
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 #: 0804476

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	5/7/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804476

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern Cell Air Monitorin
DATE RECEIVED:	04/21/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	05/02/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AMS-5 UW	Modified TO-15	7.0 "Hg	5 psi
02A	AMS-3 DW	Modified TO-15	3.0 "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: 05/02/08

Laboratory Director

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0804476

Two 6 Liter Summa Canister samples were received on April 21, 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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS-5 UW	0804476-01A	4/17/2008	4/21/2008	NA	13	4/30/2008	NA	Good
AMS-3 DW	0804476-02A	4/17/2008	4/21/2008	NA	13	4/30/2008	NA	Good
Lab Blank	0804476-03A	NA	NA	NA	NA	4/30/2008	NA	Good
CCV	0804476-04A	NA	NA	NA	NA	4/30/2008	NA	Good
LCS	0804476-05A	NA	NA	NA	NA	4/30/2008	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: AMS-5 UW

Lab ID#: 0804476-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.88	1.1	3.3	4.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS-5 UW

Lab ID#: 0804476-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043009**	**Date of Collection:**	**4/17/08**
Dil. Factor:	**1.75**	**Date of Analysis:**	**4/30/08 03:21 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	1.1	3.3	4.0
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: AMS-5 UW

Lab ID#: 0804476-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043009**	**Date of Collection: 4/17/08**	
Dil. Factor:	**1.75**	**Date of Analysis: 4/30/08 03:21 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	Not Detected	8.3	Not Detected
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	81	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30apr.b/5043009.d
Lab Smp Id: 0804476-01A
Inj Date : 30-APR-2008 15:21
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #33382
Misc Info : 7.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-30apr.b/t14q424a.m
Meth Date : 30-Apr-2008 10:40 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	283620	25.0000		80.00- 120.00	100.00
8.087	8.059 (1.000)	128	220328			46.87- 106.87	77.68
8.059	8.059 (1.000)	49	465898			140.26- 200.26	164.27
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1048632	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	155768			0.00- 43.63	14.85
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	977117	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	455161			0.00- 30.00	46.58
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	291295	20.2345	20.234	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	158484			0.00- 30.00	54.41
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	905309	22.7183	22.718	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	74139			0.00- 30.00	8.19

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	600080			0.00- 30.00	66.28
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	623158	26.2651	26.265	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	728247			87.87- 147.87	116.86
16.575	16.575 (1.105)	176	593925			67.00- 127.00	95.31
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	31466	0.61505	1.076	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	17610			29.18- 89.18	55.97

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5043009.d
Lab Smp Id: 0804476-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 7.0"Hg -> 5psi

Calibration Date: 30-APR-2008
Calibration Time: 07:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	359511	215707	503315	283620	-21.11
92 1,4-Difluorobenze	1395147	837088	1953206	1048632	-24.84
125 Chlorobenzene-d5	1240059	744035	1736083	977117	-21.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.35
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: 02-May-2008 09:35

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804476-01A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 7.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.234	80.94	70-130
$ 107 Toluene-d8	25.000	22.718	90.87	70-130
$ 138 Bromofluorobenzene	25.000	26.265	105.06	70-130

Data File: /chem/msd5.i/5-30apr.b/5043009.d

Date : 30-APR-2008 15:21

Client ID:

Sample Info: 200mL #33382

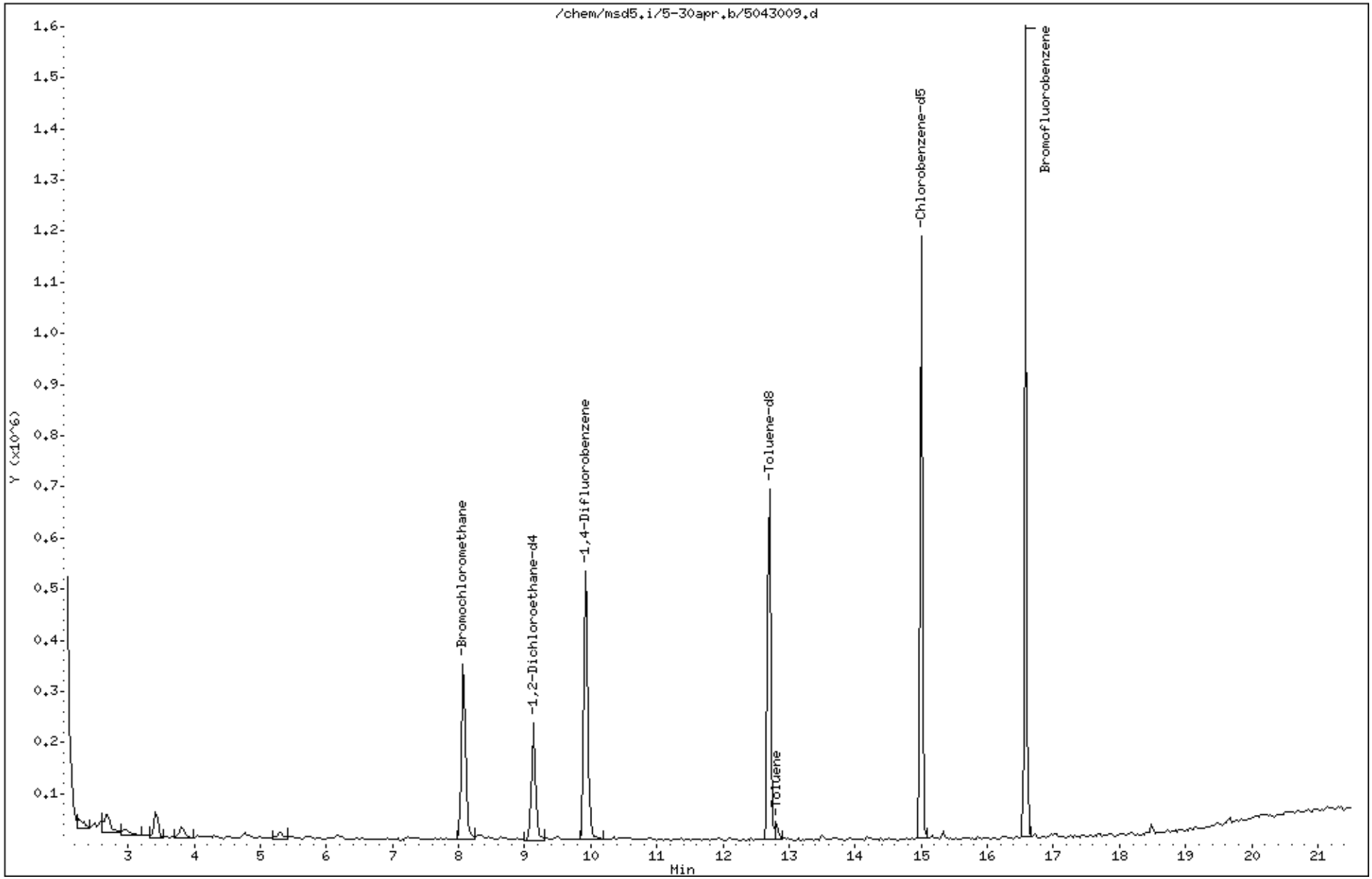
Column phase: RTx-624

Instrument: msd5.i

Operator: srs

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-30apr.b/5043009.d

Date : 30-APR-2008 15:21

Client ID:

Instrument: msd5.i

Sample Info: 200mL #33382

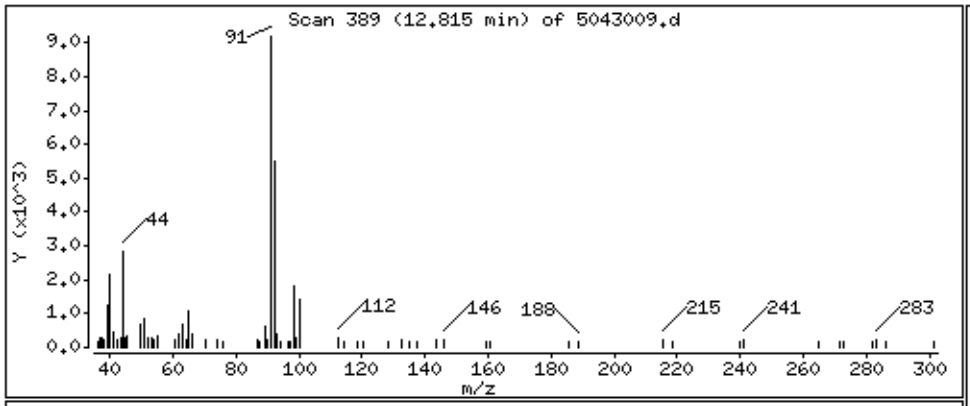
Operator: srs

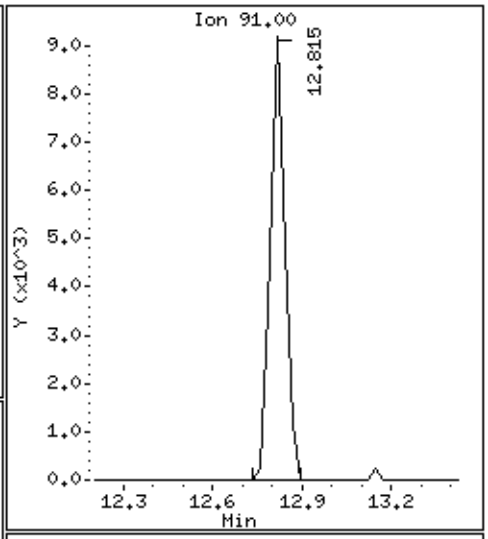
Column phase: RTx-624

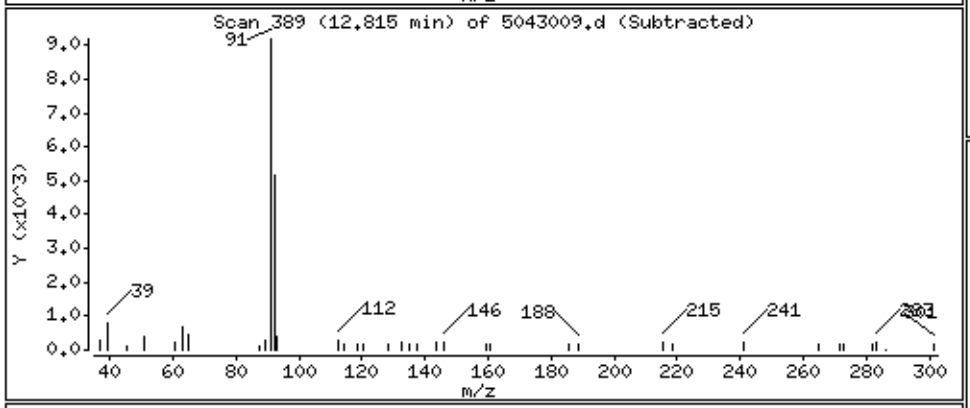
Column diameter: 0.53

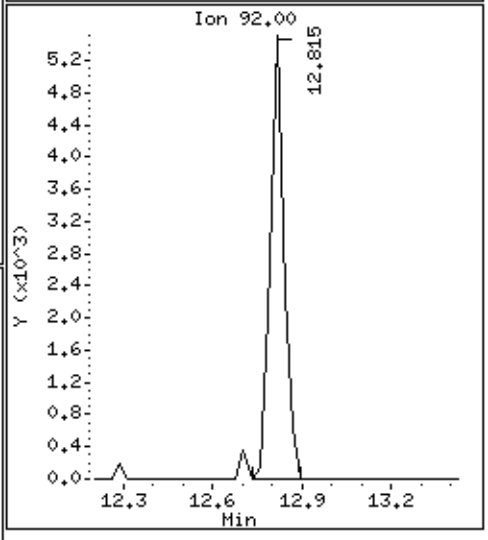
108 Toluene

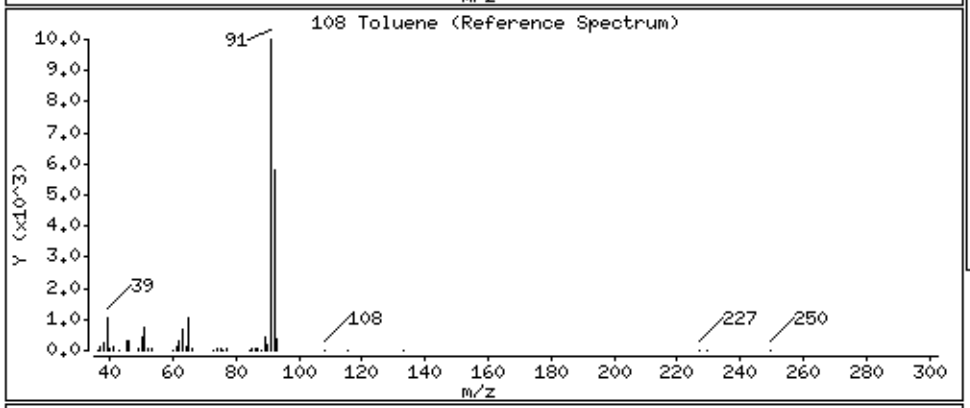
Concentration: 1.076 PPBV

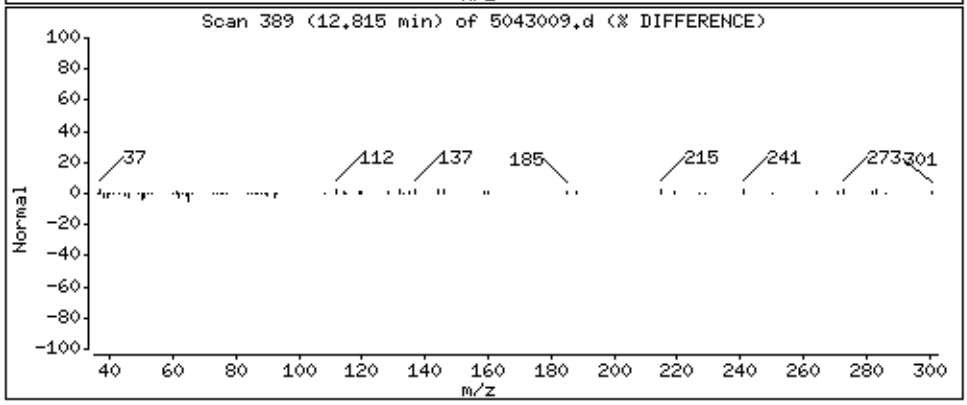












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS-3 DW

Lab ID#: 0804476-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.74	0.92	2.6	3.2
Toluene	0.74	1.1	2.8	4.0
m,p-Xylene	0.74	0.83	3.2	3.6
Acetone	3.0	5.9	7.1	14
2-Butanone (Methyl Ethyl Ketone)	0.74	1.0	2.2	3.0
Ethanol	3.0	4.1	5.6	7.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS-3 DW

