.00	71		
98.00	1027	161.00	999	248.00	80		
103.00	570	162.00	443	249.00	328		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-10apr.b/5041001.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 10-APR-2008 08:21
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-10apr.b/bfb30.m
Meth Date : 10-Apr-2008 08:10 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					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		
3.796	3.900	-0.104	95	2544867			100.00- 100.00	100.00
3.796	3.900	-0.104	50	621583			15.00- 40.00	24.42
3.796	3.900	-0.104	75	1035519			30.00- 60.00	40.69
3.796	3.900	-0.104	96	167512			5.00- 9.00	6.58
3.796	3.900	-0.104	173	10212			0.00- 2.00	0.56
3.796	3.900	-0.104	174	1828352			50.00- 100.00	71.84
3.796	3.900	-0.104	175	130330			5.00- 9.00	7.13
3.796	3.900	-0.104	176	1782355			95.00- 101.00	97.48
3.796	3.900	-0.104	177	116120			5.00- 9.00	6.51

Data File: /var/chem/msd5.i/5-10apr.b/5041001.d

Date : 10-APR-2008 08:21

Client ID: BFB

Instrument: msd5.i

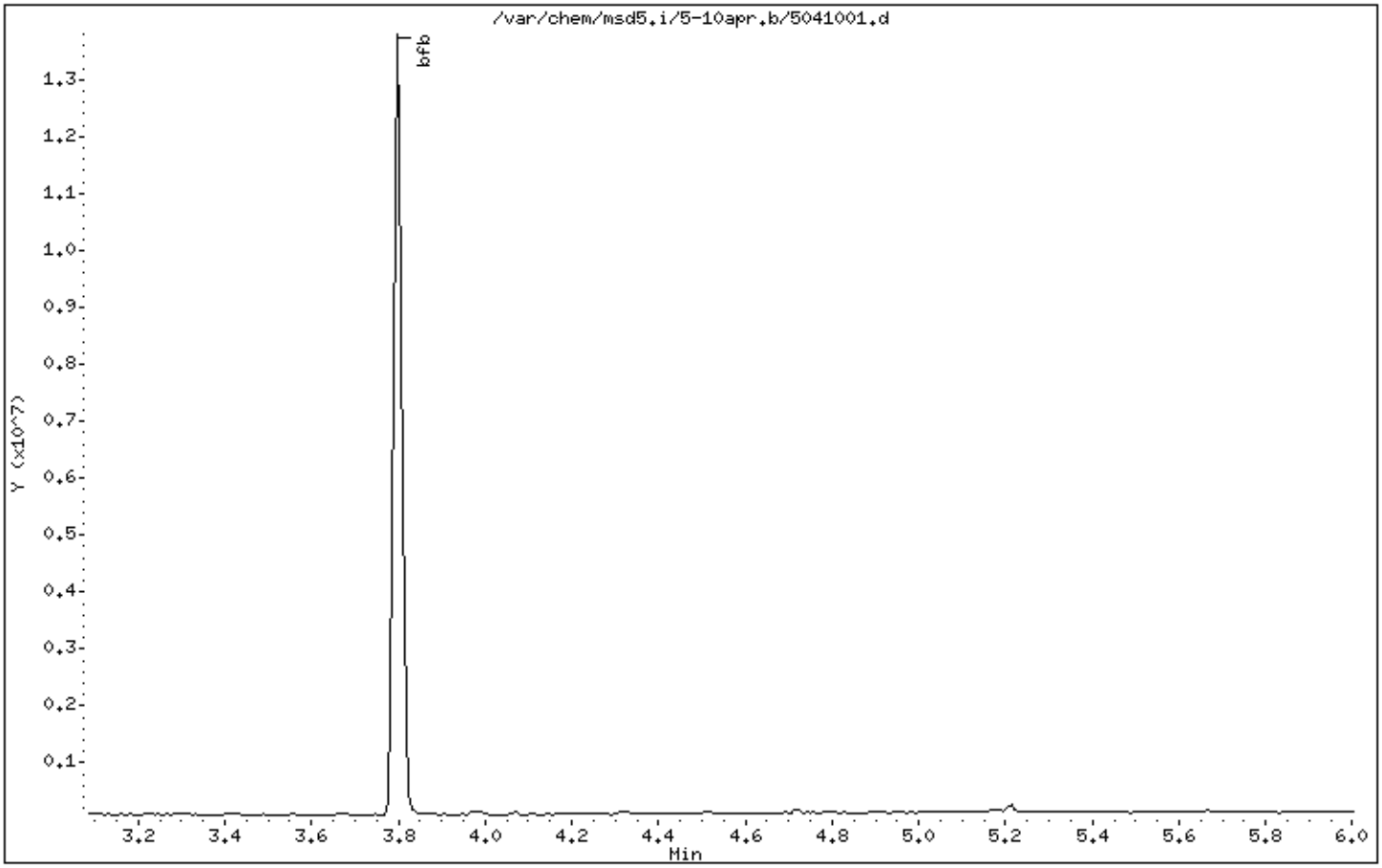
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-10apr.b/5041001.d

