
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 #: 0802602

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Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 3/15/08

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0802602

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	02/28/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/12/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	DW AMS-1 DW	Modified TO-15	7.5 "Hg	5 psi
02A	UW AMS-5 UW	Modified TO-15	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 03/12/08

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0802602

Two 6 Liter Summa Canister samples were received on February 28, 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

The Chain of Custody (COC) information for samples DW AMS-1 DW and UW AMS-5 UW did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

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
DW AMS-1 DW	0802602-01A	2/27/2008	2/28/2008	NA	9	3/ 7/2008	NA	Good
UW AMS-5 UW	0802602-02A	2/27/2008	2/28/2008	NA	9	3/ 7/2008	NA	Good
Lab Blank	0802602-03A	NA	NA	NA	NA	3/ 7/2008	NA	Good
CCV	0802602-04A	NA	NA	NA	NA	3/ 7/2008	NA	Good
LCS	0802602-05A	NA	NA	NA	NA	3/ 7/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS-1 DW

Lab ID#: 0802602-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.6	5.0	8.5	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS-1 DW

Lab ID#: 0802602-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030721**	**Date of Collection: 2/27/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 3/7/08 09:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.90	Not Detected	4.4	Not Detected
Freon 114	0.90	Not Detected	6.2	Not Detected
Vinyl Chloride	0.90	Not Detected	2.3	Not Detected
Bromomethane	0.90	Not Detected	3.5	Not Detected
Chloroethane	0.90	Not Detected	2.4	Not Detected
Freon 11	0.90	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Freon 113	0.90	Not Detected	6.8	Not Detected
Methylene Chloride	0.90	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.90	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
Chloroform	0.90	Not Detected	4.4	Not Detected
1,1,1-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Carbon Tetrachloride	0.90	Not Detected	5.6	Not Detected
Benzene	0.90	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.90	Not Detected	3.6	Not Detected
Trichloroethene	0.90	Not Detected	4.8	Not Detected
1,2-Dichloropropane	0.90	Not Detected	4.1	Not Detected
cis-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
Toluene	0.90	Not Detected	3.4	Not Detected
trans-1,3-Dichloropropene	0.90	Not Detected	4.1	Not Detected
1,1,2-Trichloroethane	0.90	Not Detected	4.9	Not Detected
Tetrachloroethene	0.90	Not Detected	6.1	Not Detected
1,2-Dibromoethane (EDB)	0.90	Not Detected	6.9	Not Detected
Chlorobenzene	0.90	Not Detected	4.1	Not Detected
Ethyl Benzene	0.90	Not Detected	3.9	Not Detected
m,p-Xylene	0.90	Not Detected	3.9	Not Detected
o-Xylene	0.90	Not Detected	3.9	Not Detected
Styrene	0.90	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.90	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,2,4-Trimethylbenzene	0.90	Not Detected	4.4	Not Detected
1,3-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,4-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
alpha-Chlorotoluene	0.90	Not Detected	4.6	Not Detected
1,2-Dichlorobenzene	0.90	Not Detected	5.4	Not Detected
1,3-Butadiene	0.90	Not Detected	2.0	Not Detected
Hexane	0.90	Not Detected	3.2	Not Detected
Cyclohexane	0.90	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS-1 DW

Lab ID#: 0802602-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030721**	**Date of Collection: 2/27/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 3/7/08 09:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	5.0	8.5	12
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	Not Detected	6.7	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	96	70-130

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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-07mar.b/5030721.d
Lab Smp Id: 0802602-01A
Inj Date : 07-MAR-2008 21:10
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #34213
Misc Info : 7.5"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-07mar.b/t14q221a.m
Meth Date : 07-Mar-2008 10:09 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	319178	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	260514			47.47- 107.47	81.62
8.059	8.059 (1.000)	49	724777			180.06- 240.06	227.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1120156	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	162815			0.00- 45.68	14.54
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	780723	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	441094			0.00- 30.00	56.50
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	504079	20.7828	20.783	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	233577			19.51- 79.51	46.34
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	959267	23.3543	23.354	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	104694			0.00- 41.02	10.91

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	629183			39.73- 99.73	65.59
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	488733	24.0617	24.062	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	665371			113.38- 173.38	136.14
16.575	16.575 (1.105)	176	453492			64.02- 124.02	92.79
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.592)	58	35995	2.80194	5.015	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	89376			0.00- 30.00	248.30

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5030721.d
Lab Smp Id: 0802602-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 7.5"Hg --> 5psi GEI

Calibration Date: 07-MAR-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	492446	295468	689424	319178	-35.19
92 1,4-Difluorobenze	1731657	1038994	2424320	1120156	-35.31
125 Chlorobenzene-d5	1133757	680254	1587260	780723	-31.14

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-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.

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RECOVERY REPORT

Client Name: Client SDG: 5-07mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802602-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 7.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.783	83.13	70-130
$ 107 Toluene-d8	25.000	23.354	93.42	70-130
$ 138 Bromofluorobenzene	25.000	24.062	96.25	70-130

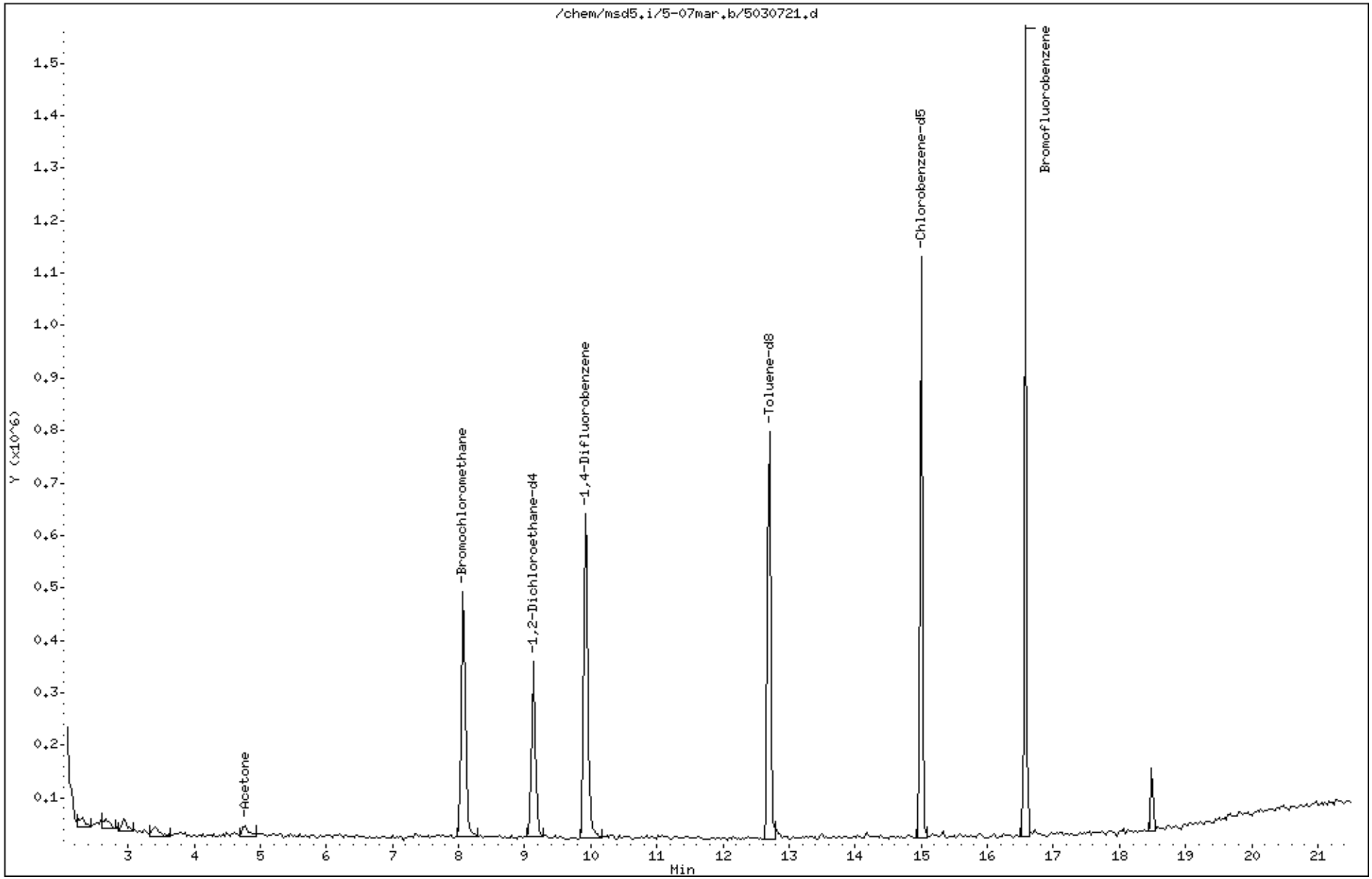
0013

Data File: /chem/msd5.i/5-07mar.b/5030721.d
Date : 07-MAR-2008 21:10
Client ID:
Sample Info: 200mL #34213

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Data File: /chem/msd5.i/5-07mar.b/5030721.d

Date : 07-MAR-2008 21:10

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34213

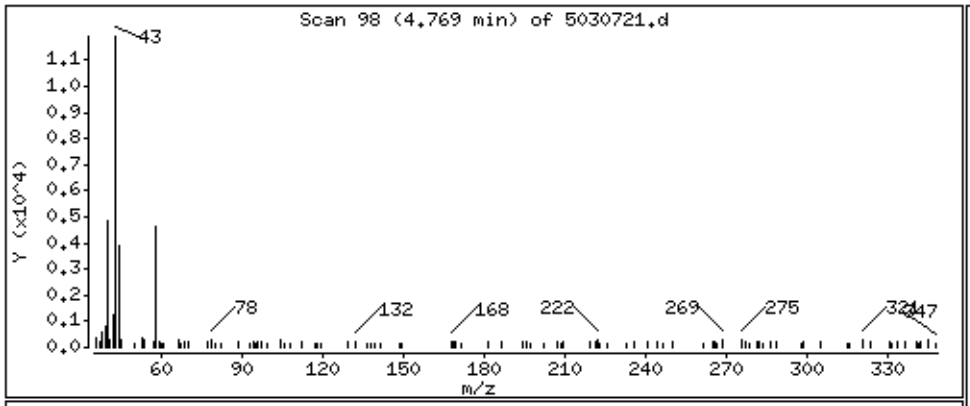
Operator: cb

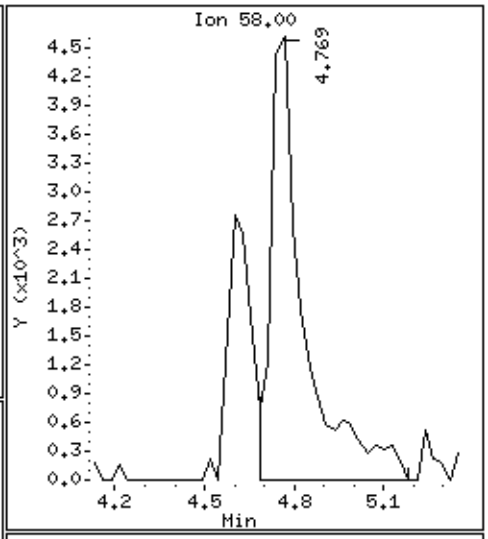
Column phase: RTx-624

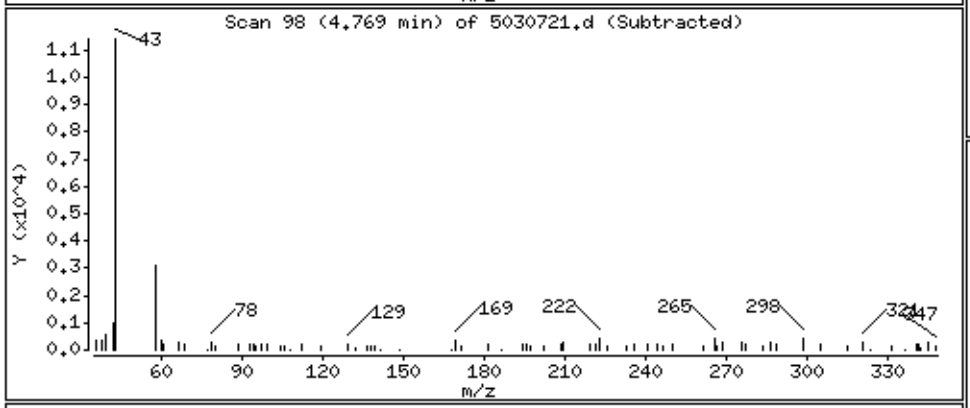
Column diameter: 0.53

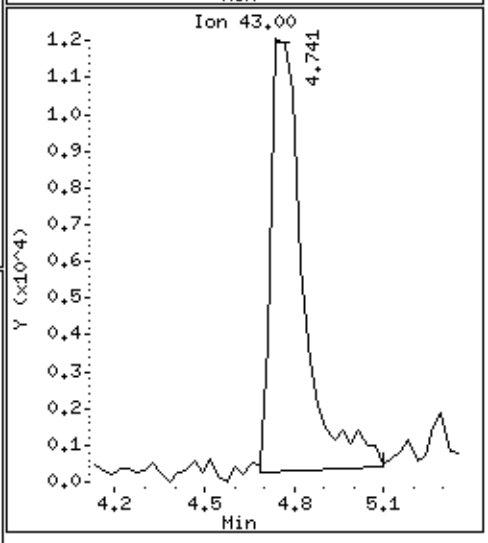
32 Acetone

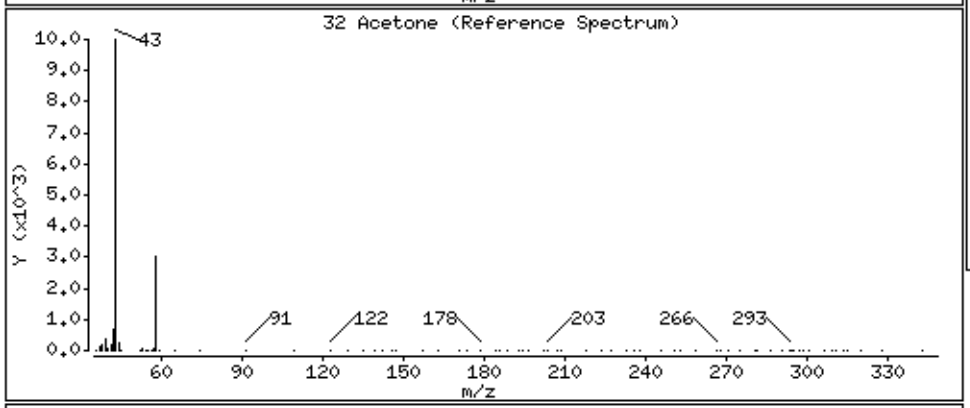
Concentration: 5.015 PPBV

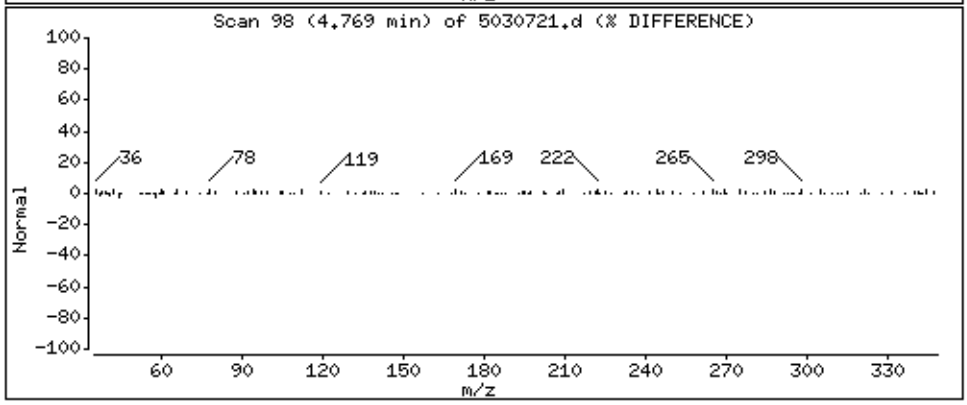












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS-5 UW

Lab ID#: 0802602-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.5	4.7	8.3	11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS-5 UW

Lab ID#: 0802602-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030722**	**Date of Collection:**	**2/27/08**
Dil. Factor:	**1.75**	**Date of Analysis:**	**3/7/08 09:43 PM**

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS-5 UW

Lab ID#: 0802602-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030722**	**Date of Collection: 2/27/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 3/7/08 09:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	4.7	8.3	11
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-07mar.b/5030722.d
Lab Smp Id: 0802602-02A
Inj Date : 07-MAR-2008 21:43
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #4242
Misc Info : 7.0"Hg --> 5psi GEI
Comment :
Method : /chem/msd5.i/5-07mar.b/t14q221a.m
Meth Date : 07-Mar-2008 10:09 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.75000
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	329553	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	248795			47.47- 107.47	75.49
8.059	8.059 (1.000)	49	714841			180.06- 240.06	216.91
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1110961	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	177602			0.00- 45.68	15.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	772108	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	440958			0.00- 30.00	57.11
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	500857	19.9999	20.000	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	231672			19.51- 79.51	46.26
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	930888	22.8510	22.851	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	92506			0.00- 41.02	9.94

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	652713			39.73- 99.73	70.12
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	478203	23.8060	23.806	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	675873			113.38- 173.38	141.34
16.575	16.575 (1.105)	176	454706			64.02- 124.02	95.09
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	35673	2.68945	4.706	80.00- 120.00	100.00
4.769	4.741 (0.592)	43	103506			0.00- 30.00	290.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5030722.d
Lab Smp Id: 0802602-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 7.0"Hg --> 5psi GEI

Calibration Date: 07-MAR-2008
Calibration Time: 09:08
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	492446	295468	689424	329553	-33.08
92 1,4-Difluorobenze	1731657	1038994	2424320	1110961	-35.84
125 Chlorobenzene-d5	1133757	680254	1587260	772108	-31.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-07mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0802602-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 7.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.000	80.00	70-130
$ 107 Toluene-d8	25.000	22.851	91.40	70-130
$ 138 Bromofluorobenzene	25.000	23.806	95.22	70-130

Data File: /chem/msd5.i/5-07mar.b/5030722.d

Date : 07-MAR-2008 21:43

Client ID:

Sample Info: 200mL #4242

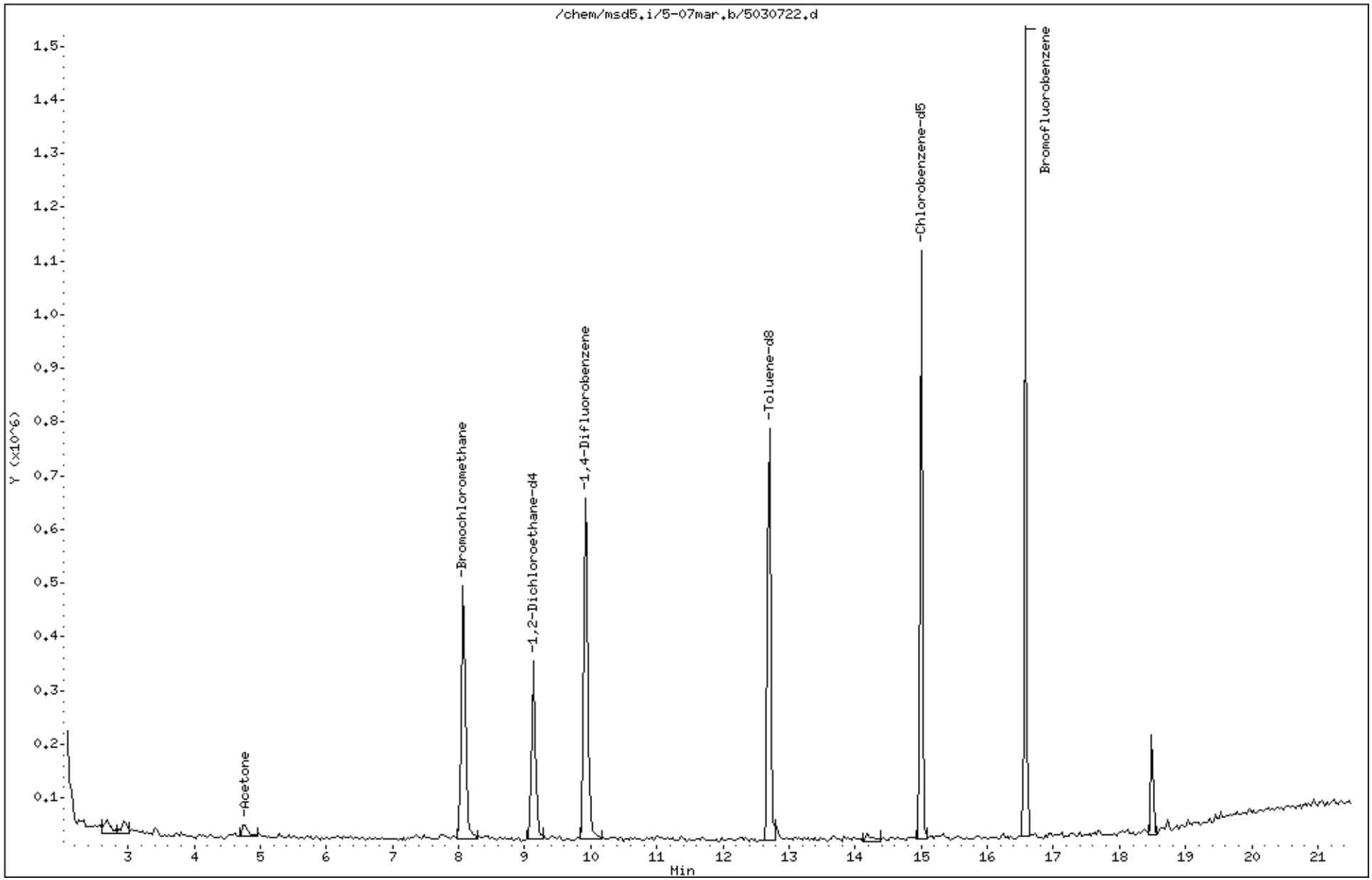
Column phase: RTx-624

Instrument: msd5.i

Operator: cb

Column diameter: 0.53

0022



Data File: /chem/msd5.i/5-07mar.b/5030722.d

Date : 07-MAR-2008 21:43

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4242

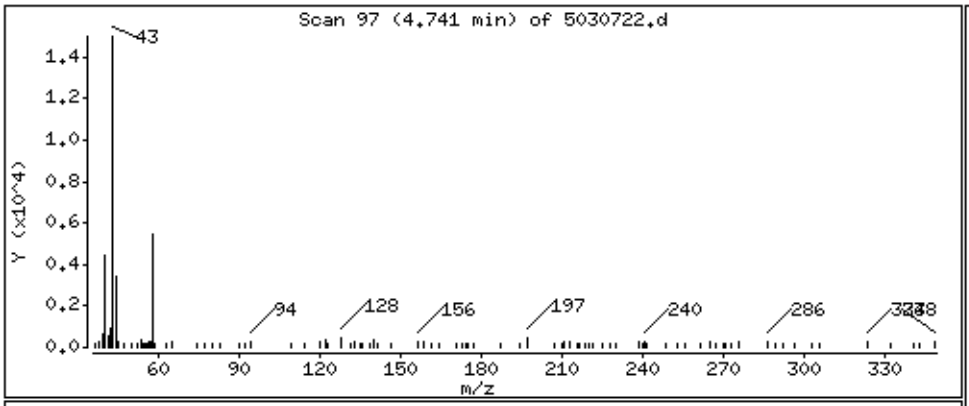
Operator: cb

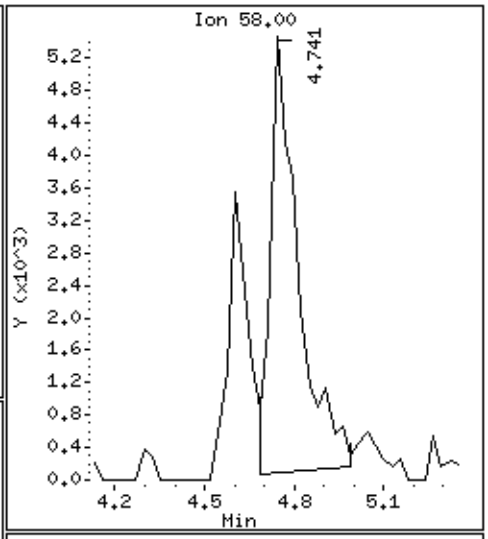
Column phase: RTx-624

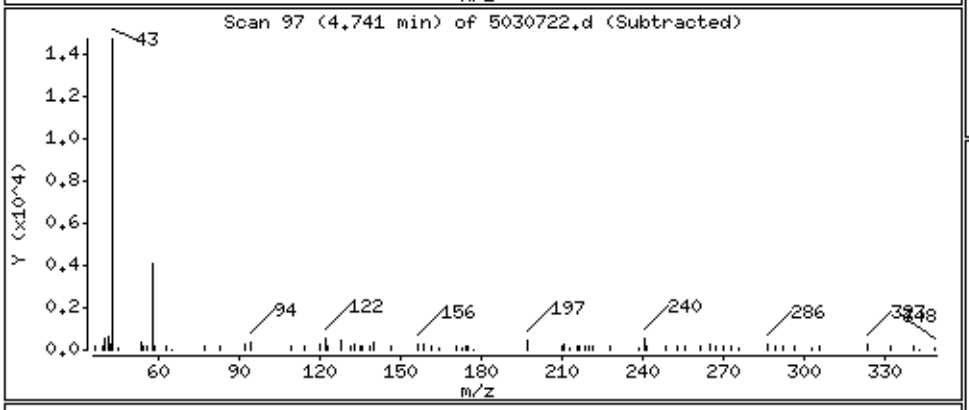
Column diameter: 0.53

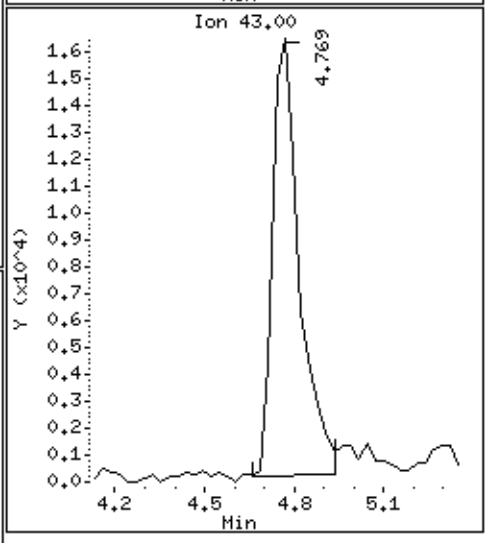
32 Acetone

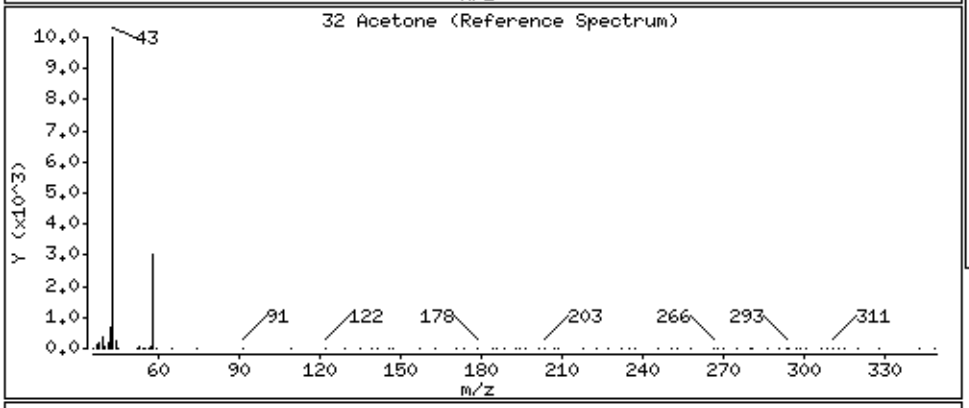
Concentration: 4.706 PPBV

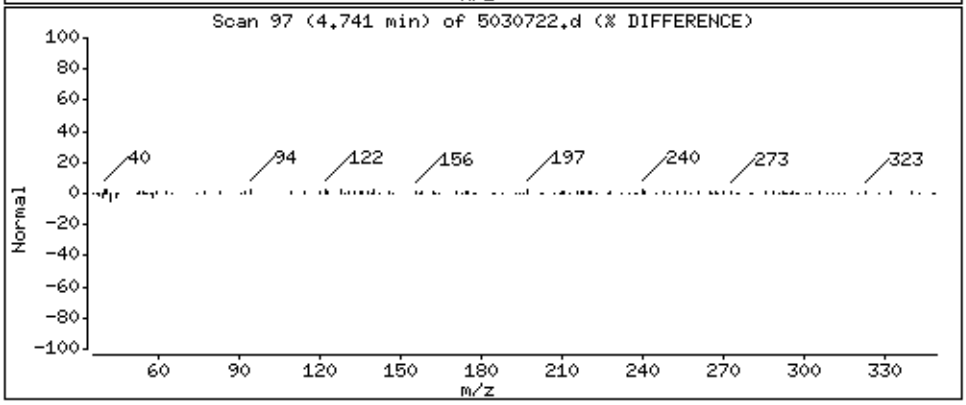












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0802602-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 10:27 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0802602-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 10:27 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-07mar.b/5030704.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 07-MAR-2008 10:27
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid Cert Cart #11 Leg 6
Comment :
Method : /chem/msd5.i/5-07mar.b/t14q221a.m
Meth Date : 07-Mar-2008 10:09 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	362901	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	277819			47.47- 107.47	76.56
8.059	8.059 (1.000)	49	809638			180.06- 240.06	223.10
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1303317	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	210308			0.00- 45.68	16.14
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	851596	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	481151			0.00- 30.00	56.50
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	550333	19.9561	19.956	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	249470			19.51- 79.51	45.33
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1105090	23.1235	23.124	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	120874			0.00- 41.02	10.94

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	732552			39.73- 99.73	66.29
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	504838	22.7861	22.786	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	769882			113.38- 173.38	152.50
16.575	16.575 (1.105)	176	496950			64.02- 124.02	98.44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5030704.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: Humid Cert Cart #11 Leg 6

Calibration Date: 07-MAR-2008
Calibration Time: 09:08
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	492446	295468	689424	362901	-26.31
92 1,4-Difluorobenze	1731657	1038994	2424320	1303317	-24.74
125 Chlorobenzene-d5	1133757	680254	1587260	851596	-24.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-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.

Report Date: 07-Mar-2008 10:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-07mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: Humid Cert Cart #11 Leg 6

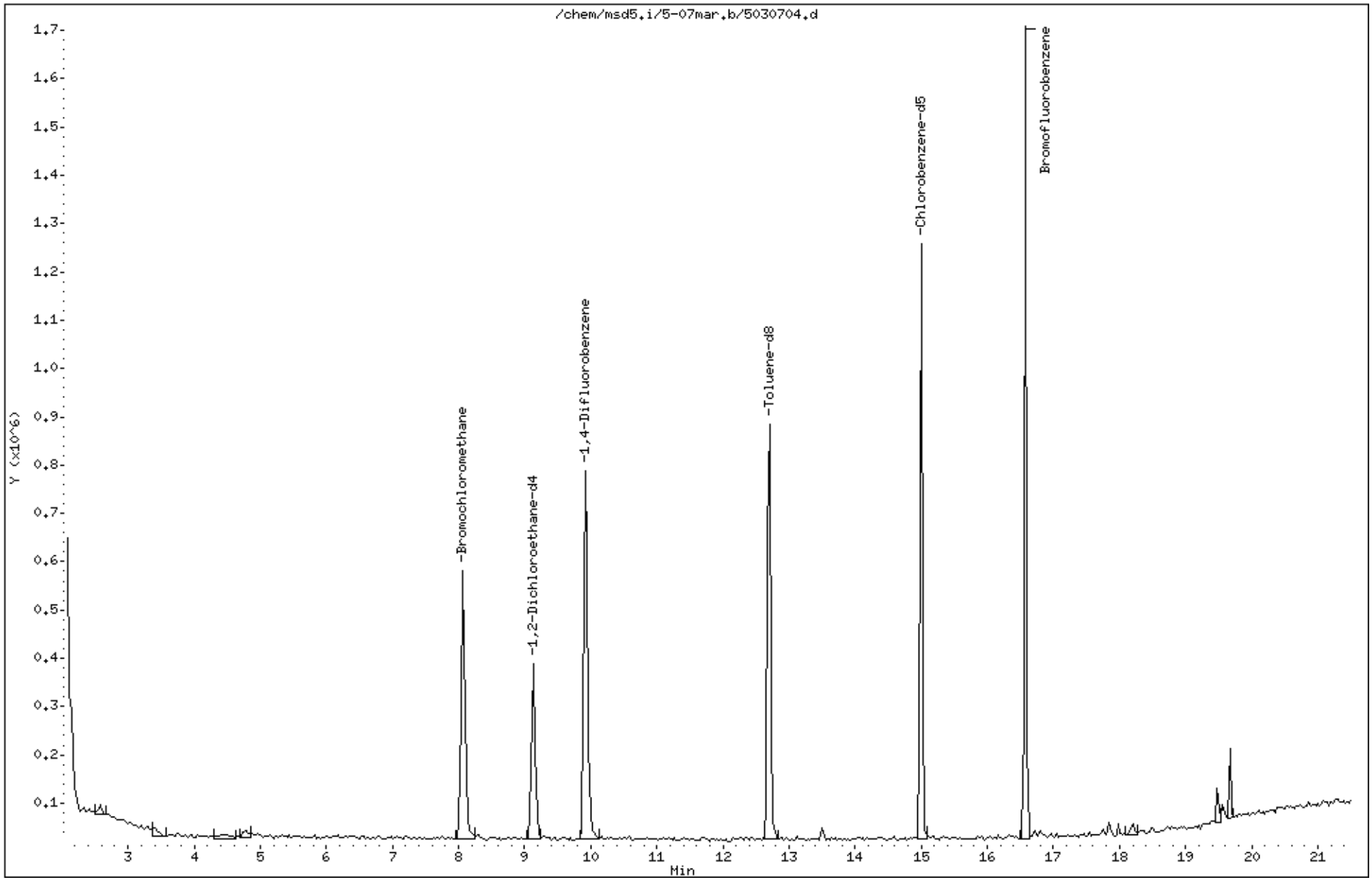
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	19.956	79.82	70-130
$ 107 Toluene-d8	25.000	23.124	92.49	70-130
$ 138 Bromofluorobenzene	25.000	22.786	91.14	70-130

0031

Data File: /chem/msd5.i/5-07mar.b/5030704.d
Date : 07-MAR-2008 10:27
Client ID: Lab Blank
Sample Info: 200mL #12941

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

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0802602

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	DW AMS-1 DW	83		93		96				0
02	UW AMS-5 UW	80		91		95				0
03	Lab Blank	80		92		91				0
04	CCV	80		94		97				0
05	LCS	79		101		94				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0802602
Lab File ID: 5030702.d
Date Analyzed: 03/07/2008
Instrument ID: msd5.i
Time Analyzed: 09:08 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1133757		15		1731657		9.94		492446		8.06	
	UPPER LIMIT	1587260		15.33		2424320		10.27		689424		08.39	
	LOWER LIMIT	680254		14.67		1038994		09.61		295468		07.73	
	CLIENT SAMPLE NO												
01	DW AMS-1 DW	780723		15		1120156		9.91		319178		8.06	
02	UW AMS-5 UW	772108		15		1110961		9.91		329553		8.06	
03	Lab Blank	851596		15		1303317		9.91		362901		8.06	
04	CCV	1133757		15		1731657		9.94		492446		8.06	
05	LCS	898093		15		1257964		9.91		361952		8.06	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-21feb.b/5022124.d
Level 2: /chem/msd5.i/5-21feb.b/5022116.d
Level 3: /chem/msd5.i/5-21feb.b/5022127.d
Level 4: /chem/msd5.i/5-21feb.b/5022118.d
Level 5: /chem/msd5.i/5-21feb.b/5022128.d
Level 6: /chem/msd5.i/5-21feb.b/5022120.d
Level 7: /chem/msd5.i/5-21feb.b/5022129.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	___ RRF	% RSD
	200.000 Level 7							
1 Freon134a	+++++	+++++	1.16481	+++++	1.55659	+++++		
	1.48835						1.40325	14.915
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Freon 152a	+++++	+++++	0.90256	+++++	1.12951	+++++		
	1.04656						1.02621	11.190
4 Freon 22	+++++	+++++	0.39371	+++++	0.43760	+++++		
	0.42336						0.41822	5.354
5 Freon142b	+++++	+++++	2.70523	+++++	3.57481	+++++		
	3.30791						3.19598	13.938
6 Propylene	+++++	+++++	1.87422	2.26754	2.16015	2.13319		
	2.04178						2.09538	7.040
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Cal Date : 22-Feb-2008 13:20 cbond
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							
8 Dichlorodifluoromethane/Fr12	+++++	3.14665	3.11114	4.56475	4.24993	4.38353		
	4.06611						3.92035	16.185
9 Freon 114	+++++	2.49652	2.28039	3.29557	3.24052	3.14282		
	3.02027						2.91268	14.498
10 Chloromethane	+++++	+++++	2.31058	3.00111	2.86982	2.91505		
	3.00896						2.82110	10.327
11 Butane	+++++	+++++	0.56527	0.62067	0.57606	0.57619		
	0.58412						0.58446	3.648
12 1,3-Butadiene	+++++	1.95363	1.76722	2.31449	2.27489	2.23740		
	2.21758						2.12753	10.231
13 Vinyl Chloride	+++++	1.63343	1.62370	2.30709	2.21005	2.23114		
	2.17285						2.02971	15.461
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Bromomethane	+++++	0.88801	0.71688	1.31345	1.24194	1.27744		
	1.26551						1.11721	22.450
16 Dichlorofluoromethane/Fr21	+++++	+++++	1.98272	+++++	2.73462	+++++		
	2.66043						2.45926	16.849
17 Isopentane	+++++	+++++	2.77382	4.09473	3.91094	3.87319		
	3.88312						3.70716	14.283

Air Toxics Ltd.