Lab ID#: 0804476-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043010**	**Date of Collection:**	**4/17/08**
Dil. Factor:	**1.49**	**Date of Analysis:**	**4/30/08 03:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.74	Not Detected	3.7	Not Detected
Freon 114	0.74	Not Detected	5.2	Not Detected
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Bromomethane	0.74	Not Detected	2.9	Not Detected
Chloroethane	0.74	Not Detected	2.0	Not Detected
Freon 11	0.74	Not Detected	4.2	Not Detected
1,1-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Freon 113	0.74	Not Detected	5.7	Not Detected
Methylene Chloride	0.74	0.92	2.6	3.2
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
Chloroform	0.74	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Carbon Tetrachloride	0.74	Not Detected	4.7	Not Detected
Benzene	0.74	Not Detected	2.4	Not Detected
1,2-Dichloroethane	0.74	Not Detected	3.0	Not Detected
Trichloroethene	0.74	Not Detected	4.0	Not Detected
1,2-Dichloropropane	0.74	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
Toluene	0.74	1.1	2.8	4.0
trans-1,3-Dichloropropene	0.74	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.74	Not Detected	4.1	Not Detected
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.74	Not Detected	5.7	Not Detected
Chlorobenzene	0.74	Not Detected	3.4	Not Detected
Ethyl Benzene	0.74	Not Detected	3.2	Not Detected
m,p-Xylene	0.74	0.83	3.2	3.6
o-Xylene	0.74	Not Detected	3.2	Not Detected
Styrene	0.74	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.74	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.74	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,4-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
alpha-Chlorotoluene	0.74	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected
1,3-Butadiene	0.74	Not Detected	1.6	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
Cyclohexane	0.74	Not Detected	2.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS-3 DW

Lab ID#: 0804476-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043010**	**Date of Collection: 4/17/08**	
Dil. Factor:	**1.49**	**Date of Analysis: 4/30/08 03:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.74	Not Detected	3.0	Not Detected
Bromodichloromethane	0.74	Not Detected	5.0	Not Detected
Dibromochloromethane	0.74	Not Detected	6.3	Not Detected
Cumene	0.74	Not Detected	3.7	Not Detected
Propylbenzene	0.74	Not Detected	3.7	Not Detected
Chloromethane	3.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected
Acetone	3.0	5.9	7.1	14
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
2-Propanol	3.0	Not Detected	7.3	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	1.0	2.2	3.0
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
4-Methyl-2-pentanone	0.74	Not Detected	3.0	Not Detected
2-Hexanone	3.0	Not Detected	12	Not Detected
Bromoform	0.74	Not Detected	7.7	Not Detected
4-Ethyltoluene	0.74	Not Detected	3.7	Not Detected
Ethanol	3.0	4.1	5.6	7.7
Methyl tert-butyl ether	0.74	Not Detected	2.7	Not Detected
3-Chloropropene	3.0	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.5	Not Detected
Naphthalene	3.0	Not Detected	16	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30apr.b/5043010.d
Lab Smp Id: 0804476-02A
Inj Date : 30-APR-2008 15:53
Operator : srs Inst ID: msd5.i
Smp Info : 200mL #4210
Misc Info : 3.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-30apr.b/t14q424a.m
Meth Date : 30-Apr-2008 10:40 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1
Dil Factor: 1.49000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	272423	25.0000		80.00- 120.00	100.00
8.087	8.059 (1.000)	128	209793			46.87- 106.87	77.01
8.059	8.059 (1.000)	49	451867			140.26- 200.26	165.87
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1038213	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	144087			0.00- 43.63	13.88
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	937444	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	438374			0.00- 30.00	46.76
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	282631	20.4396	20.440	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	155203			0.00- 30.00	54.91
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	873317	22.1355	22.135	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	81820			0.00- 30.00	9.37

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	589928			0.00- 30.00	67.55
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	601490	26.4248	26.425	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	697898			87.87- 147.87	116.03
16.575	16.575 (1.105)	176	578758			67.00- 127.00	96.22
26 Ethanol					CAS #: 64-17-5		
4.160	4.105 (0.514)	45	22290	2.73247	4.071	80.00- 120.00	100.00
4.133	4.105 (0.511)	43	6178			0.00- 30.00	27.72
4.133	4.105 (0.511)	46	11932			0.00- 30.00	53.53
32 Acetone					CAS #: 67-64-1		
4.769	4.741 (0.590)	58	41456	3.96132	5.902	80.00- 120.00	100.00
4.769	4.741 (0.590)	43	126190			0.00- 30.00	304.39
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.675)	49	15345	0.61892	0.9222	80.00- 120.00	100.00
5.488	5.460 (0.679)	84	8762			33.13- 93.13	57.10
5.460	5.460 (0.675)	51	4631			0.00- 30.00	30.18
67 2-Butanone					CAS #: 78-93-3		
7.727	7.672 (0.956)	72	5560	0.69423	1.034	80.00- 120.00	100.00
7.700	7.672 (0.952)	43	21608			501.25- 561.25	388.57
7.700	7.672 (0.952)	57	1614			0.00- 30.00	29.03
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	36187	0.71443	1.064	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	20865			29.18- 89.18	57.66
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	14557	0.55800	0.8314	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	24143			0.00- 30.00	165.85

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5043010.d
Lab Smp Id: 0804476-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 3.0"Hg -> 5psi

Calibration Date: 30-APR-2008
Calibration Time: 07:51
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	359511	215707	503315	272423	-24.22
92 1,4-Difluorobenze	1395147	837088	1953206	1038213	-25.58
125 Chlorobenzene-d5	1240059	744035	1736083	937444	-24.40

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

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

Report Date: 02-May-2008 09:36

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0804476-02A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 3.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.440	81.76	70-130
$ 107 Toluene-d8	25.000	22.135	88.54	70-130
$ 138 Bromofluorobenzene	25.000	26.425	105.70	70-130

Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Sample Info: 200mL #4210

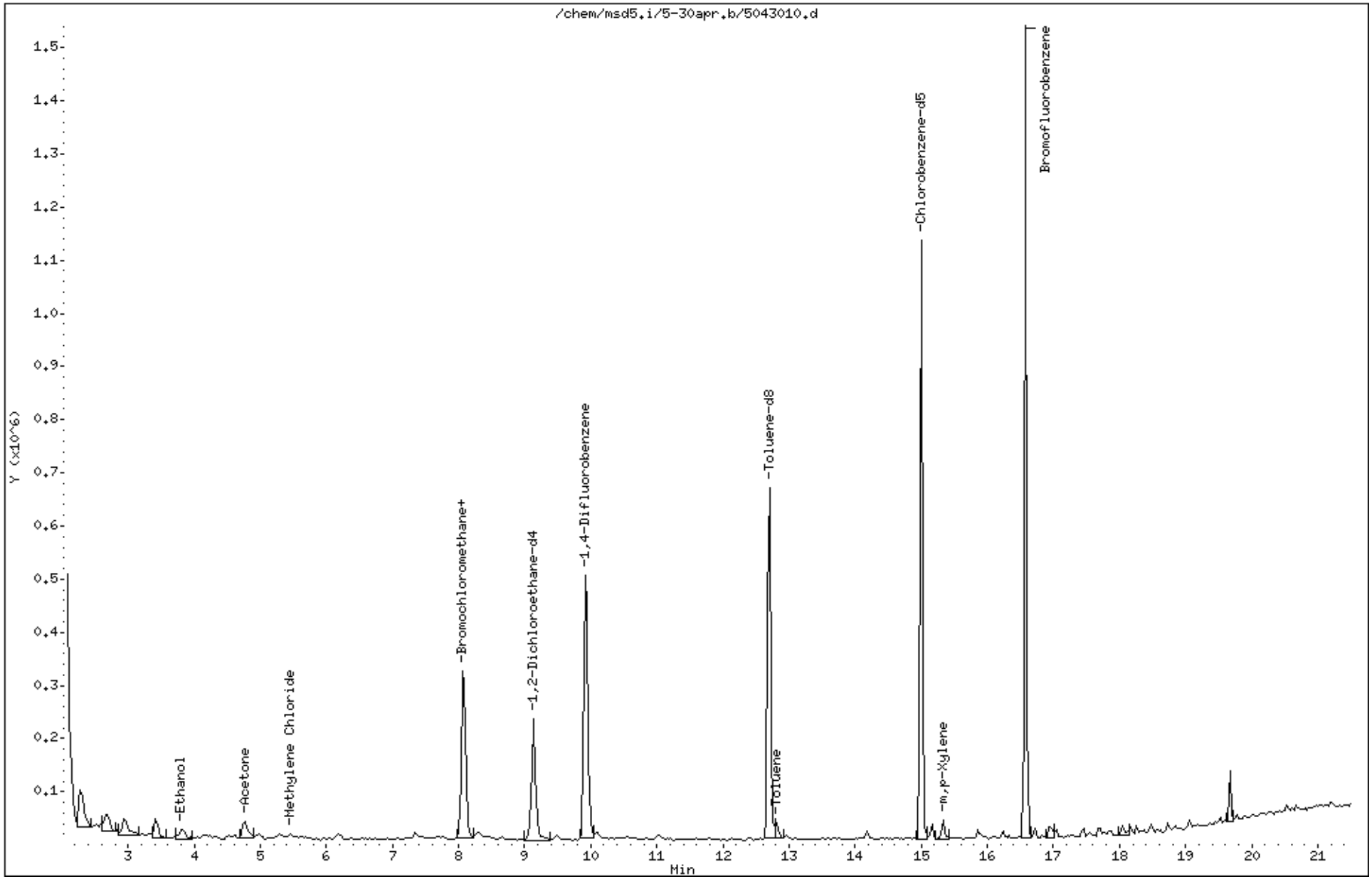
Column phase: RTx-624

Instrument: msd5.i

Operator: srs

Column diameter: 0.53

0022



Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

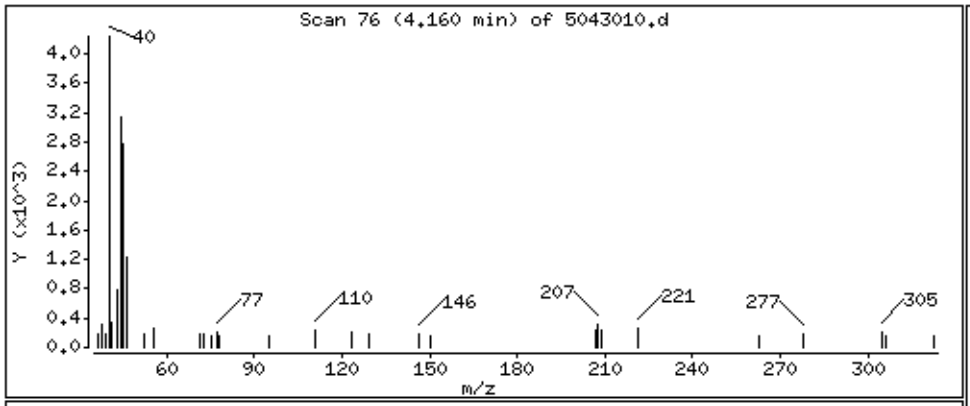
Operator: srs

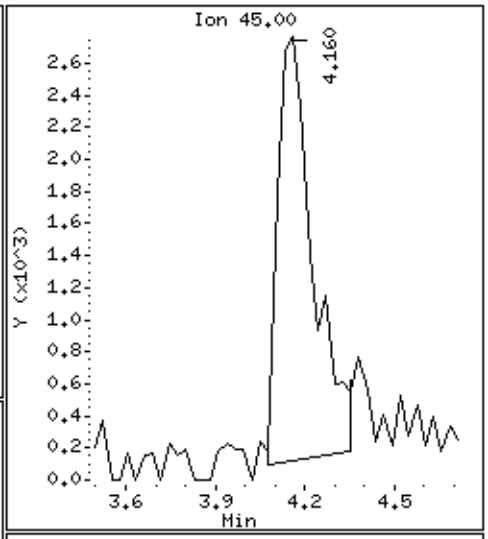
Column phase: RTx-624

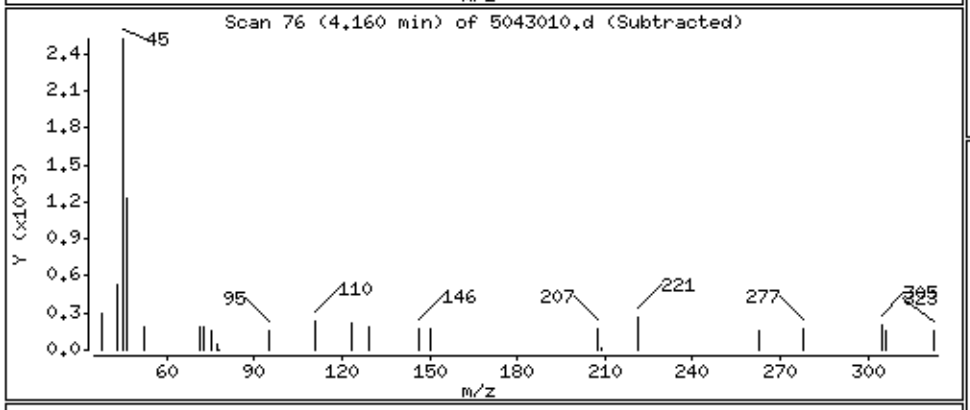
Column diameter: 0.53

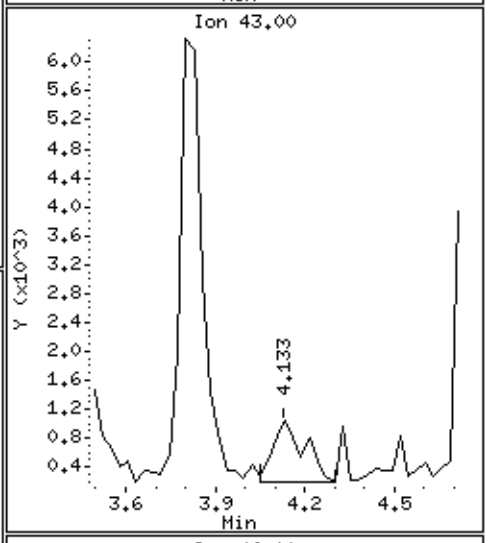
26 Ethanol

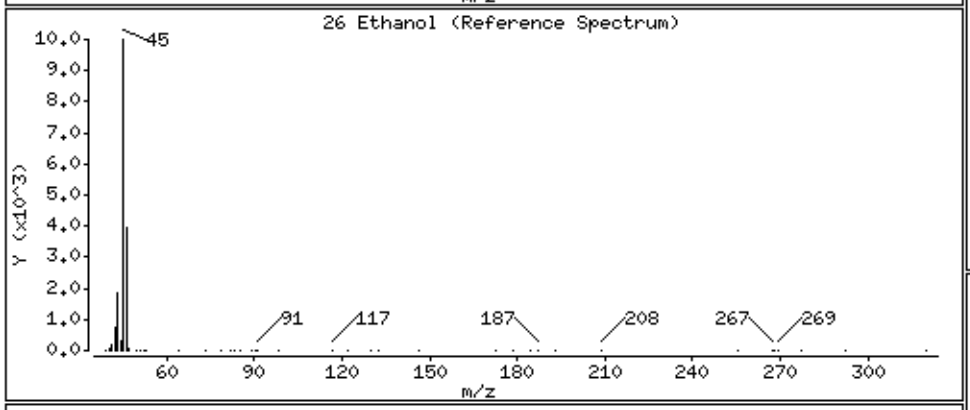
Concentration: 4.071 PPBV

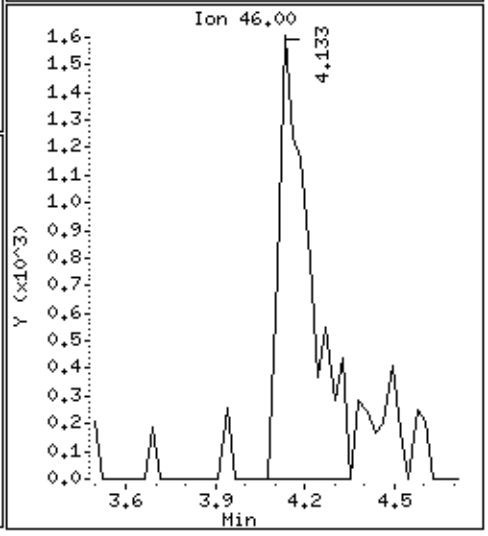


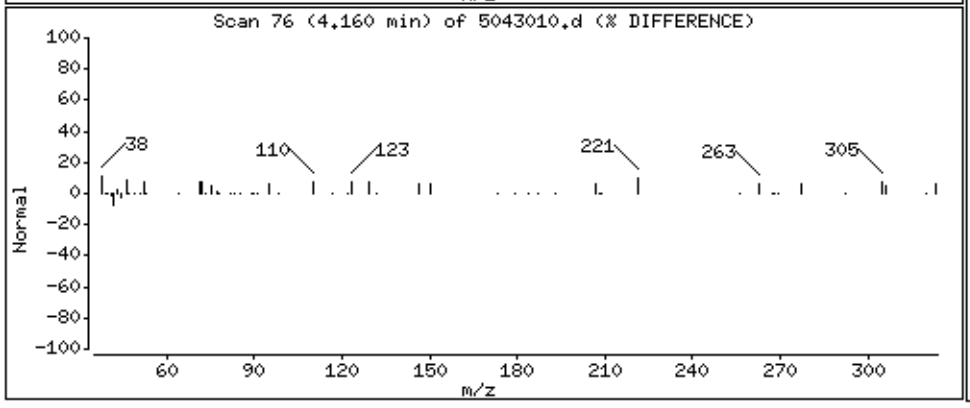












Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

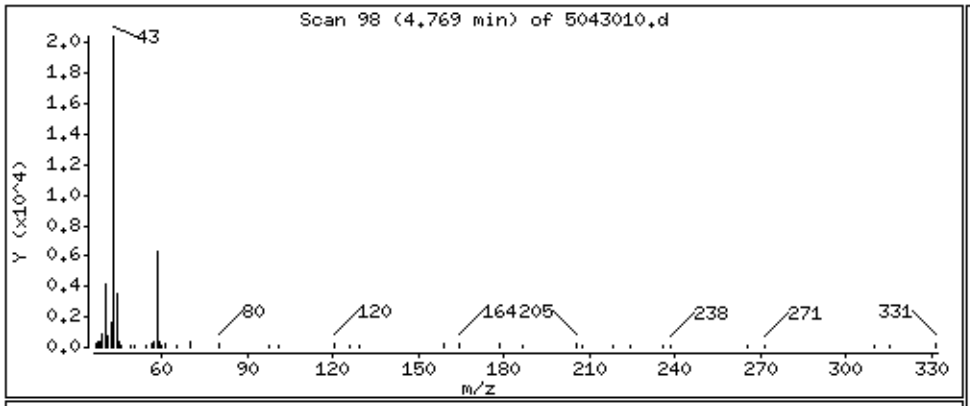
Operator: srs

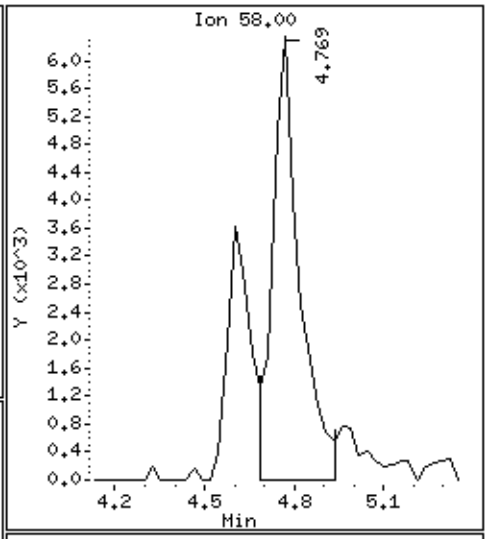
Column phase: RTx-624

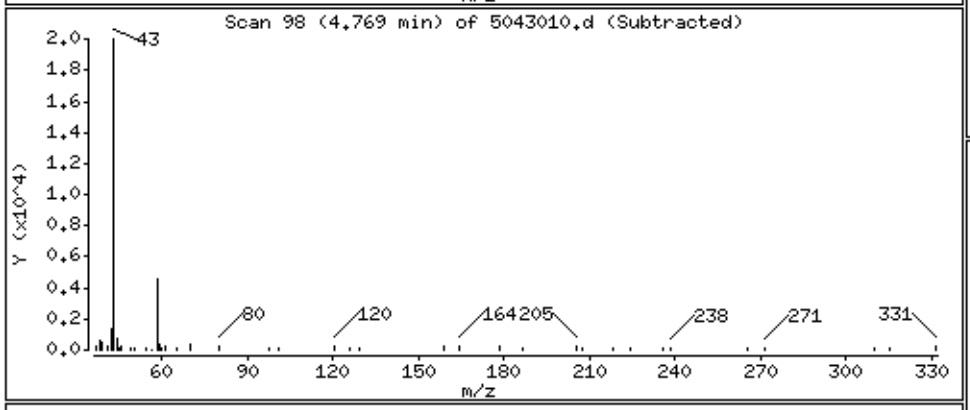
Column diameter: 0.53

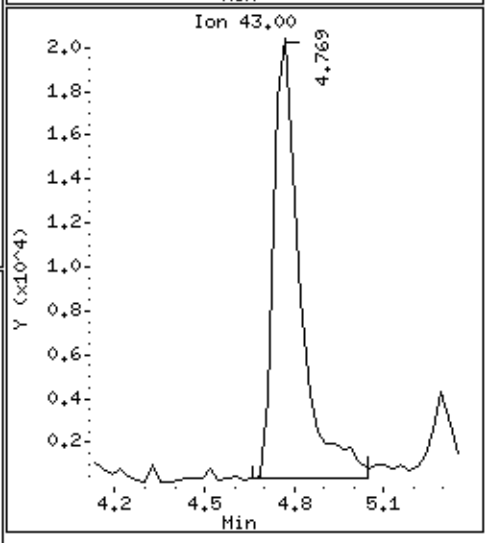
32 Acetone

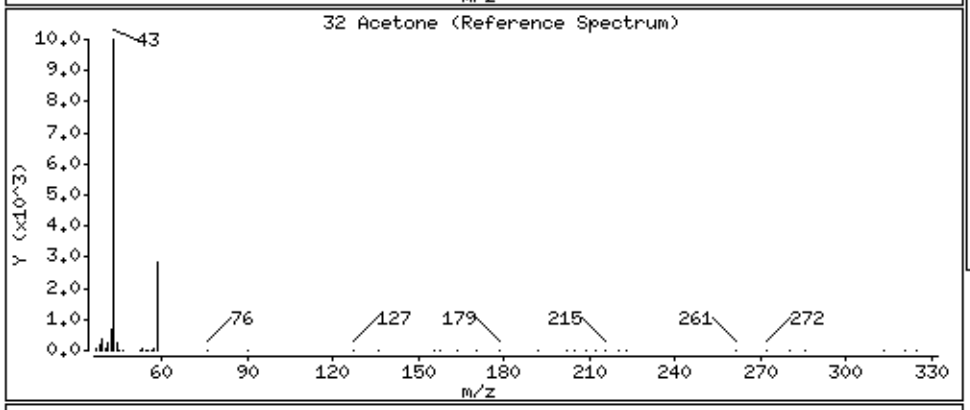
Concentration: 5.902 PPBV

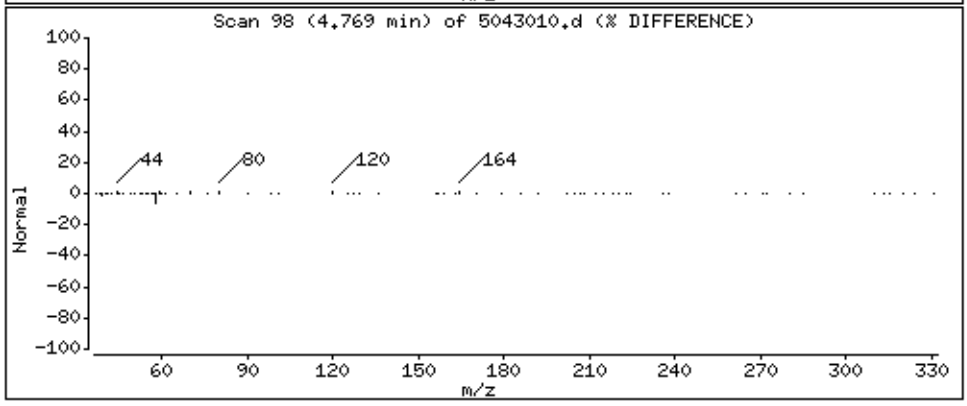












Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

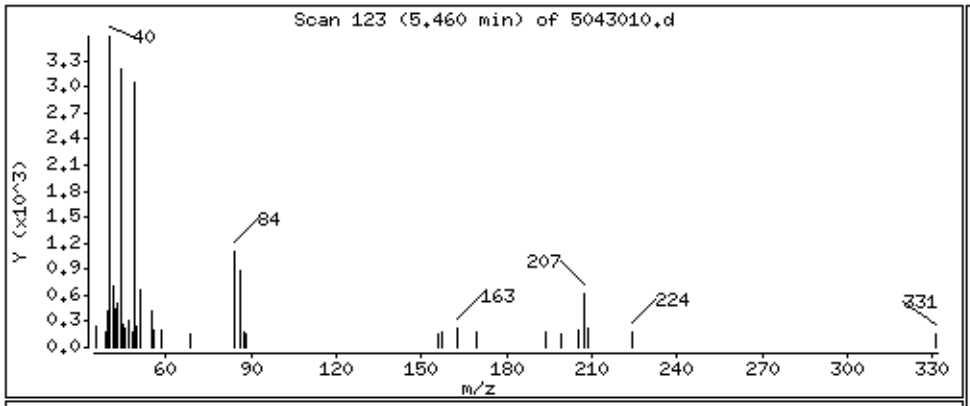
Operator: srs

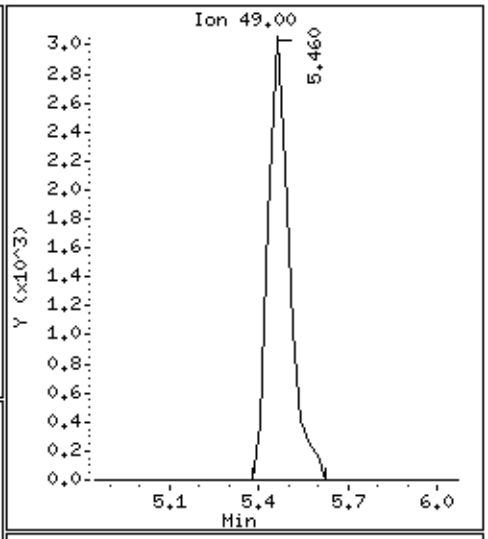
Column phase: RTx-624