Date : 10-APR-2008 08:21

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

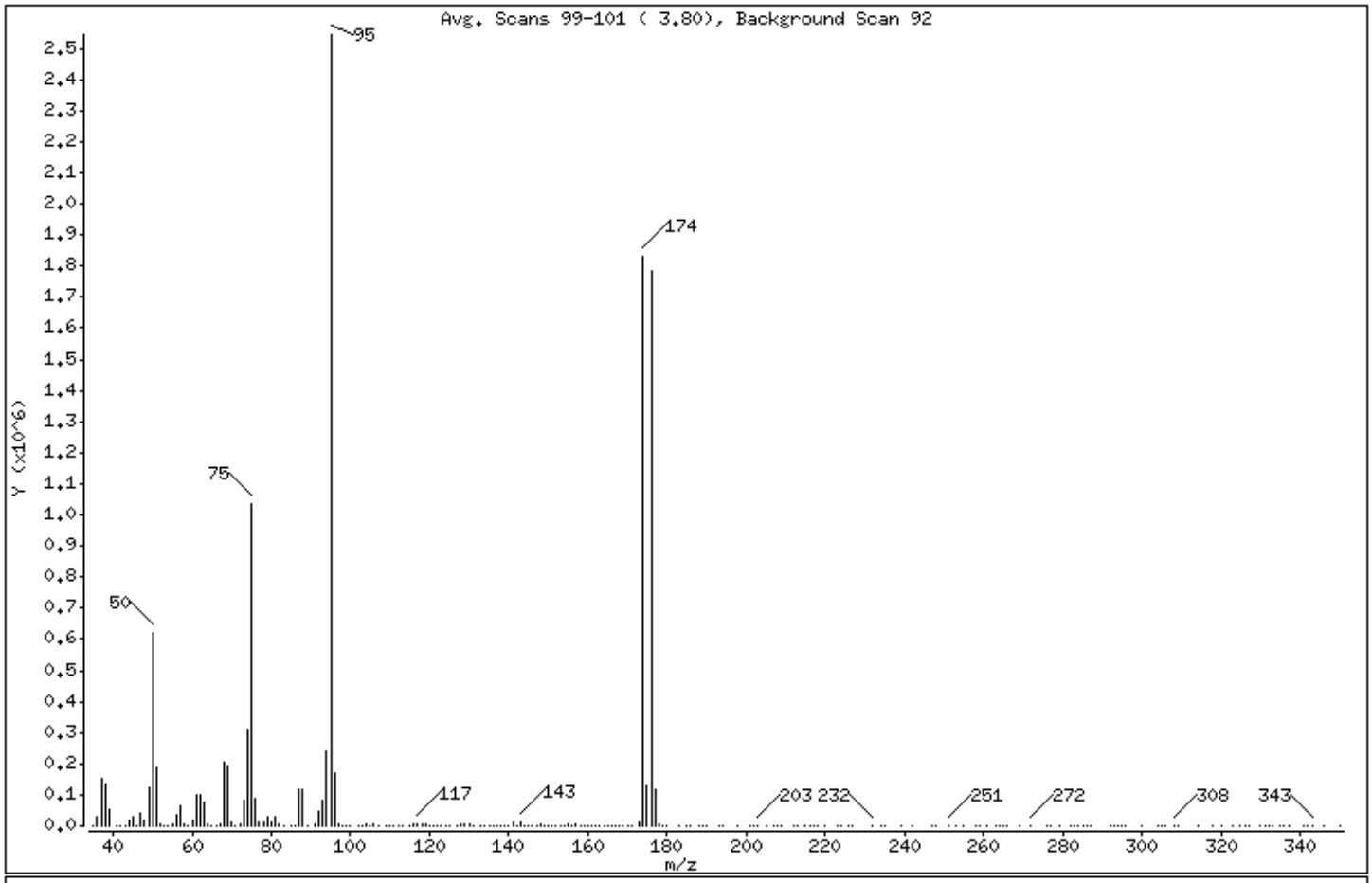
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.42
75	30.00 - 60.00% of mass 95	40.69
96	5.00 - 9.00% of mass 95	6.58
173	Less than 2.00% of mass 174	0.40 (0.56)
174	50.00 - 100.00% of mass 95	71.84
175	5.00 - 9.00% of mass 174	5.12 (7.13)
176	95.00 - 101.00% of mass 174	70.04 (97.48)
177	5.00 - 9.00% of mass 176	4.56 (6.51)