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Cal Date : 22-Feb-2008 13:20 cbond
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	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Chloroethane	+++++	0.71041	0.76040	1.21536	1.10272	1.08616		
	1.10094						0.99600	20.855
20 Trichlorofluoromethane/Fr11	+++++	3.66972	3.74755	4.95025	4.57973	4.60486		
	4.57607						4.35470	11.953
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	1.06542	+++++	1.26585	+++++		
	1.23060						1.18729	9.012
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	0.14900	+++++	0.17799	+++++		
	0.18280						0.16993	10.762
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Ethanol	+++++	+++++	0.59897	0.97870	0.96726	0.93776		
	0.95548						0.88763	18.259
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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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
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.72582	1.97057	2.51603	2.33810	2.37838	2.38512	2.21900	13.674
31 1,1-Dichloroethene	+++++	2.51001	2.44890	3.50328	3.34621	3.29988	3.33960	3.07465	15.177
32 Acetone	+++++	+++++	0.75089	1.11147	1.06137	1.05477	1.05257	1.00622	14.386
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	2.88571	2.89147	4.16579	4.00372	4.05510	4.09202	3.68230	16.758
36 2-Propanol	+++++	+++++	3.01470	4.60469	4.50407	4.63163	4.60817	4.27265	16.499
37 tert-Butyl-Alcohol	+++++	+++++	1.84795	2.31768	1.97996	1.73587	1.29011	1.83431	20.414

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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	+++++	+++++	0.52902	0.71738	0.68940	0.67575	0.71461	0.66523	11.742
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	2.23643	2.47508	2.96978	2.83969	2.82475	2.77470	2.68674	10.232
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	1.38462	1.04048	2.17662	2.13859	2.28774	2.00203	1.83835	27.477
47 trans-1,2-Dichloroethene	+++++	1.46727	1.28004	1.58048	1.54497	1.52786	1.55397	1.49243	7.419

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Cal Date : 22-Feb-2008 13:20 cbond
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							
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Isopropyl ether	+++++	+++++	5.64052	+++++	8.16267	+++++		
	7.93215						7.24511	19.246
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Hexane	+++++	3.33979	2.47930	4.11946	3.83082	3.91085		
	3.91058						3.59847	16.857
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 1,1-Dichloroethane	+++++	2.78205	2.48749	3.45179	3.29620	3.24930		
	3.31645						3.09721	12.146
56 Vinyl Acetate	+++++	+++++	0.25289	0.33381	0.36278	0.37606		
	0.37667						0.34044	15.255
57 Ethyl-tert-butyl Ether	+++++	+++++	2.26511	+++++	3.83146	+++++		
	3.23019						3.10892	25.417

Air Toxics Ltd.

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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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	0.22239	+++++	0.28362	+++++	0.28816	0.26472	13.875
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	0.37933	+++++	0.38293	+++++	0.41990	0.39405	5.699
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.35661	1.98804	2.76495	2.60478	2.57213	2.60071	2.31454	23.343
67 2-Butanone	+++++	0.39141	0.47398	0.64147	0.63965	0.66290	0.64939	0.57647	19.894

Air Toxics Ltd.

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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
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	3.31656	2.32985	3.01253	2.86514	2.86732	2.85416	2.87426	11.130
72 Chloroform	3.40356	2.04653	2.24322	3.03597	2.84661	2.87939	2.85342	2.75838	16.855
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.44900	1.41186	1.95852	1.88041	1.86697	1.88923	1.74267	14.013
75 1,1,1-Trichloroethane	+++++	1.87661	2.33675	3.45867	3.36481	3.26582	3.26918	2.92864	22.432
76 Isobutanol	+++++	+++++	0.32972	+++++	0.47611	+++++	0.50303	0.43629	21.377
77 Carbon Tetrachloride	+++++	2.65533	2.28554	3.50510	3.28849	3.25490	3.35001	3.05656	15.594
78 tert-amyl-Methyl Ether	+++++	+++++	1.91399	+++++	2.78702	+++++	2.18007	2.29369	19.509

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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	+++++	7.56247	7.91215	10.88599	10.33708	10.24143		
	9.92001						9.47652	14.637
81 Benzene	1.00587	0.76965	0.76871	1.07762	1.01145	1.01070		
	0.95463						0.94266	13.129
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,2-Dichloroethane	+++++	0.60921	0.65507	0.80162	0.75241	0.74115		
	0.72521						0.71411	9.796
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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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							
90 Heptane	+++++	0.08099	0.12394	0.14378	0.13692	0.12924		
	0.13109						0.12433	17.930
91 1-Butanol	+++++	+++++	0.17070	+++++	0.34320	+++++		
	0.38461						0.29950	37.881
93 Trichloroethene	+++++	0.46165	0.37362	0.47968	0.45648	0.46106		
	0.44378						0.44604	8.364
94 Methyl Cyclohexane	+++++	0.49944	0.47109	0.67767	0.64295	0.63223		
	0.61113						0.58908	14.214
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
98 1,2-Dichloropropane	+++++	0.40497	0.33189	0.46456	0.43632	0.43571		
	0.42712						0.41676	10.982
99 1,4-Dioxane	+++++	+++++	0.14719	0.23830	0.23853	0.23147		
	0.22607						0.21631	18.023
100 Bromodichloromethane	+++++	0.63527	0.59489	0.83811	0.79456	0.78935		
	0.76547						0.73627	13.256

Air Toxics Ltd.

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Integrator : HP RTE
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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							
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.37828	0.37259	0.54954	0.53820	0.54663		
	0.52424						0.48492	17.586
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.27404	0.31860	0.45121	0.42635	0.44076		
	0.40327						0.38570	18.787
108 Toluene	+++++	0.66734	0.85599	1.17237	1.11227	1.10126		
	1.01399						0.98720	19.389
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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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							
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.61374	0.52681	0.86882	0.85186	0.87776		
	0.86656						0.76759	20.260
114 1,1,2-Trichloroethane	+++++	0.34903	0.39060	0.57271	0.55694	0.53618		
	0.52618						0.48861	19.309
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Tetrachloroethene	+++++	0.55791	0.58077	0.77867	0.72775	0.72011		
	0.69985						0.67751	12.991
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
118 Butyl Acetate	+++++	+++++	0.38981	+++++	0.52641	+++++		
	0.52987						0.48203	16.572
119 2-Hexanone	+++++	+++++	0.51592	0.79486	0.81086	0.82197		
	0.80656						0.75003	17.497
120 Dibromochloromethane	+++++	0.78939	0.69744	1.11376	1.07521	1.07392		
	1.06446						0.96903	18.365
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
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							
122 1,2-Dibromoethane	+++++	0.67218	0.63218	0.93135	0.90721	0.91273		
	0.89335						0.82483	16.353
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	1.13803	0.95312	1.38699	1.37768	1.35163		
	1.30731						1.25246	13.798
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.59606	0.50872	0.75825	0.70229	0.70734		
	0.65573						0.65473	13.747
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 m,p-Xylene	+++++	0.82262	0.62439	0.96497	0.91978	0.89790		
	0.83331						0.84383	14.229
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	0.70000	0.52808	0.88464	0.86192	0.83045		
	0.77285						0.76299	17.425

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
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							
133 Styrene	1.33098	1.00874	0.93150	1.36632	1.33875	1.31451		
	1.18000						1.21011	14.532
134 Bromoform	+++++	0.61168	0.60279	0.92485	0.91853	0.92155		
	0.90100						0.81340	19.662
135 Cyclohexanone	+++++	+++++	0.75015	+++++	0.88923	+++++		
	0.91965						0.85301	10.594
136 Cumene	2.91075	1.80187	2.03144	2.92881	2.82129	2.73613		
	2.51243						2.53467	17.719
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.77158	0.85311	1.16841	1.11367	1.07802		
	1.06649						1.00855	15.684
142 Propylbenzene	+++++	2.07292	2.23482	3.14729	3.01136	2.91951		
	2.79710						2.69717	16.281
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
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
144 4-Ethyltoluene	+++++	1.92976	2.13965	2.96054	2.87045	2.72444	2.62842	2.54221	16.319
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	2.18915	+++++	2.59205	+++++	2.18282	2.32134	10.100
147 1,3,5-Trimethylbenzene	+++++	2.00948	1.85423	2.74041	2.62326	2.53808	2.30950	2.34583	15.081
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	1.61768	1.59035	2.24610	2.20499	2.15852	2.09479	1.98540	15.100
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
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	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 1,3-Dichlorobenzene	+++++	1.09760	1.15558	1.39003	1.34518	1.32083		
	1.27377						1.26383	9.038
156 1,4-Dichlorobenzene	+++++	1.27772	1.29011	1.72546	1.71467	1.62828		
	1.58948						1.53762	13.212
157 alpha-Chlorotoluene	+++++	1.16051	1.53843	2.49791	2.54727	2.64642		
	2.14011						2.08844	29.171
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
159 1,2-Dichlorobenzene	+++++	1.23929	1.24415	1.40924	1.36526	1.32738		
	1.27799						1.31055	5.238
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	1.02493	1.00169	1.01355	1.01035		
	0.96603						1.00331	2.237

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-21feb.b/t14q221a.m
Cal Date : 22-Feb-2008 13:20 cbond
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	+++++	+++++	0.91351	0.92065	0.90309	0.89272		
	0.85353						0.89670	2.938
165 Naphthalene	+++++	+++++	3.42148	3.13554	3.44149	3.43658		
	2.18245						3.12351	17.342
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.81113	1.91849	1.85262	1.86274	1.90459		
	2.04905						1.89977	4.348
$ 107 Toluene-d8	+++++	0.92506	0.91615	0.92431	0.91119	0.93495		
	0.88862						0.91671	1.745
$ 138 Bromofluorobenzene	+++++	0.66857	0.65384	0.64784	0.64173	0.65527		
	0.63521						0.65041	1.790

Calibration History

Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Start Cal Date: 21-FEB-2008 18:11
End Cal Date : 22-FEB-2008 12:09

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
22-FEB-2008 08:57	AFCEElow	/chem/msd5.i/5-21feb.b/5022124.d
Cal Level: 2 , Cal Amount: 0.50000		
21-FEB-2008 18:11	AT08Low	/chem/msd5.i/5-21feb.b/5022116.d
Cal Level: 3 , Cal Amount: 2.00000		
22-FEB-2008 11:08	sp17a	/chem/msd5.i/5-21feb.b/5022127.d
21-FEB-2008 18:39	AT08mdl	/chem/msd5.i/5-21feb.b/5022117.d
Cal Level: 4 , Cal Amount: 25.00000		
21-FEB-2008 19:07	AT08mdl	/chem/msd5.i/5-21feb.b/5022118.d
Cal Level: 5 , Cal Amount: 50.00000		
22-FEB-2008 11:36	sp17a	/chem/msd5.i/5-21feb.b/5022128.d
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119.d
Cal Level: 6 , Cal Amount: 100.00000		
21-FEB-2008 20:04	AT08mdl	/chem/msd5.i/5-21feb.b/5022120.d
Cal Level: 7 , Cal Amount: 200.00000		
22-FEB-2008 12:09	sp17a	/chem/msd5.i/5-21feb.b/5022129.d
21-FEB-2008 20:36	AT08mdl	/chem/msd5.i/5-21feb.b/5022121.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
22-FEB-2008 11:36	sp17a	/chem/msd5.i/5-21feb.b/5022128.d
Ccal Level: 5 , Ccal Amount: 50.000		
22-FEB-2008 11:36	sp17aCCV	/chem/msd5.i/5-21feb.b/5022128a.d
Ccal Level: 5 , Ccal Amount: 50.000		
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119a.d
Ccal Level: 5 , Ccal Amount: 50.000		
21-FEB-2008 19:35	AT08mdl	/chem/msd5.i/5-21feb.b/5022119.d

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 2/21/2008.

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:
Chloroform, Benzene, Cumene, and Styrene.

0054

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.63
75	30.0 – 60.0% of mass 95	55.88
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	(1.14)[1]
174	Greater than 50.0% of mass 95	66.49
175	5.0 – 9.0% of mass 174	(7.07)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.36)[1]
177	5.0 – 9.0% of mass 176	(6.27)[2]

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

Verify 176/174 m/z Ratio: (902912 / 917852) x100 = 98.362

BFB Injection Date: 2/21/08
BFB Injection Time: 1716
BFB File ID: 5022114
Tekmar Purge Flow: 13.5 mL/min
Vacuum: 4.77x10⁻⁶ torr

IS/S Std.#: 1576-298	Exp. Date: 5-20-08
BCM	300521
1,4-DFB	1106928
CB-d5	791985

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

NOAH Cart #: ______ **File #:** ______

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1008623)}{(1106928)} \times \frac{(25.0)}{(0.91671)} = 24.849$

Reported Result 24.849

File ID:	5022119
Compound:	toluene-d8
Initials:	CB

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5022114	BFB Tune Check	1476-191	50ug	2.0µl	1.00	2/21/08	1716	CB	
2	X	15	ICAL Level 1	1576-263	0.2ppbv	0.2ml	↓	↓	1743	CB	
3	✓	16	2	↓	0.5ppbv	0.5ml			1811	CB	tl#2216
4	✓	17	3		2.0ppbv	2.0ml			1839	CB	↓
5	✓	18	4		25ppbv	25ml			1907	CB	
6	✓	19	5		50ppbv	50ml			1935	CB	CCV
7	✓	20	6		100ppbv	100ml			2004	CB	
8	✓	21	7	↓	200ppbv	200ml			2036	CB	↓
9	X	22	System Blank	12941	Humid	200mL	↓	↓	2137	CB	

Signature: [signature]   Date: 2/22/08

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5022123	~~Lab Blank~~ System Blank	12941	Humid	200mL	1.00	2/22/08	0829	CB	
11	✓	24	ICAL Level 1	1576-263	200ppbv-0.2ppbv	0.2 mL	↓	↓	0857	CB	t14g221a
12	✓	25	LCS - 1 (200ppbv)	1576-260	50ppbv	50mL			0939	CB	ICAL LCS
13	✓	26	System Blank	12941	Humid	200mL			1027	CB	
14	✓	27	ICAL Level 3	1576-299	200ppbv - 2ppbv	2 mL			1108	CB	
15	✓	28	↓ 5	↓	200ppbv-50ppbv	50mL			1136	CB	t14g221g sp17a
16	✓	↓ 29	↓ 7	↓	200ppbv	200mL	↓	↓	1209	CB	CCV
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											CB 2/22/08

0659

Comments: Flow controller S/N #AA920318 Actual: 25.1 mL/min

NIST Flowmeter S/N #200-7744 exp. 8/31/08 Nominal: 22.6 mL/min CB 2/22/08

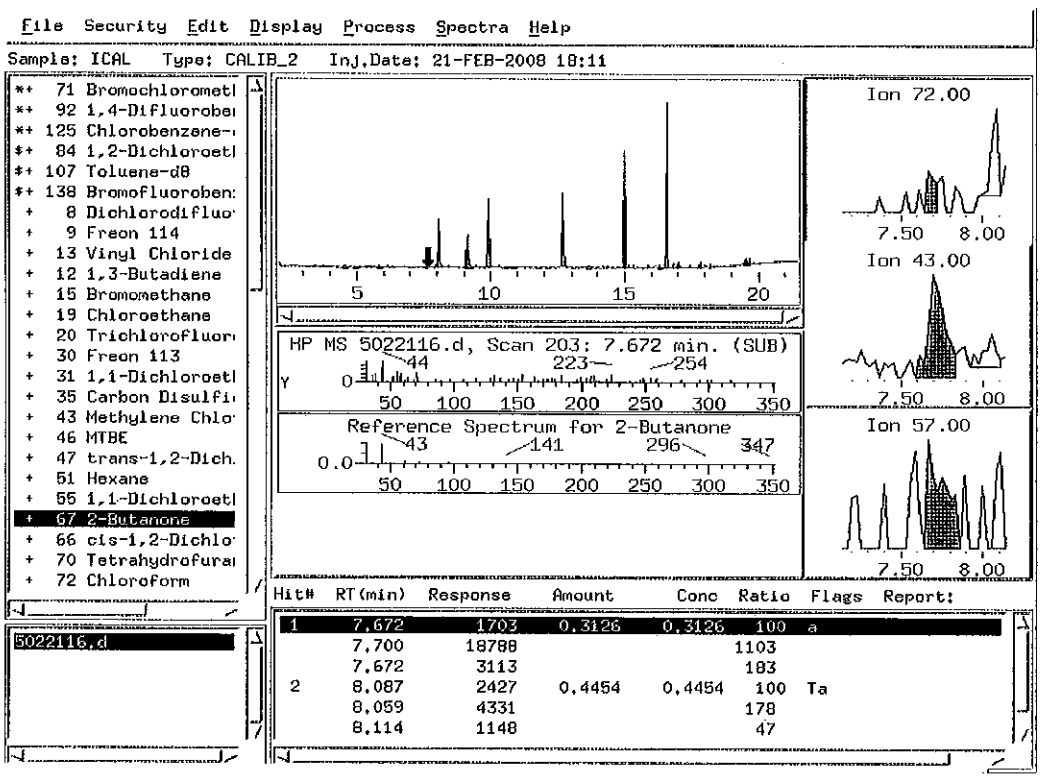
(from 2/15/08)

Signature

2/22/08
Date

Before

Poor integration



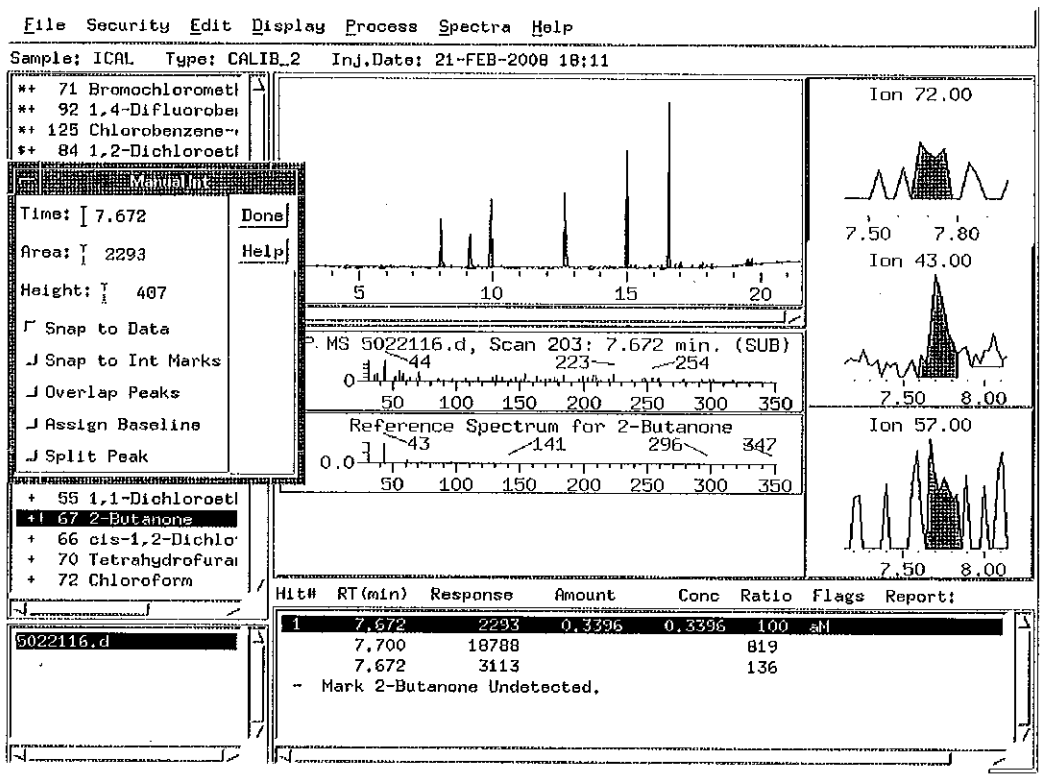
CB 2/22/08

Integration
Split Peak
Peak Tailing
Background Subtraction
In

After

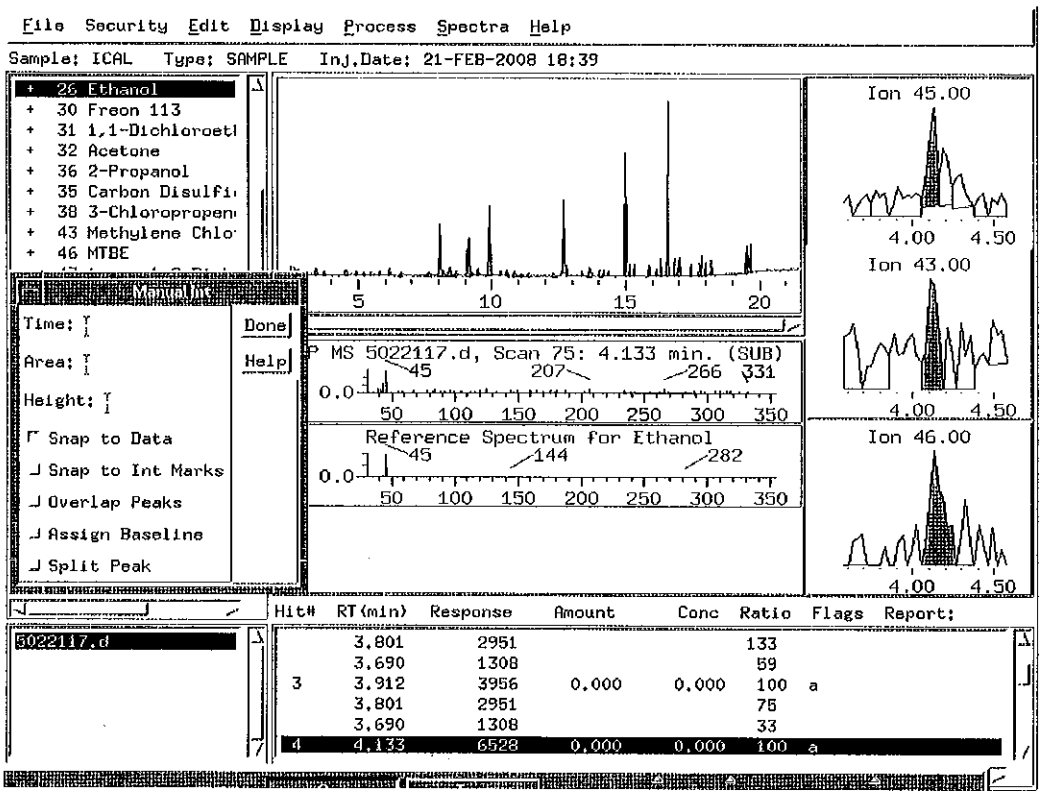
Merged Peak ✓

PR 2/22/08



poor integration

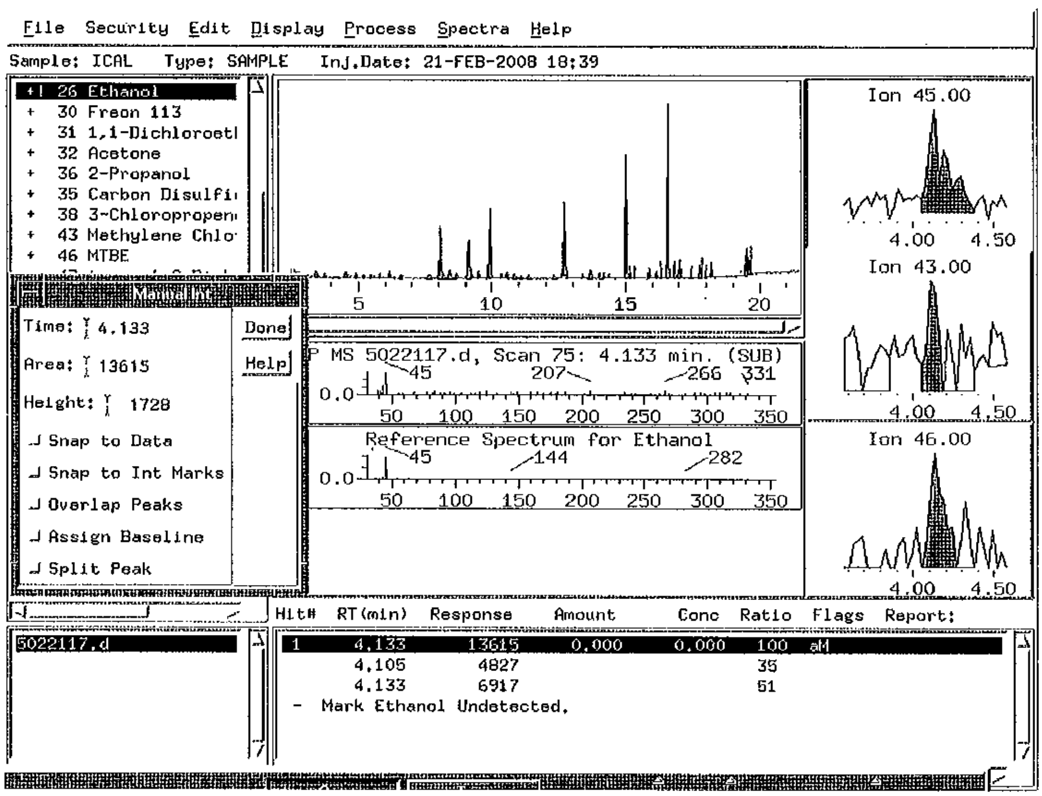
Before



After

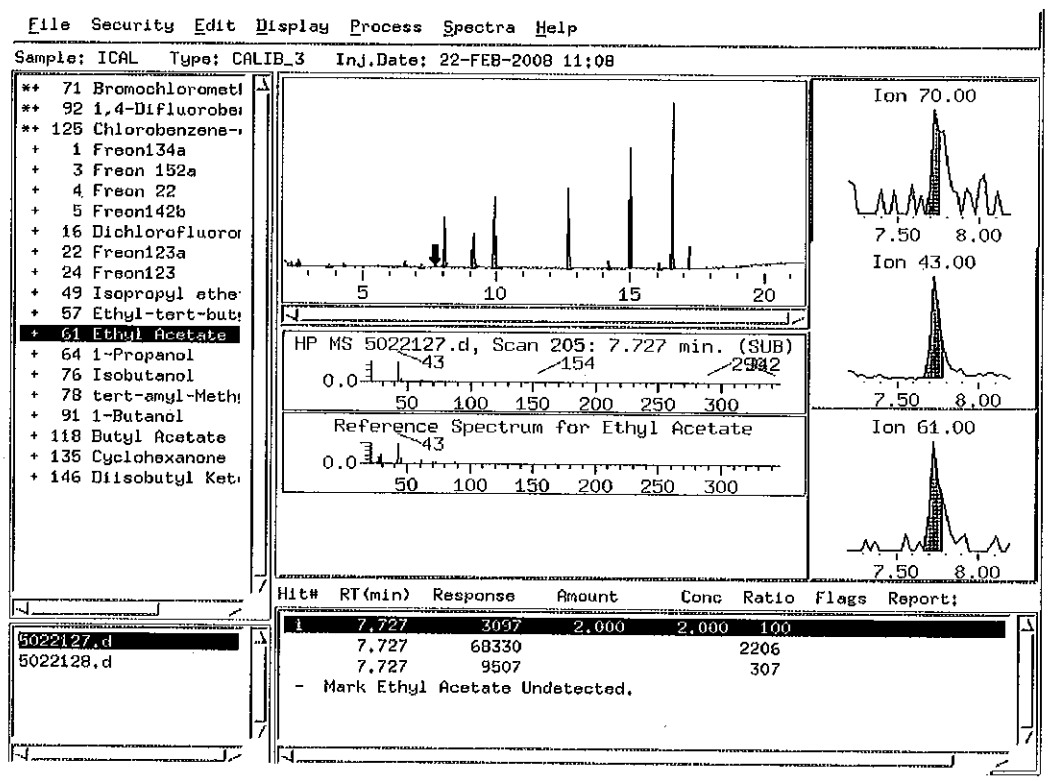
	CB 2/22/08
...ntegration	
...lit Peak	
...ak Tailing	
...kground Subtraction	
...n In	
Merged Peak	✓

MV 2/22/08



poor integration

Before



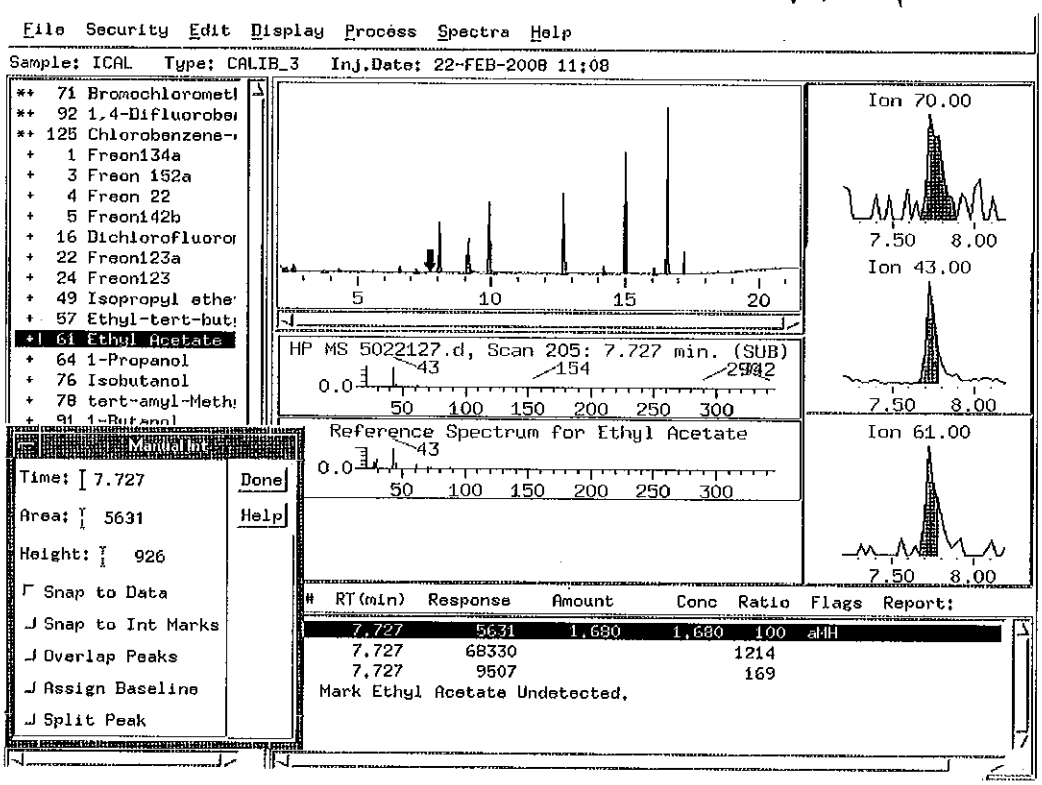
CB 2/22/08

After

Integration
Peak
ak Tailing
kground Subtraction
In

Merged Peak ✓

M 2/22/08



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/5-21feb.b/5022125.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-FEB-2008 09:39
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-260
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:18 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:36 Cal File: 5022121.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	337540	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	265634			50.14- 110.14	78.70
8.059	8.059 (1.000)	49	825165			195.69- 255.69	244.46
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1241560	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	197223			0.00- 46.49	15.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	872849	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	521646			0.00- 30.00	59.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	616977	24.0538	24.054	80.00- 120.00	100.00
9.137	9.110 (1.134)	67	308605			0.00- 30.00	50.02
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1150805	25.2779	25.278	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	127403			0.00- 30.00	11.07