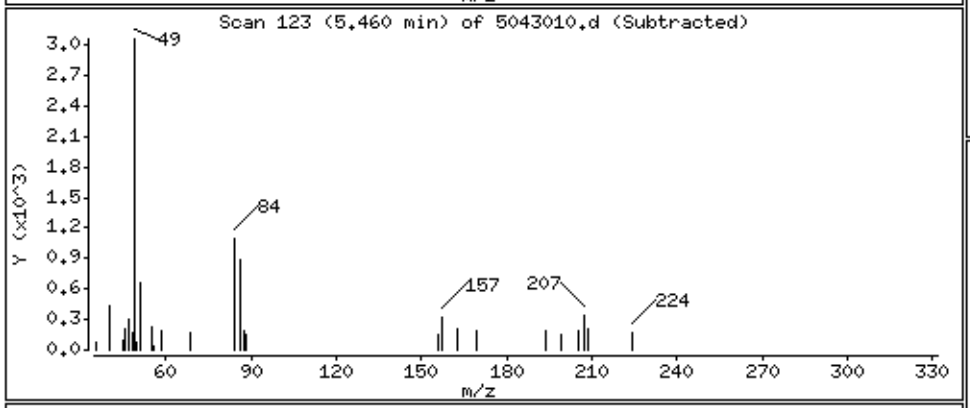
Column diameter: 0.53

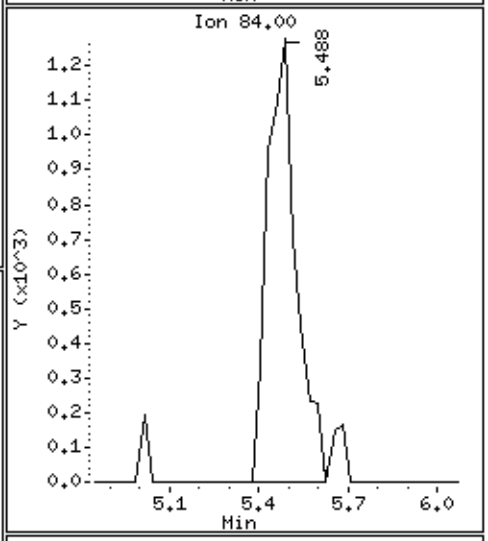
43 Methylene Chloride

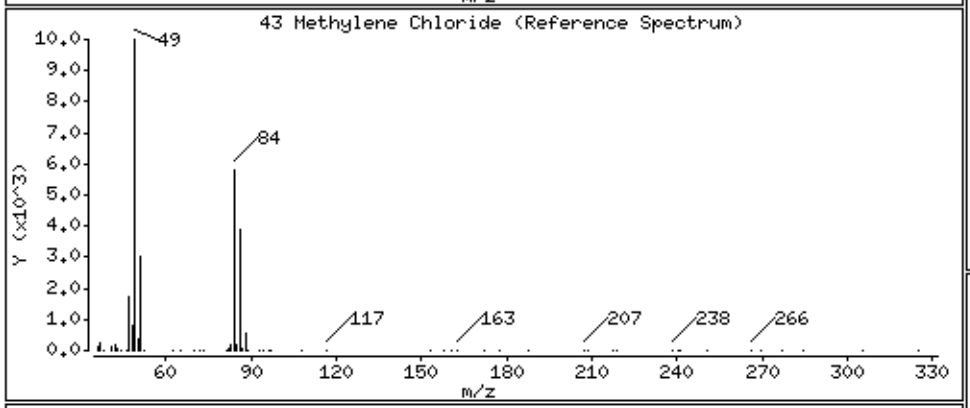
Concentration: 0.9222 PPBV

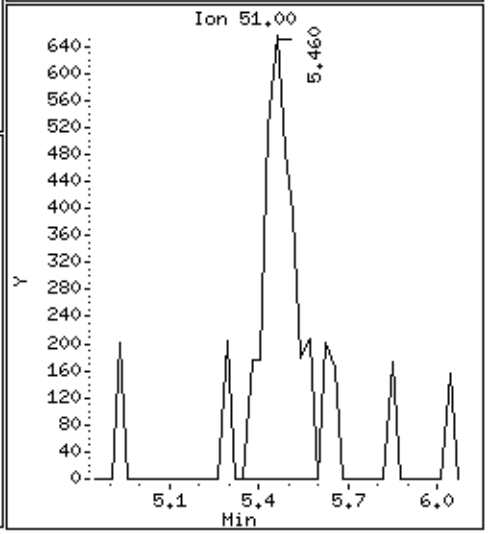


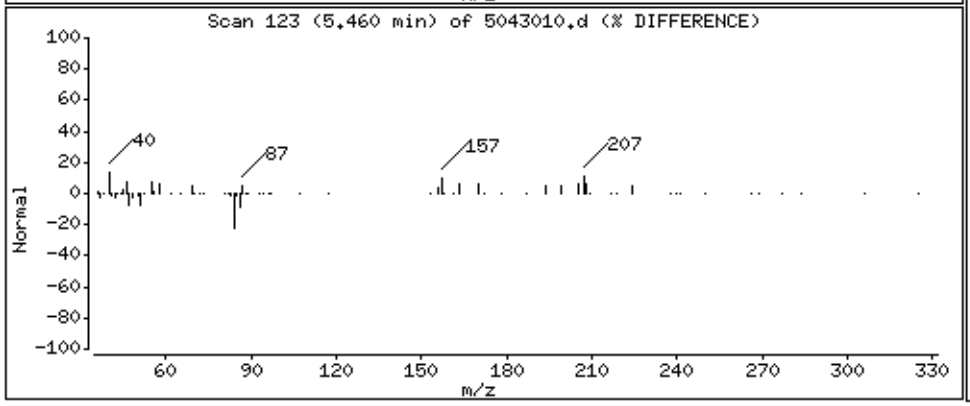












Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

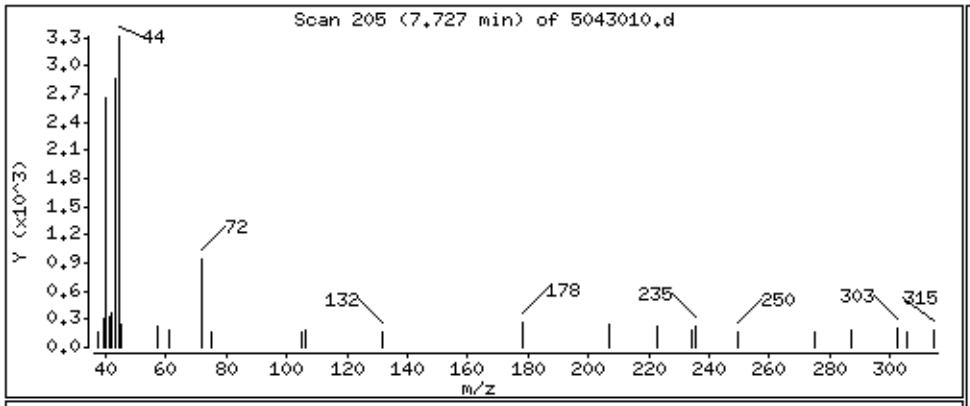
Operator: srs

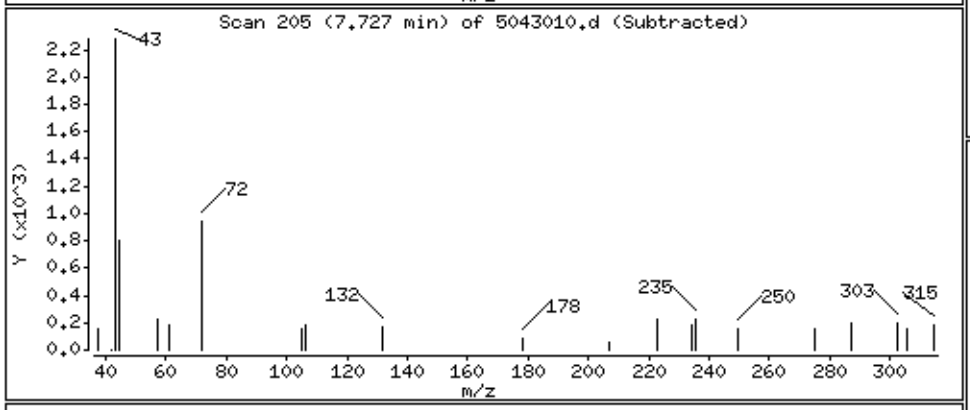
Column phase: RTx-624

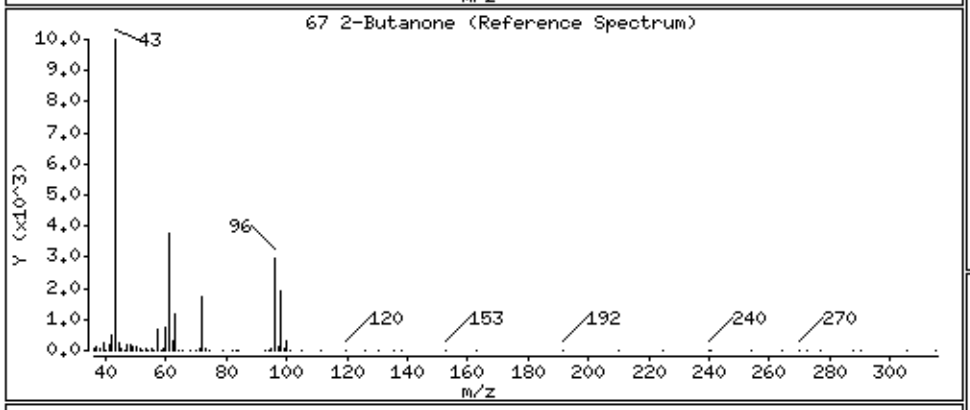
Column diameter: 0.53

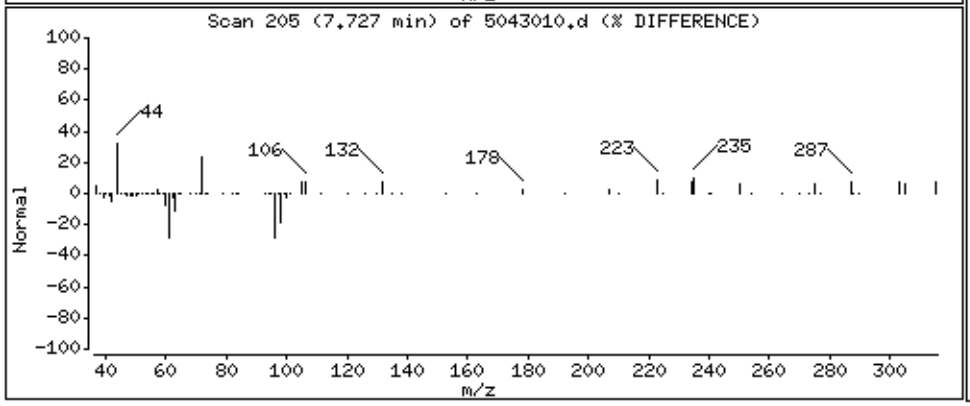
67 2-Butanone

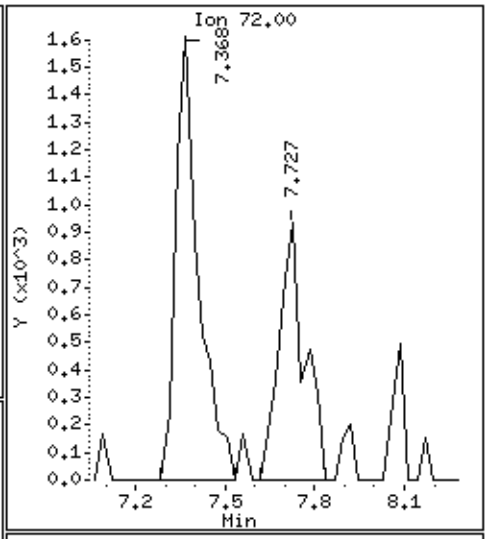
Concentration: 1.034 PPBV

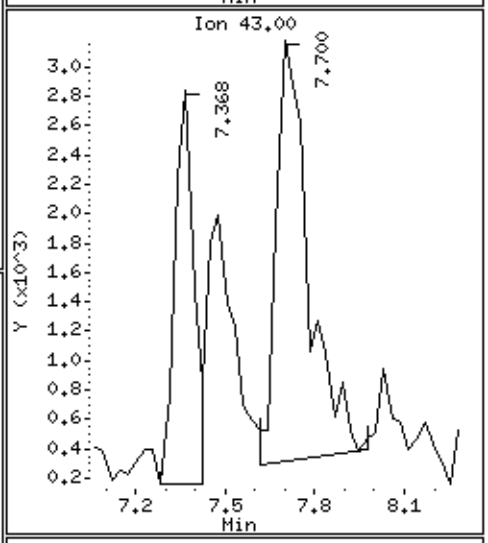


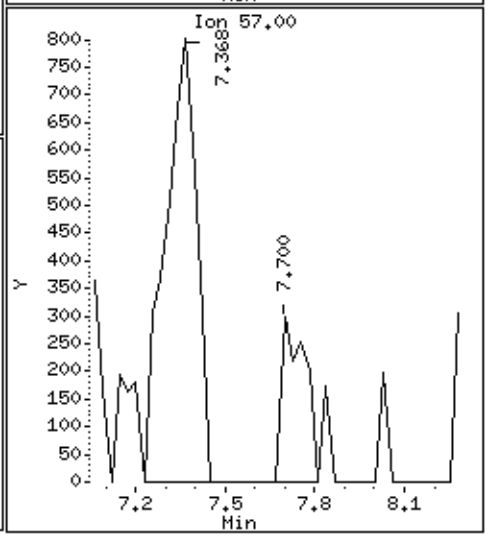












Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

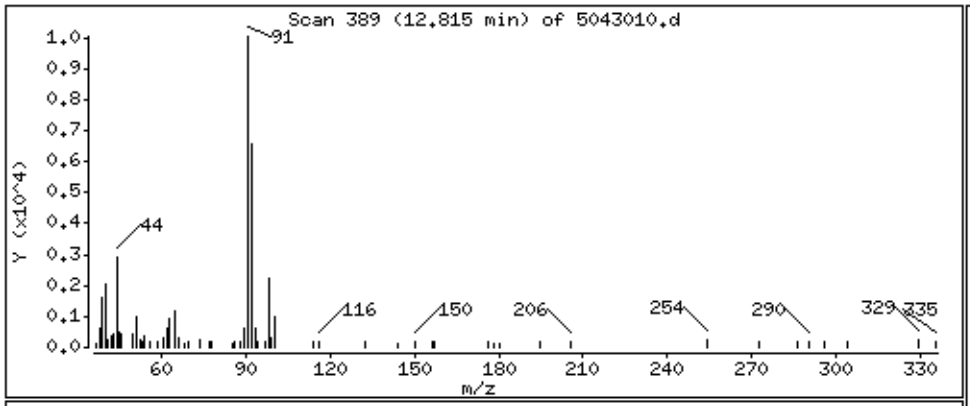
Operator: srs

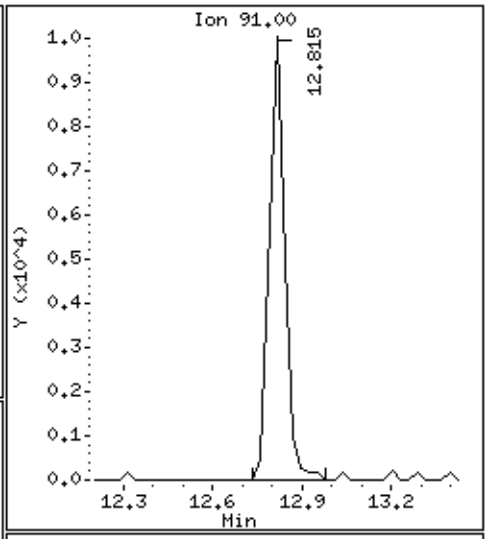
Column phase: RTx-624

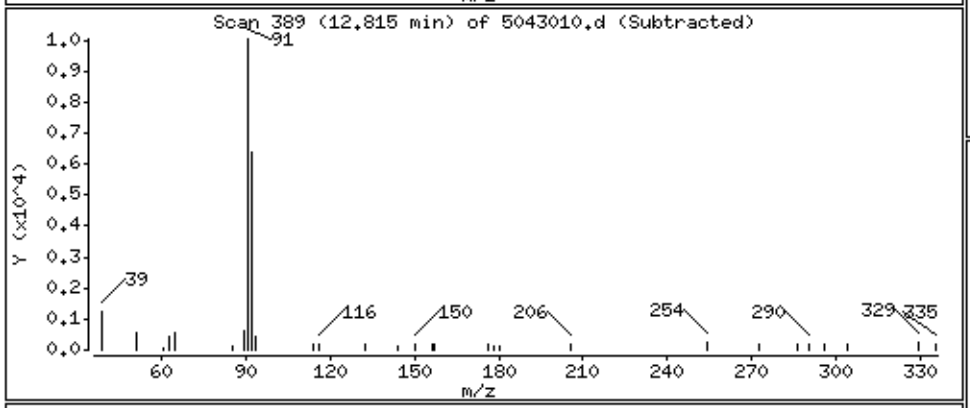
Column diameter: 0.53

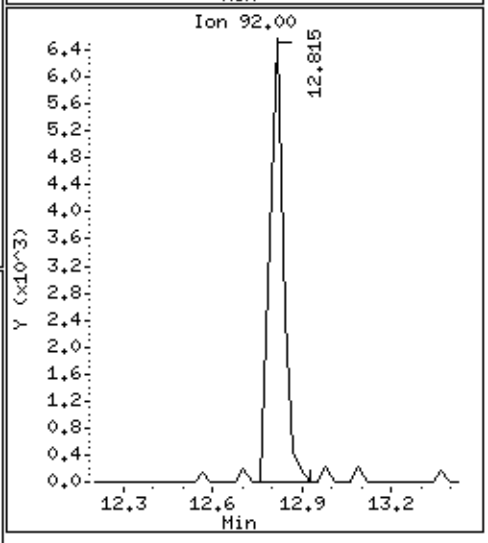
108 Toluene

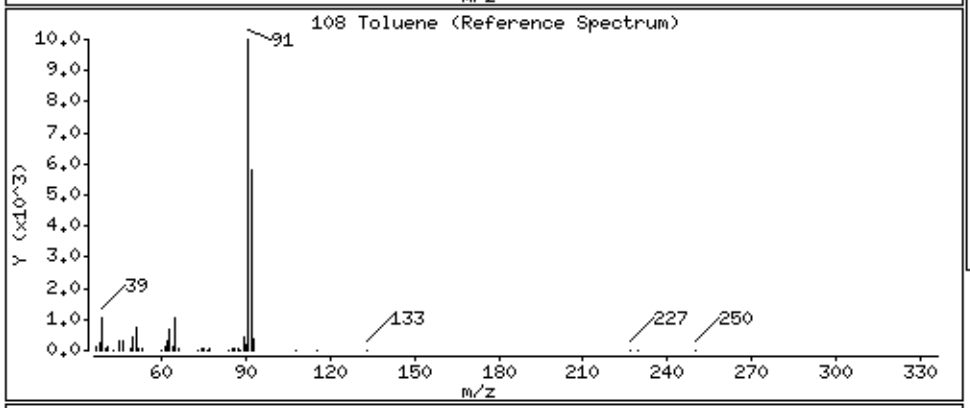
Concentration: 1.064 PPBV

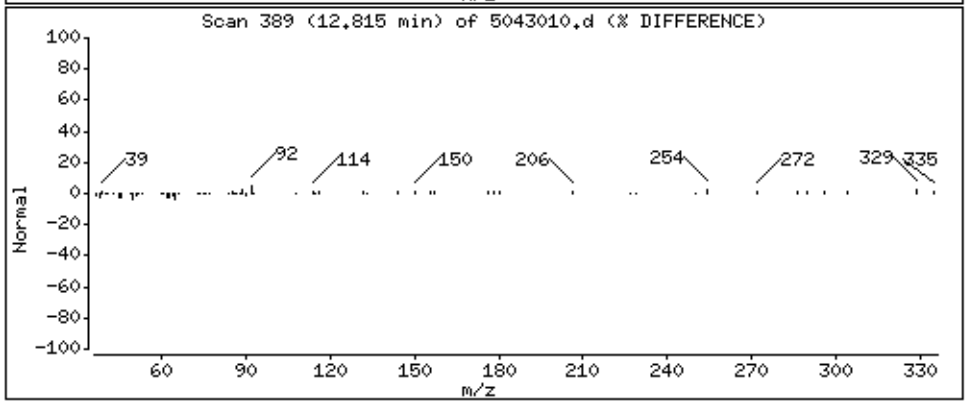












Data File: /chem/msd5.i/5-30apr.b/5043010.d

Date : 30-APR-2008 15:53

Client ID:

Instrument: msd5.i

Sample Info: 200mL #4210

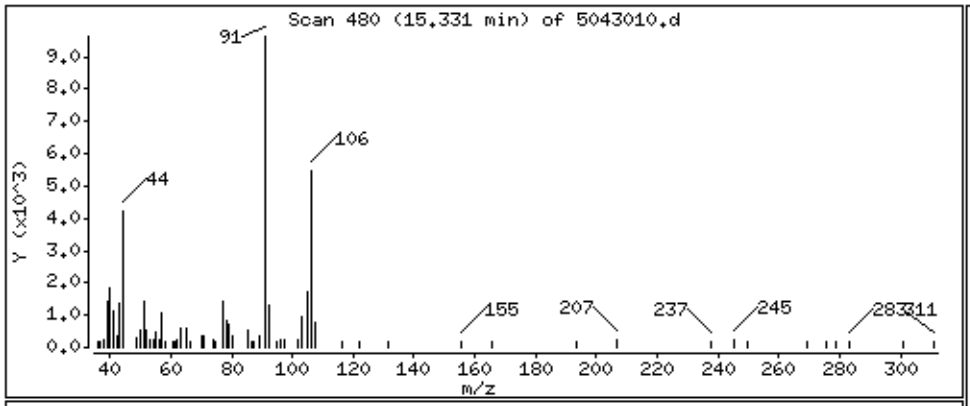
Operator: srs

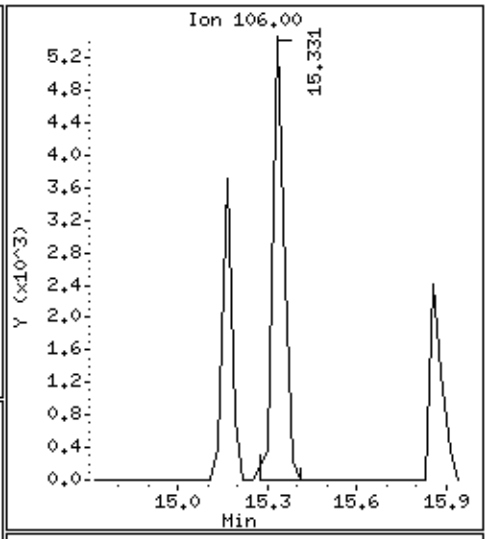
Column phase: RTx-624

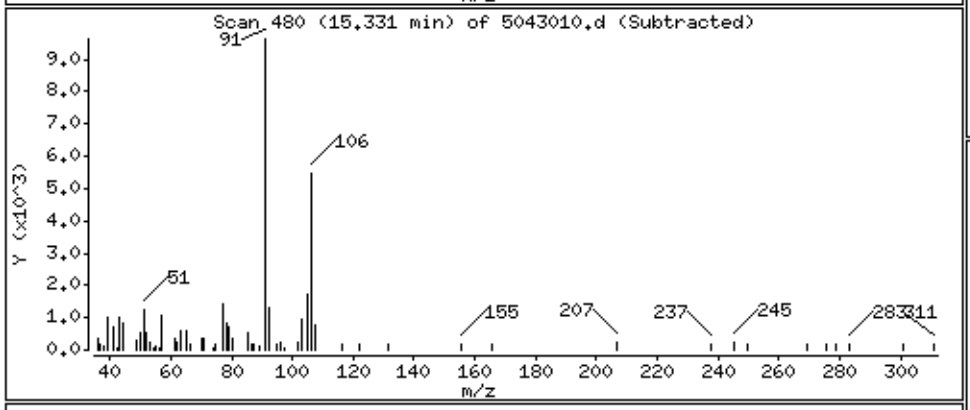
Column diameter: 0.53

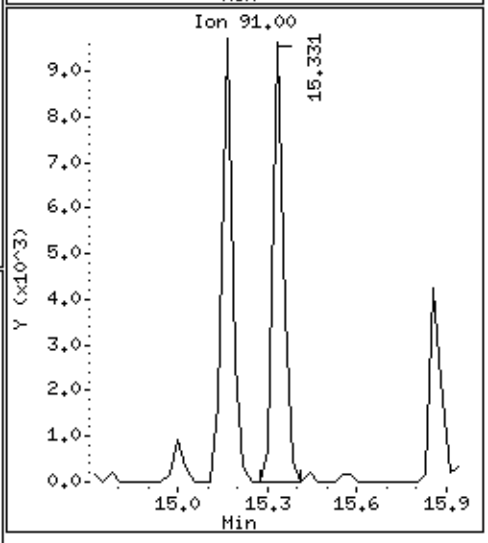
130 m,p-Xylene

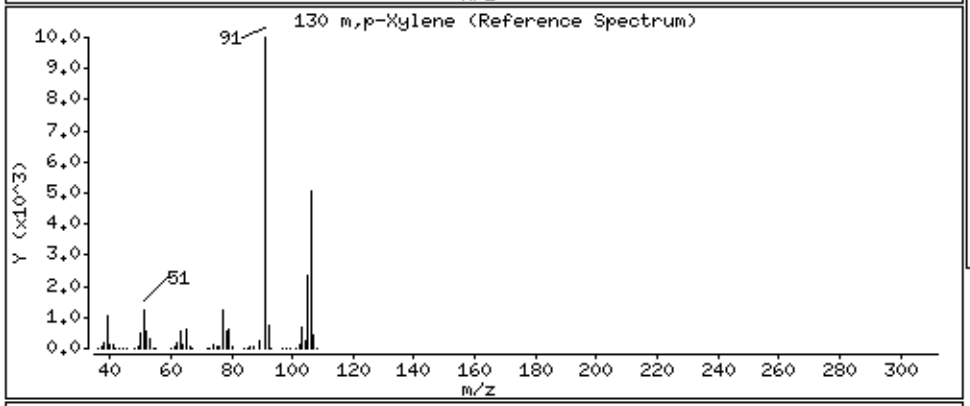
Concentration: 0.8314 PPBV

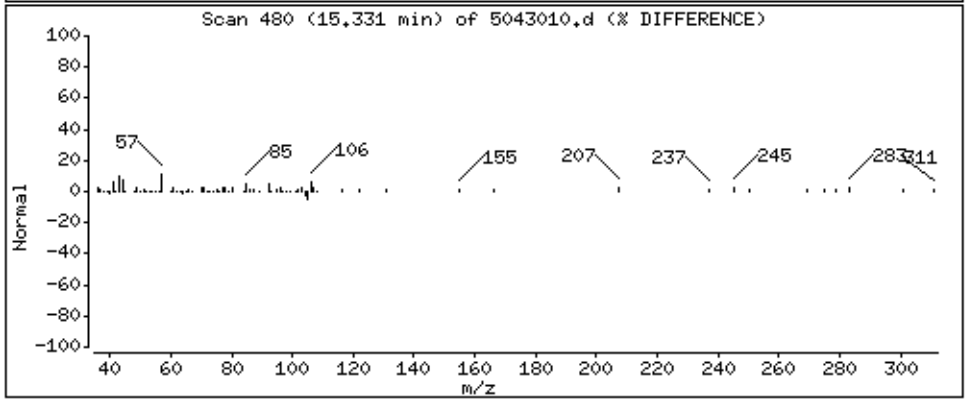












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804476-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 12:02 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804476-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 12:02 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30apr.b/5043007.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 30-APR-2008 12:02
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info :
Comment :
Method : /chem/msd5.i/5-30apr.b/t14q424a.m
Meth Date : 30-Apr-2008 10:40 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.059 (1.000)	130	280977	25.0000		80.00- 120.00	100.00
8.087	8.059 (1.000)	128	216992			46.87- 106.87	77.23
8.059	8.059 (1.000)	49	463985			140.26- 200.26	165.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1066262	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	151095			0.00- 43.63	14.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	965899	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	457285			0.00- 30.00	47.34
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	299948	21.0316	21.032	80.00- 120.00	100.00
9.137	9.137 (1.130)	67	157721			0.00- 30.00	52.58
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	931236	22.9826	22.982	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	83419			0.00- 30.00	8.96

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	610357			0.00- 30.00	65.54
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	626134	26.6971	26.697	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	744670			87.87- 147.87	118.93
16.575	16.575 (1.105)	176	599685			67.00- 127.00	95.78

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5043007.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info:

Calibration Date: 30-APR-2008
Calibration Time: 07:51
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	359511	215707	503315	280977	-21.84
92 1,4-Difluorobenze	1395147	837088	1953206	1066262	-23.57
125 Chlorobenzene-d5	1240059	744035	1736083	965899	-22.11

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.09	0.35
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: 30-Apr-2008 12:06

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info:

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.032	84.13	70-130
$ 107 Toluene-d8	25.000	22.982	91.93	70-130
$ 138 Bromofluorobenzene	25.000	26.697	106.79	70-130

Data File: /chem/msd5.i/5-30apr.b/5043007.d

Date : 30-APR-2008 12:02

Client ID: Lab Blank

Sample Info: 200mL #12941

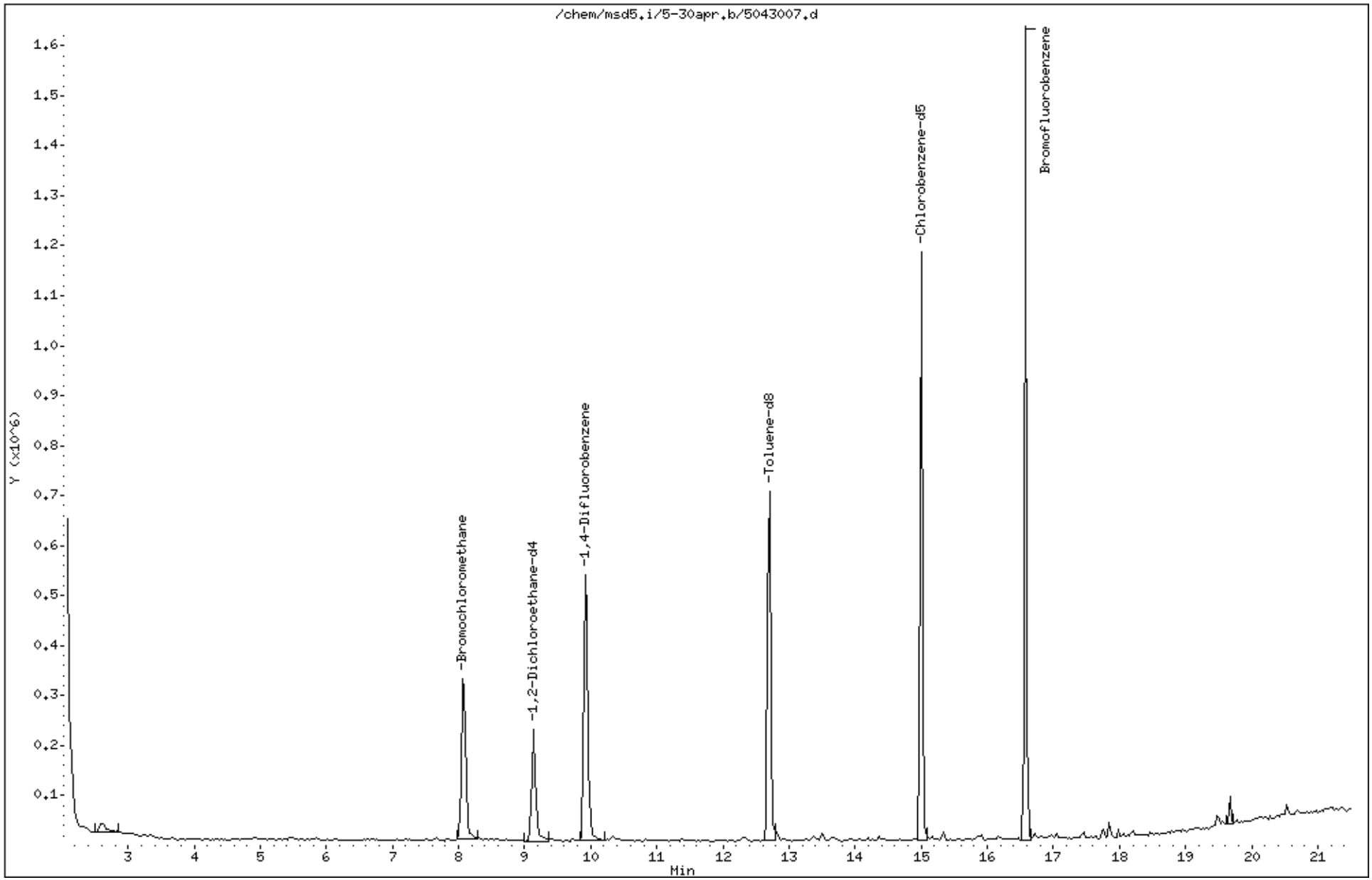
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0036



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0804476

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS-5 UW	81		91		105				0
02	AMS-3 DW	82		88		106				0
03	Lab Blank	84		92		107				0
04	CCV	85		92		104				0
05	LCS	81		92		104				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: 0804476
Lab File ID: 5043002.d
Date Analyzed: 04/30/2008
Instrument ID: msd5.i
Time Analyzed: 07:51 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1240059		15		1395147		9.91		359511		8.06	
	UPPER LIMIT	1736083		15.33		1953206		10.24		503315		08.39	
	LOWER LIMIT	744035		14.67		837088		09.58		215707		07.73	
	CLIENT SAMPLE NO												
01	AMS-5 UW	977117		15		1048632		9.91		283620		8.09	
02	AMS-3 DW	937444		15		1038213		9.91		272423		8.09	
03	Lab Blank	965899		15		1066262		9.91		280977		8.09	
04	CCV	1240059		15		1395147		9.91		359511		8.06	
05	LCS	1025290		15		1114943		9.91		294351		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 : 24-APR-2008 13:56
End Cal Date : 24-APR-2008 18:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Cal Date : 25-Apr-2008 09:57 sscott
Curve Type : Average

Calibration File Names:
Level 1: /var/chem/msd5.i/5-24apr.b/5042413.d
Level 2: /var/chem/msd5.i/5-24apr.b/5042414.d
Level 3: /var/chem/msd5.i/5-24apr.b/5042421.d
Level 4: /var/chem/msd5.i/5-24apr.b/5042416.d
Level 5: /var/chem/msd5.i/5-24apr.b/5042417.d
Level 6: /var/chem/msd5.i/5-24apr.b/5042418.d
Level 7: /var/chem/msd5.i/5-24apr.b/5042419.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.55099	2.26666	2.13302	1.93866	1.80916	1.93970	14.408
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 24-APR-2008 18:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Cal Date : 25-Apr-2008 09:57 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.65175	2.66596	3.61957	3.38330	3.11572	3.20397	3.10671	12.469
9 Freon 114	+++++	2.03286	2.07870	3.06026	2.81589	2.67780	2.51929	2.53080	16.154
10 Chloromethane	+++++	+++++	1.99632	2.66910	2.48169	2.26860	2.25824	2.33479	10.881
11 Butane	+++++	+++++	0.46720	0.56323	0.52069	0.50107	0.47235	0.50491	7.764
12 1,3-Butadiene	2.68364	1.24930	1.42563	2.03263	1.99948	1.90640	1.82755	1.87495	24.739
13 Vinyl Chloride	+++++	1.53130	1.45895	2.29544	2.11603	2.02012	1.95144	1.89555	17.504
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	0.87840	0.75647	1.17367	1.20731	1.18131	1.16069	1.05964	18.132
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.42579	3.51099	3.39504	3.21805	3.09571	3.12912	13.561