Date : 10-APR-2008 08:21

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5041001.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	118	94.00	238528	155.00	4270	242.00	51
36.00	26376	95.00	2544640	156.00	907	247.00	153
37.00	149888	96.00	167488	157.00	3114	248.00	81
38.00	134976	97.00	5555	158.00	104	251.00	310
39.00	53824	98.00	559	159.00	1348	253.00	284
41.00	66	99.00	46	160.00	428	255.00	198
42.00	1174	100.00	61	161.00	1798	258.00	65
43.00	96	102.00	359	162.00	334	259.00	217
44.00	15931	103.00	917	163.00	224	261.00	53
45.00	27416	104.00	4058	164.00	216	263.00	57
46.00	1406	105.00	2546	165.00	332	264.00	54
47.00	43800	106.00	5042	166.00	465	265.00	62
48.00	17832	107.00	1703	167.00	594	266.00	176
49.00	120808	109.00	65	168.00	510	269.00	217
50.00	621568	110.00	632	169.00	586	272.00	276
51.00	185344	111.00	1035	170.00	1117	276.00	74
52.00	7513	112.00	613	171.00	1113	277.00	99
53.00	523	113.00	753	173.00	10212	279.00	247
54.00	720	115.00	969	174.00	1828352	282.00	2
55.00	6836	116.00	5481	175.00	130328	283.00	240
56.00	35888	117.00	8493	176.00	1782272	284.00	53
57.00	67216	118.00	5207	177.00	116120	285.00	136
58.00	3174	119.00	7368	178.00	4049	286.00	130
59.00	881	120.00	649	179.00	302	287.00	67
60.00	18440	121.00	108	180.00	73	292.00	78
61.00	100464	122.00	394	183.00	107	293.00	50
62.00	99216	123.00	800	185.00	197	294.00	66
63.00	73592	124.00	636	186.00	102	295.00	61
64.00	5566	125.00	79	188.00	140	296.00	173
65.00	946	127.00	508	189.00	227	300.00	125
66.00	132	128.00	5291	190.00	83	304.00	63
67.00	5325	129.00	3252	193.00	185	305.00	115
68.00	204416	130.00	5912	194.00	27	306.00	70
69.00	192832	131.00	2758	198.00	109	308.00	196
70.00	14293	133.00	1224	201.00	96	309.00	171

Date : 10-APR-2008 08:21

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5041001.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	695	134.00	602	202.00	96	314.00	98
72.00	8609	135.00	1442	203.00	202	318.00	71
73.00	79256	136.00	587	205.00	174	320.00	132
74.00	310016	137.00	2512	207.00	130	323.00	71
75.00	1035456	138.00	265	208.00	59	325.00	165
76.00	85472	139.00	390	209.00	36	326.00	130
77.00	11816	140.00	669	212.00	60	327.00	63
78.00	9586	141.00	10232	213.00	91	330.00	139
79.00	27376	142.00	1915	215.00	153	331.00	99
80.00	9805	143.00	11137	216.00	111	332.00	63
81.00	27408	144.00	786	217.00	192	333.00	196
82.00	4800	145.00	668	218.00	101	335.00	174
83.00	1226	146.00	2467	220.00	51	336.00	61
85.00	18	147.00	1230	223.00	145	337.00	95
86.00	2888	148.00	3558	224.00	54	341.00	61
87.00	114952	149.00	917	226.00	51	342.00	180
88.00	114336	150.00	1338	227.00	76	343.00	663
89.00	1548	151.00	862	232.00	188	346.00	279
91.00	4273	152.00	1069	234.00	95	350.00	129
92.00	48144	153.00	866	235.00	68		
93.00	84112	154.00	1097	239.00	96		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-21apr.b/5042101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 21-APR-2008 07:31
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-21apr.b/bfb30.m
Meth Date : 21-Apr-2008 07:20 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	1.00000	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	
3.803	3.900	-0.097	95	1620813			100.00- 100.00	100.00
3.803	3.900	-0.097	50	432209			15.00- 40.00	26.67
3.803	3.900	-0.097	75	729042			30.00- 60.00	44.98
3.803	3.900	-0.097	96	103711			5.00- 9.00	6.40
3.803	3.900	-0.097	173	7777			0.00- 2.00	0.72
3.803	3.900	-0.097	174	1087507			50.00- 100.00	67.10
3.803	3.900	-0.097	175	70728			5.00- 9.00	6.50
3.803	3.900	-0.097	176	1050690			95.00- 101.00	96.61
3.803	3.900	-0.097	177	67885			5.00- 9.00	6.46