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	794153			0.00- 30.00	69.01
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	563109	24.7974	24.797	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	824901			114.32- 174.32	146.49
16.575	16.575 (1.105)	176	559149			66.86- 126.86	99.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1424273	50.3438	50.344	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	944885			0.00- 30.00	66.34
2.253	2.253 (0.280)	39	975190			0.00- 30.00	68.47
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	2614294	49.3906	49.391	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	824049			0.00- 30.00	31.52
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1989212	50.5828	50.583	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	647056			0.77- 60.77	32.53
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1827605	47.9820	47.982	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	520106			0.00- 30.00	28.46
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1428736	52.1354	52.135	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	417114			0.00- 30.00	29.19
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1404484	48.8940	48.894	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1700811			0.00- 30.00	121.10
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	826323	54.7812	54.781	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	755387			64.26- 124.26	91.42
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	700161	52.0661	52.066	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	254591			0.00- 30.00	36.36
3.414	3.414 (0.424)	66	212267			0.00- 30.00	30.32
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2852931	48.5230	48.523	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1815066			34.03- 94.03	63.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.077 (0.509)	45	642545	53.6148	53.615	80.00- 120.00	100.00
4.078	4.077 (0.506)	43	119413			0.00- 30.00	18.58
4.105	4.077 (0.509)	46	248979			0.00- 30.00	38.75
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1699297	56.7187	56.719	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1051266			35.01- 95.01	61.86
4.520	4.520 (0.561)	101	2098076			95.51- 155.51	123.47
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2297749	55.3506	55.350	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1010413			11.33- 71.33	43.97
4.575	4.575 (0.568)	98	618233			0.00- 56.95	26.91
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	657290	48.3817	48.382	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2427244			0.00- 30.00	369.28
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2874700	49.8322	49.832	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	653485			0.00- 30.00	22.73
4.907	4.907 (0.609)	59	87424			0.00- 30.00	3.04
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2568802	51.6685	51.668	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.183 (0.643)	76	445684	49.6213	49.621	80.00- 120.00	100.00
5.184	5.183 (0.643)	41	2164278			0.00- 30.00	485.61
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1933225	53.2932	53.293	80.00- 120.00	100.00
5.460	5.432 (0.677)	84	797787			10.90- 70.90	41.27
5.432	5.432 (0.674)	51	587136			0.00- 30.00	30.37
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1106385	44.5752	44.575	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	363717			2.68- 62.68	32.87
5.764	5.764 (0.715)	41	409814			0.00- 30.00	37.04
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	989148	49.0887	49.089	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1986760			169.56- 229.56	200.86
5.819	5.819 (0.722)	98	627621			0.00- 30.00	63.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2447581	50.3772	50.377	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1787547			0.00- 30.00	73.03
6.151	6.151 (0.763)	86	292223			0.00- 30.00	11.94
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	226324	49.2383	49.238	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	4013556			0.00- 30.00	1773.37
6.649	6.649 (0.825)	42	319035			0.00- 30.00	140.96
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2130619	50.9506	50.951	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	638231			0.53- 60.53	29.96
67 2-Butanone					CAS #: 78-93-3		
7.672	7.644 (0.952)	72	398544	51.2055	51.206	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	3042064			728.37- 788.37	763.29
7.644	7.644 (0.949)	57	212219			0.00- 30.00	53.25
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1641340	52.5229	52.523	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	897931			22.68- 82.68	54.71
7.617	7.617 (0.945)	98	567042			4.36- 64.36	34.55
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1781656	45.9106	45.910	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	361034			0.00- 49.90	20.26
8.031	8.031 (0.997)	72	380879			0.00- 30.00	21.38
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1824780	48.9971	48.997	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1131019			36.02- 96.02	61.98
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2008533	50.7958	50.796	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1294498			32.83- 92.83	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1176632	50.0082	50.008	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2232482			163.35- 223.35	189.73
8.418	8.418 (1.045)	41	1349409			86.00- 146.00	114.68
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1981129	48.0059	48.006	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2032033			73.89- 133.89	102.57

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	6409013	50.0907	50.091	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2101289			0.00- 30.00	32.79
9.082	9.082 (1.127)	41	1859611			0.00- 30.00	29.02
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2317326	49.4998	49.500	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	544379			0.00- 30.00	23.49
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	1689155	47.6296	47.630	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	507243			0.00- 30.00	30.03
90 Heptane					CAS #: 142-82-5		
9.497	9.469 (0.958)	100	307724	49.8388	49.839	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2728092			0.00- 30.00	886.54
9.469	9.469 (0.955)	71	868415			0.00- 30.00	282.21
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1018741	45.9894	45.989	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1058176			74.19- 134.19	103.87
10.326	10.326 (1.042)	97	661811			33.93- 93.93	64.96
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	987169	47.6953	47.695	80.00- 120.00	100.00
10.852	10.824 (1.095)	62	721083			44.46- 104.46	73.05
10.824	10.824 (1.092)	41	872164			62.39- 122.39	88.35
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	508481	47.3333	47.333	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	534257			71.59- 131.59	105.07
11.073	11.073 (1.117)	57	178042			0.00- 30.00	35.01
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1701219	46.5258	46.526	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1123537			34.84- 94.84	66.04
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1176826	48.8673	48.867	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	368296			1.70- 61.70	31.30
12.317	12.317 (1.243)	39	1029401			59.73- 119.73	87.47
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.593 (1.271)	58	923306	48.2020	48.202	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	2978148			0.00- 30.00	322.55
12.594	12.593 (1.271)	85	307345			0.00- 30.00	33.29

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	2584113	52.7081	52.708	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1548925			29.86- 89.86	59.94
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1331254	49.6742	49.674	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	424622			1.85- 61.85	31.90
13.368	13.340 (0.891)	39	997975			49.57- 109.57	74.97
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	870634	51.0360	51.036	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	520630			31.93- 91.93	59.80
13.644	13.644 (0.910)	83	682550			48.00- 108.00	78.40
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.699 (0.913)	166	1143004	48.3207	48.321	80.00- 120.00	100.00
13.700	13.699 (0.913)	129	991055			57.53- 117.53	86.71
13.700	13.699 (0.913)	131	972713			54.24- 114.24	85.10
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1262878	48.2261	48.226	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2780913			200.78- 260.78	220.20
14.031	14.031 (0.935)	100	195430			0.00- 30.00	15.47
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1676246	49.5452	49.545	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1302723			0.00- 30.00	77.72
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1379459	47.9009	47.901	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1295461			64.59- 124.59	93.91
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2143262	49.0132	49.013	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	695678			2.21- 62.21	32.46
15.027	15.027 (1.002)	77	1272361			29.88- 89.88	59.37
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1129965	49.4313	49.431	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3644015			0.00- 30.00	322.49
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1420775	48.2250	48.225	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2999909			0.00- 30.00	211.15
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1334147	50.0826	50.082	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	2970988			197.93- 257.93	222.69
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2078927	49.2055	49.206	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1198733			30.31- 90.31	57.66
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1397666	49.2152	49.215	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	738324			21.79- 81.79	52.83
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1758329	49.9349	49.935	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1128300			35.08- 95.08	64.17
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4352187	49.0340	49.034	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1222454			0.00- 58.06	28.09
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4026626	49.1639	49.164	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1816368			0.00- 30.00	45.11
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3309259	47.7400	47.740	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1486709			13.48- 73.48	44.93
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2072313	46.9642	46.964	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1298884			0.00- 30.00	62.68
17.764	17.764 (1.184)	111	945316			0.00- 30.00	45.62
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2579369	48.0468	48.047	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1620368			0.00- 30.00	62.82
17.847	17.847 (1.190)	111	1174517			0.00- 30.00	45.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4082286	55.9863	55.986	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	779718			0.00- 30.00	19.10
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2140707	46.7847	46.785	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1352501			33.59- 93.59	63.18
18.206	18.206 (1.214)	111	941492			13.36- 73.36	43.98

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		
19.506	19.506 (1.300)	180	1568123	44.7657	44.766	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1524473			64.71- 124.71	97.22
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1363274	43.5448	43.545	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	836414			30.71- 90.71	61.35
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4745286	50.3913	50.391	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1112056			0.00- 30.00	23.43
16.824	16.824 (1.122)	105	182818			0.00- 30.00	3.85
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4401292	49.7347	49.735	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1150982			0.00- 30.00	26.15
16.326	16.326 (1.088)	51	681110			0.00- 30.00	15.48
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5468329	50.1433	50.143	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	680798			0.00- 30.00	12.45
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.570 (0.691)	59	980298	39.5821	39.582	80.00- 120.00	100.00
5.571	5.570 (0.691)	41	284823			0.00- 30.00	29.05
5.571	5.570 (0.691)	57	105215			0.00- 30.00	10.73
11 Butane					CAS #: 106-97-8		
2.695	2.667 (0.334)	58	367760	46.6041	46.604	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	3193056			0.00- 30.00	868.24
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2467077	49.2897	49.290	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1390106			0.00- 30.00	56.35
3.414	3.414 (0.424)	72	110471			0.00- 30.00	4.48
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1453977	49.6995	49.700	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	731250			0.00- 30.00	50.29
10.547	10.547 (1.064)	55	1920118			0.00- 30.00	132.06

Report Date: 22-Feb-2008 13:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022125.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	337540	12.32
92 1,4-Difluorobenze	1106928	664157	1549699	1241560	12.16
125 Chlorobenzene-d5	791985	475191	1108779	872849	10.21

		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: 22-Feb-2008 13:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-21feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	49.391	98.78	70-130
9 Freon 114	50.000	50.583	101.17	70-130
10 Chloromethane	50.000	47.982	95.96	70-130
13 Vinyl Chloride	50.000	52.135	104.27	70-130
12 1,3-Butadiene	50.000	48.894	97.79	60-140
15 Bromomethane	50.000	54.781	109.56	70-130
19 Chloroethane	50.000	52.066	104.13	70-130
20 Trichlorofluoromet	50.000	48.523	97.05	70-130
26 Ethanol	50.000	53.615	107.23	60-140
30 Freon 113	50.000	56.719	113.44	70-130
31 1,1-Dichloroethene	50.000	55.350	110.70	70-130
35 Carbon Disulfide	50.000	51.668	103.34	60-140
32 Acetone	50.000	48.382	96.76	60-140
36 2-Propanol	50.000	49.832	99.66	60-140
38 3-Chloropropene	50.000	49.621	99.24	60-140
43 Methylene Chloride	50.000	53.293	106.59	70-130
46 MTBE	50.000	44.575	89.15	60-140
47 trans-1,2-Dichloro	50.000	49.089	98.18	60-140
51 Hexane	50.000	50.377	100.75	60-140
55 1,1-Dichloroethane	50.000	50.951	101.90	70-130
66 cis-1,2-Dichloroet	50.000	52.523	105.05	70-130
67 2-Butanone	50.000	51.206	102.41	60-140
70 Tetrahydrofuran	50.000	45.910	91.82	60-140
72 Chloroform	50.000	48.997	97.99	70-130
74 Cyclohexane	50.000	50.008	100.02	60-140
75 1,1,1-Trichloroeth	50.000	50.796	101.59	70-130
56 Vinyl Acetate	50.000	49.238	98.48	60-140
77 Carbon Tetrachlori	50.000	48.006	96.01	70-130
80 2,2,4-Trimethylpen	50.000	50.091	100.18	60-140
81 Benzene	50.000	49.500	99.00	70-130
85 1,2-Dichloroethane	50.000	47.630	95.26	70-130
90 Heptane	50.000	49.839	99.68	60-140
93 Trichloroethene	50.000	45.989	91.98	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	47.695	95.39	70-130
99 1,4-Dioxane	50.000	47.333	94.67	60-140
100 Bromodichlorometha	50.000	46.526	93.05	60-140
103 cis-1,3-Dichloropr	50.000	48.867	97.73	70-130
106 4-Methyl-2-pentano	50.000	48.202	96.40	60-140
108 Toluene	50.000	52.708	105.42	70-130
113 trans-1,3-Dichloro	50.000	49.674	99.35	70-130
114 1,1,2-Trichloroeth	50.000	51.036	102.07	70-130
116 Tetrachloroethene	50.000	48.321	96.64	70-130
119 2-Hexanone	50.000	48.226	96.45	60-140
120 Dibromochlorometha	50.000	49.545	99.09	60-140
122 1,2-Dibromoethane	50.000	47.901	95.80	70-130
126 Chlorobenzene	50.000	49.013	98.03	70-130
128 Ethyl Benzene	50.000	49.431	98.86	70-130
130 m,p-Xylene	50.000	48.225	96.45	70-130
132 o-Xylene	50.000	50.082	100.17	70-130
133 Styrene	50.000	49.206	98.41	70-130
134 Bromoform	50.000	49.215	98.43	60-140
136 Cumene	50.000	49.735	99.47	60-140
141 1,1,2,2-Tetrachlor	50.000	49.935	99.87	70-130
142 Propylbenzene	50.000	50.391	100.78	60-140
144 4-Ethyltoluene	50.000	49.034	98.07	60-140
147 1,3,5-Trimethylben	50.000	49.164	98.33	70-130
152 1,2,4-Trimethylben	50.000	47.740	95.48	70-130
155 1,3-Dichlorobenzen	50.000	46.964	93.93	70-130
156 1,4-Dichlorobenzen	50.000	48.047	96.09	70-130
157 alpha-Chlorotoluen	50.000	55.986	111.97	70-130
159 1,2-Dichlorobenzen	50.000	46.785	93.57	70-130
163 1,2,4-Trichloroben	50.000	44.766	89.53	70-130
164 Hexachlorobutadien	50.000	43.545	87.09	70-130
6 Propylene	50.000	50.344	100.69	70-130
165 Naphthalene	50.000	50.143	100.29	60-140
11 Butane	50.000	46.604	93.21	70-130
17 Isopentane	50.000	49.290	98.58	70-130
94 Methyl Cyclohexane	50.000	49.700	99.40	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.054	96.22	70-130
$ 107 Toluene-d8	25.000	25.278	101.11	70-130
$ 138 Bromofluorobenzene	25.000	24.797	99.19	70-130

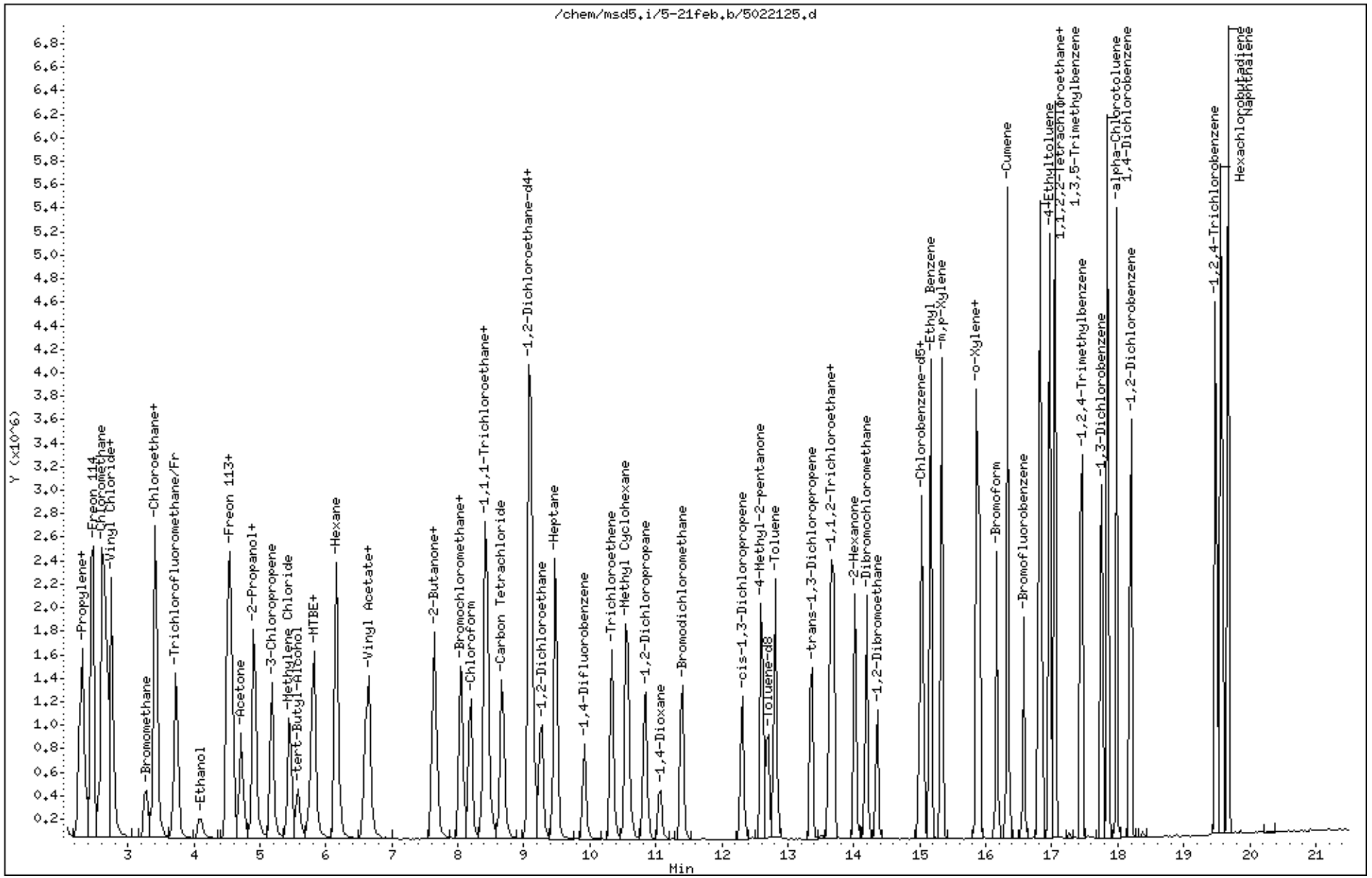
0074

Data File: /chem/msd5.i/5-21feb.b/5022125.d
Date : 22-FEB-2008 09:39
Client ID: LCS-1
Sample Info: 50mL #1576-260

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022124.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 22-FEB-2008 08:57
Operator : cb Inst ID: msd5.i
Smp Info : 0.2mL #1576-263
Misc Info : 0.2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 08:57 Cal File: 5022124.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		
8.059	8.059 (1.000)	130	321061	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	247286			50.14- 110.14	77.02
8.059	8.059 (1.000)	49	761009			195.69- 255.69	237.03
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1183930	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	196538			0.00- 46.49	16.60
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	824488	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	498032			0.00- 30.00	60.41
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	574266	25.0000		70.00- 130.00	100.00(a)
9.137	9.137 (1.134)	67	266987			0.00- 30.00	46.49
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1092516	25.0000		70.00- 130.00	100.00(a)
12.704	12.704 (1.282)	70	120866			0.00- 30.00	11.06

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	710209			0.00- 30.00	65.01
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	536354	25.0000		70.00- 130.00	100.00(a)
16.575	16.575 (1.105)	95	786920			114.32- 174.32	146.72
16.575	16.575 (1.105)	176	514570			66.86- 126.86	95.94
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	8742	0.20000	0.2000	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	7345			36.02- 96.02	84.02
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.919)	78	9527	0.20000	0.2000	70.00- 130.00	100.00
9.110	9.110 (0.919)	77	4013			0.00- 30.00	42.12
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	8779	0.20000	0.2000	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	6485			30.31- 90.31	73.87
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	19199	0.20000	0.2000	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	5231			0.00- 30.00	27.25
16.326	16.326 (1.088)	51	2693			0.00- 30.00	14.03

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: 5022124.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 0.2ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	321061	6.83
92 1,4-Difluorobenze	1106928	664157	1549699	1183930	6.96
125 Chlorobenzene-d5	791985	475191	1108779	824488	4.10

		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.

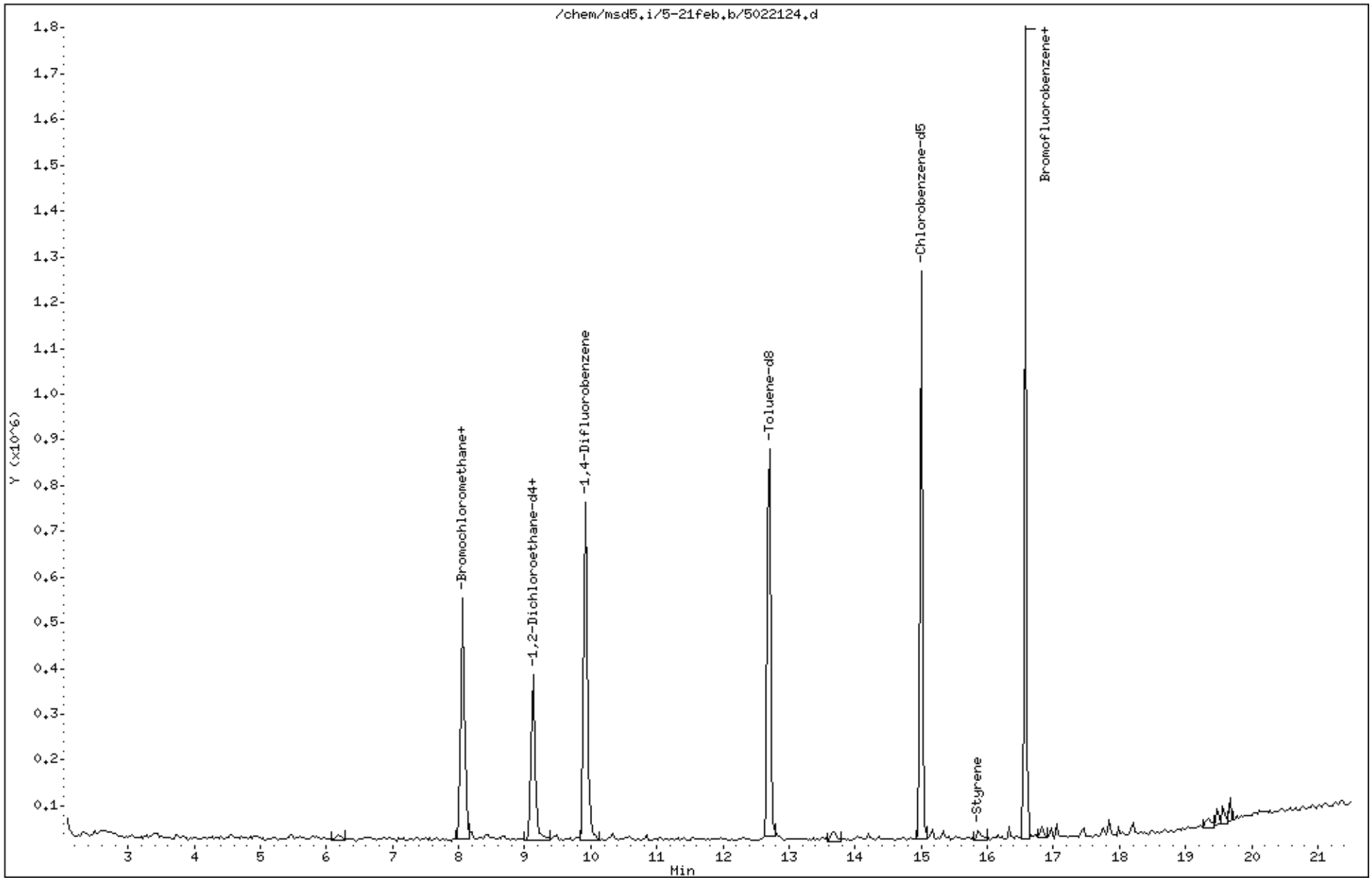
0078

Data File: /chem/msd5.i/5-21feb.b/5022124.d
Date : 22-FEB-2008 08:57
Client ID: Level 1
Sample Info: 0.2mL #1576-263

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022116.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 21-FEB-2008 18:11
Operator : cb Inst ID: msd5.i
Smp Info : 0.5mL #1576-263
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 18:11 Cal File: 5022116.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		
8.059	8.059 (1.000)	130	292788	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	207227			50.14- 110.14	70.78
8.059	8.059 (1.000)	49	676151			195.69- 255.69	230.94
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1032163	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	169758			0.00- 46.49	16.45
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	749499	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	450946			0.00- 30.00	60.17
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	530277	25.0000	25.000	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	232755			0.00- 30.00	43.89
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	954817	25.0000	25.000	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	109429			0.00- 30.00	11.46

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	631777			0.00- 30.00	66.17
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	501094	25.0000	25.000	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	684522			114.32- 174.32	136.61
16.575	16.575 (1.105)	176	468503			66.86- 126.86	93.50
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	18426	0.50000	0.5000	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	5939			0.00- 30.00	32.23
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	14619	0.50000	0.5000	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	6127			0.77- 60.77	41.91
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	9565	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	4560			0.00- 30.00	47.67
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	11440	0.50000	0.5000	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	14274			0.00- 30.00	124.77
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	5200	0.50000	0.5000	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	6962			64.26- 124.26	133.88
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	4160	0.50000	0.5000	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	2265			0.00- 30.00	54.45
3.414	3.414 (0.424)	66	2816			0.00- 30.00	67.69
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	21489	0.50000	0.5000	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	16991			34.03- 94.03	79.07
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	10106	0.50000	0.5000	70.00- 130.00	100.00
4.492	4.492 (0.557)	153	8968			35.01- 95.01	88.74
4.520	4.520 (0.561)	101	11382			95.51- 155.51	112.63
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	14698	0.50000	0.5000	70.00- 130.00	100.00
4.603	4.603 (0.571)	96	6095			11.33- 71.33	41.47
4.575	4.575 (0.568)	98	7739			0.00- 56.95	52.65

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 (0.612)	76	16898	0.50000	0.5000	70.00- 130.00	100.00
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	13096	0.50000	0.5000	70.00- 130.00	100.00
5.488	5.488 (0.681)	84	5620			10.90- 70.90	42.91
5.432	5.432 (0.674)	51	3699			0.00- 30.00	28.25
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	8108	0.50000	0.5000	70.00- 130.00	100.00
5.737	5.737 (0.712)	57	4545			2.68- 62.68	56.06
5.764	5.764 (0.715)	41	2351			0.00- 30.00	29.00
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	8592	0.50000	0.5000	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	14749			169.56- 229.56	171.66
5.820	5.820 (0.722)	98	4448			0.00- 30.00	51.77
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	19557	0.50000	0.5000	70.00- 130.00	100.00
6.179	6.179 (0.767)	43	12853			0.00- 30.00	65.72
6.179	6.179 (0.767)	86	2438			0.00- 30.00	12.47
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	16291	0.50000	0.5000	70.00- 130.00	100.00
6.621	6.621 (0.822)	65	5834			0.53- 60.53	35.81
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	2292	0.50000	0.5000	70.00- 130.00	100.00(M)
7.700	7.700 (0.955)	43	18788			728.37- 788.37	819.72
7.672	7.672 (0.952)	57	3113			0.00- 30.00	135.82
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	7944	0.50000	0.5000	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	9937			22.68- 82.68	125.09
7.644	7.644 (0.949)	98	4273			4.36- 64.36	53.79
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	19421	0.50000	0.5000	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	4331			0.00- 49.90	22.30
8.087	8.087 (1.003)	72	4628			0.00- 30.00	23.83
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	11984	0.50000	0.3755	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	9006			36.02- 96.02	75.15

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 (1.048)	97	10989	0.50000	0.5000	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	10418			32.83- 92.83	94.80
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	8485	0.50000	0.5000	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	16246			163.35- 223.35	191.47
8.419	8.419 (1.045)	41	15433			86.00- 146.00	181.89
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	15549	0.50000	0.5000	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	19644			73.89- 133.89	126.34
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	44284	0.50000	0.5000	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	14538			0.00- 30.00	32.83
9.082	9.082 (1.127)	41	16655			0.00- 30.00	37.61
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.919)	78	15888	0.50000	0.4335	70.00- 130.00	100.00(a)
9.110	9.110 (0.919)	77	5729			0.00- 30.00	36.06
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	12576	0.50000	0.5000	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	6390			0.00- 30.00	50.81
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1672	0.50000	0.5000	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	21125			0.00- 30.00	1263.46
9.469	9.469 (0.955)	71	6340			0.00- 30.00	379.19
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	9530	0.50000	0.5000	70.00- 130.00	100.00
10.354	10.354 (1.045)	130	8845			74.19- 134.19	92.81
10.326	10.326 (1.042)	97	6116			33.93- 93.93	64.18
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	8360	0.50000	0.5000	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	6443			44.46- 104.46	77.07
10.852	10.852 (1.095)	41	7752			62.39- 122.39	92.73
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	13114	0.50000	0.5000	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	8666			34.84- 94.84	66.08
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	7809	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.317	12.317 (1.243)	77	3846			1.70- 61.70	49.25
12.317	12.317 (1.243)	39	9902			59.73- 119.73	126.80
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5657	0.50000	0.5000	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	17621			0.00- 30.00	311.49
12.621	12.621 (1.273)	85	2815			0.00- 30.00	49.76
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	13776	0.50000	0.5000	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	9859			29.86- 89.86	71.57
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	9200	0.50000	0.5000	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	3726			1.85- 61.85	40.50
13.368	13.368 (0.891)	39	7234			49.57- 109.57	78.63
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	5232	0.50000	0.5000	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	3475			31.93- 91.93	66.42
13.644	13.644 (0.910)	83	6647			48.00- 108.00	127.05
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	8363	0.50000	0.5000	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	6853			57.53- 117.53	81.94
13.700	13.700 (0.913)	131	7311			54.24- 114.24	87.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	11833	0.50000	0.5000	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	8077			0.00- 30.00	68.26
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	10076	0.50000	0.5000	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	11425			64.59- 124.59	113.39
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	17059	0.50000	0.5000	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	5798			2.21- 62.21	33.99
15.027	15.027 (1.002)	77	17703			29.88- 89.88	103.78
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	8935	0.50000	0.5000	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	30447			0.00- 30.00	340.76
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	12331	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	21742			0.00- 30.00	176.32
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	10493	0.50000	0.5000	70.00- 130.00	100.00
15.856	15.856 (1.057)	91	19922			197.93- 257.93	189.86
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15121	0.50000	0.4311	70.00- 130.00	100.00(a)
15.912	15.912 (1.061)	78	10551			30.31- 90.31	69.78
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	9169	0.50000	0.5000	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	5526			21.79- 81.79	60.27
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	11566	0.50000	0.5000	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	8573			35.08- 95.08	74.12
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	28927	0.50000	0.5000	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	9043			0.00- 58.06	31.26
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	30122	0.50000	0.5000	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	11150			0.00- 30.00	37.02
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	24249	0.50000	0.5000	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	11209			13.48- 73.48	46.22
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	16453	0.50000	0.5000	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	12485			0.00- 30.00	75.88
17.764	17.764 (1.184)	111	7327			0.00- 30.00	44.53
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	19153	0.50000	0.5000	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	13364			0.00- 30.00	69.77
17.847	17.847 (1.190)	111	9112			0.00- 30.00	47.57
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	17396	0.50000	0.5000	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	3658			0.00- 30.00	21.03
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	18577	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	11667			33.59- 93.59	62.80
18.206	18.206 (1.214)	111	9325			13.36- 73.36	50.20
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	31073	0.50000	0.5000	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	5811			0.00- 30.00	18.70
16.824	16.824 (1.122)	105	2916			0.00- 30.00	9.38
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	27010	0.50000	0.3824	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	7533			0.00- 30.00	27.89
16.326	16.326 (1.088)	51	5750			0.00- 30.00	21.29
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	10310	0.50000	0.5000	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	3999			0.00- 30.00	38.79
10.575	10.575 (1.067)	55	14453			0.00- 30.00	140.18

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022116.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	292788	-2.57
92 1,4-Difluorobenze	1106928	664157	1549699	1032163	-6.75
125 Chlorobenzene-d5	791985	475191	1108779	749499	-5.36

		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.