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 24-APR-2008 18:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Cal Date : 25-Apr-2008 09:57 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Chloroethane	+++++	0.80965	0.70216	1.13837	1.02942	0.99913		
	0.96937						0.94135	16.813
20 Trichlorofluoromethane/Fr11	+++++	2.35230	2.64117	3.74397	3.60173	3.41655		
	3.25636						3.16868	17.471
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Ethanol	+++++	+++++	0.53043	0.86770	0.86700	0.75735		
	0.72053						0.74860	18.494
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 24-APR-2008 13:56
End Cal Date : 24-APR-2008 18:31
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Cal Date : 25-Apr-2008 09:57 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Freon 113	+++++	1.59753	1.65562	2.28010	2.11527	2.07237		
	1.99259						1.95225	13.819
31 1,1-Dichloroethene	+++++	1.89339	1.95441	2.96826	2.85293	2.75857		
	2.61636						2.50732	18.618
32 Acetone	+++++	+++++	0.79187	1.02568	1.00082	1.01356		
	0.96997						0.96038	10.043
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
35 Carbon Disulfide	+++++	3.50442	3.39393	5.05180	4.82791	4.70780		
	4.47525						4.32685	16.311
36 2-Propanol	+++++	+++++	2.45298	3.87834	3.95950	3.99153		
	3.85675						3.62782	18.168
37 tert-Butyl-Alcohol	+++++	+++++	1.89445	2.34598	2.02399	1.73016		
	1.29692						1.85830	20.809

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
38 3-Chloropropene	+++++	+++++	0.40776	0.86612	0.83706	0.81927	0.79121	0.74428	25.539	
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 Methylene Chloride	+++++	2.17125	1.77048	2.63289	2.46455	2.36073	2.25166	2.27526	12.997	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 MTBE	+++++	1.50269	1.14477	2.77839	2.62016	2.61014	2.39535	2.17525	31.271	<-
47 trans-1,2-Dichloroethene	+++++	1.23473	1.34224	1.94190	1.84917	1.74383	1.68711	1.63316	17.330	

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	2.13256	2.44252	3.90550	3.75261	3.60689	3.43484	3.21249	23.027
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.54792	2.30414	3.49157	3.38363	3.24591	3.10393	3.01285	15.902
56 Vinyl Acetate	+++++	+++++	0.21633	0.47604	0.46702	0.46313	0.45966	0.41643	26.902
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.57054	1.76262	2.59796	2.49411	2.36025	2.26367	2.17486	19.051
67 2-Butanone	+++++	0.39124	0.56473	0.90127	0.85795	0.86355	0.83105	0.73496	28.258

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	3.12236	2.04898	3.08667	2.98625	2.82001	2.73517	2.79990	14.191
72 Chloroform	3.79671	2.43454	1.99490	3.21927	3.04948	2.89534	2.79007	2.88290	19.898
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.60203	1.48208	2.56583	2.48008	2.34492	2.27598	2.12515	21.853
75 1,1,1-Trichloroethane	+++++	2.59165	1.90373	3.05491	2.98910	2.82189	2.70083	2.67702	15.555
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	2.07641	1.63147	2.83501	2.68823	2.61239	2.53549	2.39650	18.949
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++	7.24855	6.55974	11.20063	10.70025	10.31372	9.59083	9.26895	20.695
81 Benzene	1.77995	0.93441	0.89335	1.40203	1.30564	1.25939	1.20260	1.25391	23.838
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2-Dichloroethane	+++++	0.37029	0.35822	0.53913	0.50406	0.48155	0.45413	0.45123	16.179
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.10275	0.11105	0.16131	0.15633	0.14724	0.14362	0.13705	17.753
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.42200	0.36136	0.54488	0.50789	0.48570	0.46779	0.46494	14.021
94 Methyl Cyclohexane	+++++	0.57515	0.51058	0.81870	0.77118	0.73095	0.70658	0.68552	17.305
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.33302	0.30841	0.49807	0.47028	0.44700	0.43003	0.41447	18.465
99 1,4-Dioxane	+++++	+++++	0.19738	0.30839	0.30453	0.28778	0.27612	0.27484	16.451
100 Bromodichloromethane	+++++	0.44096	0.43854	0.74973	0.69860	0.66766	0.64534	0.60680	22.093

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.35708	0.33551	0.55599	0.54965	0.53126		
	0.51941						0.47482	21.193
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.22063	0.22108	0.41191	0.38852	0.38260		
	0.37121						0.33266	26.338
108 Toluene	+++++	0.95590	0.98045	1.46944	1.37141	1.29243		
	1.24848						1.21969	17.133
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
113 trans-1,3-Dichloropropene	+++++	0.35839	0.33336	0.54838	0.56417	0.53521	0.55026	0.48163	21.977
114 1,1,2-Trichloroethane	+++++	0.34807	0.30137	0.51241	0.49192	0.45132	0.44560	0.42511	19.522
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
116 Tetrachloroethene	+++++	0.39536	0.46767	0.64596	0.62702	0.58770	0.58807	0.55196	17.876
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
119 2-Hexanone	+++++	+++++	0.34169	0.53643	0.55892	0.54822	0.56114	0.50928	18.496
120 Dibromochloromethane	+++++	0.44513	0.46481	0.74068	0.72564	0.68286	0.70792	0.62784	21.570
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 1,2-Dibromoethane	0.94638	0.47758	0.51462	0.79651	0.77738	0.72873	0.73410	0.71076	23.048
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.78396	0.81168	1.19936	1.13646	1.06827	1.07096	1.01178	17.083
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl Benzene	+++++	0.39688	0.43686	0.66089	0.65065	0.61255	0.59948	0.55955	20.296
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.47090	0.54238	0.83373	0.80773	0.75893	0.76066	0.69572	21.690
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.48149	0.48141	0.77972	0.75810	0.70358	0.69827	0.65043	20.688

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133 Styrene	1.26494	0.67856	0.70280	1.21935	1.20021	1.13989	1.12924	1.04786	23.708
134 Bromoform	+++++	0.47281	0.38311	0.69206	0.70268	0.67871	0.68286	0.60204	22.929
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Cumene	2.51615	1.41128	1.50925	2.28295	2.20880	2.09577	1.63719	1.95163	21.959
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.79632	0.79917	1.10121	1.06443	1.01446	0.97450	0.95835	13.738
142 Propylbenzene	+++++	1.72459	1.76470	2.57632	2.57292	2.41591	1.97137	2.17097	18.310
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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144 4-Ethyltoluene	+++++	1.39175	1.54045	2.37218	2.42153	2.27393	1.80049	1.96672	22.802
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	2.11823	1.26866	1.34535	2.08359	2.03283	1.94078	1.46101	1.75006	21.408
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	1.60994	0.98072	1.09745	1.69185	1.67993	1.61865	1.60198	1.46865	20.248
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
155 1,3-Dichlorobenzene	+++++	0.84053	0.87148	1.13219	1.11736	1.07281	1.08433	1.01978	12.654	
156 1,4-Dichlorobenzene	+++++	1.00233	1.08949	1.43149	1.45097	1.39977	1.33115	1.28420	14.874	
157 alpha-Chlorotoluene	+++++	0.81198	1.05023	1.69854	1.84875	1.92279	1.33727	1.44493	31.316	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
159 1,2-Dichlorobenzene	+++++	0.84670	1.02235	1.12726	1.12945	1.09132	1.05909	1.04603	10.124	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++			
163 1,2,4-Trichlorobenzene	+++++	+++++	0.85576	0.70648	0.75774	0.74671	0.77987	0.76931	7.172	

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Cal Date : 25-Apr-2008 09:57 sscott
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.51444	0.52054	0.52223	0.50424		
	0.53372						0.51903	2.085
165 Naphthalene	+++++	+++++	2.74543	2.50445	2.88705	2.81975		
	1.36545						2.46443	25.609
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
193 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.29246	1.13364	1.27531	1.28494	1.25825		
	1.36905						1.26895	6.032
$ 107 Toluene-d8	+++++	0.96474	0.91332	0.96077	0.97210	0.93754		
	0.95171						0.95003	2.270
$ 138 Bromofluorobenzene	+++++	0.59686	0.59255	0.61523	0.61442	0.60310		
	0.62004						0.60703	1.834

Calibration History

Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Start Cal Date: 24-APR-2008 13:56
End Cal Date : 24-APR-2008 18:31

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
24-APR-2008 13:56	AFCEElow	/var/chem/msd5.i/5-24apr.b/5042413.d
Cal Level: 2 , Cal Amount: 0.50000		
24-APR-2008 14:23	AT08Low	/var/chem/msd5.i/5-24apr.b/5042414.d
Cal Level: 3 , Cal Amount: 2.00000		
24-APR-2008 18:31	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042421.d
Cal Level: 4 , Cal Amount: 25.00000		
24-APR-2008 15:19	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042416.d
Cal Level: 5 , Cal Amount: 50.00000		
24-APR-2008 15:47	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042417.d
Cal Level: 6 , Cal Amount: 100.00000		
24-APR-2008 16:15	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042418.d
Cal Level: 7 , Cal Amount: 200.00000		
24-APR-2008 16:48	AT08mdl	/var/chem/msd5.i/5-24apr.b/5042419.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
24-APR-2008 15:47 | AT08mdl | /var/chem/msd5.i/5-24apr.b/5042417a.d
Ccal Level: 5 , Ccal Amount: 50.000
24-APR-2008 15:47 | AT08mdl | /var/chem/msd5.i/5-24apr.b/5042417.d

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MSD-5

Logbook #: 1637

0058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	23.52
75	30.0 – 60.0% of mass 95	41.44
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.34
173	Less than 2.0% of mass 174	(0.65)[1]
174	Greater than 50.0% of mass 95	80.24
175	5.0 – 9.0% of mass 174	(7.03)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.02)[1]
177	5.0 – 9.0% of mass 176	(6.23)[2]

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

BFB Injection Date: 5042412

BFB Injection Time: 1323

BFB File ID: 5042412

Tekmar Purge Flow: 13.3 ml/min

Vacuum: 6.5e+06

IS/S Std.#:	1541-103	Exp. Date: 7-4-08
BCM	296697	
1,4-DFB	1234462	
CB-d5	1186736	

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

Verify 176/174 m/z Ratio: (95284 / 99372) x 100 = 96.019

NOAH Cart #: 11/8 **File #:** 5042408 / 5042424

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1200024\ )}{(\ 1234462\ )} \times \frac{(\ 25.0\ )}{(\ 0.95003\ )} =$ 25.581

File ID:	5042417
Compound:	Toluene-d8
Initials:	KR

Reported Result 25.581

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5042412	BFB Tune Check	1470-239	30 psig	20 µl	1.00	4/24/08	1323	SG	
2	✓	13	ICAL Level 1	1612-1	0.3 ppbv	0.3 ml			1356	SG	
3	✓	14	2		0.5 ppbv	0.5 ml			1423	SG	
4	X	15	3		20 ppbv	20 ml			1451	KR	
5	✓	16	4		25 ppbv	25 ml			1519	KR	
6	✓	17	5		50 ppbv	50 ml			1547	KR	
7	✓	18	6		100 ppbv	100 ml			1615	KR	
8	✓	19	7		200 ppbv	200 ml			1648	KR	
9	✓	20	System Blank	12944	Humid	200 ml			1720	KR	

Signature

4-24-08
Date

@ Air Toxics Ltd. **MSD-5** Logbook #: 1637

10	✓	5042421	ICAL Level 3	1612-1	2.0ppbv	2.0mL	1.00	4/24/08	1831	KR	
11	✓	22	LCS (200ppbv)	1576338	50ppbv	50mL	1.00		1922	KR	ICAL LCS
12	X	23	System Blank	12941	Humid	200mL	1.00		2034	KR	
13	✓	24	Lab Blank	↓	↓	↓	↓		2136	KR	Cart Cert #8, leg 1
14	✓	25	0804306A - 01AA	1359	4.5"Hg 15psi	75mL	6.35		2230	KR	RR 45mL
15	X	26	-02A	SC24	2.5"Hg 15psi	16mL	2.20		2258	KR	RR 10mL
16	✓	27	-01A	1359	4.5"Hg 15psi	45mL	10.6		2357	OM/ss	
17	✓	28	-02A	SC24	2.5"Hg 15psi	10mL	44.0	4/25/08	0028	OM/ss	
18	✓	29	-03A	1368	5.5"Hg	200mL	2.47		0101	OM/ss	
19	✓	30	-04A	SC12	8.5"Hg		2.82		0133	OM/ss	
20	✓	31	-05A	2208	5.0"Hg	↓	2.42		0206	OM/ss	
21	✓	32	-06A	9469	4.0"Hg	15mL	31.1		0233	OM/ss	
22	✓	33	-07A	1457	5.0"Hg	200mL	2.42		0306	OM/ss	
23	✓	34	-09A	13897	28.5"Hg	↓	1.00		0339	OM/ss	trip blank
24	✓	5042435	0804051A 05A	[illegible]	4.0"Hg 15psi	200mL	2.33	4/25/08	0805	ss	
25											
26											
27											
28											
29										OM 4/25/08	
30											
31											
32											

Comments: Flow Controller SN# AA920318 Actual: 25.0 ml/min

NIST Flow meter SN 2007744 Nominal: 22.6 ml/min

[signature] Signature

4/24/08 Date

0059

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 4/24/2008. As noted on the accompanying analytical run log, the following point, ICAL Level 3, was re-analyzed due to:

a. anomalous unacceptable linearity for Methyl tert-Butyl Ether, 2-Butanone, Chloroform, Benzene, Styrene, Cumene, 1,3,5-Trimethylbenzene and alpha-Chlorotoluene.