Data File: /var/chem/msd5.i/5-21apr.b/5042101.d

Date : 21-APR-2008 07:31

Client ID: BFB

Instrument: msd5.i

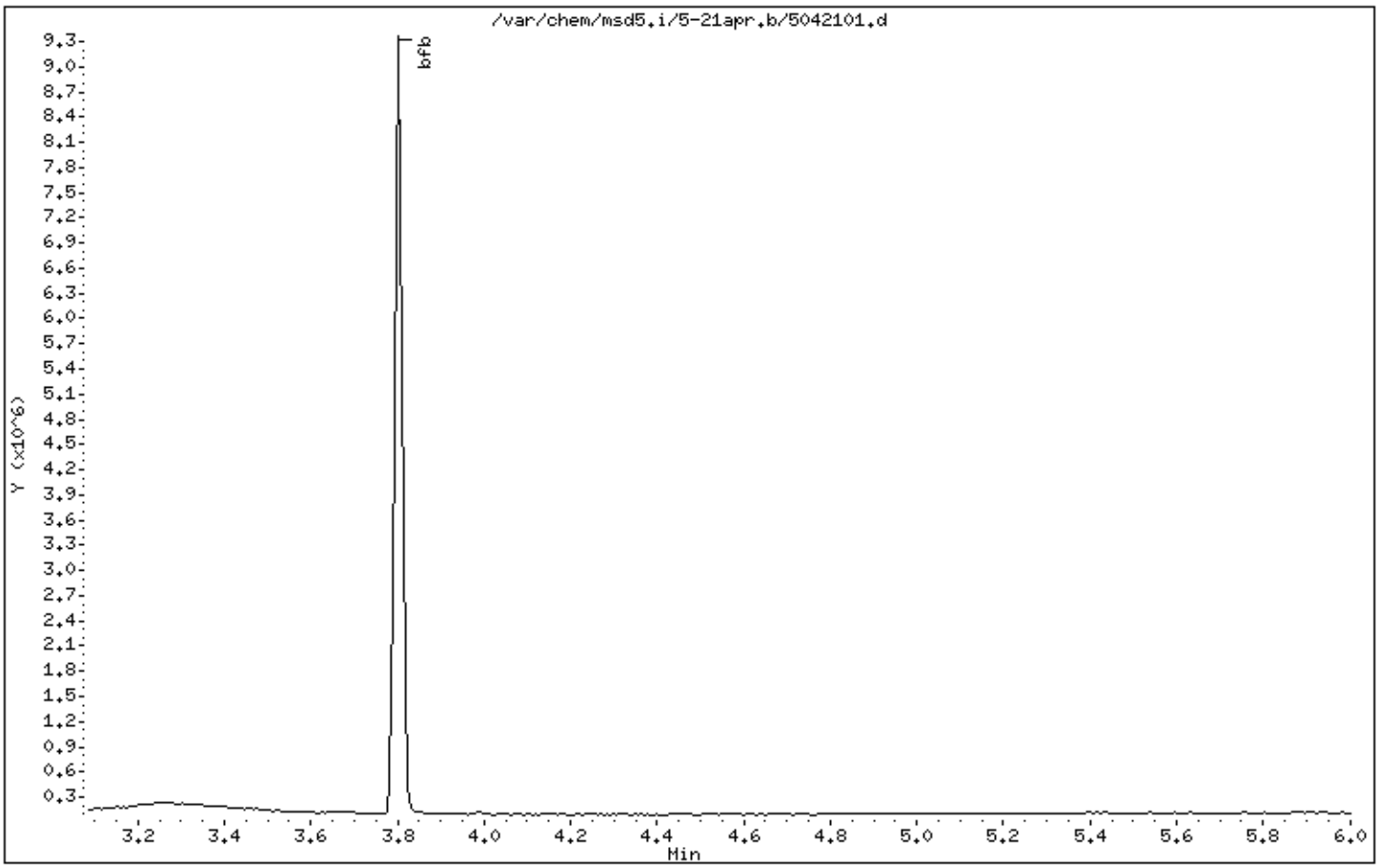
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-21apr.b/5042101.d