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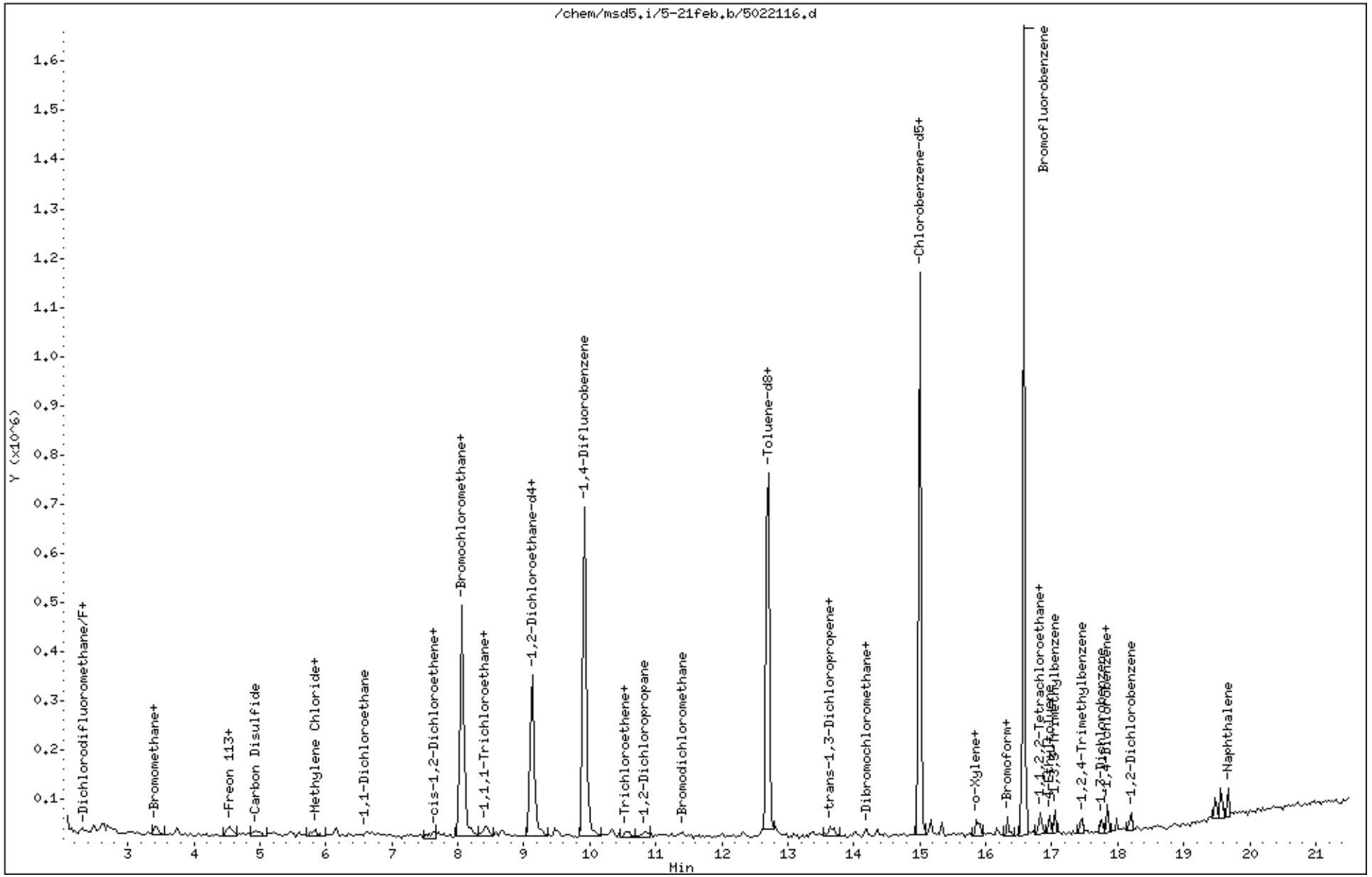
Data File: /chem/msd5.i/5-21feb.b/5022116.d
Date : 21-FEB-2008 18:11
Client ID: Level 2
Sample Info: 0.5mL #1576-263

Instrument: msd5.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022127.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 22-FEB-2008 11:08
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1576-299
Misc Info : 50ppbv (200ppbv) sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 11:08 Cal File: 5022127.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.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	316447	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	261279			50.18- 110.18	82.57
8.059	8.059 (1.000)	49	784711			211.98- 271.98	247.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1204394	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	193194			0.00- 46.71	16.04
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	844910	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	509860			0.00- 30.00	60.34
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	29488	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	69	2354			0.00- 30.00	7.98
3 Freon 152a					CAS #: 75-37-6		
2.280	2.280 (0.283)	65	22849	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	51	140583			0.00- 30.00	615.27

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 (0.290)	67	9967	2.00000	2.000	70.00- 130.00	100.00
2.336	2.336 (0.290)	51	137189			0.00- 30.00	1376.43
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	68485	2.00000	2.000	70.00- 130.00	100.00
2.529	2.529 (0.314)	45	26793			0.00- 30.00	39.12
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.465)	67	50194	2.00000	2.000	70.00- 130.00	100.00(T)
3.746	3.746 (0.465)	69	17283			0.00- 30.00	34.43
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	26972	2.00000	2.000	70.00- 130.00	100.00
4.299	4.299 (0.533)	67	36486			0.00- 30.00	135.27
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	3772	2.00000	2.000	70.00- 130.00	100.00
4.409	4.409 (0.547)	133	2752			0.00- 30.00	72.96
4.271	4.271 (0.530)	85	20389			0.00- 30.00	540.54
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	142794	2.00000	2.000	70.00- 130.00	100.00
6.594	6.594 (0.818)	87	21395			0.00- 30.00	14.98
6.594	6.594 (0.818)	59	13986			0.00- 30.00	9.79
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	57343	2.00000	2.000	70.00- 130.00	100.00
7.202	7.202 (0.894)	87	17021			0.00- 30.00	29.68
7.202	7.202 (0.894)	41	20427			0.00- 30.00	35.62
61 Ethyl Acetate					CAS #: 141-78-6		
7.727	7.727 (0.959)	70	5630	2.00000	2.000	70.00- 130.00	100.00(MH)
7.727	7.727 (0.959)	43	68330			0.00- 30.00	1213.68
7.727	7.727 (0.959)	61	9507			0.00- 30.00	168.86
64 1-Propanol					CAS #: 71-23-8		
6.898	6.898 (0.856)	42	9603	2.00000	2.000	70.00- 130.00	100.00
6.926	6.926 (0.859)	59	7652			0.00- 30.00	79.68
6.870	6.870 (0.852)	41	4583			0.00- 30.00	47.72
76 Isobutanol					CAS #: 78-83-1		
9.110	9.110 (0.919)	43	31769	2.00000	2.000	70.00- 130.00	100.00
9.110	9.110 (0.919)	41	22008			0.00- 30.00	69.28

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 (1.151)	73	48454	2.00000	2.000	70.00- 130.00	100.00
9.276	9.276 (1.151)	87	14527			0.00- 30.00	29.98
9.276	9.276 (1.151)	55	27821			0.00- 30.00	57.42
91 1-Butanol					CAS #: 71-36-3		
10.409	10.409 (1.050)	56	16447	2.00000	2.000	70.00- 130.00	100.00
10.382	10.382 (1.047)	41	11272			0.00- 30.00	68.54
10.409	10.409 (1.050)	43	12263			0.00- 30.00	74.56
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	37559	2.00000	2.000	70.00- 130.00	100.00
14.197	14.197 (1.432)	73	10632			0.00- 30.00	28.31
14.197	14.197 (1.432)	43	96062			0.00- 30.00	255.76
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	50705	2.00000	2.000	70.00- 130.00	100.00
16.520	16.520 (1.101)	98	16458			0.00- 30.00	32.46
16.520	16.520 (1.101)	42	35062			0.00- 30.00	69.15
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	147971	2.00000	2.000	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	80119			21.47- 81.47	54.15

QC Flag Legend

T - Target compound detected outside RT window.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022127.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv) sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	316447	-0.12
92 1,4-Difluorobenze	1201581	720949	1682213	1204394	0.23
125 Chlorobenzene-d5	856914	514148	1199680	844910	-1.40

		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

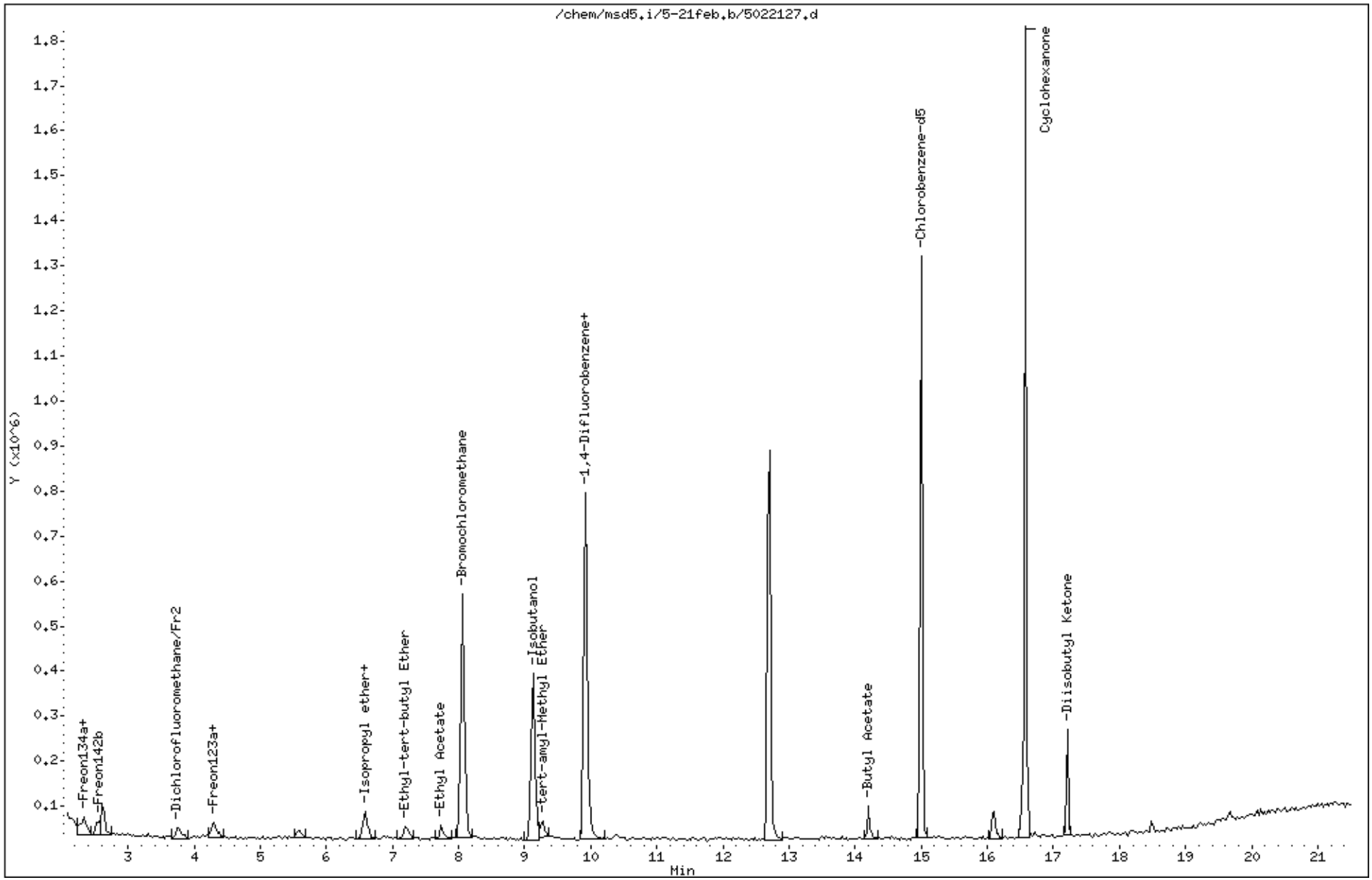
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0092

Data File: /chem/msd5.i/5-21feb.b/5022127.d
Date : 22-FEB-2008 11:08
Client ID: Level 3
Sample Info: 2mL #1576-299

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022117.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 21-FEB-2008 18:39
Operator : cb Inst ID: msd5.i
Smp Info : 2mL #1576-263
Misc Info : 2ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:16 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 18:39 Cal File: 5022117.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

	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	284112	25.0000		70.00- 130.00	100.00
	8.059	8.059 (1.000)	128	221942			50.14- 110.14	78.12
	8.059	8.059 (1.000)	49	680567			195.69- 255.69	239.54
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.912	9.912 (1.000)	114	1019417	25.0000		70.00- 130.00	100.00
	9.912	9.912 (1.000)	88	181490			0.00- 46.49	17.80
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	764440	25.0000		70.00- 130.00	100.00
	14.999	14.999 (1.000)	82	461218			0.00- 30.00	60.33
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.137	9.137 (1.134)	65	545066	25.0000	25.720	70.00- 130.00	100.00
	9.137	9.137 (1.134)	67	237080			0.00- 30.00	43.50
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.282)	98	933939	25.0000	24.879	70.00- 130.00	100.00
	12.677	12.677 (1.279)	70	114215			0.00- 30.00	12.23

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	634011			0.00- 30.00	67.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	499818	25.0000	24.721	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	725599			114.32- 174.32	145.17
16.575	16.575 (1.105)	176	469278			66.86- 126.86	93.89
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	42599	2.00000	2.000	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	29779			0.00- 30.00	69.91
2.280	2.280 (0.283)	39	30600			0.00- 30.00	71.83
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	70713	2.00000	1.989	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	24747			0.00- 30.00	35.00
9 Freon 114					CAS #: 76-14-2		
2.502	2.502 (0.310)	135	51831	2.00000	1.910	70.00- 130.00	100.00
2.502	2.502 (0.310)	137	18756			0.77- 60.77	36.19
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	52517	2.00000	2.000	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	13306			0.00- 30.00	25.34
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	36905	2.00000	1.994	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	15057			0.00- 30.00	40.80
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	40167	2.00000	1.900	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	51624			0.00- 30.00	128.52
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	16294	2.00000	1.787	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	20241			64.26- 124.26	124.22
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	17283	2.00000	2.068	70.00- 130.00	100.00
3.442	3.442 (0.427)	49	6769			0.00- 30.00	39.17
3.469	3.469 (0.430)	66	6050			0.00- 30.00	35.01
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	85178	2.00000	2.021	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	53955			34.03- 94.03	63.34

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 (0.513)	45	13614	2.00000	2.000	70.00- 130.00	100.00(M)
4.105	4.105 (0.509)	43	4827			0.00- 30.00	35.46
4.133	4.133 (0.513)	46	6917			0.00- 30.00	50.81
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	44789	2.00000	2.132	70.00- 130.00	100.00
4.548	4.548 (0.564)	153	23804			35.01- 95.01	53.15
4.520	4.520 (0.561)	101	47313			95.51- 155.51	105.64
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	55661	2.00000	1.975	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	29966			11.33- 71.33	53.84
4.575	4.575 (0.568)	98	14911			0.00- 56.95	26.79
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	17067	2.00000	2.000	70.00- 130.00	100.00
4.741	4.741 (0.588)	43	58380			0.00- 30.00	342.06
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	68521	2.00000	2.000	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	20797			0.00- 30.00	30.35
4.962	4.962 (0.616)	59	3382			0.00- 30.00	4.94
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	65720	2.00000	2.002	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	12024	2.00000	2.000	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	56276			0.00- 30.00	468.03
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	56256	2.00000	2.101	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	22164			10.90- 70.90	39.40
5.460	5.460 (0.677)	51	15134			0.00- 30.00	26.90
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	23649	2.00000	1.716	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	10372			2.68- 62.68	43.86
5.764	5.764 (0.715)	41	12758			0.00- 30.00	53.95
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	29094	2.00000	1.864	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	55753			169.56- 229.56	191.63
5.847	5.847 (0.726)	98	16887			0.00- 30.00	58.04

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	56352	2.00000	1.704	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	52835			0.00- 30.00	93.76
6.151	6.151 (0.763)	86	8970			0.00- 30.00	15.92
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	56538	2.00000	1.888	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	16632			0.53- 60.53	29.42
67 2-Butanone					CAS #: 78-93-3		
7.727	7.727 (0.959)	72	10773	2.00000	2.191	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	75023			728.37- 788.37	696.40
7.672	7.672 (0.952)	57	5791			0.00- 30.00	53.75
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	45186	2.00000	2.378	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	23723			22.68- 82.68	52.50
7.644	7.644 (0.949)	98	13451			4.36- 64.36	29.77
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	52955	2.00000	1.650	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	10755			0.00- 49.90	20.31
8.059	8.059 (1.000)	72	14267			0.00- 30.00	26.94
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	50986	2.00000	1.749	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	33011			36.02- 96.02	64.75
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	53112	2.00000	2.218	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	35610			32.83- 92.83	67.05
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	32090	2.00000	1.974	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	57490			163.35- 223.35	179.15
8.391	8.391 (1.041)	41	38560			86.00- 146.00	120.16
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	5748	2.00000	2.000	70.00- 130.00	100.00
6.677	6.677 (0.828)	43	77668			0.00- 30.00	1351.22
6.704	6.704 (0.832)	42	8314			0.00- 30.00	144.64
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	51948	2.00000	1.850	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	56334			73.89- 133.89	108.44

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	179835	2.00000	2.045	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	55655			0.00- 30.00	30.95
9.110	9.110 (1.130)	41	59714			0.00- 30.00	33.20
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	62691	2.00000	1.813	70.00- 130.00	100.00
9.110	9.110 (0.919)	77	16603			0.00- 30.00	26.48
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	53423	2.00000	2.072	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	15266			0.00- 30.00	28.58
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	10108	2.00000	2.419	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	77981			0.00- 30.00	771.48
9.497	9.497 (0.958)	71	25069			0.00- 30.00	248.01
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	30470	2.00000	1.789	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	27438			74.19- 134.19	90.05
10.326	10.326 (1.042)	97	20062			33.93- 93.93	65.84
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	27067	2.00000	1.802	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	20628			44.46- 104.46	76.21
10.852	10.852 (1.095)	41	27892			62.39- 122.39	103.05
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	12004	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	18801			71.59- 131.59	156.62
11.073	11.073 (1.117)	57	6695			0.00- 30.00	55.77
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	48515	2.00000	1.934	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	31975			34.84- 94.84	65.91
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	30386	2.00000	1.985	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	9455			1.70- 61.70	31.12
12.317	12.317 (1.243)	39	30468			59.73- 119.73	100.27
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	25983	2.00000	2.150	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	83125			0.00- 30.00	319.92
12.621	12.621 (1.273)	85	8036			0.00- 30.00	30.93

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	69809	2.00000	2.248	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	36313			29.86- 89.86	52.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	32217	2.00000	1.848	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	12605			1.85- 61.85	39.13
13.368	13.368 (0.891)	39	31252			49.57- 109.57	97.00
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	23887	2.00000	2.112	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	17495			31.93- 91.93	73.24
13.644	13.644 (0.910)	83	21945			48.00- 108.00	91.87
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	35517	2.00000	2.040	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	29453			57.53- 117.53	82.93
13.700	13.700 (0.913)	131	25883			54.24- 114.24	72.87
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	31551	2.00000	2.000	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	75176			200.78- 260.78	238.27
14.031	14.031 (0.935)	100	7132			0.00- 30.00	22.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	42652	2.00000	1.876	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	38503			0.00- 30.00	90.27
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	38661	2.00000	1.939	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	35072			64.59- 124.59	90.72
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	58288	2.00000	1.823	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	20817			2.21- 62.21	35.71
15.027	15.027 (1.002)	77	45642			29.88- 89.88	78.30
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	31111	2.00000	1.842	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	98874			0.00- 30.00	317.81
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	38185	2.00000	1.726	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	85989			0.00- 30.00	225.19
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	32295	2.00000	1.720	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	75384			197.93- 257.93	233.42
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	56966	2.00000	1.708	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	32192			30.31- 90.31	56.51
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	36864	2.00000	1.985	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	19992			21.79- 81.79	54.23
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	52172	2.00000	2.100	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	37271			35.08- 95.08	71.44
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	130851	2.00000	2.103	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	36076			0.00- 58.06	27.57
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	113396	2.00000	1.920	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	46982			0.00- 30.00	41.43
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	97258	2.00000	1.983	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	45048			13.48- 73.48	46.32
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	70670	2.00000	2.051	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	45252			0.00- 30.00	64.03
17.764	17.764 (1.184)	111	33317			0.00- 30.00	47.14
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	78897	2.00000	2.010	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	48388			0.00- 30.00	61.33
17.847	17.847 (1.190)	111	34693			0.00- 30.00	43.97
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	94083	2.00000	2.280	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	16568			0.00- 30.00	17.61
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	76086	2.00000	2.004	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	46785			33.59- 93.59	61.49
18.206	18.206 (1.214)	111	35253			13.36- 73.36	46.33

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	62680	2.00000	2.000	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	68752			64.71- 124.71	109.69
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	55866	2.00000	2.000	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	33068			30.71- 90.71	59.19
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	136671	2.00000	2.075	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	34430			0.00- 30.00	25.19
16.824	16.824 (1.122)	105	6546			0.00- 30.00	4.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	124233	2.00000	1.807	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	32352			0.00- 30.00	26.04
16.326	16.326 (1.088)	51	21455			0.00- 30.00	17.27
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	209241	2.00000	2.000	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	29565			0.00- 30.00	14.13
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	42002	2.00000	2.000	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	15445			0.00- 30.00	36.77
5.571	5.571 (0.691)	57	6735			0.00- 30.00	16.03
11 Butane					CAS #: 106-97-8		
2.723	2.723 (0.338)	58	12848	2.00000	2.000	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	84608			0.00- 30.00	658.53
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	63046	2.00000	2.000	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	39307			0.00- 30.00	62.35
3.414	3.414 (0.424)	72	2023			0.00- 30.00	3.21
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	38419	2.00000	1.942	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	21061			0.00- 30.00	54.82
10.548	10.548 (1.064)	55	51874			0.00- 30.00	135.02

QC Flag Legend

M - Compound response manually integrated.

Report Date: 22-Feb-2008 13:16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022117.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 2ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	284112	-5.46
92 1,4-Difluorobenze	1106928	664157	1549699	1019417	-7.91
125 Chlorobenzene-d5	791985	475191	1108779	764440	-3.48

		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.

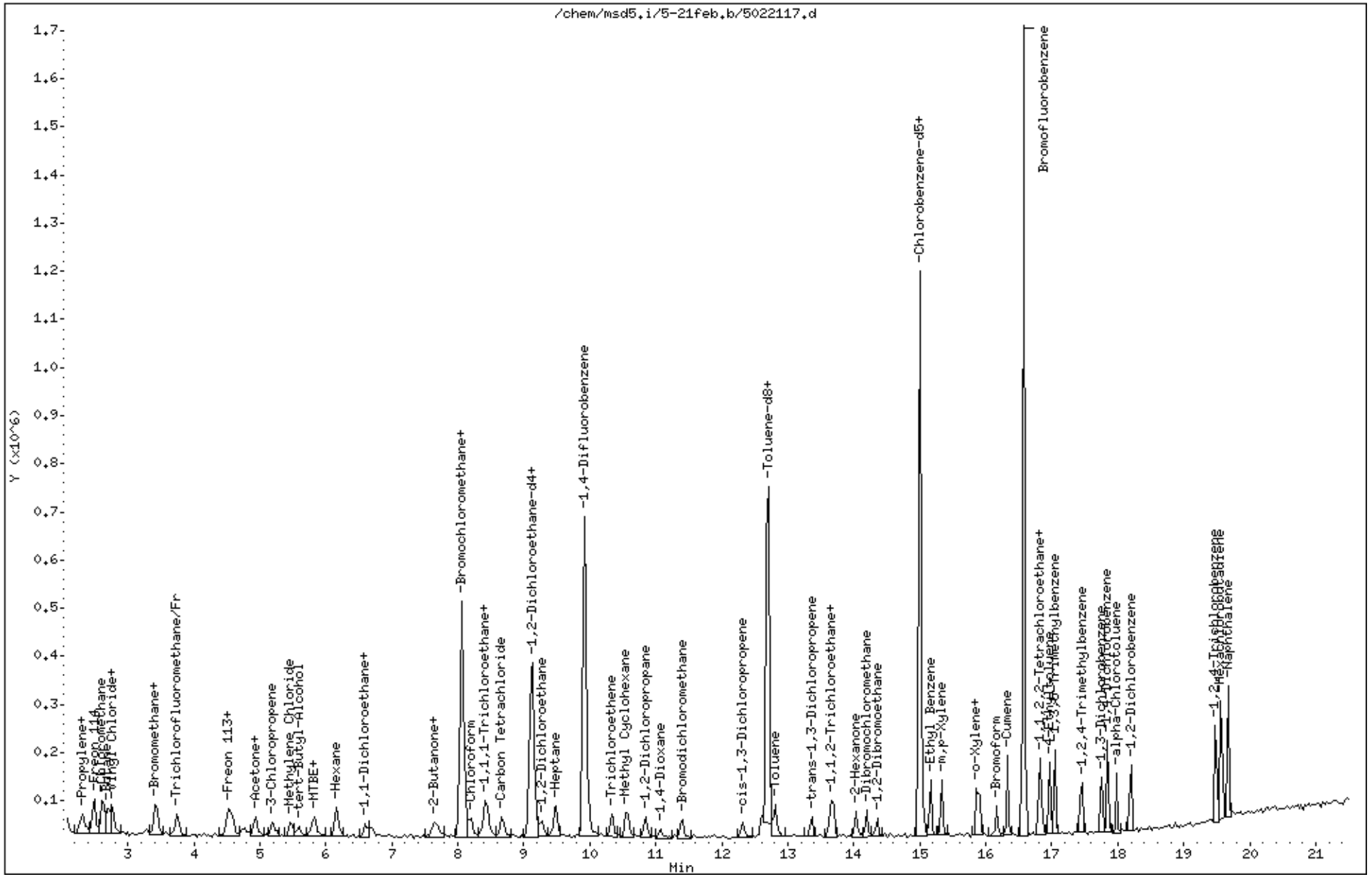
0102

Data File: /chem/msd5.i/5-21feb.b/5022117.d
Date : 21-FEB-2008 18:39
Client ID: Level 3
Sample Info: 2mL #1576-263

Instrument: msd5.i

Operator: cb

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022118.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 21-FEB-2008 19:07
Operator : cb Inst ID: msd5.i
Smp Info : 25mL #1576-263
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 19:07 Cal File: 5022118.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

	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	293775	25.0000		70.00- 130.00	100.00
	8.059	8.059 (1.000)	128	212570			50.14- 110.14	72.36
	8.059	8.059 (1.000)	49	683279			195.69- 255.69	232.59
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.912	9.912 (1.000)	114	1061746	25.0000		70.00- 130.00	100.00
	9.912	9.912 (1.000)	88	179201			0.00- 46.49	16.88
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	778793	25.0000		70.00- 130.00	100.00
	14.999	14.999 (1.000)	82	460158			0.00- 30.00	59.09
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.110	9.110 (1.130)	65	544253	25.0000	24.891	70.00- 130.00	100.00
	9.110	9.110 (1.130)	67	257073			0.00- 30.00	47.23
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.282)	98	981379	25.0000	25.067	70.00- 130.00	100.00
	12.704	12.704 (1.282)	70	114769			0.00- 30.00	11.69

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	685906			0.00- 30.00	69.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	504533	25.0000	24.661	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	746802			114.32- 174.32	148.02
16.575	16.575 (1.105)	176	503984			66.86- 126.86	99.89
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	666148	25.0000	27.374	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	437257			0.00- 30.00	65.64
2.253	2.253 (0.280)	39	453207			0.00- 30.00	68.03
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	1341008	25.0000	31.634	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	438150			0.00- 30.00	32.67
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	968155	25.0000	30.618	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	316105			0.77- 60.77	32.65
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	881650	25.0000	28.250	70.00- 130.00	100.00
2.557	2.557 (0.317)	52	268753			0.00- 30.00	30.48
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	677766	25.0000	31.097	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	196424			0.00- 30.00	28.98
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	679938	25.0000	28.762	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	804057			0.00- 30.00	118.25
15 Bromomethane					CAS #: 74-83-9		
3.248	3.248 (0.403)	94	385860	25.0000	33.755	70.00- 130.00	100.00
3.248	3.248 (0.403)	96	364465			64.26- 124.26	94.46
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	357042	25.0000	33.934	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	126987			0.00- 30.00	35.57
3.414	3.414 (0.424)	66	101498			0.00- 30.00	28.43
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1454261	25.0000	30.020	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	929257			34.03- 94.03	63.90

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	287519	25.0000	31.017	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	55486			0.00- 30.00	19.30
4.077	4.077 (0.506)	46	124854			0.00- 30.00	43.42
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	739147	25.0000	30.375	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	457220			35.01- 95.01	61.86
4.520	4.520 (0.561)	101	904523			95.51- 155.51	122.37
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.548	4.548 (0.564)	61	1029175	25.0000	31.049	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	423353			11.33- 71.33	41.14
4.575	4.575 (0.568)	98	284143			0.00- 56.95	27.61
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	326522	25.0000	29.840	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	1183227			0.00- 30.00	362.37
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1352744	25.0000	30.217	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	318956			0.00- 30.00	23.58
4.907	4.907 (0.609)	59	40224			0.00- 30.00	2.97
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1223806	25.0000	31.423	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	210749	25.0000	28.778	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	1048296			0.00- 30.00	497.41
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	872447	25.0000	28.997	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	348232			10.90- 70.90	39.91
5.432	5.432 (0.674)	51	262428			0.00- 30.00	30.08
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	639438	25.0000	35.475	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	222926			2.68- 62.68	34.86
5.764	5.764 (0.715)	41	260927			0.00- 30.00	40.81
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	464305	25.0000	27.389	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	973482			169.56- 229.56	209.66
5.819	5.819 (0.722)	98	309741			0.00- 30.00	66.71

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	1210195	25.0000	31.087	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	889967			0.00- 30.00	73.54
6.151	6.151 (0.763)	86	134239			0.00- 30.00	11.09
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1014049	25.0000	29.684	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	293686			0.53- 60.53	28.96
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	188448	25.0000	31.928	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	1504681			728.37- 788.37	798.46
7.644	7.644 (0.949)	57	101505			0.00- 30.00	53.86
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	812274	25.0000	33.942	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	422153			22.68- 82.68	51.97
7.617	7.617 (0.945)	98	275518			4.36- 64.36	33.92
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	885005	25.0000	26.093	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	172766			0.00- 49.90	19.52
8.031	8.031 (0.997)	72	191108			0.00- 30.00	21.59
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	891891	25.0000	28.296	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	569518			36.02- 96.02	63.86
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1016072	25.0000	33.811	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	646694			32.83- 92.83	63.65
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	575365	25.0000	30.479	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1126139			163.35- 223.35	195.73
8.418	8.418 (1.045)	41	664699			86.00- 146.00	115.53
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	98065	25.0000	28.448	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1879352			0.00- 30.00	1916.44
6.649	6.649 (0.825)	42	152523			0.00- 30.00	155.53
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1029711	25.0000	31.125	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1060177			73.89- 133.89	102.96

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	3198031	25.0000	30.972	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	1027977			0.00- 30.00	32.14
9.082	9.082 (1.127)	41	949558			0.00- 30.00	29.69
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1144159	25.0000	29.753	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	256317			0.00- 30.00	22.40
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	851119	25.0000	29.102	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	254053			0.00- 30.00	29.85
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	152662	25.0000	30.924	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1372709			0.00- 30.00	899.18
9.469	9.469 (0.955)	71	408807			0.00- 30.00	267.79
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	509294	25.0000	27.359	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	545517			74.19- 134.19	107.11
10.326	10.326 (1.042)	97	347761			33.93- 93.93	68.28
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	493240	25.0000	29.000	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	374765			44.46- 104.46	75.98
10.824	10.824 (1.092)	41	482321			62.39- 122.39	97.79
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	253015	25.0000	30.908	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	272185			71.59- 131.59	107.58
11.073	11.073 (1.117)	57	95000			0.00- 30.00	37.55
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	889857	25.0000	30.392	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	556999			34.84- 94.84	62.59
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	583476	25.0000	31.694	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	179842			1.70- 61.70	30.82
12.317	12.317 (1.243)	39	534339			59.73- 119.73	91.58
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	479068	25.0000	32.419	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1469186			0.00- 30.00	306.68
12.594	12.594 (1.271)	85	151558			0.00- 30.00	31.64

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	1244754	25.0000	32.618	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	770439			29.86- 89.86	61.89
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	676632	25.0000	32.429	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	217859			1.85- 61.85	32.20
13.340	13.340 (0.889)	39	526325			49.57- 109.57	77.79
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	446020	25.0000	32.730	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	272523			31.93- 91.93	61.10
13.644	13.644 (0.910)	83	360301			48.00- 108.00	80.78
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	606424	25.0000	30.459	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	517335			57.53- 117.53	85.31
13.672	13.672 (0.912)	131	491232			54.24- 114.24	81.00
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	619033	25.0000	30.320	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1438033			200.78- 260.78	232.30
14.031	14.031 (0.935)	100	107848			0.00- 30.00	17.42
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	867385	25.0000	32.120	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	664515			0.00- 30.00	76.61
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	725326	25.0000	31.243	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	690542			64.59- 124.59	95.20
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1080175	25.0000	29.908	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	360020			2.21- 62.21	33.33
15.027	15.027 (1.002)	77	661687			29.88- 89.88	61.26
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	590519	25.0000	30.525	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	1900484			0.00- 30.00	321.83
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	751508	25.0000	30.005	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1599071			0.00- 30.00	212.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	688951	25.0000	31.404	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	1561934			197.93- 257.93	226.71
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1064082	25.0000	29.462	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	631013			30.31- 90.31	59.30
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	720269	25.0000	32.423	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	366449			21.79- 81.79	50.88
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	909949	25.0000	31.374	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	582516			35.08- 95.08	64.02
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2305651	25.0000	31.585	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	652026			0.00- 58.06	28.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2134213	25.0000	31.122	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	944725			0.00- 30.00	44.27
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1749247	25.0000	30.886	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	752947			13.48- 73.48	43.04
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1082542	25.0000	28.615	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	682973			0.00- 30.00	63.09
17.764	17.764 (1.184)	111	482188			0.00- 30.00	44.54
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1343780	25.0000	30.142	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	865172			0.00- 30.00	64.38
17.847	17.847 (1.190)	111	616649			0.00- 30.00	45.89
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1945358	25.0000	36.049	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	372505			0.00- 30.00	19.15
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1097508	25.0000	27.152	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	714355			33.59- 93.59	65.09
18.206	18.206 (1.214)	111	476416			13.36- 73.36	43.41

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	780113	25.0000	24.713	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	720236			64.71- 124.71	92.32
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	716998	25.0000	25.097	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	449227			30.71- 90.71	62.65
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2451091	25.0000	31.663	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	537326			0.00- 30.00	21.92
16.824	16.824 (1.122)	105	98418			0.00- 30.00	4.02
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2280934	25.0000	30.278	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	586592			0.00- 30.00	25.72
16.326	16.326 (1.088)	51	349798			0.00- 30.00	15.34
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2441935	25.0000	23.910	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	308452			0.00- 30.00	12.63
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	680876	25.0000	27.819	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	190604			0.00- 30.00	27.99
5.571	5.571 (0.691)	57	71405			0.00- 30.00	10.49
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	182337	25.0000	26.168	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1531900			0.00- 30.00	840.15
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1202930	25.0000	29.808	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	698551			0.00- 30.00	58.07
3.414	3.414 (0.424)	72	50488			0.00- 30.00	4.20
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	719516	25.0000	30.837	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	350427			0.00- 30.00	48.70
10.547	10.547 (1.064)	55	999944			0.00- 30.00	138.97

Report Date: 22-Feb-2008 13:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022118.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	293775	-2.24
92 1,4-Difluorobenze	1106928	664157	1549699	1061746	-4.08
125 Chlorobenzene-d5	791985	475191	1108779	778793	-1.67

		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.