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

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15

Internal Standard and Associated Target Compounds and Surrogates

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042422.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 24-APR-2008 19:22
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1576-338
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:10 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.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	331589	25.0000			70.00- 130.00	100.00
8.059	8.059 (1.000)	128	256337				47.51- 107.51	77.31
8.059	8.059 (1.000)	49	602288				158.47- 218.47	181.64
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1351053	25.0000			70.00- 130.00	100.00
9.911	9.912 (1.000)	88	192850				0.00- 44.75	14.27
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1255534	25.0000			70.00- 130.00	100.00
14.999	14.999 (1.000)	82	613156				0.00- 30.00	48.84
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	396044	23.5310	23.531		70.00- 130.00	100.00
9.110	9.137 (1.130)	67	237937				0.00- 30.00	60.08
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1238972	24.1319	24.132		70.00- 130.00	100.00
12.676	12.704 (1.279)	70	118132				0.00- 30.00	9.53

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	863921			0.00- 30.00	69.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	777354	25.4987	25.499	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	999529			98.07- 158.07	128.58
16.575	16.575 (1.105)	176	748102			65.46- 125.46	96.24
6 Propylene					CAS #: 115-07-1		
2.253	2.280 (0.280)	41	1501366	58.3569	58.357	70.00- 130.00	100.00
2.253	2.280 (0.280)	42	981130			0.00- 30.00	65.35
2.253	2.280 (0.280)	39	1049981			0.00- 30.00	69.94
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2188824	53.1190	53.119	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	715403			0.00- 30.00	32.68
9 Freon 114					CAS #: 76-14-2		
2.446	2.474 (0.304)	135	1940441	57.8073	57.807	70.00- 130.00	100.00
2.446	2.474 (0.304)	137	610608			2.03- 62.03	31.47
10 Chloromethane					CAS #: 74-87-3		
2.584	2.640 (0.321)	50	1682776	54.3398	54.340	70.00- 130.00	100.00
2.584	2.640 (0.321)	52	479349			0.00- 30.00	28.49
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.778 (0.341)	62	1479192	58.8342	58.834	70.00- 130.00	100.00
2.750	2.778 (0.341)	64	440380			0.00- 30.00	29.77
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	1328688	53.4286	53.428	70.00- 130.00	100.00
2.750	2.778 (0.341)	39	1646858			0.00- 30.00	123.95
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	816130	58.0684	58.068	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	771726			62.86- 122.86	94.56
19 Chloroethane					CAS #: 75-00-3		
3.386	3.442 (0.420)	64	734549	58.8314	58.831	70.00- 130.00	100.00
3.386	3.442 (0.420)	49	229784			0.00- 30.00	31.28
3.386	3.442 (0.420)	66	231068			0.00- 30.00	31.46
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.746 (0.461)	101	2408013	57.2955	57.295	70.00- 130.00	100.00
3.718	3.746 (0.461)	103	1574807			33.46- 93.46	65.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.133 (0.506)	45	612260	61.6631	61.663	70.00- 130.00	100.00
4.077	4.133 (0.506)	43	117827			0.00- 30.00	19.24
4.077	4.133 (0.506)	46	244574			0.00- 30.00	39.95
30 Freon 113					CAS #: 76-13-1		
4.520	4.548 (0.561)	151	1640606	63.3591	63.359	70.00- 130.00	100.00
4.520	4.548 (0.561)	153	1061988			33.20- 93.20	64.73
4.520	4.548 (0.561)	101	2190742			106.78- 166.78	133.53
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2110296	63.4562	63.456	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1195787			23.41- 83.41	56.66
4.575	4.575 (0.568)	98	751299			4.01- 64.01	35.60
32 Acetone					CAS #: 67-64-1		
4.713	4.741 (0.585)	58	693397	54.4350	54.435	70.00- 130.00	100.00
4.713	4.741 (0.585)	43	2347609			0.00- 30.00	338.57
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	2771921	57.6069	57.607	70.00- 130.00	100.00
4.907	4.935 (0.609)	43	639999			0.00- 30.00	23.09
4.935	4.935 (0.612)	59	90037			0.00- 30.00	3.25
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.935 (0.609)	76	3263951	56.8737	56.874	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.211 (0.643)	76	576722	58.4210	58.421	70.00- 130.00	100.00
5.183	5.211 (0.643)	41	2265985			0.00- 30.00	392.91
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1772014	58.7187	58.719	70.00- 130.00	100.00
5.432	5.460 (0.674)	84	1028336			26.74- 86.74	58.03
5.432	5.460 (0.674)	51	549037			0.00- 30.00	30.98
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1797365	62.2970	62.297	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	537907			0.00- 59.41	29.93
5.764	5.764 (0.715)	41	606240			0.00- 30.00	33.73
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1232976	56.9201	56.920	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	1925292			130.65- 190.65	156.15
5.819	5.819 (0.722)	98	766450			0.00- 30.00	62.16

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	2479052	58.1814	58.181	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	1863890			0.00- 30.00	75.19
6.151	6.151 (0.763)	86	367075			0.00- 30.00	14.81
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	312699	56.6136	56.614	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	4150559			0.00- 30.00	1327.33
6.649	6.649 (0.825)	42	313026			0.00- 30.00	100.10
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2287723	57.2487	57.249	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	700142			0.00- 59.62	30.60
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	581995	59.7027	59.703	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	3136421			533.62- 593.62	538.91
7.644	7.644 (0.949)	57	212445			0.00- 30.00	36.50
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1615757	56.0125	56.012	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1180723			42.00- 102.00	73.08
7.617	7.617 (0.945)	98	770418			15.56- 75.56	47.68
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1853020	49.8973	49.897	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	496644			0.00- 56.55	26.80
8.031	8.031 (0.997)	72	578454			0.00- 30.00	31.22
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1962704	51.3292	51.329	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1266070			35.57- 95.57	64.51
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1875433	52.8190	52.819	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	1201320			34.21- 94.21	64.06
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.419 (1.045)	84	1571870	55.7656	55.766	70.00- 130.00	100.00
8.418	8.419 (1.045)	56	2309787			117.94- 177.94	146.95
8.418	8.419 (1.045)	41	1349350			54.92- 114.92	85.84
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1729266	54.4032	54.403	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1767130			74.41- 134.41	102.19

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	6763489	55.0149	55.015	70.00- 130.00	100.00
9.082	9.110 (1.127)	56	2215708			0.00- 30.00	32.76
9.082	9.110 (1.127)	41	1785312			0.00- 30.00	26.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3452029	50.9419	50.942	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	807997			0.00- 30.00	23.41
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1332609	54.6477	54.648	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	403024			0.00- 30.00	30.24
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	429408	57.9773	57.977	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	2845947			0.00- 30.00	662.76
9.469	9.469 (0.955)	71	1240380			0.00- 30.00	288.86
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1330615	52.9574	52.957	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1368069			70.08- 130.08	102.81
10.326	10.326 (1.042)	97	872410			35.30- 95.30	65.56
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.852 (1.092)	63	1206440	53.8619	53.862	70.00- 130.00	100.00
10.824	10.852 (1.092)	62	838099			41.10- 101.10	69.47
10.824	10.852 (1.092)	41	796076			36.18- 96.18	65.99
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	760792	51.2217	51.222	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	594446			47.45- 107.45	78.14
11.073	11.073 (1.117)	57	189225			0.00- 30.00	24.87
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1818101	55.4417	55.442	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	1169331			34.05- 94.05	64.32
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1410863	54.9828	54.983	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	453184			1.82- 61.82	32.12
12.289	12.317 (1.240)	39	932797			36.40- 96.40	66.12
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.594 (1.271)	58	1020712	56.7766	56.776	70.00- 130.00	100.00
12.593	12.594 (1.271)	43	2973888			0.00- 30.00	291.35
12.593	12.594 (1.271)	85	387521			0.00- 30.00	37.97

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	3651425	55.3965	55.396	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2140020			27.75- 87.75	58.61
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1369740	56.6289	56.629	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	445466			2.38- 62.38	32.52
13.340	13.368 (0.889)	39	929200			35.96- 95.96	67.84
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1160208	54.3428	54.343	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	754821			33.83- 93.83	65.06
13.644	13.644 (0.910)	83	970858			52.70- 112.70	83.68
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.700 (0.913)	166	1558346	56.2167	56.217	70.00- 130.00	100.00
13.672	13.700 (0.912)	129	1147833			44.73- 104.73	73.66
13.699	13.700 (0.913)	131	1110599			40.60- 100.60	71.27
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1418073	55.4439	55.444	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	2882593			181.71- 241.71	203.28
14.004	14.004 (0.934)	100	265430			0.00- 30.00	18.72
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1793150	56.8695	56.870	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	1397788			0.00- 30.00	77.95
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1827951	51.2100	51.210	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	1742982			65.00- 125.00	95.35
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2766941	54.4534	54.453	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	894424			2.42- 62.42	32.33
15.027	15.027 (1.002)	77	1534400			27.34- 87.34	55.45
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1565115	55.6953	55.695	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	4622099			0.00- 30.00	295.32
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1960833	56.1199	56.120	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	3721181			0.00- 30.00	189.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1819294	55.6949	55.695	70.00- 130.00	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	3660830			170.15- 230.15	201.22
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	2931227	55.7004	55.700	70.00- 130.00	100.00
15.911	15.912 (1.061)	78	1274197			13.62- 73.62	43.47
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1718733	56.8452	56.845	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	891098			22.36- 82.36	51.85
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2575821	53.5184	53.518	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1661047			36.19- 96.19	64.49
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5650417	57.2070	57.207	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	1733895			0.17- 60.17	30.69
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4853979	55.2275	55.228	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	2492259			0.00- 30.00	51.34
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3966816	53.7820	53.782	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	1931371			17.48- 77.48	48.69
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2749774	53.6909	53.691	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	1768031			0.00- 30.00	64.30
17.764	17.764 (1.184)	111	1078980			0.00- 30.00	39.24
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3509232	54.4114	54.411	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2205151			0.00- 30.00	62.84
17.847	17.847 (1.190)	111	1290286			0.00- 30.00	36.77
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4578753	63.0975	63.098	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1021388			0.00- 30.00	22.31
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2713296	51.6494	51.649	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	1744720			32.26- 92.26	64.30
18.206	18.206 (1.214)	111	1007933			7.92- 67.92	37.15

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	19.478 (1.300)	180	1856820	48.0595	48.060	70.00- 130.00	100.00
19.506	19.478 (1.300)	182	1733882			63.09- 123.09	93.38
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1235747	47.4073	47.407	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	767698			32.88- 92.88	62.12
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6158985	56.4894	56.489	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	1467611			0.00- 30.00	23.83
16.824	16.824 (1.122)	105	225979			0.00- 30.00	3.67
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5437672	55.4789	55.479	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1545766			0.00- 30.00	28.43
16.326	16.326 (1.088)	51	603564			0.00- 30.00	11.10
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6993033	56.5017	56.502	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	870934			0.00- 30.00	12.45
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.571 (0.691)	59	1352031	54.8543	54.854	70.00- 130.00	100.00
5.570	5.571 (0.691)	41	403229			0.00- 30.00	29.82
5.570	5.571 (0.691)	57	130878			0.00- 30.00	9.68
11 Butane					CAS #: 106-97-8		
2.667	2.695 (0.331)	58	365901	54.6376	54.638	70.00- 130.00	100.00
2.667	2.695 (0.331)	43	3031457			0.00- 30.00	828.49
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2287263	55.1105	55.110	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1324654			0.00- 30.00	57.91
3.414	3.414 (0.424)	72	121895			0.00- 30.00	5.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.548 (1.064)	83	2017061	54.4459	54.446	70.00- 130.00	100.00
10.547	10.548 (1.064)	98	995005			0.00- 30.00	49.33
10.547	10.548 (1.064)	55	1888579			0.00- 30.00	93.63

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042422.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	331589	11.76
92 1,4-Difluorobenze	1234462	740677	1728247	1351053	9.44
125 Chlorobenzene-d5	1186736	712042	1661430	1255534	5.80

		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: 25-Apr-2008 09:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-24apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	53.119	106.24	70-130
9 Freon 114	50.000	57.807	115.61	70-130
10 Chloromethane	50.000	54.340	108.68	70-130
13 Vinyl Chloride	50.000	58.834	117.67	70-130
12 1,3-Butadiene	50.000	53.428	106.86	60-140
15 Bromomethane	50.000	58.068	116.14	70-130
19 Chloroethane	50.000	58.831	117.66	70-130
20 Trichlorofluoromet	50.000	57.295	114.59	70-130
26 Ethanol	50.000	61.663	123.33	60-140
30 Freon 113	50.000	63.359	126.72	70-130
31 1,1-Dichloroethene	50.000	63.456	126.91	70-130
35 Carbon Disulfide	50.000	56.874	113.75	60-140
32 Acetone	50.000	54.435	108.87	60-140
36 2-Propanol	50.000	57.607	115.21	60-140
38 3-Chloropropene	50.000	58.421	116.84	60-140
43 Methylene Chloride	50.000	58.719	117.44	70-130
46 MTBE	50.000	62.297	124.59	60-140
47 trans-1,2-Dichloro	50.000	56.920	113.84	60-140
51 Hexane	50.000	58.181	116.36	60-140
55 1,1-Dichloroethane	50.000	57.249	114.50	70-130
66 cis-1,2-Dichloroet	50.000	56.012	112.03	70-130
67 2-Butanone	50.000	59.703	119.41	60-140
70 Tetrahydrofuran	50.000	49.897	99.79	60-140
72 Chloroform	50.000	51.329	102.66	70-130
74 Cyclohexane	50.000	55.766	111.53	60-140
75 1,1,1-Trichloroeth	50.000	52.819	105.64	70-130
56 Vinyl Acetate	50.000	56.614	113.23	60-140
77 Carbon Tetrachlori	50.000	54.403	108.81	70-130
80 2,2,4-Trimethylpen	50.000	55.015	110.03	60-140
81 Benzene	50.000	50.942	101.88	70-130
85 1,2-Dichloroethane	50.000	54.648	109.30	70-130
90 Heptane	50.000	57.977	115.95	60-140
93 Trichloroethene	50.000	52.957	105.91	70-130