Date : 21-APR-2008 07:31

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

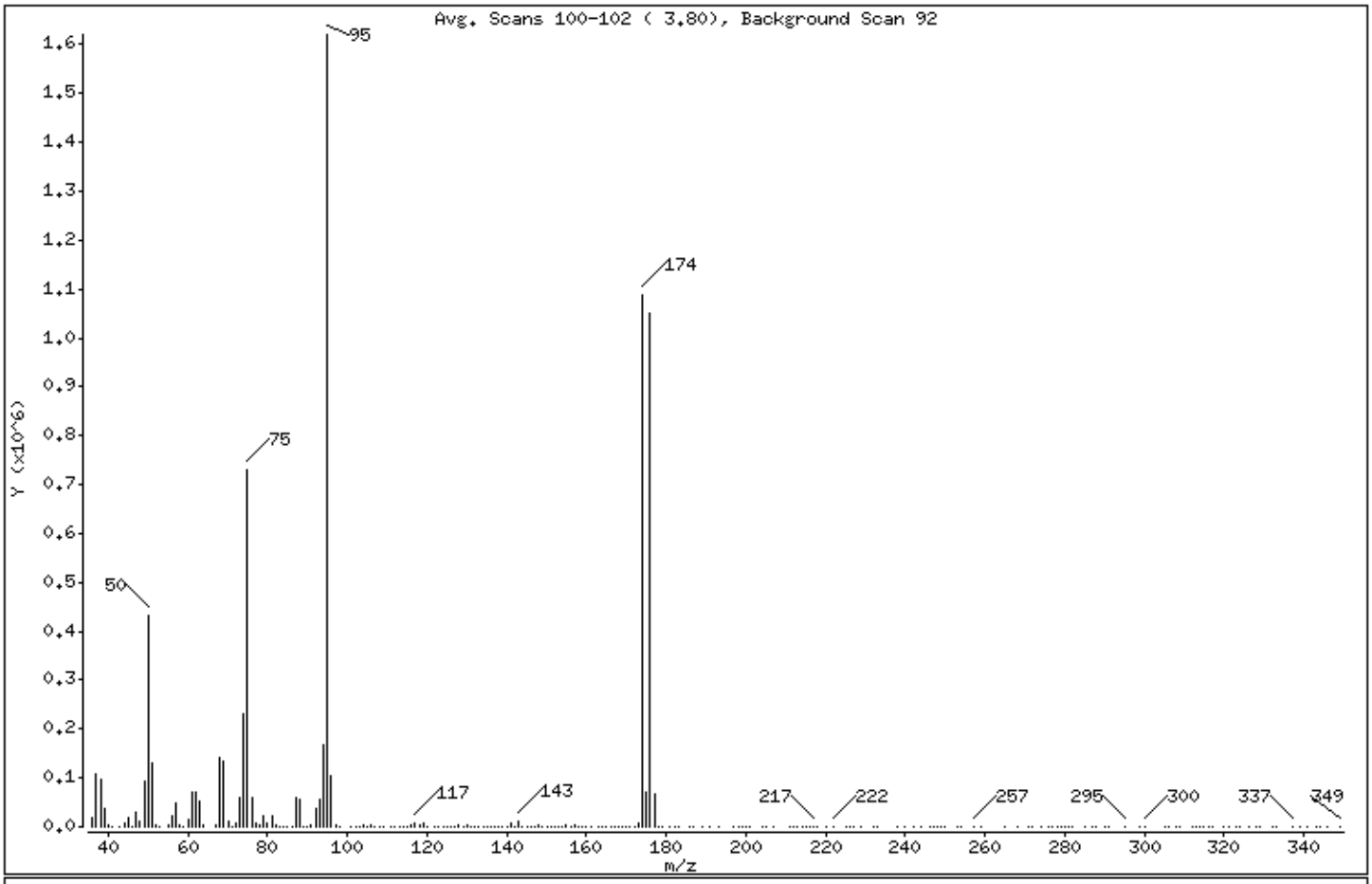
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