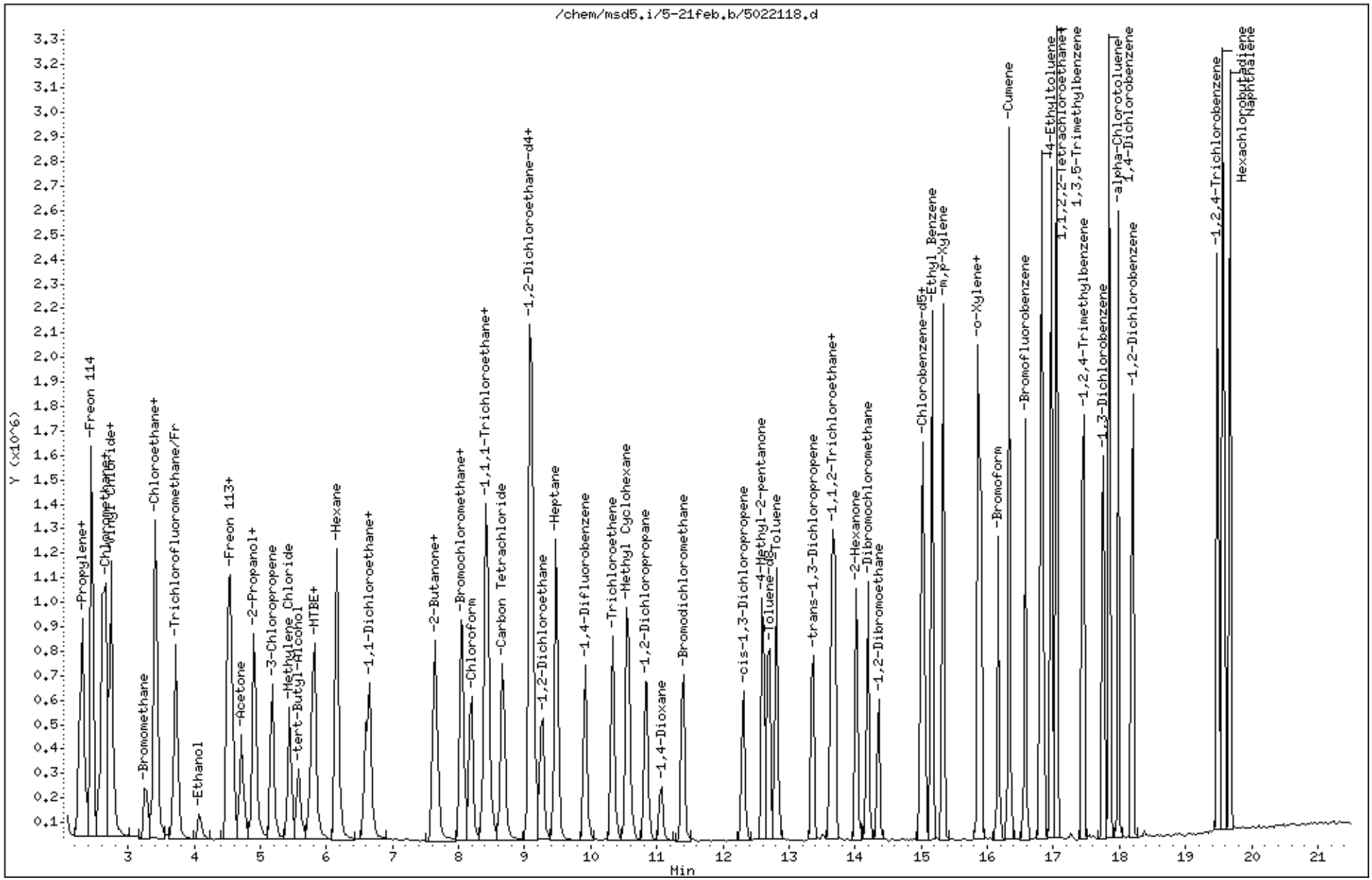
0112

Data File: /chem/msd5.i/5-21feb.b/5022118.d
Date : 21-FEB-2008 19:07
Client ID: Level 4
Sample Info: 25mL #1576-263

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022128.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 22-FEB-2008 11:36
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-299
Misc Info : 50ppbv (200ppbv) sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 11:36 Cal File: 5022128.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.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	316829	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	254020			50.18- 110.18	80.18
8.059	8.059 (1.000)	49	766652			211.98- 271.98	241.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1201581	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	200768			0.00- 46.71	16.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	856914	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	523970			31.15- 91.15	61.15
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	986346	50.0000	57.198	80.00- 120.00	100.00
2.336	2.336 (0.290)	69	111974			0.00- 41.35	11.35
3 Freon 152a					CAS #: 75-37-6		
2.253	2.253 (0.280)	65	715724	50.0000	55.584	80.00- 120.00	100.00
2.336	2.336 (0.290)	51	4353887			578.32- 638.32	608.32

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 (0.290)	67	277288	50.0000	52.640	80.00- 120.00	100.00
2.336	2.336 (0.290)	51	4329321			1531.31-1591.31	1561.31
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	2265205	50.0000	56.923	80.00- 120.00	100.00
2.529	2.529 (0.314)	45	681126			0.07- 60.07	30.07
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.718	3.718 (0.461)	67	1732812	50.0000	57.970	80.00- 120.00	100.00(T)
3.718	3.718 (0.461)	69	516234			0.00- 59.79	29.79
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
22 Freon123a					CAS #: 354-23-4		
4.271	4.271 (0.530)	117	802116	50.0000	54.299	80.00- 120.00	100.00
4.271	4.271 (0.530)	67	1113366			108.80- 168.80	138.80
24 Freon123					CAS #: 306-83-2		
4.382	4.382 (0.544)	83	112787	50.0000	54.434	80.00- 120.00	100.00
4.409	4.409 (0.547)	133	25211			0.00- 52.35	22.35
4.382	4.382 (0.544)	85	97160			56.14- 116.14	86.14
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	5172339	50.0000	59.136	80.00- 120.00	100.00
6.594	6.594 (0.818)	87	757802			0.00- 44.65	14.65
6.594	6.594 (0.818)	59	426440			0.00- 38.24	8.24
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	2427838	50.0000	62.846	80.00- 120.00	100.00
7.202	7.202 (0.894)	87	717340			0.00- 59.55	29.55
7.202	7.202 (0.894)	41	539690			0.00- 52.23	22.23
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	179719	50.0000	56.050	80.00- 120.00	100.00
7.700	7.700 (0.955)	43	3171327			1734.60-1794.60	1764.60
7.700	7.700 (0.955)	61	313725			144.56- 204.56	174.56
64 1-Propanol					CAS #: 71-23-8		
6.787	6.787 (0.842)	42	242645	50.0000	50.236	80.00- 120.00	100.00
6.815	6.815 (0.846)	59	233308			66.15- 126.15	96.15
6.787	6.787 (0.842)	41	170004			40.06- 100.06	70.06
76 Isobutanol					CAS #: 78-83-1		
9.082	9.082 (0.916)	43	1144160	50.0000	59.083	80.00- 120.00	100.00
9.082	9.082 (0.916)	41	824127			42.03- 102.03	72.03

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 (1.151)	73	1766020	50.0000	59.286	80.00- 120.00	100.00
9.276	9.276 (1.151)	87	473843			0.00- 56.83	26.83
9.276	9.276 (1.151)	55	838944			17.50- 77.50	47.50
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	824761	50.0000	66.784	80.00- 120.00	100.00
10.354	10.354 (1.045)	41	673693			51.68- 111.68	81.68
10.354	10.354 (1.045)	43	524373			33.58- 93.58	63.58
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	1265060	50.0000	57.455	80.00- 120.00	100.00
14.197	14.197 (1.432)	73	296841			0.00- 53.46	23.46
14.197	14.197 (1.432)	43	3228538			225.21- 285.21	255.21
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	1523984	50.0000	54.242	80.00- 120.00	100.00
16.520	16.520 (1.101)	98	431256			0.00- 58.30	28.30
16.520	16.520 (1.101)	42	1168563			46.68- 106.68	76.68
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	4442320	50.0000	54.213	80.00- 120.00	100.00
17.211	17.211 (1.147)	85	2286566			21.47- 81.47	51.47

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: 5022128.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv) sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	316829	0.00
92 1,4-Difluorobenze	1201581	720949	1682213	1201581	0.00
125 Chlorobenzene-d5	856914	514148	1199680	856914	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.

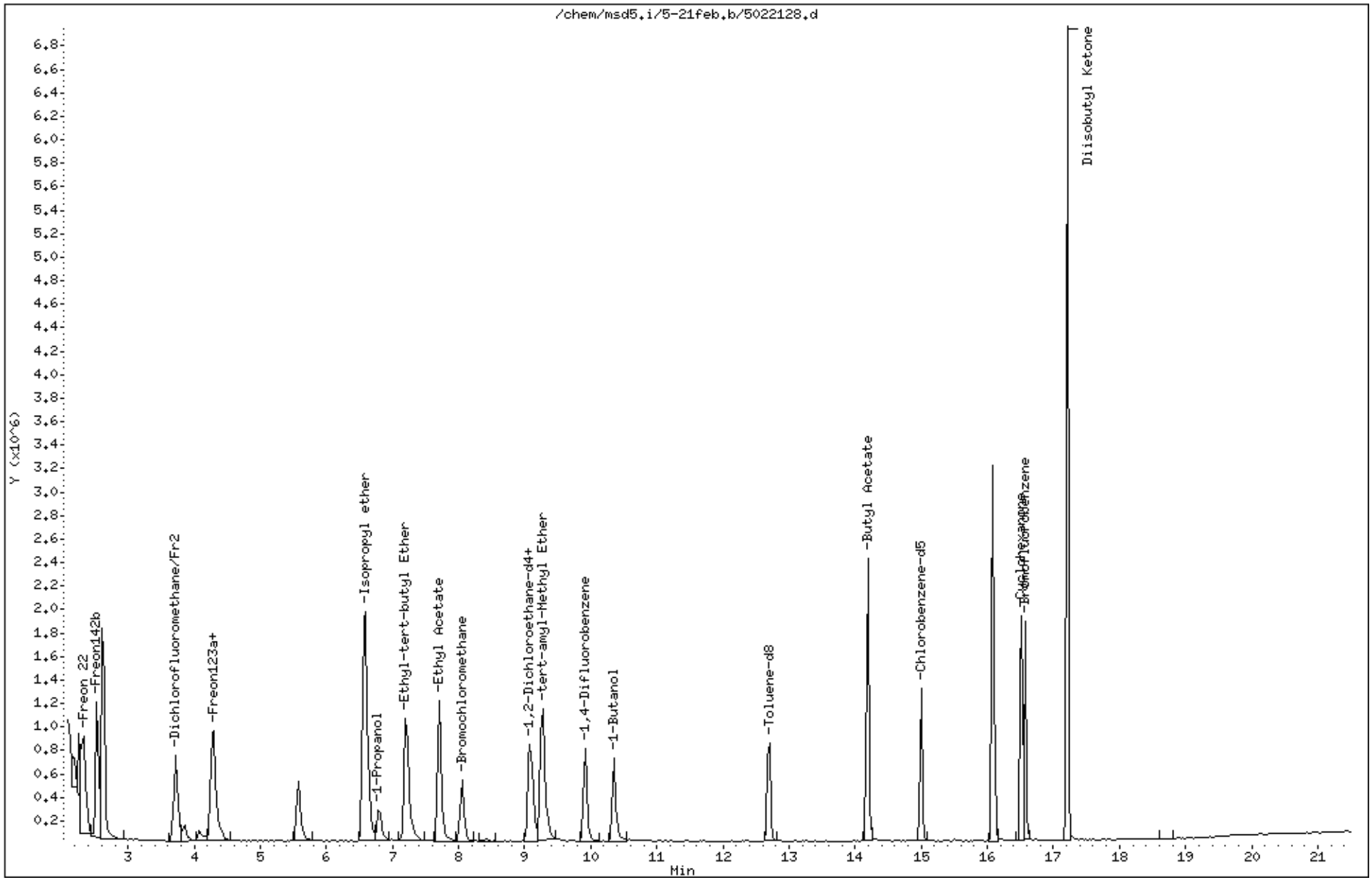
0117

Data File: /chem/msd5.i/5-21feb.b/5022128.d
Date : 22-FEB-2008 11:36
Client ID: Level 5
Sample Info: 50mL #1576-299

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022119.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 21-FEB-2008 19:35
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-263
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 19:35 Cal File: 5022119.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

	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	300521	25.0000		80.00- 120.00	100.00
	8.059	8.059 (1.000)	128	240850			50.14- 110.14	80.14
	8.059	8.059 (1.000)	49	678237			195.69- 255.69	225.69
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.911	9.911 (1.000)	114	1106928	25.0000		80.00- 120.00	100.00
	9.911	9.911 (1.000)	88	182508			0.00- 46.49	16.49
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	791985	25.0000		80.00- 120.00	100.00
	14.999	14.999 (1.000)	82	477181			30.25- 90.25	60.25
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.137	9.137 (1.134)	65	559793	25.0000	25.020	80.00- 120.00	100.00
	9.110	9.110 (1.130)	67	277167			19.51- 79.51	49.51
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.282)	98	1008623	25.0000	24.783	80.00- 120.00	100.00
	12.704	12.704 (1.282)	70	111151			0.00- 41.02	11.02

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	703314			39.73- 99.73	69.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	508243	25.0000	24.569	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	733492			114.32- 174.32	144.32
16.575	16.575 (1.105)	176	492290			66.86- 126.86	96.86
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	1298340	50.0000	51.416	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	873262			37.26- 97.26	67.26
2.253	2.253 (0.280)	39	895073			38.94- 98.94	68.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	2554384	50.0000	56.393	80.00- 120.00	100.00
2.308	2.308 (0.286)	87	824357			2.27- 62.27	32.27
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1947690	50.0000	57.288	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	599278			0.77- 60.77	30.77
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	1724883	50.0000	52.615	80.00- 120.00	100.00
2.584	2.584 (0.321)	52	478526			0.00- 57.74	27.74
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	1328332	50.0000	56.855	80.00- 120.00	100.00
2.750	2.750 (0.341)	64	390251			0.00- 59.38	29.38
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1367302	50.0000	54.749	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1624557			88.81- 148.81	118.81
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	746458	50.0000	59.704	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	703615			64.26- 124.26	94.26
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	662780	50.0000	58.208	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	248882			7.55- 67.55	37.55
3.414	3.414 (0.424)	66	199427			0.09- 60.09	30.09
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2752611	50.0000	54.047	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1762524			34.03- 94.03	64.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	581364	50.0000	57.011	80.00- 120.00	100.00
4.077	4.077 (0.506)	43	114890			0.00- 49.76	19.76
4.077	4.077 (0.506)	46	239056			11.12- 71.12	41.12
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1405299	50.0000	54.689	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	913546			35.01- 95.01	65.01
4.520	4.520 (0.561)	101	1763772			95.51- 155.51	125.51
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2011215	50.0000	56.675	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	831144			11.33- 71.33	41.33
4.575	4.575 (0.568)	98	542020			0.00- 56.95	26.95
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	637929	50.0000	54.453	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2299544			330.47- 390.47	360.47
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2707135	50.0000	55.728	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	609593			0.00- 52.52	22.52
4.907	4.907 (0.609)	59	75864			0.00- 32.80	2.80
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2406402	50.0000	57.415	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	414359	50.0000	53.420	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	2111471			479.58- 539.58	509.58
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1706770	50.0000	53.981	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	698114			10.90- 70.90	40.90
5.432	5.432 (0.674)	51	504893			0.00- 59.58	29.58
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1285382	50.0000	63.457	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	420035			2.68- 62.68	32.68
5.764	5.764 (0.715)	41	479500			7.30- 67.30	37.30
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	928593	50.0000	52.615	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1853142			169.56- 229.56	199.56
5.819	5.819 (0.722)	98	595194			34.10- 94.10	64.10

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	2302486	50.0000	55.643	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1736895			45.44- 105.44	75.44
6.151	6.151 (0.763)	86	271934			0.00- 41.81	11.81
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1981154	50.0000	54.856	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	604904			0.53- 60.53	30.53
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	384456	50.0000	59.599	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2915593			728.37- 788.37	758.37
7.644	7.644 (0.949)	57	201730			22.47- 82.47	52.47
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1565585	50.0000	59.781	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	824733			22.68- 82.68	52.68
7.617	7.617 (0.945)	98	537971			4.36- 64.36	34.36
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1722068	50.0000	49.724	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	342653			0.00- 49.90	19.90
8.031	8.031 (0.997)	72	373766			0.00- 51.70	21.70
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1710931	50.0000	52.420	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1129574			36.02- 96.02	66.02
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2022395	50.0000	60.974	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1270587			32.83- 92.83	62.83
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1130208	50.0000	56.134	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2185255			163.35- 223.35	193.35
8.418	8.418 (1.045)	41	1311052			86.00- 146.00	116.00
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	218044	50.0000	57.312	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3871347			1745.49-1805.49	1775.49
6.649	6.649 (0.825)	42	299621			107.41- 167.41	137.41
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1976522	50.0000	56.048	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	2053339			73.89- 133.89	103.89

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	6213022	50.0000	56.336	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2015399			2.44- 62.44	32.44
9.082	9.082 (1.127)	41	1843879			0.00- 59.68	29.68
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2239212	50.0000	54.575	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	531897			0.00- 53.75	23.75
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1665720	50.0000	53.394	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	503561			0.23- 60.23	30.23
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	303119	50.0000	56.387	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2739496			873.77- 933.77	903.77
9.469	9.469 (0.955)	71	810288			237.32- 297.32	267.32
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1010571	50.0000	51.538	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1052881			74.19- 134.19	104.19
10.326	10.326 (1.042)	97	646074			33.93- 93.93	63.93
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	965939	50.0000	53.283	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	719223			44.46- 104.46	74.46
10.824	10.824 (1.092)	41	892449			62.39- 122.39	92.39
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	528077	50.0000	57.337	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	536452			71.59- 131.59	101.59
11.073	11.073 (1.117)	57	192687			6.49- 66.49	36.49
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1759031	50.0000	55.509	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1140471			34.84- 94.84	64.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1191505	50.0000	58.544	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	377717			1.70- 61.70	31.70
12.317	12.317 (1.243)	39	1069184			59.73- 119.73	89.73
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	943872	50.0000	57.999	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2971824			284.85- 344.85	314.85
12.593	12.593 (1.271)	85	304280			2.24- 62.24	32.24

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	2462410	50.0000	58.418	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1474018			29.86- 89.86	59.86
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1349325	50.0000	59.545	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	429793			1.85- 61.85	31.85
13.340	13.340 (0.889)	39	1073696			49.57- 109.57	79.57
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	882181	50.0000	59.589	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	546295			31.93- 91.93	61.93
13.644	13.644 (0.910)	83	688141			48.00- 108.00	78.00
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1152734	50.0000	55.026	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1009018			57.53- 117.53	87.53
13.699	13.699 (0.913)	131	971074			54.24- 114.24	84.24
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1284371	50.0000	57.328	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2964135			200.78- 260.78	230.78
14.031	14.031 (0.935)	100	203001			0.00- 45.81	15.81
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1703097	50.0000	58.502	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1344766			48.96- 108.96	78.96
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1436989	50.0000	57.730	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1359290			64.59- 124.59	94.59
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2182197	50.0000	56.743	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	702853			2.21- 62.21	32.21
15.027	15.027 (1.002)	77	1306669			29.88- 89.88	59.88
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1112400	50.0000	54.752	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3720557			304.46- 364.46	334.46
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1456902	50.0000	55.213	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3177839			188.12- 248.12	218.12
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1365248	50.0000	57.951	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	3111772			197.93- 257.93	227.93
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2120538	50.0000	56.002	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1278897			30.31- 90.31	60.31
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1454928	50.0000	60.077	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	753461			21.79- 81.79	51.79
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1764026	50.0000	57.012	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1148021			35.08- 95.08	65.08
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4546708	50.0000	57.986	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1275600			0.00- 58.06	28.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4155167	50.0000	56.858	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1832165			14.09- 74.09	44.09
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3492634	50.0000	57.578	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1518440			13.48- 73.48	43.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2130718	50.0000	53.932	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1355492			33.62- 93.62	63.62
17.764	17.764 (1.184)	111	962040			15.15- 75.15	45.15
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2715987	50.0000	57.080	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1719319			33.30- 93.30	63.30
17.847	17.847 (1.190)	111	1230234			15.30- 75.30	45.30
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4034802	50.0000	65.786	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	759129			0.00- 48.81	18.81
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2162536	50.0000	51.931	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1375125			33.59- 93.59	63.59
18.206	18.206 (1.214)	111	937640			13.36- 73.36	43.36

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	1605432	50.0000	50.008	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1520514			64.71- 124.71	94.71
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1430466	50.0000	49.489	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	868367			30.71- 90.71	60.71
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4769910	50.0000	57.543	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1134329			0.00- 53.78	23.78
16.824	16.824 (1.122)	105	194731			0.00- 34.08	4.08
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4468833	50.0000	56.452	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1088542			0.00- 54.36	24.36
16.326	16.326 (1.088)	51	682320			0.00- 45.27	15.27
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5451210	50.0000	51.630	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	707634			0.00- 42.98	12.98
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	1190042	50.0000	48.326	80.00- 120.00	100.00
5.570	5.570 (0.691)	41	329908			0.00- 57.72	27.72
5.570	5.570 (0.691)	57	133298			0.00- 41.20	11.20
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	346234	50.0000	49.040	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2942518			819.86- 879.86	849.86
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2350638	50.0000	54.422	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1416274			30.25- 90.25	60.25
3.414	3.414 (0.424)	72	107305			0.00- 34.56	4.56
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1423397	50.0000	56.125	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	715133			20.24- 80.24	50.24
10.547	10.547 (1.064)	55	1949244			106.94- 166.94	136.94

Report Date: 22-Feb-2008 13:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022119.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	300521	0.00
92 1,4-Difluorobenze	1106928	664157	1549699	1106928	0.00
125 Chlorobenzene-d5	791985	475191	1108779	791985	0.00

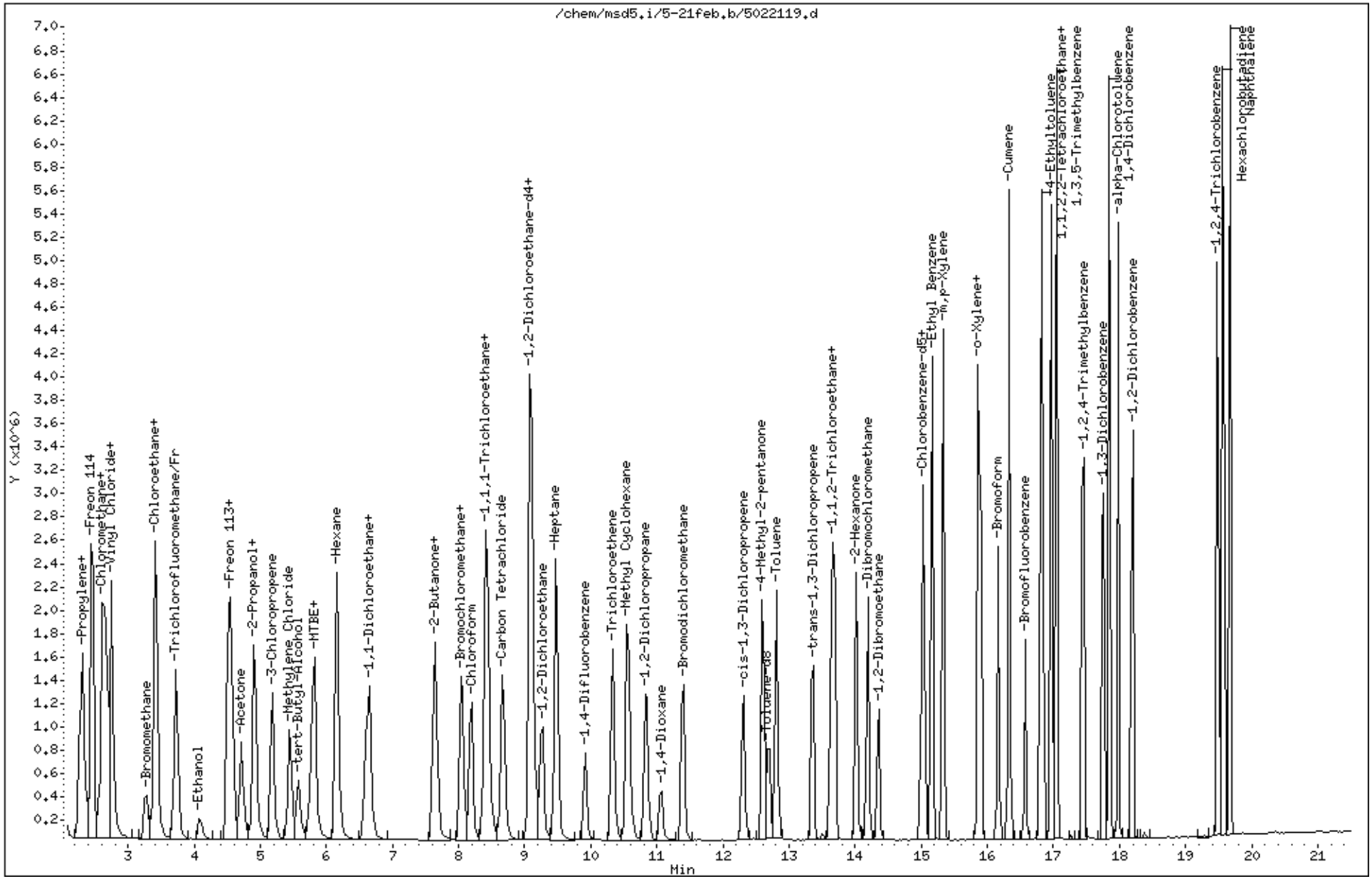
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/5-21feb.b/5022119.d
Date : 21-FEB-2008 19:35
Client ID: Level 5
Sample Info: 50mL #1576-263

Instrument: msd5.i
Operator: cb
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/5-21feb.b/5022120.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 21-FEB-2008 20:04
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-263
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:04 Cal File: 5022120.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	306122	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	242493			50.14- 110.14	79.21
8.059	8.059 (1.000)	49	705422			195.69- 255.69	230.44
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1123569	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	190872			0.00- 46.49	16.99
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	809192	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	495457			0.00- 30.00	61.23
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	583037	25.0000	25.464	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	319223			0.00- 30.00	54.75
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1050477	25.0000	25.342	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	111123			0.00- 30.00	10.58

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	750000			0.00- 30.00	71.40
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	530241	25.0000	25.070	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	745790			114.32- 174.32	140.65
16.575	16.575 (1.105)	176	494732			66.86- 126.86	93.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	2612067	100.000	101.16	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	1729074			0.00- 30.00	66.20
2.253	2.253 (0.280)	39	1813620			0.00- 30.00	69.43
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	5367582	100.000	112.65	70.00- 130.00	100.00
2.308	2.308 (0.286)	87	1735123			0.00- 30.00	32.33
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3848340	100.000	108.70	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1185879			0.77- 60.77	30.82
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	3569438	100.000	105.08	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	990515			0.00- 30.00	27.75
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	2732005	100.000	111.50	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	770354			0.00- 30.00	28.20
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	2739664	100.000	106.06	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	3399432			0.00- 30.00	124.08
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1564206	100.000	117.46	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1448657			64.26- 124.26	92.61
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1329987	100.000	111.40	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	505223			0.00- 30.00	37.99
3.414	3.414 (0.424)	66	405590			0.00- 30.00	30.50
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	5638598	100.000	106.83	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	3594877			34.03- 94.03	63.75

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	1148270	100.000	107.70	70.00- 130.00	100.00
4.105	4.105 (0.509)	43	211130			0.00- 30.00	18.39
4.105	4.105 (0.509)	46	449958			0.00- 30.00	39.19
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	2912296	100.000	108.81	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1840435			35.01- 95.01	63.20
4.520	4.520 (0.561)	101	3629299			95.51- 155.51	124.62
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	4040669	100.000	109.21	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1748193			11.33- 71.33	43.26
4.575	4.575 (0.568)	98	1099700			0.00- 56.95	27.22
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1291555	100.000	106.05	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	4732153			0.00- 30.00	366.39
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5671374	100.000	110.57	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1212629			0.00- 30.00	21.38
4.907	4.907 (0.609)	59	168124			0.00- 30.00	2.96
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4965425	100.000	112.63	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	827451	100.000	103.50	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	4243879			0.00- 30.00	512.89
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	3458873	100.000	105.83	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	1429644			10.90- 70.90	41.33
5.460	5.460 (0.677)	51	1067851			0.00- 30.00	30.87
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	2801312	100.000	126.70	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	939821			2.68- 62.68	33.55
5.764	5.764 (0.715)	41	1048207			0.00- 30.00	37.42
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1870842	100.000	103.22	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	3791831			169.56- 229.56	202.68
5.819	5.819 (0.722)	98	1197384			0.00- 30.00	64.00

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	4788792	100.000	110.60	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3484576			0.00- 30.00	72.77
6.151	6.151 (0.763)	86	564566			0.00- 30.00	11.79
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	3978734	100.000	106.42	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1224728			0.53- 60.53	30.78
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	811712	100.000	117.98	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	5980983			728.37- 788.37	736.84
7.644	7.644 (0.949)	57	410476			0.00- 30.00	50.57
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	3149547	100.000	113.95	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1690375			22.68- 82.68	53.67
7.617	7.617 (0.945)	98	1075338			4.36- 64.36	34.14
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3510994	100.000	99.619	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	704154			0.00- 49.90	20.06
8.031	8.031 (0.997)	72	753920			0.00- 30.00	21.47
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3525778	100.000	104.99	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2255324			36.02- 96.02	63.97
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3998954	100.000	114.17	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2564426			32.83- 92.83	64.13
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2286080	100.000	108.96	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	4468139			163.35- 223.35	195.45
8.418	8.418 (1.045)	41	2618872			86.00- 146.00	114.56
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	460476	100.000	113.48	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	7975743			0.00- 30.00	1732.06
6.649	6.649 (0.825)	42	616869			0.00- 30.00	133.96
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3985581	100.000	108.57	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	4148683			73.89- 133.89	104.09

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 (1.127)	57	12540505	100.000	109.09	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	4103438			0.00- 30.00	32.72
9.082	9.082 (1.127)	41	3686455			0.00- 30.00	29.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	4542373	100.000	107.44	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1057841			0.00- 30.00	23.29
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	3330928	100.000	104.11	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1012977			0.00- 30.00	30.41
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	580821	100.000	105.09	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	5383023			0.00- 30.00	926.80
9.469	9.469 (0.955)	71	1631447			0.00- 30.00	280.89
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2072122	100.000	103.26	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2140748			74.19- 134.19	103.31
10.326	10.326 (1.042)	97	1329968			33.93- 93.93	64.18
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1958188	100.000	105.07	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	1415566			44.46- 104.46	72.29
10.824	10.824 (1.092)	41	1750030			62.39- 122.39	89.37
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1040282	100.000	108.23	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1112765			71.59- 131.59	106.97
11.073	11.073 (1.117)	57	377969			0.00- 30.00	36.33
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3547568	100.000	108.07	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2281404			34.84- 94.84	64.31
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2456711	100.000	114.58	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	785055			1.70- 61.70	31.96
12.289	12.289 (1.240)	39	2158641			59.73- 119.73	87.87
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1980890	100.000	115.32	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	6019588			0.00- 30.00	303.88
12.594	12.594 (1.271)	85	623352			0.00- 30.00	31.47

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	4949371	100.000	112.16	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2947147			29.86- 89.86	59.55
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2841103	100.000	117.38	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	895935			1.85- 61.85	31.53
13.340	13.340 (0.889)	39	2112479			49.57- 109.57	74.35
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1735498	100.000	111.45	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1073630			31.93- 91.93	61.86
13.644	13.644 (0.910)	83	1379748			48.00- 108.00	79.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	2330843	100.000	106.99	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	2000980			57.53- 117.53	85.85
13.699	13.699 (0.913)	131	1950860			54.24- 114.24	83.70
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2660534	100.000	111.70	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	6028444			200.78- 260.78	226.59
14.031	14.031 (0.935)	100	426049			0.00- 30.00	16.01
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3476028	100.000	113.05	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2708544			0.00- 30.00	77.92
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2954307	100.000	112.53	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	2753535			64.59- 124.59	93.20
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	4374907	100.000	108.87	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1398887			2.21- 62.21	31.98
15.027	15.027 (1.002)	77	2621812			29.88- 89.88	59.93
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2289486	100.000	108.07	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	7540370			0.00- 30.00	329.35
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2906305	100.000	106.14	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	6228625			0.00- 30.00	214.31
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2687966	100.000	109.12	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	6175350			197.93- 257.93	229.74
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	4254764	100.000	108.18	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	2454057			30.31- 90.31	57.68
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2982859	100.000	115.79	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1547220			21.79- 81.79	51.87
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3489316	100.000	108.13	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	2238059			35.08- 95.08	64.14
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	8818365	100.000	107.90	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2492577			0.00- 58.06	28.27
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	8215172	100.000	107.86	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	3649167			0.00- 30.00	44.42
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	6986639	100.000	109.93	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	2996497			13.48- 73.48	42.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4275229	100.000	104.67	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	2744543			0.00- 30.00	64.20
17.764	17.764 (1.184)	111	1935359			0.00- 30.00	45.27
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	5270362	100.000	106.62	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	3264199			0.00- 30.00	61.94
17.847	17.847 (1.190)	111	2505274			0.00- 30.00	47.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	8565859	100.000	127.35	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1622160			0.00- 30.00	18.94
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	4296406	100.000	100.78	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	2746076			33.59- 93.59	63.92
18.206	18.206 (1.214)	111	1927928			13.36- 73.36	44.87

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	3270276	100.000	99.775	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	3108360			64.71- 124.71	95.05
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2889540	100.000	98.372	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1776841			30.71- 90.71	61.49
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	9449763	100.000	109.05	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2127043			0.00- 30.00	22.51
16.824	16.824 (1.122)	105	352807			0.00- 30.00	3.73
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	8856203	100.000	107.79	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2244398			0.00- 30.00	25.34
16.326	16.326 (1.088)	51	1328236			0.00- 30.00	15.00
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	11123420	100.000	102.32	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1396008			0.00- 30.00	12.55
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2125547	100.000	88.099	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	571395			0.00- 30.00	26.88
5.571	5.571 (0.691)	57	236509			0.00- 30.00	11.13
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	705537	100.000	98.570	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	6015742			0.00- 30.00	852.65
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4742677	100.000	105.73	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2808837			0.00- 30.00	59.22
3.414	3.414 (0.424)	72	210513			0.00- 30.00	4.44
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	2841400	100.000	108.13	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	1435487			0.00- 30.00	50.52
10.547	10.547 (1.064)	55	3870425			0.00- 30.00	136.22

Report Date: 22-Feb-2008 13:17

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5022120.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	306122	1.86
92 1,4-Difluorobenze	1106928	664157	1549699	1123569	1.50
125 Chlorobenzene-d5	791985	475191	1108779	809192	2.17