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	26.67
75	30.00 - 60.00% of mass 95	44.98
96	5.00 - 9.00% of mass 95	6.40
173	Less than 2.00% of mass 174	0.48 (0.72)
174	50.00 - 100.00% of mass 95	67.10
175	5.00 - 9.00% of mass 174	4.36 (6.50)
176	95.00 - 101.00% of mass 174	64.82 (96.61)
177	5.00 - 9.00% of mass 176	4.19 (6.46)

Date : 21-APR-2008 07:31

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5042101.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	17496	97.00	3282	158.00	295	246.00	195
37.00	108552	98.00	450	159.00	1697	247.00	57
38.00	96952	101.00	247	160.00	5	248.00	59
39.00	36768	102.00	58	161.00	1346	249.00	53
40.00	2528	103.00	553	163.00	507	250.00	208
41.00	15	104.00	4715	164.00	107	253.00	320
43.00	398	105.00	1786	165.00	22	254.00	212
44.00	9048	106.00	3932	166.00	482	257.00	332
45.00	17240	107.00	959	167.00	184	259.00	23
46.00	1765	108.00	112	168.00	629	265.00	94
47.00	28168	109.00	158	169.00	403	268.00	3
48.00	11875	111.00	967	170.00	680	271.00	53
49.00	91656	112.00	746	171.00	1081	272.00	108
50.00	432192	113.00	301	172.00	1832	274.00	96
51.00	130360	114.00	89	173.00	7777	276.00	100
52.00	5343	115.00	719	174.00	1087488	277.00	228
53.00	502	116.00	3908	175.00	70728	278.00	71
55.00	4432	117.00	6972	176.00	1050624	279.00	227
56.00	24120	118.00	3707	177.00	67880	280.00	152
57.00	47096	119.00	6451	178.00	1630	281.00	121
58.00	1919	120.00	405	179.00	272	282.00	76
59.00	35	122.00	486	181.00	238	285.00	142
60.00	14212	123.00	602	182.00	53	287.00	162
61.00	70984	124.00	175	183.00	221	288.00	140
62.00	70760	125.00	242	186.00	112	290.00	115
63.00	51032	126.00	407	187.00	131	291.00	168
64.00	4806	127.00	544	189.00	108	295.00	340
67.00	3624	128.00	3162	191.00	341	299.00	41
68.00	142848	129.00	1447	193.00	15	300.00	295
69.00	133504	130.00	4125	197.00	123	305.00	154
70.00	9775	131.00	1485	198.00	68	306.00	150
71.00	420	132.00	117	199.00	64	308.00	143
72.00	6020	133.00	134	200.00	190	309.00	96
73.00	61008	134.00	329	201.00	216	312.00	134
74.00	230528	135.00	1661	204.00	148	313.00	152

Date : 21-APR-2008 07:31

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00

Data File: 5042101.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	729024	136.00	1077	205.00	182	314.00	51
76.00	59592	137.00	444	207.00	335	315.00	94
77.00	6627	138.00	546	211.00	92	316.00	295
78.00	3885	139.00	422	212.00	97	317.00	117
79.00	24008	140.00	1006	213.00	199	320.00	106
80.00	7743	141.00	7551	214.00	73	321.00	63
81.00	23352	142.00	1226	215.00	146	323.00	68
82.00	4985	143.00	9535	216.00	103	324.00	199
83.00	237	144.00	920	217.00	412	326.00	172
84.00	291	145.00	450	218.00	54	328.00	219
85.00	94	146.00	1741	220.00	65	329.00	118
86.00	1734	147.00	725	222.00	257	332.00	102
87.00	61448	148.00	2175	225.00	204	333.00	172
88.00	55344	149.00	1305	226.00	144	337.00	352
89.00	411	150.00	896	227.00	241	339.00	184
90.00	217	151.00	340	229.00	50	341.00	283
91.00	4365	152.00	534	232.00	40	343.00	4
92.00	37520	153.00	1012	233.00	221	344.00	165
93.00	57360	154.00	1064	238.00	146	346.00	151
94.00	169216	155.00	2407	240.00	139	349.00	77
95.00	1620480	156.00	632	242.00	215		
96.00	103704	157.00	2512	244.00	142		

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 #: 0804255
# of pages (Including Cover): 1

4/28/2008

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

The following discrepancies have been observed:

Sample identification for sample Trip Blank was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