		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

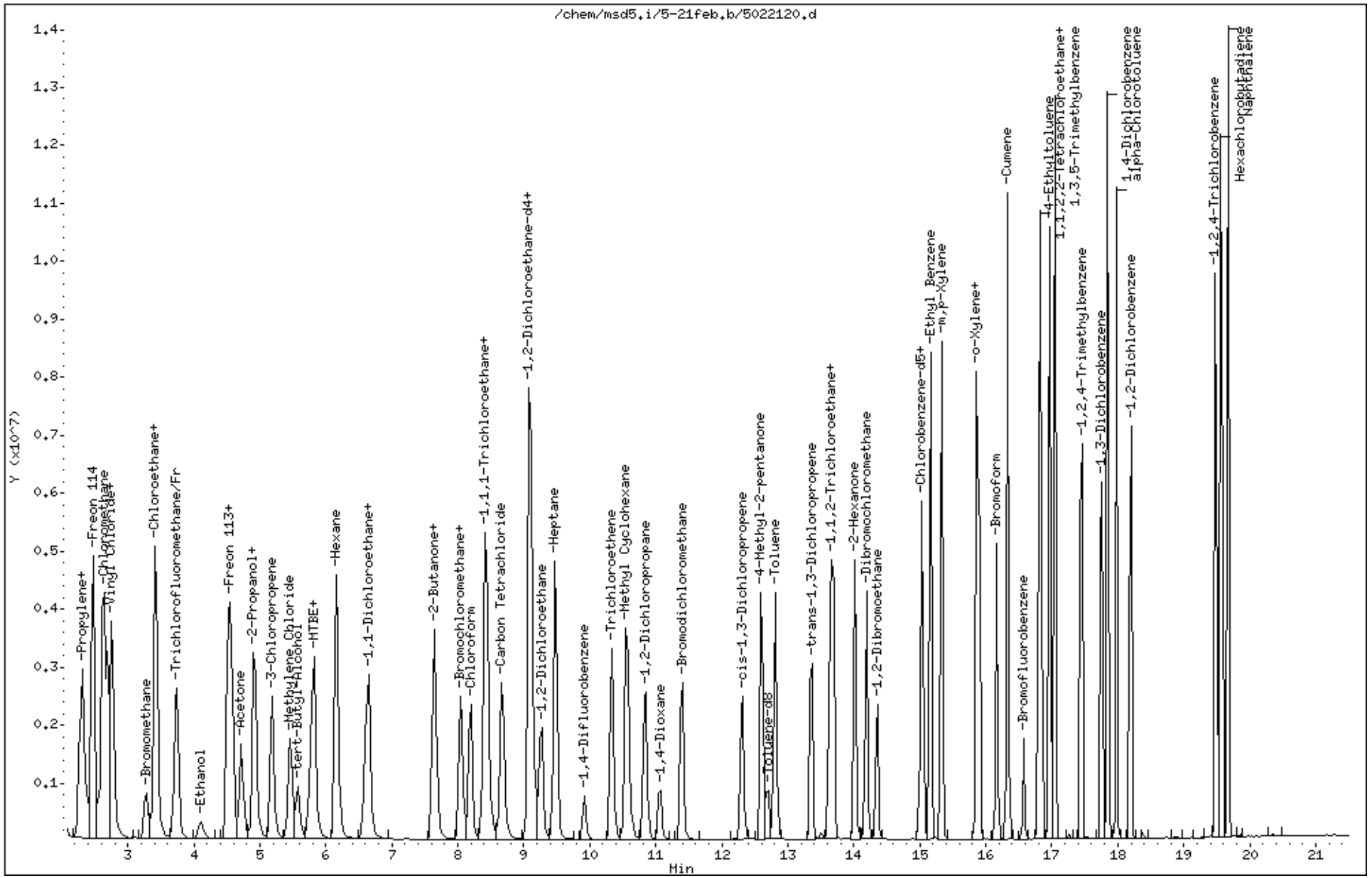
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-21feb.b/5022120.d
Date : 21-FEB-2008 20:04
Client ID: Level 6
Sample Info: 100mL #1576-263

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022129.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-FEB-2008 12:09
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-299
Misc Info : 200ppbv sp17a
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:20 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp17a.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	327760	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	255449			50.18- 110.18	77.94
8.059	8.059 (1.000)	49	790971			211.98- 271.98	241.33
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1245076	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	197888			0.00- 46.71	15.89
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	873183	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	502174			0.00- 30.00	57.51
1 Freon134a					CAS #: 811-97-2		
2.197	2.197 (0.273)	83	3902567	200.000	212.13	70.00- 130.00	100.00(TA)
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 (0.283)	65	2744161	200.000	203.96	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	51	18132530			0.00- 30.00	660.77

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 (0.290)	67	1110083	200.000	202.46	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	51	17906717			0.00- 30.00	1613.10
5 Freon142b					CAS #: 75-68-3		
2.529	2.529 (0.314)	65	8673597	200.000	207.00	70.00- 130.00	100.00(A)
2.529	2.529 (0.314)	45	2534293			0.00- 30.00	29.22
16 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.746	3.746 (0.465)	67	6975866	200.000	216.36	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	69	2096201			0.00- 30.00	30.05
4.022	4.022 (0.499)	35	3326			0.00- 30.00	0.05
22 Freon123a					CAS #: 354-23-4		
4.299	4.299 (0.533)	117	3226725	200.000	207.30	70.00- 130.00	100.00(A)
4.299	4.299 (0.533)	67	4564514			0.00- 30.00	141.46
24 Freon123					CAS #: 306-83-2		
4.409	4.409 (0.547)	83	479326	200.000	215.15	70.00- 130.00	100.00(A)
4.409	4.409 (0.547)	133	107060			0.00- 30.00	22.34
4.409	4.409 (0.547)	85	337772			0.00- 30.00	70.47
49 Isopropyl ether					CAS #: 108-20-3		
6.594	6.594 (0.818)	45	20798737	200.000	218.96	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	87	3107794			0.00- 30.00	14.94
6.594	6.594 (0.818)	59	1735743			0.00- 30.00	8.35
57 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
7.202	7.202 (0.894)	59	8469810	200.000	207.80	70.00- 130.00	100.00(A)
7.202	7.202 (0.894)	87	2518929			0.00- 30.00	29.74
7.202	7.202 (0.894)	41	1863517			0.00- 30.00	22.00
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	755574	200.000	217.70	70.00- 130.00	100.00(A)
7.700	7.700 (0.955)	43	12917292			0.00- 30.00	1709.60
7.700	7.700 (0.955)	61	1316630			0.00- 30.00	174.26
64 1-Propanol					CAS #: 71-23-8		
6.787	6.787 (0.842)	42	1101008	200.000	213.12	70.00- 130.00	100.00(A)
6.787	6.787 (0.842)	59	1047215			0.00- 30.00	95.11
6.787	6.787 (0.842)	41	788476			0.00- 30.00	71.61
76 Isobutanol					CAS #: 78-83-1		
9.055	9.055 (0.914)	43	5010493	200.000	230.60	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	41	3498341			0.00- 30.00	69.82

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 (1.151)	73	5716325	200.000	190.09	70.00- 130.00	100.00
9.276	9.276 (1.151)	87	1539434			0.00- 30.00	26.93
9.276	9.276 (1.151)	55	2549177			0.00- 30.00	44.59
91 1-Butanol					CAS #: 71-36-3		
10.354	10.354 (1.045)	56	3830971	200.000	256.83	70.00- 130.00	100.00(A)
10.354	10.354 (1.045)	41	2971684			0.00- 30.00	77.57
10.354	10.354 (1.045)	43	2404518			0.00- 30.00	62.77
118 Butyl Acetate					CAS #: 123-86-4		
14.197	14.197 (1.432)	56	5277780	200.000	219.85	70.00- 130.00	100.00(A)
14.197	14.197 (1.432)	73	1251556			0.00- 30.00	23.71
14.197	14.197 (1.432)	43	13857714			0.00- 30.00	262.57
135 Cyclohexanone					CAS #: 108-94-1		
16.520	16.520 (1.101)	55	6424193	200.000	215.62	70.00- 130.00	100.00(A)
16.520	16.520 (1.101)	98	1840348			0.00- 30.00	28.65
16.520	16.520 (1.101)	42	5037301			0.00- 30.00	78.41
146 Diisobutyl Ketone					CAS #: 108-83-8		
17.211	17.211 (1.147)	57	15248001	200.000	188.06	70.00- 130.00	100.00
17.211	17.211 (1.147)	85	9114831			21.47- 81.47	59.78

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: 5022129.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 200ppbv sp17a

Calibration Date: 22-FEB-2008
Calibration Time: 11:36
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	316829	190097	443561	327760	3.45
92 1,4-Difluorobenze	1201581	720949	1682213	1245076	3.62
125 Chlorobenzene-d5	856914	514148	1199680	873183	1.90

		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.

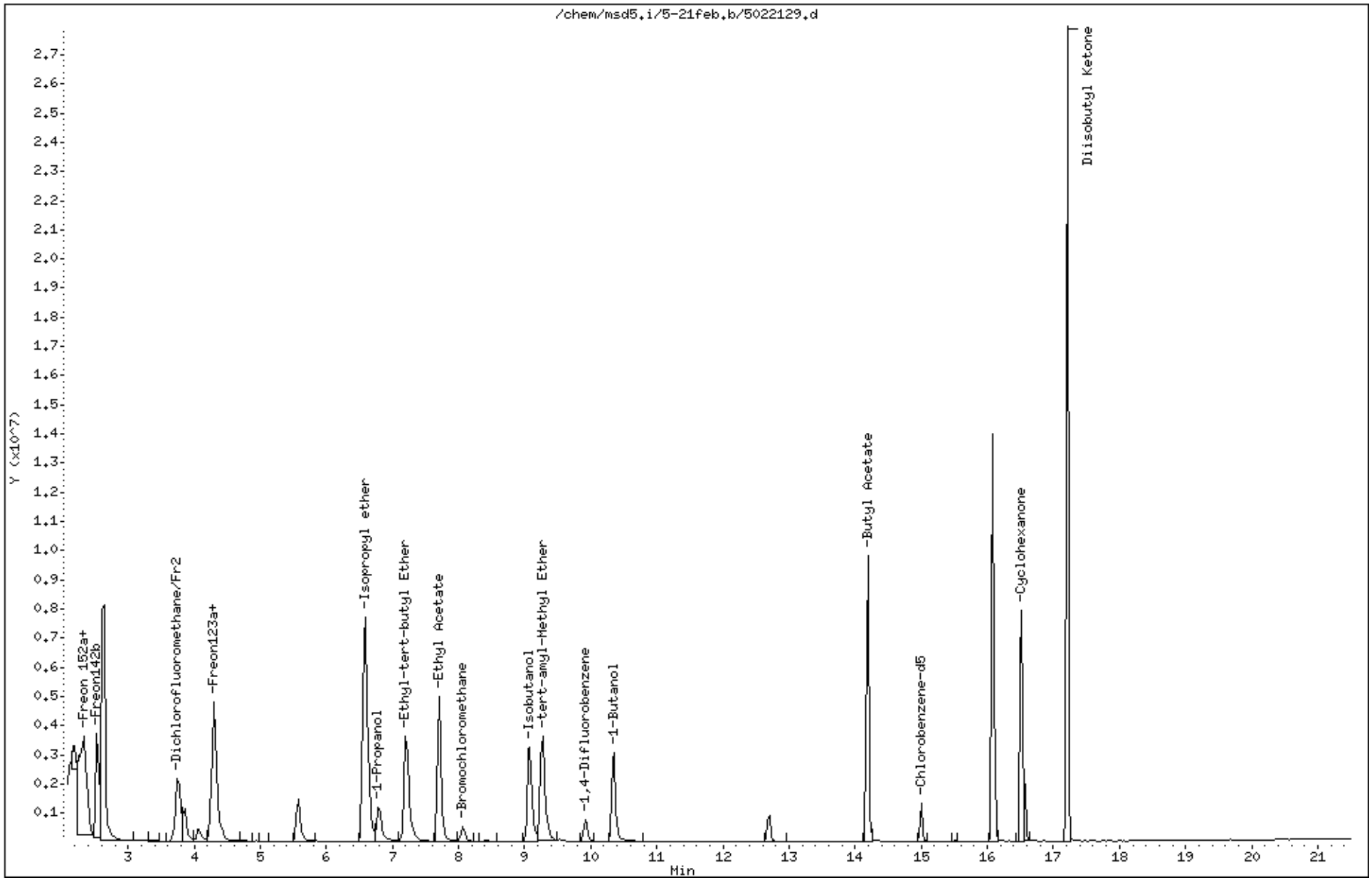
0142

Data File: /chem/msd5.i/5-21feb.b/5022129.d
Date : 22-FEB-2008 12:09
Client ID: Level 7
Sample Info: 200mL #1576-299

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-21feb.b/5022121.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 21-FEB-2008 20:36
Operator : cb Inst ID: msd5.i
Smp Info : 200mL #1576-263
Misc Info : 200ppbv
Comment :
Method : /chem/msd5.i/5-21feb.b/t14q221a.m
Meth Date : 22-Feb-2008 13:17 cbond Quant Type: ISTD
Cal Date : 21-FEB-2008 20:36 Cal File: 5022121.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

	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	330627	25.0000		70.00- 130.00	100.00
	8.059	8.059 (1.000)	128	249619			50.14- 110.14	75.50
	8.059	8.059 (1.000)	49	768754			195.69- 255.69	232.51
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.911	9.911 (1.000)	114	1241116	25.0000		70.00- 130.00	100.00
	9.911	9.911 (1.000)	88	216433			0.00- 46.49	17.44
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	855617	25.0000		70.00- 130.00	100.00
	14.999	14.999 (1.000)	82	507125			0.00- 30.00	59.27
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.137	9.137 (1.134)	65	677470	25.0000	26.964	70.00- 130.00	100.00
	9.137	9.137 (1.134)	67	430486			0.00- 30.00	63.54
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.282)	98	1102878	25.0000	24.234	70.00- 130.00	100.00
	12.704	12.704 (1.282)	70	139292			0.00- 30.00	12.63

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	845565			0.00- 30.00	76.67
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	543500	25.0000	24.416	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	808198			114.32- 174.32	148.70
16.575	16.575 (1.105)	176	550575			66.86- 126.86	101.30
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	5400547	200.000	194.88	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	3613085			0.00- 30.00	66.90
2.253	2.253 (0.280)	39	3723214			0.00- 30.00	68.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.308 (0.286)	85	10754915	200.000	207.44	70.00- 130.00	100.00(A)
2.308	2.308 (0.286)	87	3428023			0.00- 30.00	31.87
9 Freon 114					CAS #: 76-14-2		
2.501	2.501 (0.310)	135	7988675	200.000	207.39	70.00- 130.00	100.00(A)
2.501	2.501 (0.310)	137	2494465			0.77- 60.77	31.23
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	7958740	200.000	213.32	70.00- 130.00	100.00(A)
2.612	2.612 (0.324)	52	2160938			0.00- 30.00	27.15
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	5747234	200.000	214.10	70.00- 130.00	100.00(A)
2.750	2.750 (0.341)	64	1714501			0.00- 30.00	29.83
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	5865536	200.000	208.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	7624537			0.00- 30.00	129.99
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	3347285	200.000	226.55	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	3126536			64.26- 124.26	93.41
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	2912001	200.000	221.07	70.00- 130.00	100.00(A)
3.414	3.414 (0.424)	49	1074753			0.00- 30.00	36.91
3.441	3.441 (0.427)	66	861293			0.00- 30.00	29.58
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	12103789	200.000	210.17	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	7785863			34.03- 94.03	64.33

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	2527255	200.000	215.29	70.00- 130.00	100.00(A)
4.133	4.133 (0.513)	43	458054			0.00- 30.00	18.12
4.105	4.105 (0.509)	46	1033180			0.00- 30.00	40.88
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	6308670	200.000	214.97	70.00- 130.00	100.00(A)
4.547	4.547 (0.564)	153	3961755			35.01- 95.01	62.80
4.520	4.520 (0.561)	101	7785233			95.51- 155.51	123.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	8833292	200.000	217.23	70.00- 130.00	100.00(A)
4.603	4.603 (0.571)	96	3756635			11.33- 71.33	42.53
4.603	4.603 (0.571)	98	2415144			0.00- 56.95	27.34
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	2784068	200.000	209.21	70.00- 130.00	100.00(A)
4.741	4.741 (0.588)	43	10041435			0.00- 30.00	360.67
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	12188689	200.000	215.70	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2750588			0.00- 30.00	22.57
4.935	4.935 (0.612)	59	376744			0.00- 30.00	3.09
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	10823449	200.000	222.25	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	1890155	200.000	214.84	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	41	9171434			0.00- 30.00	485.22
43 Methylene Chloride					CAS #: 75-09-2		
5.488	5.488 (0.681)	49	7339116	200.000	206.55	70.00- 130.00	100.00(A)
5.488	5.488 (0.681)	84	3067400			10.90- 70.90	41.80
5.488	5.488 (0.681)	51	2267849			0.00- 30.00	30.90
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	5295400	200.000	217.81	70.00- 130.00	100.00(A)
5.764	5.764 (0.715)	57	1807885			2.68- 62.68	34.14
5.764	5.764 (0.715)	41	1953250			0.00- 30.00	36.89
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4110270	200.000	208.25	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	8300463			169.56- 229.56	201.94
5.819	5.819 (0.722)	98	2594216			0.00- 30.00	63.12

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	10343546	200.000	217.35	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	7551030			0.00- 30.00	73.00
6.151	6.151 (0.763)	86	1218491			0.00- 30.00	11.78
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	8772053	200.000	214.16	70.00- 130.00	100.00(A)
6.593	6.593 (0.818)	65	2653062			0.53- 60.53	30.24
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1717658	200.000	225.30	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	12870938			728.37- 788.37	749.33
7.644	7.644 (0.949)	57	890405			0.00- 30.00	51.84
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	6878912	200.000	224.73	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	3607070			22.68- 82.68	52.44
7.644	7.644 (0.949)	98	2312667			4.36- 64.36	33.62
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	7549287	200.000	198.60	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	1531413			0.00- 49.90	20.29
8.031	8.031 (0.997)	72	1692733			0.00- 30.00	22.42
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7547337	200.000	206.89	70.00- 130.00	100.00(A)
8.197	8.197 (1.017)	85	4794679			36.02- 96.02	63.53
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	8647032	200.000	223.26	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	5500241			32.83- 92.83	63.61
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	4997049	200.000	216.82	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	9502116			163.35- 223.35	190.15
8.418	8.418 (1.045)	41	5594982			86.00- 146.00	111.97
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	996300	200.000	221.28	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	17676618			0.00- 30.00	1774.23
6.649	6.649 (0.825)	42	1319278			0.00- 30.00	132.42
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8860835	200.000	219.20	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	9108030			73.89- 133.89	102.79

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		
9.110	9.110 (1.130)	57	26238573	200.000	209.36	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	8475915			0.00- 30.00	32.30
9.110	9.110 (1.130)	41	7643095			0.00- 30.00	29.13
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	9478489	200.000	202.54	70.00- 130.00	100.00(A)
9.082	9.082 (0.916)	77	2232529			0.00- 30.00	23.55
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	7200514	200.000	203.11	70.00- 130.00	100.00(A)
9.275	9.275 (0.936)	64	2170129			0.00- 30.00	30.14
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1301543	200.000	210.87	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	11473603			0.00- 30.00	881.54
9.469	9.469 (0.955)	71	3593561			0.00- 30.00	276.10
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	4406309	200.000	198.99	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	4530673			74.19- 134.19	102.82
10.326	10.326 (1.042)	97	2827086			33.93- 93.93	64.16
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	4240893	200.000	204.97	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	3088722			44.46- 104.46	72.83
10.852	10.852 (1.095)	41	3644056			62.39- 122.39	85.93
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	2244585	200.000	209.02	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	2394462			71.59- 131.59	106.68
11.045	11.045 (1.114)	57	790549			0.00- 30.00	35.22
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	7600285	200.000	207.93	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	4829796			34.84- 94.84	63.55
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	5205134	200.000	216.22	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1669037			1.70- 61.70	32.07
12.317	12.317 (1.243)	39	4510973			59.73- 119.73	86.66
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	4004001	200.000	209.11	70.00- 130.00	100.00(A)
12.593	12.593 (1.271)	43	12458116			0.00- 30.00	311.14
12.593	12.593 (1.271)	85	1317184			0.00- 30.00	32.90

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	10067871	200.000	205.43	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	5841853			29.86- 89.86	58.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	5931557	200.000	225.79	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1927811			1.85- 61.85	32.50
13.340	13.340 (0.889)	39	4388239			49.57- 109.57	73.98
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	3601690	200.000	215.38	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	2193553			31.93- 91.93	60.90
13.644	13.644 (0.910)	83	2818536			48.00- 108.00	78.26
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	4790428	200.000	206.59	70.00- 130.00	100.00(A)
13.699	13.699 (0.913)	129	4077702			57.53- 117.53	85.12
13.699	13.699 (0.913)	131	3868915			54.24- 114.24	80.76
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	5520851	200.000	215.07	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	12510258			200.78- 260.78	226.60
14.004	14.004 (0.934)	100	877630			0.00- 30.00	15.90
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7286137	200.000	219.70	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	5687669			0.00- 30.00	78.06
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	6114956	200.000	216.61	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	5663920			64.59- 124.59	92.62
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	8948440	200.000	208.76	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	2840135			2.21- 62.21	31.74
15.027	15.027 (1.002)	77	5346915			29.88- 89.88	59.75
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	4488462	200.000	200.31	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	15059785			0.00- 30.00	335.52
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	5703948	200.000	197.51	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	12499395			0.00- 30.00	219.14
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5290086	200.000	202.58	70.00- 130.00	100.00(A)

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	12383744			197.93- 257.93	234.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	8077002	200.000	195.02	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	4899969			30.31- 90.31	60.67
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	6167266	200.000	221.54	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3162475			21.79- 81.79	51.28
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	7300042	200.000	211.49	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	4635838			35.08- 95.08	63.50
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	17991357	200.000	206.78	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	4943131			0.00- 58.06	27.48
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	15808359	200.000	196.90	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	7152648			0.00- 30.00	45.25
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	14338713	200.000	211.02	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	6006256			13.48- 73.48	41.89
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	8718866	200.000	201.57	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	5512208			0.00- 30.00	63.22
17.764	17.764 (1.184)	111	3872613			0.00- 30.00	44.42
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	10879917	200.000	206.74	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	6803311			0.00- 30.00	62.53
17.847	17.847 (1.190)	111	4986379			0.00- 30.00	45.83
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14648884	200.000	204.95	70.00- 130.00	100.00(A)
17.985	17.985 (1.199)	126	3368501			0.00- 30.00	22.99
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	8747761	200.000	195.03	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	5529845			33.59- 93.59	63.21
18.206	18.206 (1.214)	111	3864958			13.36- 73.36	44.18

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	6612385	200.000	192.57	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	6242607			64.71- 124.71	94.41
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5842363	200.000	190.37	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	3657841			30.71- 90.71	62.61
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	19145968	200.000	207.41	70.00- 130.00	100.00(A)
16.824	16.824 (1.122)	120	4305106			0.00- 30.00	22.49
16.824	16.824 (1.122)	105	726554			0.00- 30.00	3.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	17197414	200.000	198.24	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	4359908			0.00- 30.00	25.35
16.326	16.326 (1.088)	51	2606304			0.00- 30.00	15.16
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14938752	200.000	139.74	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2825635			0.00- 30.00	18.91
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	3412363	200.000	140.66	70.00- 130.00	100.00
5.570	5.570 (0.691)	41	1136223			0.00- 30.00	33.30
5.570	5.570 (0.691)	57	367683			0.00- 30.00	10.78
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1545000	200.000	199.88	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	12723426			0.00- 30.00	823.52
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	10270922	200.000	209.49	70.00- 130.00	100.00(A)
3.414	3.414 (0.424)	57	6166935			0.00- 30.00	60.04
3.414	3.414 (0.424)	72	483503			0.00- 30.00	4.71
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	6067879	200.000	207.48	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	3081603			0.00- 30.00	50.79
10.547	10.547 (1.064)	55	8149580			0.00- 30.00	134.31

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: 5022121.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd5.i/5-21feb.b/t14q221a.m
Misc Info: 200ppbv

Calibration Date: 21-FEB-2008
Calibration Time: 19:35
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300521	180313	420729	330627	10.02
92 1,4-Difluorobenze	1106928	664157	1549699	1241116	12.12
125 Chlorobenzene-d5	791985	475191	1108779	855617	8.03

		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.

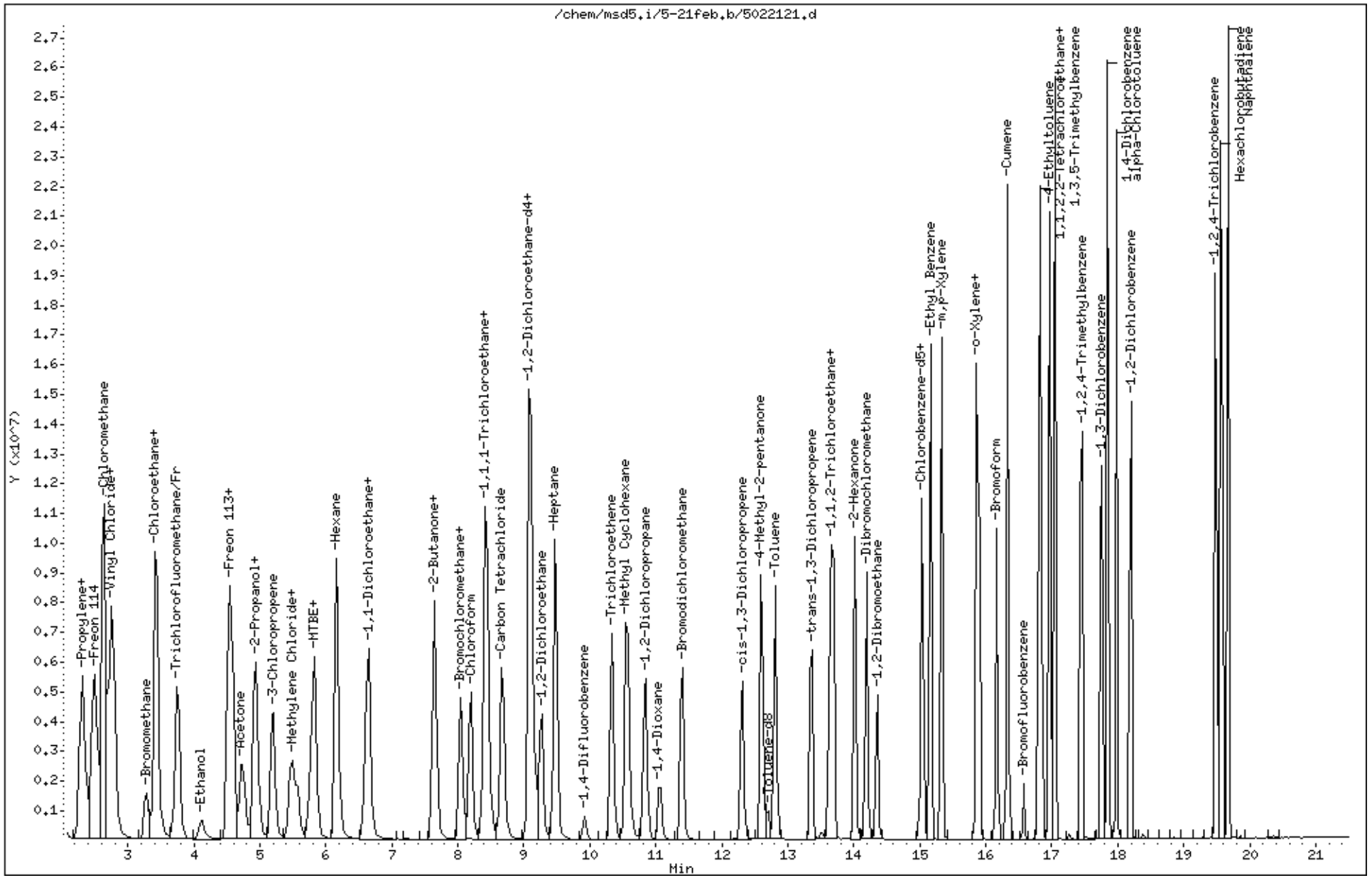
0152

Data File: /chem/msd5.i/5-21feb.b/5022121.d
Date : 21-FEB-2008 20:36
Client ID: Level 7
Sample Info: 200mL #1576-263

Column phase: RTx-624

Instrument: msd5.i

Operator: cb
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0802602-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 09:08 AM**	

Compound	%Recovery
Freon 12	82
Freon 114	108
Vinyl Chloride	110
Bromomethane	110
Chloroethane	114
Freon 11	94
1,1-Dichloroethene	95
Freon 113	101
Methylene Chloride	93
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	95
Chloroform	87
1,1,1-Trichloroethane	87
Carbon Tetrachloride	81
Benzene	107
1,2-Dichloroethane	81
Trichloroethene	92
1,2-Dichloropropane	93
cis-1,3-Dichloropropene	90
Toluene	98
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	104
Tetrachloroethene	98
1,2-Dibromoethane (EDB)	101
Chlorobenzene	96
Ethyl Benzene	102
m,p-Xylene	100
o-Xylene	102
Styrene	102
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	95
1,3-Butadiene	104
Hexane	98
Cyclohexane	100

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0802602-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 09:08 AM**	

Compound	%Recovery
Heptane	100
Bromodichloromethane	85
Dibromochloromethane	93
Cumene	95
Propylbenzene	99
Chloromethane	93
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	84
Acetone	103
Carbon Disulfide	118
2-Propanol	90
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	107
Tetrahydrofuran	87
1,4-Dioxane	97
4-Methyl-2-pentanone	93
2-Hexanone	98
Bromoform	94
4-Ethyltoluene	96
Ethanol	94
Methyl tert-butyl ether	98
3-Chloropropene	106
2,2,4-Trimethylpentane	94
Naphthalene	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 07-MAR-2008 09:08
Lab File ID: 5030702.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-07mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.89977	1.51677	0.010	20.16045	30.00000	Averaged
$ 107 Toluene-d8	0.91671	0.86266	0.010	5.89594	30.00000	Averaged
$ 138 Bromofluorobenzene	0.65041	0.62904	0.010	3.28571	30.00000	Averaged
6 Propylene	2.09538	1.99420	0.010	4.82865	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	3.92035	3.21359	0.010	18.02792	30.00000	Averaged
9 Freon 114	2.91268	3.15463	0.010	-8.30676	30.00000	Averaged
10 Chloromethane	2.82110	2.63459	0.010	6.61139	30.00000	Averaged
13 Vinyl Chloride	2.02971	2.23846	0.010	-10.28472	30.00000	Averaged
12 1,3-Butadiene	2.12753	2.20550	0.010	-3.66486	30.00000	Averaged
15 Bromomethane	1.11721	1.22853	0.010	-9.96467	30.00000	Averaged
19 Chloroethane	0.99600	1.14139	0.010	-14.59767	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	4.35470	4.08552	0.010	6.18142	30.00000	Averaged
26 Ethanol	0.88763	0.83022	0.010	6.46844	30.00000	Averaged
30 Freon 113	2.21900	2.24868	0.010	-1.33751	30.00000	Averaged
31 1,1-Dichloroethene	3.07465	2.92992	0.010	4.70707	30.00000	Averaged
32 Acetone	1.00622	1.04047	0.010	-3.40405	30.00000	Averaged
36 2-Propanol	4.27265	3.86096	0.010	9.63548	30.00000	Averaged
35 Carbon Disulfide	3.68230	4.35349	0.010	-18.22737	30.00000	Averaged
38 3-Chloropropene	0.66523	0.70220	0.010	-5.55781	30.00000	Averaged
43 Methylene Chloride	2.68674	2.50093	0.010	6.91586	30.00000	Averaged
46 MTBE	1.83835	1.80635	0.010	1.74036	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.49243	1.54607	0.010	-3.59424	30.00000	Averaged
51 Hexane	3.59847	3.53986	0.010	1.62870	30.00000	Averaged
56 Vinyl Acetate	0.34044	0.35923	0.010	-5.51960	30.00000	Averaged
55 1,1-Dichloroethane	3.09721	2.94692	0.010	4.85246	30.00000	Averaged
67 2-Butanone	0.57647	0.61939	0.010	-7.44539	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.31454	2.19514	0.010	5.15851	30.00000	Averaged
70 Tetrahydrofuran	2.87426	2.49595	0.010	13.16183	30.00000	Averaged
72 Chloroform	2.75838	2.40794	0.010	12.70462	30.00000	Averaged
75 1,1,1-Trichloroethane	2.92864	2.53837	0.010	13.32609	30.00000	Averaged
74 Cyclohexane	1.74267	1.73844	0.010	0.24228	30.00000	Averaged
77 Carbon Tetrachloride	3.05656	2.48070	0.010	18.84010	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.47652	8.94071	0.010	5.65407	30.00000	Averaged
81 Benzene	0.94266	1.00511	0.010	-6.62481	30.00000	Averaged
85 1,2-Dichloroethane	0.71411	0.57958	0.010	18.83913	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 07-MAR-2008 09:08
Lab File ID: 5030702.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-07mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12433	0.12403	0.010	0.23944	30.00000	Averaged
93 Trichloroethene	0.44604	0.41048	0.010	7.97272	30.00000	Averaged
98 1,2-Dichloropropane	0.41676	0.38813	0.010	6.86979	30.00000	Averaged
99 1,4-Dioxane	0.21631	0.21063	0.010	2.62517	30.00000	Averaged
100 Bromodichloromethane	0.73627	0.62555	0.010	15.03871	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.48492	0.43871	0.010	9.52938	30.00000	Averaged
106 4-Methyl-2-pentanone	0.38570	0.35752	0.010	7.30689	30.00000	Averaged
108 Toluene	0.98720	0.97198	0.010	1.54250	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.76759	0.72409	0.010	5.66724	30.00000	Averaged
114 1,1,2-Trichloroethane	0.48861	0.50633	0.010	-3.62667	30.00000	Averaged
116 Tetrachloroethene	0.67751	0.66149	0.010	2.36388	30.00000	Averaged
119 2-Hexanone	0.75003	0.73604	0.010	1.86511	30.00000	Averaged
120 Dibromochloromethane	0.96903	0.89897	0.010	7.23006	30.00000	Averaged
122 1,2-Dibromoethane	0.82483	0.83690	0.010	-1.46306	30.00000	Averaged
126 Chlorobenzene	1.25246	1.20386	0.010	3.87978	30.00000	Averaged
128 Ethyl Benzene	0.65473	0.66964	0.010	-2.27698	30.00000	Averaged
130 m,p-Xylene	0.84383	0.84350	0.010	0.03866	30.00000	Averaged
132 o-Xylene	0.76299	0.78148	0.010	-2.42319	30.00000	Averaged
133 Styrene	1.21011	1.23460	0.010	-2.02382	30.00000	Averaged
134 Bromoform	0.81340	0.76617	0.010	5.80717	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.00855	1.04976	0.010	-4.08589	30.00000	Averaged
144 4-Ethyltoluene	2.54221	2.45272	0.010	3.52026	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.34583	2.24830	0.010	4.15754	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.98540	1.87041	0.010	5.79208	30.00000	Averaged
155 1,3-Dichlorobenzene	1.26383	1.25190	0.010	0.94428	30.00000	Averaged
156 1,4-Dichlorobenzene	1.53762	1.53004	0.010	0.49303	30.00000	Averaged
157 alpha-Chlorotoluene	2.08844	2.20509	0.010	-5.58524	30.00000	Averaged
159 1,2-Dichlorobenzene	1.31055	1.24043	0.010	5.35075	30.00000	Averaged
163 1,2,4-Trichlorobenzene	1.00331	0.88742	0.010	11.55057	30.00000	Averaged
164 Hexachlorobutadiene	0.89670	0.74975	0.010	16.38840	30.00000	Averaged
142 Propylbenzene	2.69717	2.66224	0.010	1.29514	30.00000	Averaged
136 Cumene	2.53467	2.40658	0.010	5.05347	30.00000	Averaged
165 Naphthalene	3.12351	3.10009	0.010	0.74968	30.00000	Averaged
37 tert-Butyl-Alcohol	1.83431	1.56800	0.010	14.51872	40.00000	Averaged
11 Butane	0.58446	0.56973	0.010	2.51956	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 07-MAR-2008 09:08
Lab File ID: 5030702.d Init. Cal. Date(s): 21-FEB-2008 22-FEB-2008
Analysis Type: AIR Init. Cal. Times: 18:11 12:09
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-07mar.b/t14q221a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	3.70716	3.58298	0.010	3.34984	30.00000	Averaged
94 Methyl Cyclohexane	0.58908	0.57716	0.010	2.02404	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-07mar.b/5030702.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 07-MAR-2008 09:08
Operator : cb Inst ID: msd5.i
Smp Info : 50mL #1576-263
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-07mar.b/t14q221a.m
Meth Date : 07-Mar-2008 09:17 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.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

	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	492446	25.0000		80.00- 120.00	100.00
	8.059	8.059 (1.000)	128	381487			47.47- 107.47	77.47
	8.059	8.059 (1.000)	49	1034452			180.06- 240.06	210.06
*	92 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.939	9.939 (1.000)	114	1731657	25.0000		80.00- 120.00	100.00
	9.939	9.939 (1.000)	88	271565			0.00- 45.68	15.68
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.999	14.999 (1.000)	117	1133757	25.0000		80.00- 120.00	100.00
	14.999	14.999 (1.000)	82	640377			0.00- 30.00	56.48
$	84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	9.137	9.137 (1.134)	65	746926	25.0000	19.960	80.00- 120.00	100.00
	9.137	9.137 (1.134)	67	405994			19.51- 79.51	54.36
$	107 Toluene-d8					CAS #: 2037-26-5		
	12.704	12.704 (1.278)	98	1493838	25.0000	23.526	80.00- 120.00	100.00
	12.704	12.704 (1.278)	70	163844			0.00- 41.02	10.97

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	1037087			39.73- 99.73	69.42
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	713179	25.0000	24.178	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1022547			113.38- 173.38	143.38
16.575	16.575 (1.105)	176	670543			64.02- 124.02	94.02
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1964070	50.0000	47.586	80.00- 120.00	100.00
2.308	2.308 (0.286)	42	1297769			0.00- 30.00	66.08
2.280	2.280 (0.283)	39	1284012			0.00- 30.00	65.38
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	3165041	50.0000	40.986	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	1024468			0.00- 30.00	32.37
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3106971	50.0000	54.153	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	972971			1.32- 61.32	31.32
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	2594784	50.0000	46.694	80.00- 120.00	100.00
2.612	2.612 (0.324)	52	750551			0.00- 30.00	28.93
13 Vinyl Chloride					CAS #: 75-01-4		
2.806	2.806 (0.348)	62	2204643	50.0000	55.142	80.00- 120.00	100.00
2.806	2.806 (0.348)	64	659575			0.00- 30.00	29.92
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	2172183	50.0000	51.832	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	2421038			0.00- 30.00	111.46
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	1209971	50.0000	54.982	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	1156035			65.54- 125.54	95.54
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	1124145	50.0000	57.299	80.00- 120.00	100.00
3.441	3.441 (0.427)	49	354566			0.00- 30.00	31.54
3.441	3.441 (0.427)	66	332456			0.00- 30.00	29.57
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	4023793	50.0000	46.909	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	2572012			33.92- 93.92	63.92

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 (0.513)	45	817675	50.0000	46.766	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	151589			0.00- 30.00	18.54
4.105	4.105 (0.509)	46	348435			0.00- 30.00	42.61
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	2214710	50.0000	50.669	80.00- 120.00	100.00
4.547	4.547 (0.564)	153	1367059			31.73- 91.73	61.73
4.547	4.547 (0.564)	101	2854591			98.89- 158.89	128.89
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2885656	50.0000	47.646	80.00- 120.00	100.00
4.603	4.603 (0.571)	96	1438983			19.87- 79.87	49.87
4.603	4.603 (0.571)	98	913873			1.67- 61.67	31.67
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	1024748	50.0000	51.702	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	3250087			0.00- 30.00	317.16
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	3802631	50.0000	45.182	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	849952			0.00- 30.00	22.35
4.935	4.935 (0.612)	59	125926			0.00- 30.00	3.31
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	4287714	50.0000	59.114	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	691596	50.0000	52.779	80.00- 120.00	100.00
5.211	5.211 (0.647)	41	3102585			0.00- 30.00	448.61
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	2463142	50.0000	46.542	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	1181372			17.96- 77.96	47.96
5.460	5.460 (0.677)	51	750126			0.00- 30.00	30.45
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	1779063	50.0000	49.130	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	596301			3.52- 63.52	33.52
5.792	5.792 (0.719)	41	655629			0.00- 30.00	36.85
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	1522715	50.0000	51.797	80.00- 120.00	100.00
5.847	5.847 (0.726)	61	2816652			154.98- 214.98	184.98
5.847	5.847 (0.726)	98	959062			0.00- 30.00	62.98

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	3486380	50.0000	49.186	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	2495461			0.00- 30.00	71.58
6.179	6.179 (0.767)	86	448782			0.00- 30.00	12.87
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	353805	50.0000	52.760	80.00- 120.00	100.00
6.676	6.676 (0.828)	43	5583209			0.00- 30.00	1578.05
6.676	6.676 (0.828)	42	415908			0.00- 30.00	117.55
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	2902399	50.0000	47.574	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	897015			0.91- 60.91	30.91
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	610029	50.0000	53.723	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	4080016			638.82- 698.82	668.82
7.672	7.672 (0.952)	57	286456			0.00- 30.00	46.96
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	2161978	50.0000	47.421	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	1311698			30.67- 90.67	60.67
7.644	7.644 (0.949)	98	823841			8.11- 68.11	38.11
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	2458244	50.0000	43.419	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	538637			0.00- 51.91	21.91
8.059	8.059 (1.000)	72	594997			0.00- 30.00	24.20
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2371563	50.0000	43.648	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1552905			35.48- 95.48	65.48
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2500019	50.0000	43.337	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1620914			34.84- 94.84	64.84
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1712179	50.0000	49.879	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	3131212			152.88- 212.88	182.88
8.418	8.418 (1.045)	41	1754675			72.48- 132.48	102.48
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.079)	119	2443225	50.0000	40.580	80.00- 120.00	100.00
8.695	8.695 (1.079)	117	2532524			73.65- 133.65	103.65

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	8805636	50.0000	47.173	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2901295			0.00- 30.00	32.95
9.110	9.110 (1.130)	41	2364208			0.00- 30.00	26.85
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	3481016	50.0000	53.312	80.00- 120.00	100.00
9.082	9.082 (0.914)	77	818956			0.00- 30.00	23.53
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.933)	62	2007259	50.0000	40.580	80.00- 120.00	100.00
9.275	9.275 (0.933)	64	613380			0.00- 30.00	30.56
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.955)	100	429553	50.0000	49.880	80.00- 120.00	100.00
9.497	9.497 (0.955)	43	3663858			0.00- 30.00	852.95
9.497	9.497 (0.955)	71	1261095			0.00- 30.00	293.58
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.039)	95	1421630	50.0000	46.014	80.00- 120.00	100.00
10.326	10.326 (1.039)	130	1456288			72.44- 132.44	102.44
10.326	10.326 (1.039)	97	947365			36.64- 96.64	66.64
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.092)	63	1344220	50.0000	46.565	80.00- 120.00	100.00
10.852	10.852 (1.092)	62	1001507			44.50- 104.50	74.50
10.852	10.852 (1.092)	41	1085591			50.76- 110.76	80.76
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.114)	88	729489	50.0000	48.687	80.00- 120.00	100.00
11.073	11.073 (1.114)	58	745688			72.22- 132.22	102.22
11.073	11.073 (1.114)	57	239904			0.00- 30.00	32.89
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.147)	83	2166466	50.0000	42.481	80.00- 120.00	100.00
11.405	11.405 (1.147)	85	1367271			33.11- 93.11	63.11
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.239)	75	1519376	50.0000	45.235	80.00- 120.00	100.00
12.317	12.317 (1.239)	77	480994			1.66- 61.66	31.66
12.317	12.317 (1.239)	39	1178746			47.58- 107.58	77.58
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.267)	58	1238204	50.0000	46.346	80.00- 120.00	100.00
12.593	12.593 (1.267)	43	3674550			0.00- 30.00	296.76
12.621	12.621 (1.270)	85	393038			0.00- 30.00	31.74

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	3366257	50.0000	49.229	80.00- 120.00	100.00
12.815	12.815 (1.289)	92	1987161			29.03- 89.03	59.03
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1641887	50.0000	47.166	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	510200			1.07- 61.07	31.07
13.368	13.368 (0.891)	39	1175734			41.61- 101.61	71.61
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1148105	50.0000	51.813	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	709368			31.79- 91.79	61.79
13.644	13.644 (0.910)	83	935408			51.47- 111.47	81.47
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1499948	50.0000	48.818	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1225657			51.71- 111.71	81.71
13.699	13.699 (0.913)	131	1181463			48.77- 108.77	78.77
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1668991	50.0000	49.067	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3594486			185.37- 245.37	215.37
14.031	14.031 (0.935)	100	258504			0.00- 30.00	15.49
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2038421	50.0000	46.385	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1570830			0.00- 30.00	77.06
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1897686	50.0000	50.732	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1746883			62.05- 122.05	92.05
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2729779	50.0000	48.060	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	885691			2.45- 62.45	32.45
15.027	15.027 (1.002)	77	1650995			30.48- 90.48	60.48
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1518419	50.0000	51.138	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4882966			0.00- 30.00	321.58
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1912652	50.0000	49.981	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3922654			0.00- 30.00	205.09
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1772011	50.0000	51.212	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	3758041			182.08- 242.08	212.08
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2799482	50.0000	51.012	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1473943			22.65- 82.65	52.65
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1737291	50.0000	47.096	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	901318			21.88- 81.88	51.88
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2380336	50.0000	52.043	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1521631			33.93- 93.93	63.93
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5561571	50.0000	48.240	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1602650			0.00- 58.82	28.82
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	5098046	50.0000	47.921	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2379470			0.00- 30.00	46.67
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4241178	50.0000	47.104	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1942439			15.80- 75.80	45.80
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2838694	50.0000	49.528	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1796302			0.00- 30.00	63.28
17.764	17.764 (1.184)	111	1164649			0.00- 30.00	41.03
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3469389	50.0000	49.753	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2199606			0.00- 30.00	63.40
17.847	17.847 (1.190)	111	1513598			0.00- 30.00	43.63
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	5000065	50.0000	52.793	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	982962			0.00- 30.00	19.66
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2812687	50.0000	47.325	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1799464			33.98- 93.98	63.98
18.206	18.206 (1.214)	111	1146494			10.76- 70.76	40.76

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	2012244	50.0000	44.225	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1957671			67.29- 127.29	97.29
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1700061	50.0000	41.806	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	1049259			31.72- 91.72	61.72
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6036656	50.0000	49.352	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1397073			0.00- 30.00	23.14
16.824	16.824 (1.122)	105	228548			0.00- 30.00	3.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5456960	50.0000	47.473	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1370745			0.00- 30.00	25.12
16.326	16.326 (1.088)	51	797914			0.00- 30.00	14.62
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	7029499	50.0000	49.625	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	893996			0.00- 30.00	12.72
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	1544306	50.0000	42.741	80.00- 120.00	100.00
5.598	5.598 (0.695)	41	464815			0.00- 30.00	30.10
5.598	5.598 (0.695)	57	157158			0.00- 30.00	10.18
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	561127	50.0000	48.740	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	4467877			0.00- 30.00	796.23
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.427)	43	3528845	50.0000	48.325	80.00- 120.00	100.00
3.441	3.441 (0.427)	57	2163030			0.00- 30.00	61.30
3.441	3.441 (0.427)	72	172253			0.00- 30.00	4.88
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.064)	83	1998890	50.0000	48.988	80.00- 120.00	100.00
10.575	10.575 (1.064)	98	967127			0.00- 30.00	48.38
10.575	10.575 (1.064)	55	2479781			0.00- 30.00	124.06

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5030702.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 09:08
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	492446	295468	689424	492446	0.00
92 1,4-Difluorobenze	1731657	1038994	2424320	1731657	0.00
125 Chlorobenzene-d5	1133757	680254	1587260	1133757	0.00

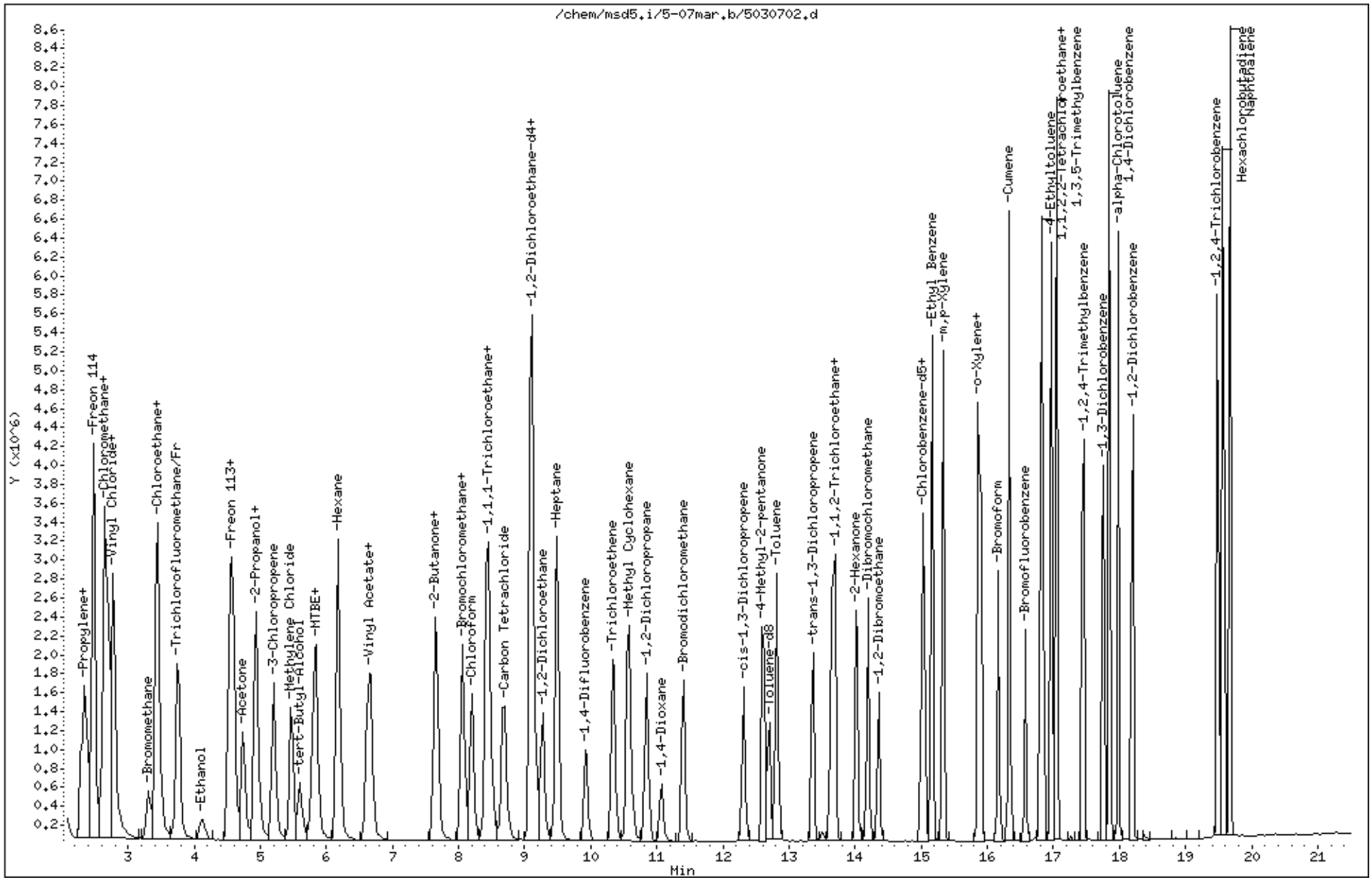
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.94	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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/5-07mar.b/5030702.d
Date : 07-MAR-2008 09:08
Client ID: CCV-1
Sample Info: 50mL #1576-263

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

Column phase: RTx-624



0167

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0802602-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 09:37 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	106
Vinyl Chloride	108
Bromomethane	113
Chloroethane	109
Freon 11	91
1,1-Dichloroethene	104
Freon 113	111
Methylene Chloride	102
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	101
Chloroform	95
1,1,1-Trichloroethane	93
Carbon Tetrachloride	86
Benzene	115
1,2-Dichloroethane	88
Trichloroethene	101
1,2-Dichloropropane	101
cis-1,3-Dichloropropene	98
Toluene	116
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	109
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	103
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	109
Styrene	106
1,1,2,2-Tetrachloroethane	113
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	116
1,2-Dichlorobenzene	100
1,3-Butadiene	98
Hexane	99
Cyclohexane	104

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0802602-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5030703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/7/08 09:37 AM**	

Compound	**%Recovery**
Heptane	110
Bromodichloromethane	94
Dibromochloromethane	96
Cumene	104
Propylbenzene	109
Chloromethane	92
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	88
Acetone	108
Carbon Disulfide	117
2-Propanol	92
trans-1,2-Dichloroethene	105
2-Butanone (Methyl Ethyl Ketone)	116
Tetrahydrofuran	88
1,4-Dioxane	108
4-Methyl-2-pentanone	103
2-Hexanone	98
Bromoform	100
4-Ethyltoluene	105
Ethanol	91
Methyl tert-butyl ether	98
3-Chloropropene	112
2,2,4-Trimethylpentane	100
Naphthalene	118

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	79	70-130
4-Bromofluorobenzene	94	70-130

Report Date: 07-Mar-2008 09:43

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-07mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	44.182	88.36	70-130
9 Freon 114	50.000	53.275	106.55	70-130
10 Chloromethane	50.000	45.828	91.66	70-130
13 Vinyl Chloride	50.000	54.221	108.44	70-130
12 1,3-Butadiene	50.000	49.131	98.26	60-140
15 Bromomethane	50.000	56.415	112.83	70-130
19 Chloroethane	50.000	54.593	109.19	70-130
20 Trichlorofluoromet	50.000	45.607	91.21	70-130
26 Ethanol	50.000	45.707	91.41	60-140
30 Freon 113	50.000	55.543	111.09	70-130
31 1,1-Dichloroethene	50.000	52.054	104.11	70-130
35 Carbon Disulfide	50.000	58.400	116.80	60-140
32 Acetone	50.000	54.131	108.26	60-140
36 2-Propanol	50.000	46.225	92.45	60-140
38 3-Chloropropene	50.000	56.107	112.21	60-140
43 Methylene Chloride	50.000	50.770	101.54	70-130
46 MTBE	50.000	49.160	98.32	60-140
47 trans-1,2-Dichloro	50.000	52.554	105.11	60-140
51 Hexane	50.000	49.703	99.41	60-140
55 1,1-Dichloroethane	50.000	50.521	101.04	70-130
66 cis-1,2-Dichloroet	50.000	50.429	100.86	70-130
67 2-Butanone	50.000	57.904	115.81	60-140
70 Tetrahydrofuran	50.000	44.122	88.24	60-140
72 Chloroform	50.000	47.433	94.87	70-130
74 Cyclohexane	50.000	52.212	104.42	60-140
75 1,1,1-Trichloroeth	50.000	46.697	93.39	70-130
56 Vinyl Acetate	50.000	54.221	108.44	60-140
77 Carbon Tetrachlori	50.000	42.872	85.74	70-130
80 2,2,4-Trimethylpen	50.000	49.784	99.57	60-140
81 Benzene	50.000	57.614	115.23	70-130
85 1,2-Dichloroethane	50.000	43.868	87.74	70-130
90 Heptane	50.000	55.281	110.56	60-140
93 Trichloroethene	50.000	50.387	100.77	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	50.544	101.09	70-130
99 1,4-Dioxane	50.000	53.859	107.72	60-140
100 Bromodichlorometha	50.000	46.838	93.68	60-140
103 cis-1,3-Dichloropr	50.000	49.192	98.38	70-130
106 4-Methyl-2-pentano	50.000	51.348	102.70	60-140
108 Toluene	50.000	57.810	115.62	70-130
113 trans-1,3-Dichloro	50.000	47.287	94.57	70-130
114 1,1,2-Trichloroeth	50.000	54.341	108.68	70-130
116 Tetrachloroethene	50.000	50.986	101.97	70-130
119 2-Hexanone	50.000	48.958	97.92	60-140
120 Dibromochlorometha	50.000	47.987	95.97	60-140
122 1,2-Dibromoethane	50.000	51.139	102.28	70-130
126 Chlorobenzene	50.000	51.609	103.22	70-130
128 Ethyl Benzene	50.000	51.512	103.02	70-130
130 m,p-Xylene	50.000	51.715	103.43	70-130
132 o-Xylene	50.000	54.386	108.77	70-130
133 Styrene	50.000	52.776	105.55	70-130
134 Bromoform	50.000	49.855	99.71	60-140
136 Cumene	50.000	51.980	103.96	60-140
141 1,1,2,2-Tetrachlor	50.000	56.566	113.13	70-130
142 Propylbenzene	50.000	54.523	109.05	60-140
144 4-Ethyltoluene	50.000	52.588	105.18	60-140
147 1,3,5-Trimethylben	50.000	51.068	102.14	70-130
152 1,2,4-Trimethylben	50.000	49.477	98.95	70-130
155 1,3-Dichlorobenzen	50.000	50.968	101.94	70-130
156 1,4-Dichlorobenzen	50.000	52.952	105.90	70-130
157 alpha-Chlorotoluen	50.000	57.857	115.71	70-130
159 1,2-Dichlorobenzen	50.000	50.030	100.06	70-130
163 1,2,4-Trichloroben	50.000	49.234	98.47	70-130
164 Hexachlorobutadien	50.000	44.064	88.13	70-130
6 Propylene	50.000	49.147	98.29	70-130
165 Naphthalene	50.000	59.018	118.04	60-140
11 Butane	50.000	47.223	94.45	70-130
17 Isopentane	50.000	46.284	92.57	70-130
94 Methyl Cyclohexane	50.000	54.074	108.15	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	19.674	78.70	70-130
$ 107 Toluene-d8	25.000	25.303	101.21	70-130
$ 138 Bromofluorobenzene	25.000	23.534	94.14	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-07mar.b/5030703.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 07-MAR-2008 09:37
Operator : cb Inst ID: msd5.i
Smp Info : 100mL #1576-260A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /var/chem/msd5.i/5-07mar.b/t14q221a.m
Meth Date : 07-Mar-2008 09:17 cbond Quant Type: ISTD
Cal Date : 22-FEB-2008 12:09 Cal File: 5022129.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	361952	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	270544			47.47- 107.47	74.75
8.059	8.059 (1.000)	49	787902			180.06- 240.06	217.68
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.939 (1.000)	114	1257964	25.0000		80.00- 120.00	100.00
9.912	9.939 (1.000)	88	198997			0.00- 45.68	15.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	898093	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	503071			0.00- 30.00	56.02
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	541142	19.6743	19.674	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	296317			19.51- 79.51	54.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1167185	25.3034	25.303	80.00- 120.00	100.00
12.676	12.704 (1.279)	70	121284			0.00- 41.02	10.39

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	757031			39.73- 99.73	64.86
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	549890	23.5346	23.534	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	795646			113.38- 173.38	144.69
16.575	16.575 (1.105)	176	532414			64.02- 124.02	96.82
6 Propylene					CAS #: 115-07-1		
2.253	2.280 (0.280)	41	1490973	49.1470	49.147	80.00- 120.00	100.00
2.253	2.308 (0.280)	42	1009207			0.00- 30.00	67.69
2.253	2.280 (0.280)	39	1030939			0.00- 30.00	69.15
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.308	2.363 (0.286)	85	2507731	44.1820	44.182	80.00- 120.00	100.00
2.308	2.363 (0.286)	87	803982			0.00- 30.00	32.06
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2246599	53.2748	53.275	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	726387			1.32- 61.32	32.33
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1871789	45.8276	45.828	80.00- 120.00	100.00
2.584	2.612 (0.321)	52	534805			0.00- 30.00	28.57
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.806 (0.341)	62	1593346	54.2207	54.221	80.00- 120.00	100.00
2.750	2.806 (0.341)	64	457498			0.00- 30.00	28.71
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	1513362	49.1310	49.131	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	1734764			0.00- 30.00	114.63
15 Bromomethane					CAS #: 74-83-9		
3.276	3.303 (0.406)	94	912511	56.4149	56.415	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	867233			65.54- 125.54	95.04
19 Chloroethane					CAS #: 75-00-3		
3.414	3.441 (0.424)	64	787235	54.5928	54.593	80.00- 120.00	100.00
3.414	3.441 (0.424)	49	254902			0.00- 30.00	32.38
3.414	3.441 (0.424)	66	232132			0.00- 30.00	29.49
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.746 (0.461)	101	2875437	45.6073	45.607	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1868870			33.92- 93.92	64.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.133 (0.509)	45	587397	45.7074	45.707	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	96635			0.00- 30.00	16.45
4.105	4.105 (0.509)	46	242429			0.00- 30.00	41.27
30 Freon 113					CAS #: 76-13-1		
4.520	4.547 (0.561)	151	1784437	55.5434	55.543	80.00- 120.00	100.00
4.520	4.547 (0.561)	153	1151697			31.73- 91.73	64.54
4.520	4.547 (0.561)	101	2337028			98.89- 158.89	130.97
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2317204	52.0545	52.054	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	1157804			19.87- 79.87	49.97
4.575	4.603 (0.568)	98	747958			1.67- 61.67	32.28
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	788579	54.1307	54.131	80.00- 120.00	100.00
4.713	4.741 (0.585)	43	2447222			0.00- 30.00	310.33
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	2859468	46.2250	46.225	80.00- 120.00	100.00
4.907	4.935 (0.609)	43	641113			0.00- 30.00	22.42
4.935	4.935 (0.612)	59	101111			0.00- 30.00	3.54
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	3113448	58.3998	58.400	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	540382	56.1069	56.107	80.00- 120.00	100.00
5.183	5.211 (0.643)	41	2293200			0.00- 30.00	424.37
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1974898	50.7702	50.770	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	954357			17.96- 77.96	48.32
5.460	5.460 (0.677)	51	608287			0.00- 30.00	30.80
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	1308438	49.1603	49.160	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	427456			3.52- 63.52	32.67
5.764	5.792 (0.715)	41	447541			0.00- 30.00	34.20
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.847 (0.722)	96	1135555	52.5536	52.554	80.00- 120.00	100.00
5.819	5.847 (0.722)	61	2073131			154.98- 214.98	182.57
5.819	5.847 (0.722)	98	725751			0.00- 30.00	63.91

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	2589486	49.7033	49.703	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	1870893			0.00- 30.00	72.25
6.151	6.179 (0.763)	86	301793			0.00- 30.00	11.65
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.676 (0.825)	86	267253	54.2212	54.221	80.00- 120.00	100.00
6.649	6.676 (0.825)	43	4222991			0.00- 30.00	1580.15
6.649	6.676 (0.825)	42	316506			0.00- 30.00	118.43
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	2265439	50.5208	50.521	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	698520			0.91- 60.91	30.83
67 2-Butanone					CAS #: 78-93-3		
7.644	7.672 (0.949)	72	483272	57.9037	57.904	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	3136361			638.82- 698.82	648.98
7.672	7.672 (0.952)	57	214629			0.00- 30.00	44.41
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	1689880	50.4290	50.429	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	1025855			30.67- 90.67	60.71
7.617	7.644 (0.945)	98	643662			8.11- 68.11	38.09
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	1836068	44.1217	44.122	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	404012			0.00- 51.91	22.00
8.031	8.059 (0.997)	72	455420			0.00- 30.00	24.80
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1894284	47.4329	47.433	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1234267			35.48- 95.48	65.16
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1980001	46.6969	46.697	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1275317			34.84- 94.84	64.41
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1317331	52.2119	52.212	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2422388			152.88- 212.88	183.89
8.418	8.418 (1.045)	41	1350785			72.48- 132.48	102.54
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.075)	119	1897231	42.8722	42.872	80.00- 120.00	100.00
8.667	8.695 (1.075)	117	1971695			73.65- 133.65	103.92

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	6830459	49.7840	49.784	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	2281667			0.00- 30.00	33.40
9.082	9.110 (1.127)	41	1834221			0.00- 30.00	26.85
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	2732825	57.6140	57.614	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	640679			0.00- 30.00	23.44
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	1576307	43.8680	43.868	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	467197			0.00- 30.00	29.64
90 Heptane					CAS #: 142-82-5		
9.469	9.497 (0.955)	100	345835	55.2809	55.281	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	2877982			0.00- 30.00	832.18
9.469	9.497 (0.955)	71	990770			0.00- 30.00	286.49
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1130904	50.3871	50.387	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1175505			72.44- 132.44	103.94
10.326	10.326 (1.042)	97	713565			36.64- 96.64	63.10
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1059945	50.5437	50.544	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	819434			44.50- 104.50	77.31
10.824	10.852 (1.092)	41	854632			50.76- 110.76	80.63
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	586228	53.8590	53.859	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	579243			72.22- 132.22	98.81
11.045	11.073 (1.114)	57	191074			0.00- 30.00	32.59
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1735277	46.8384	46.838	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1123215			33.11- 93.11	64.73
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1200288	49.1917	49.192	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	372564			1.66- 61.66	31.04
12.289	12.317 (1.240)	39	1001194			47.58- 107.58	83.41
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.593 (1.271)	58	996553	51.3475	51.348	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	2973118			0.00- 30.00	298.34
12.594	12.621 (1.271)	85	328569			0.00- 30.00	32.97

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	2871720	57.8106	57.810	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1718668			29.03- 89.03	59.85
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1303942	47.2875	47.287	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	411111			1.07- 61.07	31.53
13.340	13.368 (0.889)	39	941154			41.61- 101.61	72.18
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	953827	54.3411	54.341	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	595071			31.79- 91.79	62.39
13.644	13.644 (0.910)	83	795697			51.47- 111.47	83.42
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1240932	50.9860	50.986	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1027337			51.71- 111.71	82.79
13.699	13.699 (0.913)	131	992471			48.77- 108.77	79.98
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1319132	48.9583	48.958	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2872770			185.37- 245.37	217.78
14.004	14.031 (0.934)	100	213627			0.00- 30.00	16.19
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1670476	47.9869	47.987	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1295753			0.00- 30.00	77.57
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1515295	51.1387	51.139	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1421417			62.05- 122.05	93.80
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	2322055	51.6094	51.609	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	755820			2.45- 62.45	32.55
15.027	15.027 (1.002)	77	1346628			30.48- 90.48	57.99
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1211584	51.5120	51.512	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3917037			0.00- 30.00	323.30
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1567665	51.7152	51.715	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3231566			0.00- 30.00	206.14
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1490701	54.3865	54.386	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	3221846			182.08- 242.08	216.13
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2294287	52.7765	52.776	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1218474			22.65- 82.65	53.11
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1456786	49.8551	49.855	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	765419			21.88- 81.88	52.54
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2049439	56.5662	56.566	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1311779			33.93- 93.93	64.01
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4802626	52.5879	52.588	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1390740			0.00- 58.82	28.96
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4303535	51.0679	51.068	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2013442			0.00- 30.00	46.79
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3528885	49.4774	49.477	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1608445			15.80- 75.80	45.58
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2314050	50.9686	50.968	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1471638			0.00- 30.00	63.60
17.764	17.764 (1.184)	111	994704			0.00- 30.00	42.99
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2924914	52.9520	52.952	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1850952			0.00- 30.00	63.28
17.847	17.847 (1.190)	111	1229893			0.00- 30.00	42.05
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4340720	57.8573	57.857	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	875021			0.00- 30.00	20.16
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2355397	50.0298	50.030	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1506801			33.98- 93.98	63.97
18.206	18.206 (1.214)	111	987795			10.76- 70.76	41.94

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	1774512	49.2336	49.234	80.00- 120.00	100.00
19.478	19.506 (1.299)	182	1679148			67.29- 127.29	94.63
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1419420	44.0638	44.064	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	912269			31.72- 91.72	64.27
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5282853	54.5229	54.523	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1183600			0.00- 30.00	22.40
16.824	16.824 (1.122)	105	193721			0.00- 30.00	3.67
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4733060	51.9803	51.980	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1228740			0.00- 30.00	25.96
16.326	16.326 (1.088)	51	683584			0.00- 30.00	14.44
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6622354	59.0186	59.018	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	837962			0.00- 30.00	12.65
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.598 (0.691)	59	1072132	40.3704	40.370	80.00- 120.00	100.00
5.571	5.598 (0.691)	41	289726			0.00- 30.00	27.02
5.571	5.598 (0.691)	57	112835			0.00- 30.00	10.52
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	399592	47.2227	47.223	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3293131			0.00- 30.00	824.12
17 Isopentane					CAS #: 78-78-4		
3.414	3.441 (0.424)	43	2484159	46.2836	46.284	80.00- 120.00	100.00
3.414	3.441 (0.424)	57	1550384			0.00- 30.00	62.41
3.414	3.441 (0.424)	72	130146			0.00- 30.00	5.24
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.575 (1.064)	83	1602857	54.0741	54.074	80.00- 120.00	100.00
10.547	10.575 (1.064)	98	789513			0.00- 30.00	49.26
10.547	10.575 (1.064)	55	2012592			0.00- 30.00	125.56

Report Date: 07-Mar-2008 09:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5030703.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /var/chem/msd5.i/5-07mar.b/t14q221a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 09:08
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	492446	295468	689424	361952	-26.50
92 1,4-Difluorobenze	1731657	1038994	2424320	1257964	-27.35
125 Chlorobenzene-d5	1133757	680254	1587260	898093	-20.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