The Chain of Custody (COC) information for sample Trip Blank did not match the information on the canister with regard to canister identification. Unless otherwise notified, ATL will proceed with the analysis using the information on the canister to process and report the sample.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

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

Collected By: Signature: B Ryle

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 1 25239	4-9-2008 515 - 1315	TO-15 + Naphthalene	-29	-6.5	
02A	DW AMS 5 1208	4-9-2008 520 - 1320	TO-15 + Naphthalene	-30	-7	
03A	XX AMS X 34362	4-9-2008 520 - 1320	TO-15 + NAPHTHALENE	-30	-6.5	
04A	2963		TRIP BLANK			

Relinquished By: (Signature) Date/Time: 4-9-2008
Received By: (Signature) Date/Time: Monica Evergreen 4/10/08 830
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 8554 8706	MG	NA	Good	Yes No (None)	080425 5

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0804255

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: 04/24/08
Date Completed: 4/23/08
Date Received: 4/10/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 1,273.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 1	Modified TO-15	4/9/2008	5.5 "Hg	$225.00
01AA	UW AMS 1 Lab Duplicate	Modified TO-15	4/9/2008	5.5 "Hg	$0.00
02A	DW AMS 5	Modified TO-15	4/9/2008	5.5 "Hg	$225.00
03A	XX AMS X	Modified TO-15	4/9/2008	4.0 "Hg	$225.00
04A	Trip Blank	Modified TO-15	NA	4.6 psi	$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 58428	$50.00
	6 Liter Summa Canister (100% Certified) (3) @ $65.00 each., Shipment 58	$195.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58428	$35.00
	Blue Body Flow Controller (100% Certified) (2) @ $40.00 each., Shipmen	$80.00
	Fuel Surcharge (4) @ $2.00 each.	$8.00
	Duplicate Sampling T (1) @ $5.00 each.	$5.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 4/10 **Discrepancy Type:** (circle all that apply) (I.) II. III.

Workorder(s) affected: 0804255 **Sample(s) affected:** 04A

Project ID: _____

I. Sample Receipt Discrepancies

Narration Not Required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.
- ☐ Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required in Lab Narrative and Sample Confirmation:

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

Describe the Discrepancy: 04A has no ID on tag - can # is 2967

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

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

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

Describe the Discrepancy: _____

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	
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	
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	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
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	
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	

Air Toxics LTD.
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Media Certification Report

Canister Number: 6L #5655 w/ 10.2mL/min FC
Can#: 58428-5655
Date : 04/01/08 15:43
Data File: s040110.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		95.00	% Recovery
Toluene-d8	2037-26-5		98.00	% Recovery
4-Bromofluorobenzene	460-00-4		100.00	% Recovery

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Media Certification Report

Canister Number: 6L #34362 w/ 10.2mL/min FC
Can#: 58428-34362
Date : 04/01/08 14:55
Data File: s040109.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		99.00	% Recovery
Toluene-d8	2037-26-5		101.00	% Recovery
4-Bromofluorobenzene	460-00-4		99.00	% Recovery