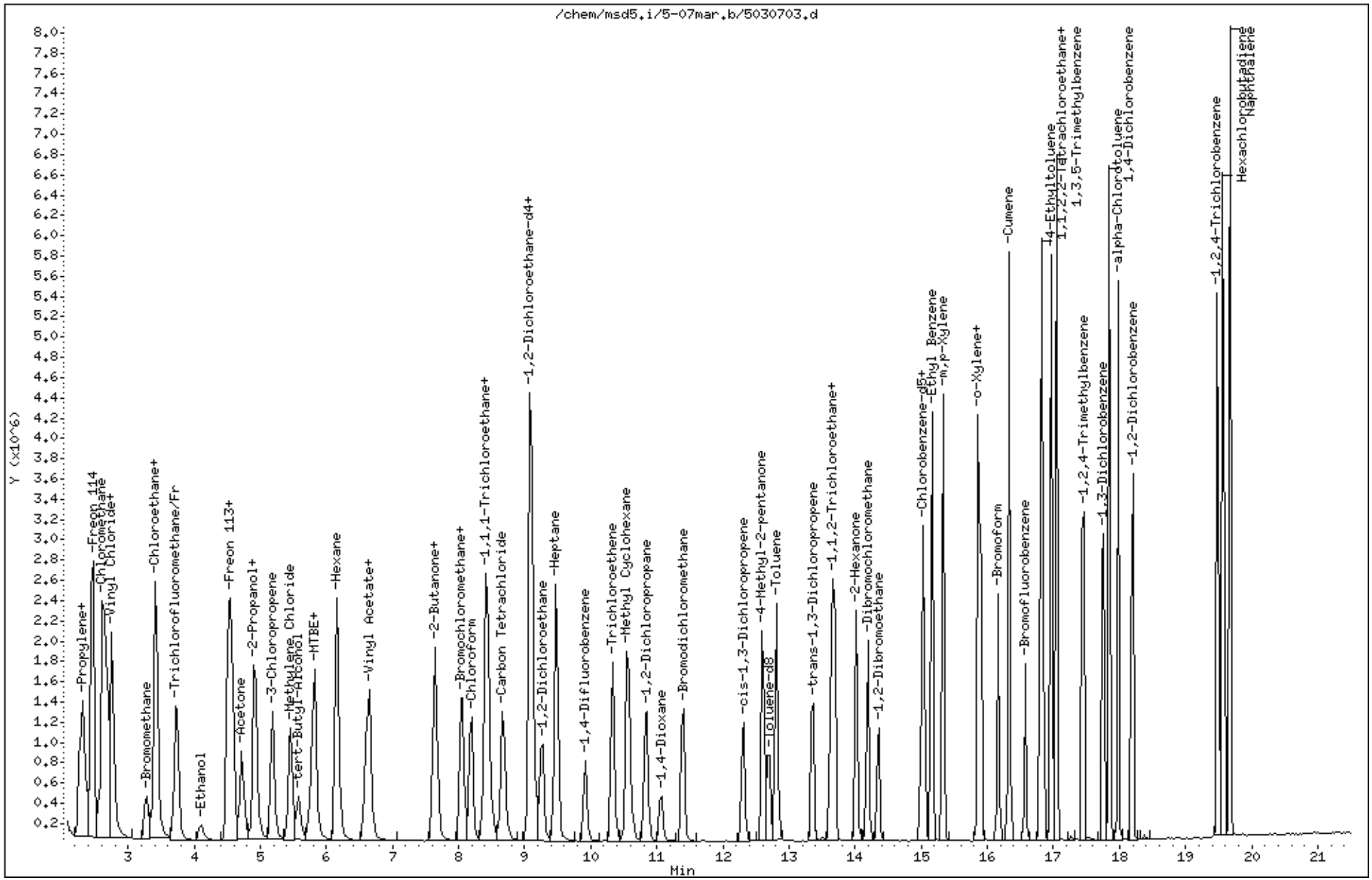
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-07mar.b/5030703.d
Date : 07-MAR-2008 09:37
Client ID: LCS-1
Sample Info: 100mL #1576-260A

Instrument: msd5.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



0181

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MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.00
75	30.0 – 60.0% of mass 95	49.69
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.45
173	Less than 2.0% of mass 174	(0.~~3.84~~)[1]
174	Greater than 50.0% of mass 95	65.92
175	5.0 – 9.0% of mass 174	(7.25)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.47)[1]
177	5.0 – 9.0% of mass 176	(6.69)[2]

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

BFB Injection Date: 3/7/08
BFB Injection Time: 0840
BFB File ID: 5030701
Tekmar Purge Flow: 13.2 mL/min
Vacuum: 8.01×10^{-5} torr

0182

IS/S Std.#:	1576-298	Exp. Date: 5-20-08
BCM	492446	
1,4-DFB	1731657	
CB-d5	1133757	

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

Verify 176/174 m/z Ratio: 23726081 / 24852 48 x 100 = 95.47%

NOAH Cart #: 11 / 8 **File #:** 5030704 / 5030705

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1493838\ )}{(\ 1731657\ )} \times \frac{(\ 25.0\ )}{(\ 0.91671\ )} =$ 23.526

File ID:	5030702
Compound:	toluene-d8
Initials:	CB

Reported Result 23.526

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5030701	BFB Tune Check	1476-191	50ng	2mL	1.00	3/7/08	0840	CB	Apex Scan 98
2	✓	02	CCV-1 (50ppbv)	1576-263	50ppbv	50mL			0908	CB	
3	✓	03	LCS-1 (100ppbv)	1576-260A	↓	100mL			0937	CB	
4	✓	04	Lab Blank	1294	Humid	200mL			1027	CB	Cert Cart #11 Leg 6
5	✓	CS	Cert Cart #8 Leg 5	↓	↓	↓	↓		1111	CB	
6	✓	06	0803084A-01A	23997	2.5"Hg-5psi	200mL	1.46		1202	CB	
7	✓	07	-01AA	↓	↓ -		↓		1235	CB	
8	✓	08	-02A	21211	10"Hg -		1.39		1307	CB	
9	✓	09	-03A	13658	20.0"Hg-↓	↓	4.02	↓	1340	CB	

Signature

3/7/08
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	✓	5030710	0803084A - 04A	3741	1.0"Hg-5psi	200mL	1.39	317108	1412	CB		
11	✓	11	↓ -05A	33963	25"Hg- ↓	↓	1.46		1444	CB		
12	✓	12	0802521A - 01AA	33680	5.0"Hg- ↓	4mL	80.5		1512	CB		
13	✓	13	0802521A - 01A	↓	↓ -5psi	8mL	402		1552	CB		
14	X	14	↓ -03A	4351	0.0"Hg- ↓	3mL	89.3		1620	MS	RR@15mL	
15	X	15	0802603 - 01A	94916	5.0"Hg- ↓	75mL	6.45		1648	MS	RR@200mL	
16	✓	5030716	0802521A 03A	4351	0.0"Hg-5psi	15mL	17.9		1741	MS		
17	✓	↓ 17	0802603- 01A	94916	5.0"Hg-15psi	200mL	2.42		1813	MS		
18	✓	5030718	0803021 - 01A	9833	5.5"Hg-5psi	200mL	1.64		1933	LO		
19	✓	19	↓ 02A	31435	5.0"Hg	↓	1.61		2005	LO		
20	✓	20	↓ 03A	4349	7.5"Hg		1.79		2038	LO		
21	✓	21	0802602 - 01A	34213	↓		1.79		2110	LO		
22	✓	22	↓ 02A	4292	7.0"Hg	↓	1.75		2143	LO		
23	✓	23	0802560A - 01A	1412	4.5"Hg-5psi	25mL	12.6		2210	LO		
24	✓	24	↓ 02A	5496	0.2psi	200mL	1.99		2243	LO		
25	✓	25	↓ 03A	9477	0.4psi ↓	↓	1.94		2315	LO		
26												
27												
28												
29												
30			LO 3/10/08									
31												
32												

0183

Comments:

Laura Oconnor
Signature

3/10/08
Date

Air Toxics Ltd.

Data file : /chem/msd5.i/5-21feb.b/5022114.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 21-FEB-2008 17:16
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-21feb.b/bfb30.m
Meth Date : 21-Feb-2008 17:05 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	1380629			100.00- 100.00	100.00
3.803	3.900	-0.097	50	436660			15.00- 40.00	31.63
3.803	3.900	-0.097	75	771553			30.00- 60.00	55.88
3.803	3.900	-0.097	96	89970			5.00- 9.00	6.52
3.803	3.900	-0.097	173	10425			0.00- 2.00	1.14
3.803	3.900	-0.097	174	917973			50.00- 100.00	66.49
3.803	3.900	-0.097	175	64933			5.00- 9.00	7.07
3.803	3.900	-0.097	176	902928			95.00- 101.00	98.36
3.803	3.900	-0.097	177	56630			5.00- 9.00	6.27

Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

Client ID: BFB

Instrument: msd5.i

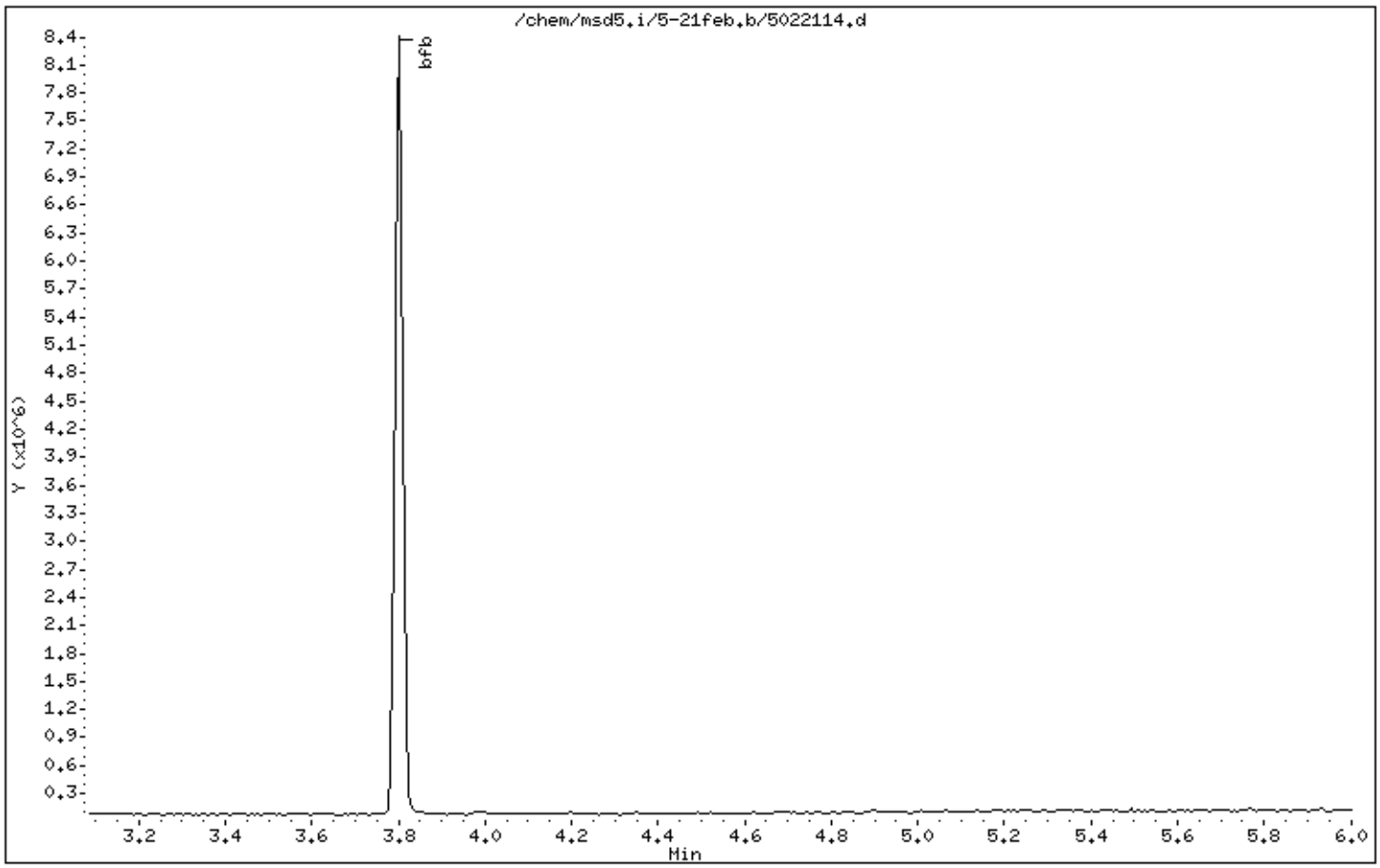
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

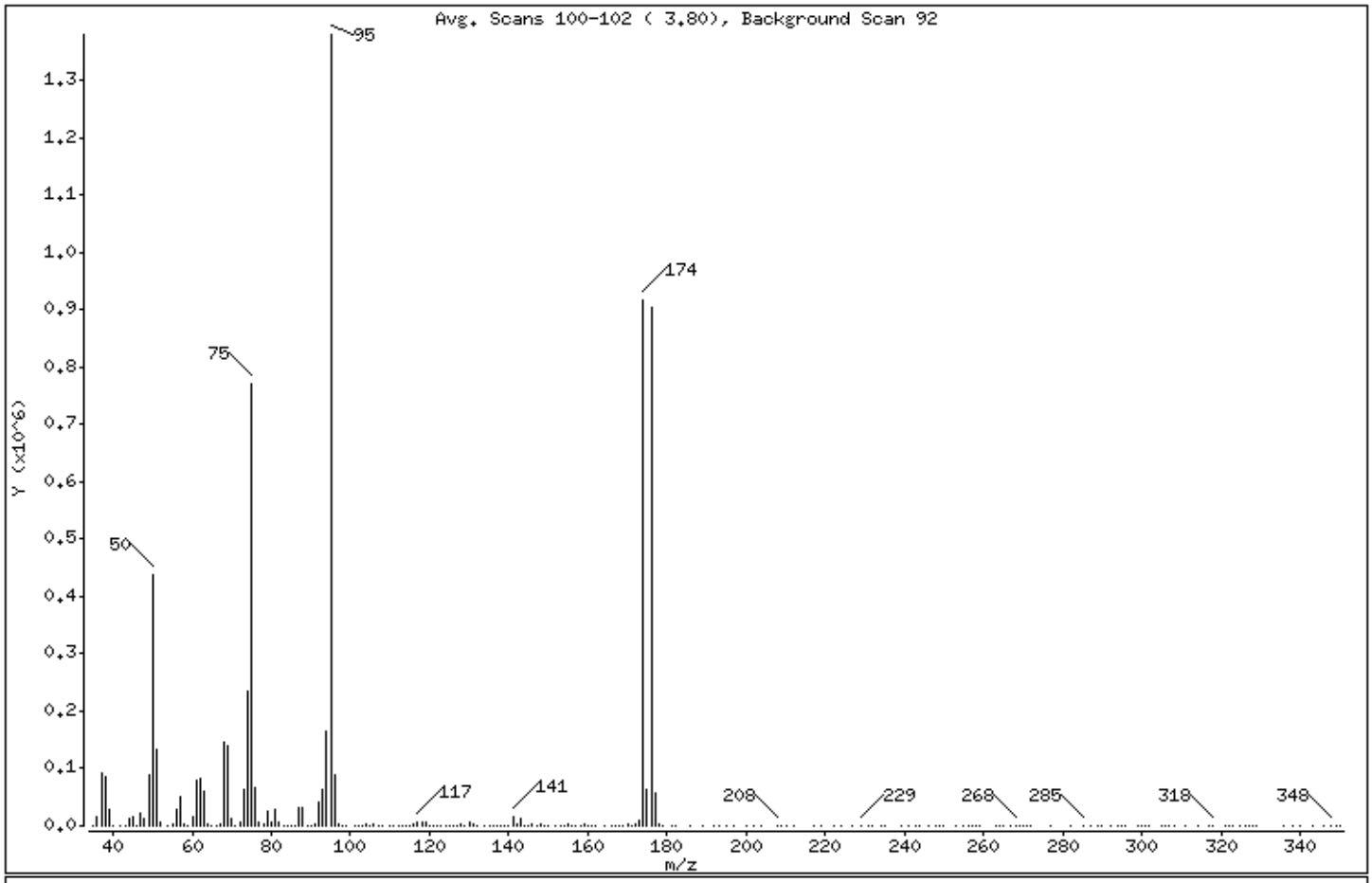
Volume Injected (uL): 1.0

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	31.63
75	30.00 - 60.00% of mass 95	55.88
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.76 (1.14)
174	50.00 - 100.00% of mass 95	66.49
175	5.00 - 9.00% of mass 174	4.70 (7.07)
176	95.00 - 101.00% of mass 174	65.40 (98.36)
177	5.00 - 9.00% of mass 176	4.10 (6.27)

Date : 21-FEB-2008 17:16

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: 5022114.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	53	93.00	63968	153.00	879	249.00	238
36.00	15800	94.00	165184	154.00	964	250.00	209
37.00	93544	95.00	1380352	155.00	3827	253.00	428
38.00	84920	96.00	89968	156.00	209	255.00	180
39.00	29824	97.00	2415	157.00	1169	256.00	485
40.00	445	98.00	71	158.00	183	257.00	50
42.00	736	99.00	298	159.00	1947	258.00	381
43.00	533	101.00	165	160.00	261	259.00	169
44.00	13317	102.00	85	161.00	365	263.00	4
45.00	14781	103.00	128	162.00	630	264.00	262
46.00	720	104.00	4738	164.00	525	265.00	204
47.00	20672	105.00	1566	166.00	423	267.00	41
48.00	13105	106.00	4008	167.00	782	268.00	583
49.00	88992	107.00	1514	168.00	529	269.00	227
50.00	436608	108.00	165	169.00	981	270.00	115
51.00	134080	110.00	19	170.00	2232	271.00	275
52.00	5136	111.00	1052	171.00	1469	272.00	397
54.00	392	112.00	744	172.00	3157	277.00	185
55.00	4452	113.00	1157	173.00	10425	282.00	162
56.00	27256	114.00	201	174.00	917952	285.00	455
57.00	51224	115.00	1118	175.00	64928	287.00	192
58.00	1700	116.00	3963	176.00	902912	289.00	297
59.00	1292	117.00	6381	177.00	56624	290.00	115
60.00	17064	118.00	4814	178.00	1674	292.00	285
61.00	80376	119.00	5004	179.00	282	294.00	225
62.00	82440	120.00	564	181.00	215	295.00	310
63.00	61728	121.00	339	182.00	161	296.00	321
64.00	4719	122.00	170	186.00	224	299.00	85
65.00	655	123.00	741	189.00	126	300.00	55
66.00	12	124.00	1029	192.00	30	301.00	118
67.00	3963	125.00	637	193.00	511	302.00	208
68.00	145984	126.00	639	195.00	67	305.00	143
69.00	140992	127.00	579	197.00	50	306.00	99
70.00	11901	128.00	4753	200.00	161	307.00	401
71.00	545	129.00	1527	202.00	174	308.00	165

Data File: /chem/msd5.i/5-21feb.b/5022114.d

Date : 21-FEB-2008 17:16

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: 5022114.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	7058	130.00	5086	204.00	253	311.00	357
73.00	62672	131.00	3518	208.00	538	314.00	133
74.00	235520	132.00	472	209.00	232	317.00	164
75.00	771520	134.00	455	210.00	146	318.00	477
76.00	65424	135.00	1116	212.00	125	321.00	199
77.00	6460	136.00	681	217.00	136	322.00	39
78.00	3145	137.00	942	219.00	133	323.00	111
79.00	24888	138.00	165	222.00	61	325.00	240
80.00	6403	139.00	768	224.00	143	326.00	90
81.00	27024	140.00	1569	227.00	252	327.00	401
82.00	6042	141.00	14704	229.00	481	328.00	78
83.00	808	142.00	2165	231.00	156	329.00	119
84.00	223	143.00	13317	232.00	162	336.00	420
85.00	27	144.00	1326	234.00	101	338.00	78
86.00	324	145.00	1165	235.00	316	340.00	143
87.00	32008	146.00	2216	239.00	81	343.00	179
88.00	30984	147.00	365	241.00	330	346.00	342
89.00	723	148.00	3081	243.00	471	348.00	441
90.00	276	149.00	1108	244.00	60	349.00	233
91.00	3828	150.00	1394	246.00	225	350.00	99
92.00	40992	152.00	271	248.00	489		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-07mar.b/5030701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 07-MAR-2008 08:40
Operator : cb Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-191 50 ng
Comment :
Method : /var/chem/msd5.i/5-07mar.b/bfb30.m
Meth Date : 07-Mar-2008 08:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.782	3.900	-0.118	95	3769856			100.00- 100.00	100.00
3.782	3.900	-0.118	50	1093120			15.00- 40.00	29.00
3.782	3.900	-0.118	75	1873408			30.00- 60.00	49.69
3.782	3.900	-0.118	96	243008			5.00- 9.00	6.45
3.782	3.900	-0.118	173	20808			0.00- 2.00	0.84
3.782	3.900	-0.118	174	2485248			50.00- 100.00	65.92
3.782	3.900	-0.118	175	180096			5.00- 9.00	7.25
3.782	3.900	-0.118	176	2372608			95.00- 101.00	95.47
3.782	3.900	-0.118	177	158720			5.00- 9.00	6.69

Data File: /chem/msd5.i/5-07mar.b/5030701.d

Date : 07-MAR-2008 08:40

Client ID: BFB

Instrument: msd5.i

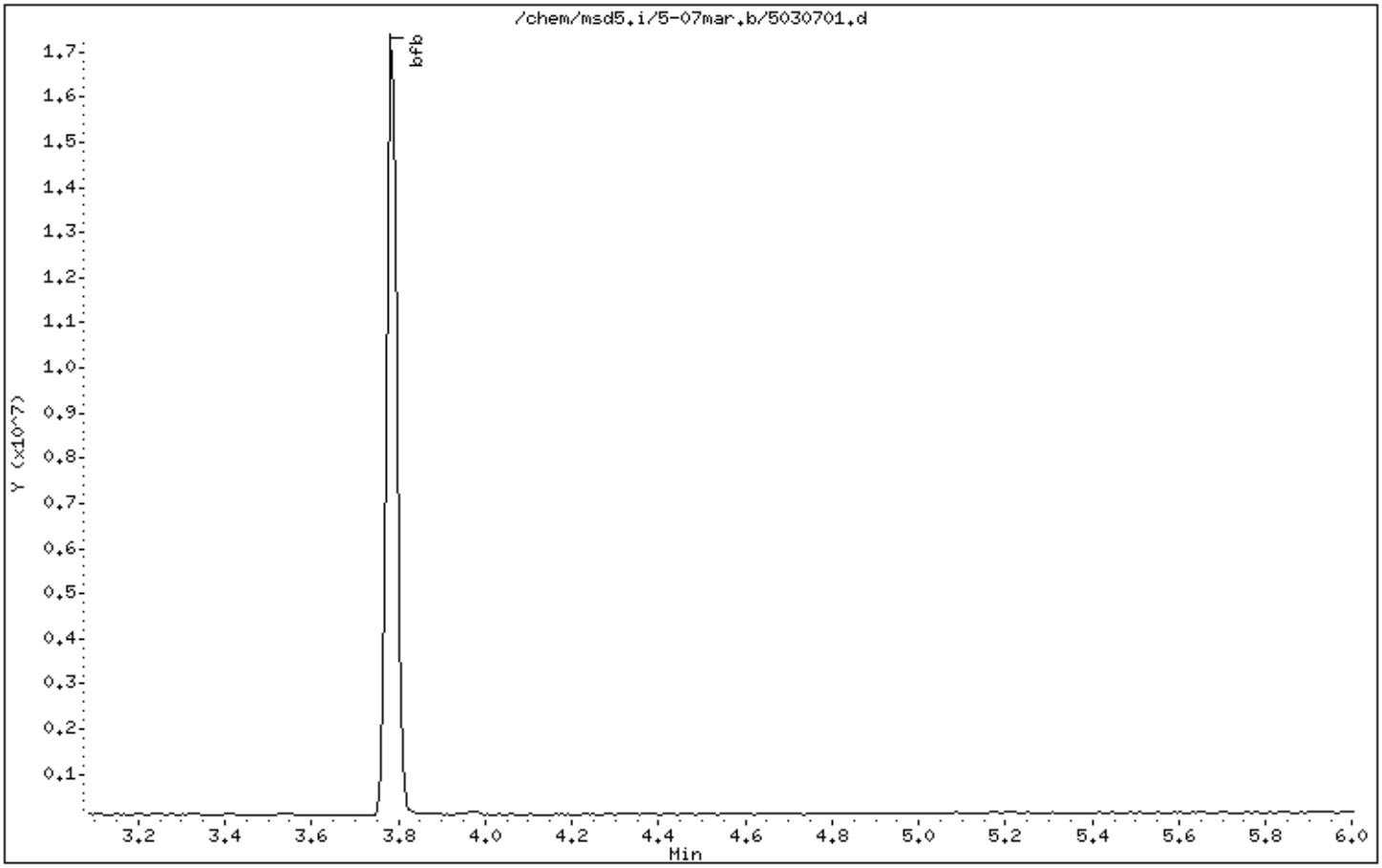
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-07mar.b/5030701.d

Date : 07-MAR-2008 08:40

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

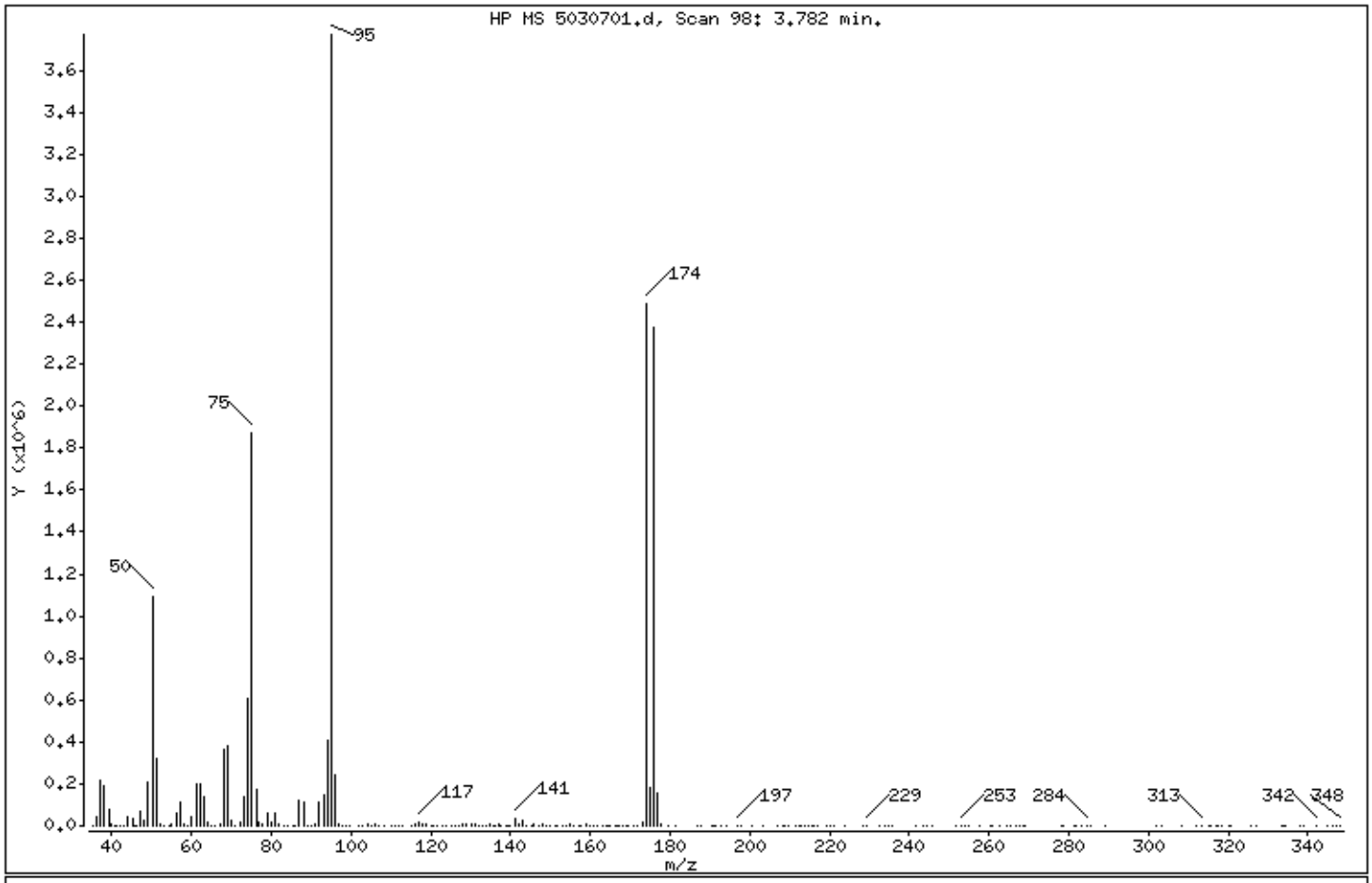
Volume Injected (uL): 1.0

Operator: cb

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	29.00
75	30.00 - 60.00% of mass 95	49.69
96	5.00 - 9.00% of mass 95	6.45
173	Less than 2.00% of mass 174	0.55 (0.84)
174	50.00 - 100.00% of mass 95	65.92
175	5.00 - 9.00% of mass 174	4.78 (7.25)
176	95.00 - 101.00% of mass 174	62.94 (95.47)
177	5.00 - 9.00% of mass 176	4.21 (6.69)

Data File: /chem/msd5.i/5-07mar.b/5030701.d

Date : 07-MAR-2008 08:40

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5030701.d
Spectrum: HP MS 5030701.d, Scan 98: 3.782 min.
Location of Maximum: 95.10
Number of points: 233

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.30	298	92.00	110056	151.00	1347	228.40	288
36.10	40344	93.10	147904	151.90	2980	229.20	559
37.10	220096	94.10	404672	153.10	2642	232.50	440
38.10	192896	95.10	3769856	153.90	3661	233.90	206
39.10	78504	96.10	243008	154.90	6649	234.80	325
40.00	6846	97.10	5458	155.80	1284	235.90	410
40.70	366	97.90	270	157.00	3869	241.60	212
41.30	903	98.50	409	157.80	349	243.60	372
42.20	1893	99.80	610	159.00	5488	244.30	196
43.10	2772	102.00	150	159.80	913	245.60	490
44.00	39400	102.90	2342	160.80	4194	251.90	377
45.10	38376	104.00	7726	161.80	452	252.90	956
45.90	976	105.00	3760	163.20	262	254.10	228
46.20	904	106.00	12091	164.00	761	255.00	346
47.10	65032	106.80	1698	164.60	740	257.80	306
48.00	29856	108.10	155	165.10	806	260.20	331
49.10	206720	110.10	1876	166.10	540	260.90	381
50.10	1093120	111.00	2347	166.90	657	262.60	156
51.10	321472	111.90	1178	167.40	461	264.30	172
52.00	12027	113.00	3949	168.10	2130	265.30	211
53.00	730	115.00	3182	169.00	1046	266.80	286
54.20	271	116.00	8428	169.60	1132	267.60	507
55.00	12020	116.90	15657	170.80	1233	268.70	813
56.00	59392	117.90	9620	171.80	3355	269.20	798
57.00	116224	119.00	12612	173.10	20808	278.00	297
58.10	4342	120.10	935	174.00	2485248	278.70	491
59.00	482	120.60	287	175.00	180096	281.30	268
60.00	46776	121.70	542	176.00	2372608	281.70	273
61.10	195712	123.10	1243	177.00	158720	283.00	323
62.10	198784	123.90	1774	177.90	4786	284.60	492
63.10	139200	125.30	1271	179.40	188	285.40	154
64.00	13154	126.00	3004	181.40	345	289.10	434
65.10	1551	126.80	366	186.80	276	301.90	650
66.00	1038	127.20	668	187.70	390	303.40	178
67.00	10391	127.90	12019	190.40	185	308.20	163

Date : 07-MAR-2008 08:40

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: cb

Column phase: Column diameter: 2.00

Data File: 5030701.d
Spectrum: HP MS 5030701.d, Scan 98: 3.782 min.
Location of Maximum: 95.10
Number of points: 233

m/z	Y	m/z	Y	m/z	Y	m/z	Y
68.00	363328	128.90	5712	191.00	584	312.00	194
69.10	382912	130.00	11188	191.40	370	313.60	679
70.10	23984	131.00	4962	193.00	438	315.20	221
71.00	185	131.90	644	194.10	164	315.60	169
72.00	18360	132.80	485	196.70	1440	316.90	160
73.10	138176	133.80	626	197.60	510	317.50	235
74.00	610496	134.90	5245	200.60	506	318.50	292
75.10	1873408	135.80	455	203.50	319	320.40	204
76.10	170496	136.20	275	207.10	1328	320.90	234
77.00	15660	136.90	4722	208.20	636	325.90	524
77.90	7419	137.70	240	208.70	1065	326.90	166
78.90	63504	138.80	2257	209.90	479	333.50	150
80.10	18832	139.50	1009	211.30	343	334.00	227
81.00	59664	140.00	2114	212.40	171	334.60	328
82.00	12150	141.00	35208	213.00	288	338.10	171
83.00	980	142.00	4884	213.80	281	339.00	157
84.00	158	143.00	28936	214.80	261	342.20	1111
85.30	915	144.10	4137	215.80	355	344.90	272
86.10	3676	145.10	2972	216.20	227	346.30	306
87.00	122760	145.90	4955	216.90	283	347.40	172
88.00	109104	146.90	1918	219.30	298	348.00	274
89.20	1713	148.00	6317	220.20	282		
90.10	1027	149.00	3786	221.10	437		
90.90	8252	149.80	3188	223.80	291		

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. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0802602
# of pages (Including Cover): 1

3/15/2008

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

The following discrepancy has been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tags. The samples labeled DW AMS-1 DW and UW AMS-5 UW on the COC are labeled as AMS5 UW and AMS5 DW on the sample tags. ATL will report the sample identifications on the COC unless otherwise notified.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

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

Project Info:	
P.O. #	
Project #	061140 - B - 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	DW AMS-1 DW 34813	2/27/08 0600/1400	TO-15 + Naphthalene	-30	-4	
02A	UW AMS-5 UW	2/27/08 0600/1400	TO-15 + Naphthalene	-29.5	-9	

Relinquished By: (Signature) Date/Time: Thomas Toy 2/27/08 1400	Received By: (Signature) Date/Time: Monica Brown ATL 2/28/08
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	8620 3516 5634	MB	NA	GOOD	Yes No (None)	0802602

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0802602

Client

Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 03/13/08
Date Completed: 3/12/08
Date Received: 2/28/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	DW AMS-1 DW	Modified TO-15	2/27/2008	7.5 "Hg	$225.00
02A	UW AMS-5 UW	Modified TO-15	2/27/2008	7.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 54021	$100.00
	Blue Body Flow Controller (2) @ $35.00 each., Shipment 54021	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Drive
Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 3/1/08 **Discrepancy Type:** (circle all that apply) (I.) II. III.

Workorder(s) affected: 0802602 **Sample(s) affected:** all

I. Sample Receipt Discrepancies

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

Narration Not Required:

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

Narration Required:

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

Describe the Discrepancy: 01A: AM5 UW 02A: AM5 DW - went w/ can #

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

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

Initials: _____ (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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
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.

DATA REVIEW CHECKLIST

Work Order #: 0802602

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

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

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

☑	☑	☐		☐ Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☑		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☑		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐		TICs resemble reference spectra
	☑	☐		TICs between duplicate samples are consistent
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) ☐ Tedlar Bag only
☑	☑			Final pressure consistent with canister size (6L vs. 1L)
☑	☑			Verify receipt pressures against logbook and Target
☑	☑			Verify canister ID #'s
	☐	☐		Extra printed copies are provided per client profile
	☑	☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☐	☐	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: All QC met

M/Q:

A (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
CB 3/10/08	R: NL 3/12/08	MM 3/12/08	

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