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Media Certification Report

File/Canister #: F040109;500ml #4297;He Manifold Cert:1
Date: 4/1/2008 14:42:43

Peak #	Quantification	CAS	Type	Concentration	Units
	Bromochloromethane-IS11111	0-00-0	Not Found		ppbv
	1,4-Difluorobenzene-IS11111	0-00-0	Not Found		ppbv
	Chlorobenzene-d5-IS11111	0-00-0	Not Found		ppbv
	Propylene	0-00-0	Not Found		ppbv
	1,1,1,2-Tetrafluoroethane	0-00-0	Not Found		ppbv
	1,1-Difluoroethane	0-00-0	Not Found		ppbv
	Freon 12	0-00-0	Not Found		ppbv
	Isobutane	0-00-0	Not Found		ppbv
	Freon 114	0-00-0	Not Found		ppbv
	Chloromethane	0-00-0	Not Found		ppbv
	Vinyl Chloride	0-00-0	Not Found		ppbv
	Bromomethane	0-00-0	Not Found		ppbv
	Chloroethane	0-00-0	Not Found		ppbv
	Vinyl bromide	0-00-0	Not Found		ppbv
	1,1-Dichloroethene	0-00-0	Not Found		ppbv
	Freon 113	0-00-0	Not Found		ppbv
	Acrolein	0-00-0	Not Found		ppbv
	2-Propanol	0-00-0	Not Found		ppbv
	3-Chloropropene	0-00-0	Not Found		ppbv
	2-Methylpentane	0-00-0	Not Found		ppbv
	Methyl Acetate	0-00-0	Not Found		ppbv
	tert-Butyl alcohol	0-00-0	Not Found		ppbv
	Methyl tert-butyl ether	0-00-0	Not Found		ppbv
	trans-1,2-Dichloroethene	0-00-0	Not Found		ppbv
	Acrylonitrile	0-00-0	Not Found		ppbv
	Hexane	0-00-0	Not Found		ppbv
	Isopropyl ether	0-00-0	Not Found		ppbv
	1,1-Dichloroethane	0-00-0	Not Found		ppbv
	Vinyl Acetate	0-00-0	Not Found		ppbv
	Chloroprene	0-00-0	Not Found		ppbv
	Ethyl-tert-butyl ether	0-00-0	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
	Chloroform	0-00-0	Not Found		ppbv
	Cyclohexane	0-00-0	Not Found		ppbv
	2,3-Dimethylpentane	0-00-0	Not Found		ppbv
	1,1,1-Trichloroethane	0-00-0	Not Found		ppbv
	Carbon Tetrachloride	0-00-0	Not Found		ppbv
	1,1-Dichloropropene	0-00-0	Not Found		ppbv
	tert-Amyl Methyl ether	0-00-0	Not Found		ppbv
	1,2-Dichloroethane	0-00-0	Not Found		ppbv
	Thiophene	0-00-0	Not Found		ppbv

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Media Certification Report

File/Canister #: F040109;500ml #4297;He Manifold Cert:1
Date: 4/1/2008 14:42:43

Peak #	Quantification	CAS	Type	Concentration	Units
	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
	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-Dibromoethane (EDB)	0-00-0	Not Found		ppbv
	Nonane	589-43-5	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
	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
	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
	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
	1,2,3-Trimethylbenzene	95-63-6	Not Found		ppbv
	alpha-Chlorotoluene	0-00-0	Not Found		ppbv
	Indan	0-00-0	Not Found		ppbv
	Butylbenzene	0-00-0	Not Found		ppbv
	1,2-Dichlorobenzene	0-00-0	Not Found		ppbv
	Indene	0-00-0	Not Found		ppbv
	Hexachloroethane	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
	1,2,3-Trichlorobenzene	0-00-0	Not Found		ppbv
2	Butane	7782-79-8	Quantified	0.03	ppbv

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Media Certification Report

File/Canister #: F040109;500ml #4297;He Manifold Cert:1
Date: 4/1/2008 14:42:43

Peak #	Quantification	CAS	Type	Concentration	Units
8	Ethanol	865-40-7	Quantified	0.14	ppbv
9	Carbon Disulfide	75-15-0	Quantified	0.03	ppbv
10	Acetone	83718-54-1	Quantified	0.03	ppbv
13	Methylene Chloride	75-09-2	Quantified	0.09	ppbv
19	Bromochloromethane-IS	74-97-5	Quantified	5.00	ppbv
20	Tetrahydrofuran	55556-86-0	Quantified	0.05	ppbv
22	Benzene	2809-69-0	Quantified	0.02	ppbv
23	1,2-Dichloroethane-d4	930-29-0	Quantified	5.15	ppbv
26	1,4-Difluorobenzene-IS	540-36-3	Quantified	5.00	ppbv
29	Dibromomethane	55481-88-4	Quantified	0.00	ppbv
30	Toluene-D8	2037-26-5	Quantified	5.41	ppbv
31	Toluene	22635-78-5	Quantified	0.01	ppbv
35	Chlorobenzene-d5-IS	3114-55-4	Quantified	5.00	ppbv
37	m,p-Xylene	0-00-0	Quantified	0.02	ppbv
39	Bromofluorobenzene	1073-06-9	Quantified	5.05	ppbv

DATA REVIEW CHECKLIST

Work Order #: 0804255

A	R	T	M	Q	Item
☑	☑	☐	☑	☐	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)
NA	NA	☐	NA	☐	Corrective Action issued - #
☐	☑	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

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

A	R	T	M	Q	Item
☑	☑	☐		☐	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)
	NA	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
NA	☐	☐	☐		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) — N_2 circled; ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L) — 6L circled
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	NA		NA		Extra printed copies are provided per client profile
	☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☑	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: ⊖ out in CCV
Dup O/A

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
	R: [signature] 4-23-08	NK 4/23/08	
	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