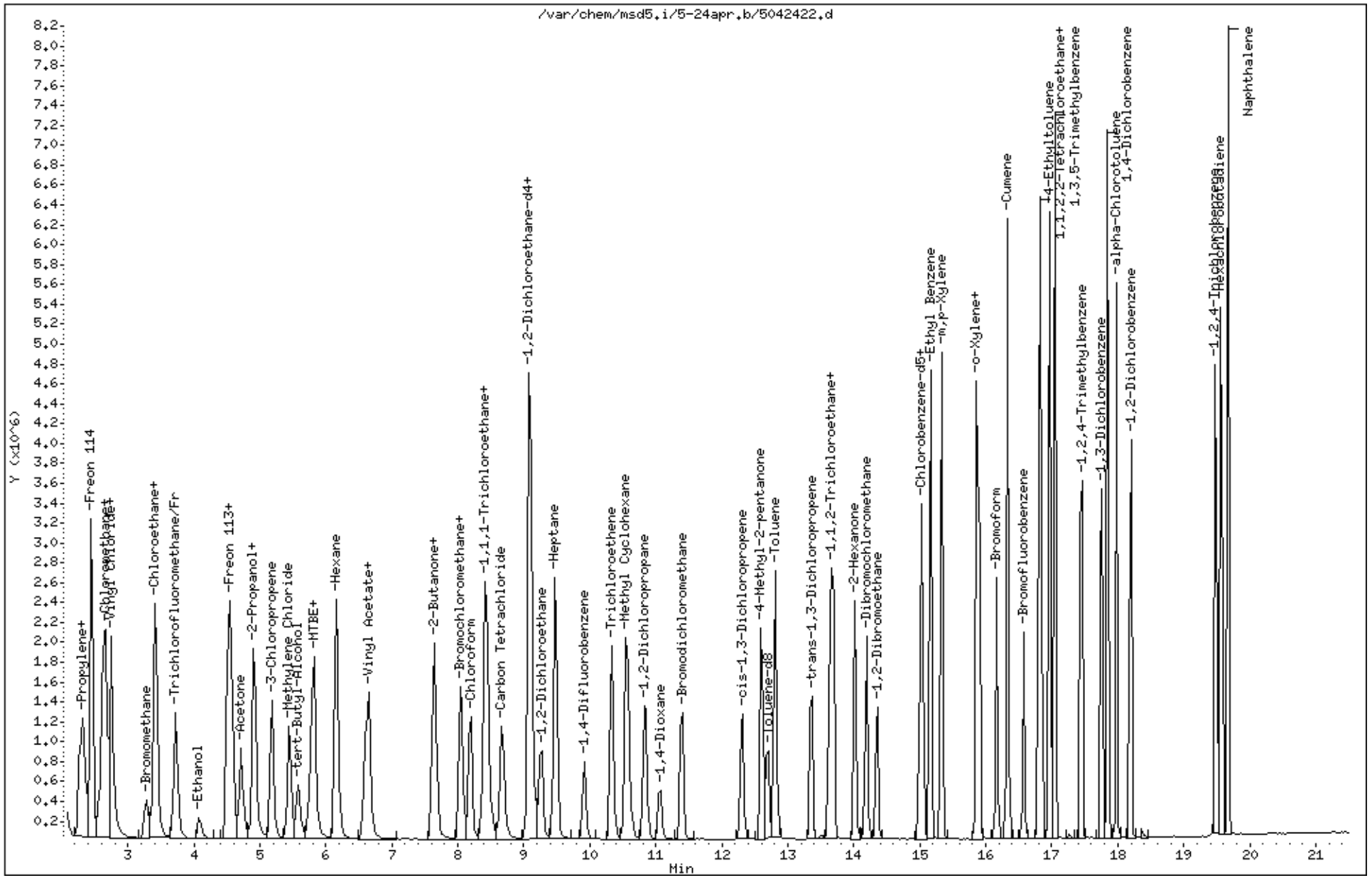
	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98	1,2-Dichloropropan	50.000	53.862	107.72	70-130
99	1,4-Dioxane	50.000	51.222	102.44	60-140
100	Bromodichlorometha	50.000	55.442	110.88	60-140
103	cis-1,3-Dichloropr	50.000	54.983	109.97	70-130
106	4-Methyl-2-pentano	50.000	56.776	113.55	60-140
108	Toluene	50.000	55.396	110.79	70-130
113	trans-1,3-Dichloro	50.000	56.629	113.26	70-130
114	1,1,2-Trichloroeth	50.000	54.343	108.69	70-130
116	Tetrachloroethene	50.000	56.217	112.43	70-130
119	2-Hexanone	50.000	55.444	110.89	60-140
120	Dibromochlorometha	50.000	56.870	113.74	60-140
122	1,2-Dibromoethane	50.000	51.210	102.42	70-130
126	Chlorobenzene	50.000	54.453	108.91	70-130
128	Ethyl Benzene	50.000	55.695	111.39	70-130
130	m,p-Xylene	50.000	56.120	112.24	70-130
132	o-Xylene	50.000	55.695	111.39	70-130
133	Styrene	50.000	55.700	111.40	70-130
134	Bromoform	50.000	56.845	113.69	60-140
136	Cumene	50.000	55.479	110.96	60-140
141	1,1,2,2-Tetrachlor	50.000	53.518	107.04	70-130
142	Propylbenzene	50.000	56.489	112.98	60-140
144	4-Ethyltoluene	50.000	57.207	114.41	60-140
147	1,3,5-Trimethylben	50.000	55.228	110.46	70-130
152	1,2,4-Trimethylben	50.000	53.782	107.56	70-130
155	1,3-Dichlorobenzen	50.000	53.691	107.38	70-130
156	1,4-Dichlorobenzen	50.000	54.411	108.82	70-130
157	alpha-Chlorotoluen	50.000	63.098	126.20	70-130
159	1,2-Dichlorobenzen	50.000	51.649	103.30	70-130
163	1,2,4-Trichloroben	50.000	48.060	96.12	70-130
164	Hexachlorobutadien	50.000	47.407	94.81	70-130
6	Propylene	50.000	58.357	116.71	70-130
165	Naphthalene	50.000	56.502	113.00	60-140
11	Butane	50.000	54.638	109.28	70-130
17	Isopentane	50.000	55.110	110.22	70-130
94	Methyl Cyclohexane	50.000	54.446	108.89	70-130
37	tert-Butyl-Alcohol	50.000	54.854	109.71	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84	1,2-Dichloroethane	25.000	23.531	94.12	70-130
$ 107	Toluene-d8	25.000	24.132	96.53	70-130
$ 138	Bromofluorobenzene	25.000	25.499	101.99	70-130

Data File: /var/chem/msd5.i/5-24apr.b/5042422.d
Date : 24-APR-2008 19:22
Client ID: LCS-1
Sample Info: 50mL #1576-338

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042413.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 24-APR-2008 13:56
Operator : ct Inst ID: msd5.i
Smp Info : 0.3mL #1612-1
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:56 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 13:56 Cal File: 5042413.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.087	8.087 (1.000)	130	347911	25.0000		70.00- 130.00	100.00
8.087	8.087 (1.000)	128	272556			47.51- 107.51	78.34
8.059	8.059 (1.000)	49	681188			158.47- 218.47	195.79
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1408281	25.0000		70.00- 130.00	100.00
9.939	9.939 (1.000)	88	206198			0.00- 44.75	14.64
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1340111	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	682751			0.00- 30.00	50.95
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.130)	65	428192	25.0000	24.248	70.00- 130.00	100.00
9.137	9.137 (1.130)	67	231082			0.00- 30.00	53.97
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1331352	25.0000	24.877	70.00- 130.00	100.00
12.704	12.704 (1.278)	70	124186			0.00- 30.00	9.33

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 (1.278)	100	895544			0.00- 30.00	67.27
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	778281	25.0000	23.918	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1052808			98.07- 158.07	135.27
16.575	16.575 (1.105)	176	738882			65.46- 125.46	94.94
12 1,3-Butadiene					CAS #: 106-99-0		
2.806	2.806 (0.347)	54	11204	0.30000	0.4294	70.00- 130.00	100.00
2.806	2.806 (0.347)	39	14982			0.00- 30.00	133.72
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.014)	83	15851	0.30000	0.3951	70.00- 130.00	100.00
8.225	8.225 (1.017)	85	12242			35.57- 95.57	77.23
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.917)	78	30080	0.30000	0.4258	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	6703			0.00- 30.00	22.28
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	20342	0.30000	0.3622	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	7793			13.62- 73.62	38.31
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	40463	0.30000	0.3868	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	9413			0.00- 30.00	23.26
16.326	16.326 (1.088)	51	4243			0.00- 30.00	10.49
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	15219	0.30000	0.3994	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	12601			65.00- 125.00	82.80
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	34064	0.30000	0.3631	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	16125			0.00- 30.00	47.34
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	25890	0.30000	0.3289	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	14157			17.48- 77.48	54.68

Report Date: 25-Apr-2008 09:56

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042413.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	347911	17.26
92 1,4-Difluorobenze	1234462	740677	1728247	1408281	14.08
125 Chlorobenzene-d5	1186736	712042	1661430	1340111	12.92

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

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

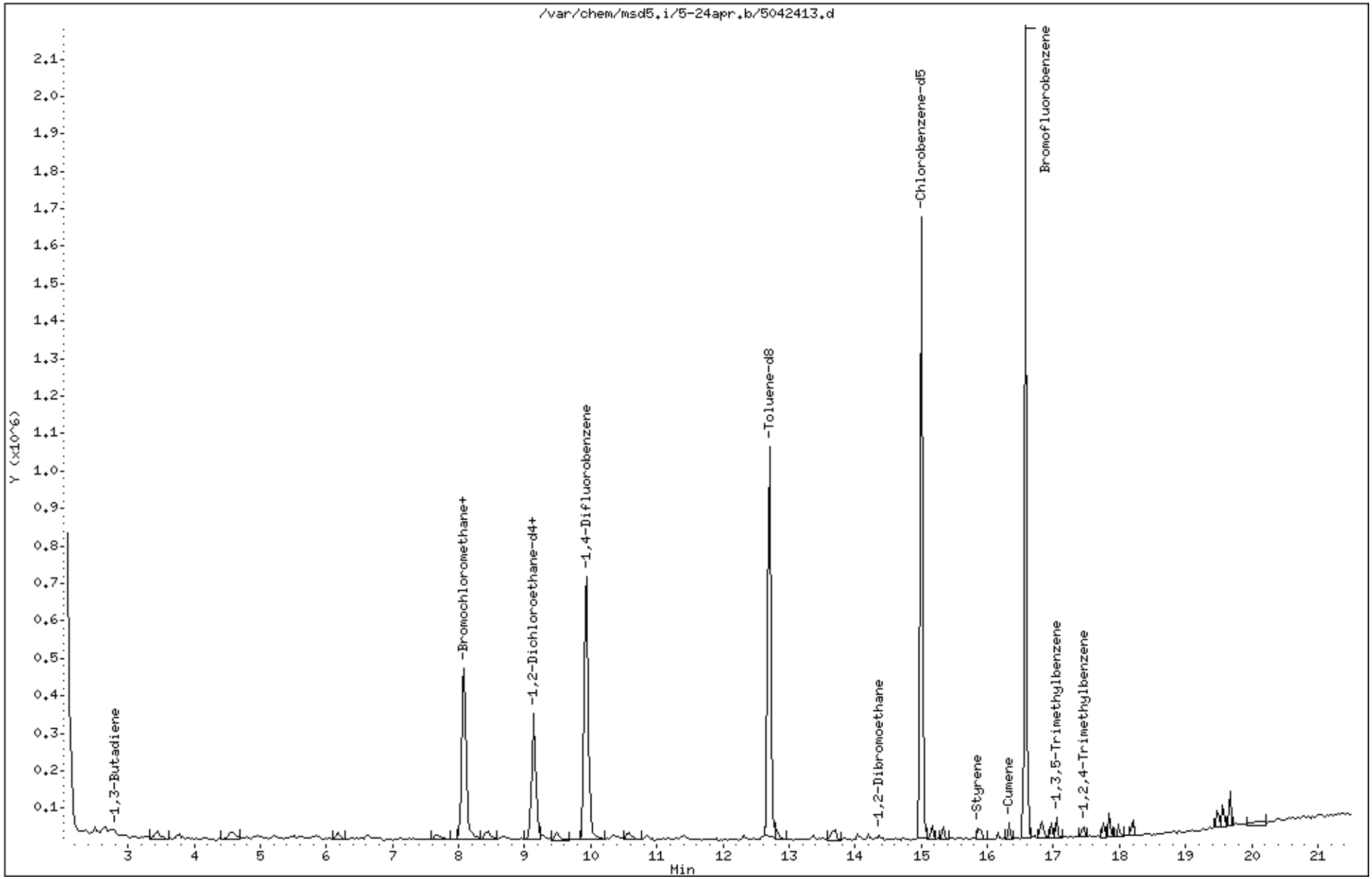
0078

Data File: /var/chem/msd5.i/5-24apr.b/5042413.d
Date : 24-APR-2008 13:56
Client ID: Level 1
Sample Info: 0.3mL #1612-1

Instrument: msd5.i

Operator: ct
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042414.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 24-APR-2008 14:23
Operator : ct Inst ID: msd5.i
Smp Info : 0.5mL #1612-1
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:56 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 14:23 Cal File: 5042414.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	277835	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	217706			47.51- 107.51	78.36
8.059	8.059 (1.000)	49	561450			158.47- 218.47	202.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1146928	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	181619			0.00- 44.75	15.84
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1152362	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	582440			0.00- 30.00	50.54
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	359092	25.0000	25.463	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	192215			0.00- 30.00	53.53
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1106484	25.0000	25.387	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	101230			0.00- 30.00	9.15

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	717757			0.00- 30.00	64.87
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	687794	25.0000	24.581	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	909715			98.07- 158.07	132.27
16.575	16.575 (1.105)	176	646289			65.46- 125.46	93.97
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	14735	0.50000	0.4268	70.00- 130.00	100.00(a)
2.308	2.308 (0.286)	87	5312			0.00- 30.00	36.05
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	11296	0.50000	0.4016	70.00- 130.00	100.00(a)
2.474	2.474 (0.307)	137	4390			2.03- 62.03	38.86
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	8509	0.50000	0.4039	70.00- 130.00	100.00(a)
2.806	2.806 (0.348)	64	2266			0.00- 30.00	26.63
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	6942	0.50000	0.3332	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	12011			0.00- 30.00	173.02
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	4881	0.50000	0.4145	70.00- 130.00	100.00(a)
3.276	3.276 (0.406)	96	4193			62.86- 122.86	85.90
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	4499	0.50000	0.4300	70.00- 130.00	100.00(a)
3.386	3.386 (0.420)	49	1073			0.00- 30.00	23.85
3.442	3.442 (0.427)	66	1478			0.00- 30.00	32.85
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	13071	0.50000	0.3712	70.00- 130.00	100.00(a)
3.746	3.746 (0.465)	103	9023			33.46- 93.46	69.03
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	8877	0.50000	0.4092	70.00- 130.00	100.00(a)
4.520	4.520 (0.561)	153	6357			33.20- 93.20	71.61
4.520	4.520 (0.561)	101	13515			106.78- 166.78	152.25
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	10521	0.50000	0.3776	70.00- 130.00	100.00(a)
4.575	4.575 (0.568)	96	7168			23.41- 83.41	68.13
4.575	4.575 (0.568)	98	4260			4.01- 64.01	40.49

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	19473	0.50000	0.4050	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	12065	0.50000	0.4771	70.00- 130.00	100.00(a)
5.460	5.460 (0.678)	84	6592			26.74- 86.74	54.64
5.460	5.460 (0.678)	51	3946			0.00- 30.00	32.71
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	8350	0.50000	0.3454	70.00- 130.00	100.00(a)
5.764	5.764 (0.715)	57	2440			0.00- 59.41	29.22
5.764	5.764 (0.715)	41	6408			0.00- 30.00	76.74
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	6861	0.50000	0.3780	70.00- 130.00	100.00(a)
5.819	5.819 (0.722)	61	11342			130.65- 190.65	165.31
5.819	5.819 (0.722)	98	4845			0.00- 30.00	70.62
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	11850	0.50000	0.3319	70.00- 130.00	100.00(a)
6.179	6.179 (0.767)	43	12060			0.00- 30.00	101.77
6.151	6.151 (0.763)	86	1332			0.00- 30.00	11.24
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	14158	0.50000	0.4228	70.00- 130.00	100.00(a)
6.621	6.621 (0.822)	65	5303			0.00- 59.62	37.46
67 2-Butanone					CAS #: 78-93-3		
7.727	7.727 (0.959)	72	2174	0.50000	0.2662	70.00- 130.00	100.00(Ta)
7.727	7.727 (0.959)	43	13273			533.62- 593.62	610.53
0.000	1.000 (0.000)	57	0			0.00- 30.00	0.00
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	8727	0.50000	0.3611	70.00- 130.00	100.00(a)
7.644	7.644 (0.949)	96	8736			42.00- 102.00	100.10
7.617	7.617 (0.945)	98	4499			15.56- 75.56	51.55
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	17350	0.50000	0.5576	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	3685			0.00- 56.55	21.24
8.059	8.059 (1.000)	72	5090			0.00- 30.00	29.34
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	13528	0.50000	0.4222	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	8999			35.57- 95.57	66.52

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	14401	0.50000	0.4840	70.00- 130.00	100.00(a)
8.446	8.446 (1.048)	99	8817			34.21- 94.21	61.22
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	8902	0.50000	0.3769	70.00- 130.00	100.00(a)
8.419	8.419 (1.045)	56	13184			117.94- 177.94	148.10
8.391	8.391 (1.041)	41	12303			54.92- 114.92	138.20
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	11538	0.50000	0.4332	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	10755			74.41- 134.41	93.21
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	40278	0.50000	0.3910	70.00- 130.00	100.00(a)
9.082	9.082 (1.127)	56	14695			0.00- 30.00	36.48
9.082	9.082 (1.127)	41	10179			0.00- 30.00	25.27
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.919)	78	21434	0.50000	0.3726	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4787			0.00- 30.00	22.33
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	8494	0.50000	0.4103	70.00- 130.00	100.00(a)
9.276	9.276 (0.936)	64	3903			0.00- 30.00	45.95
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	2357	0.50000	0.3749	70.00- 130.00	100.00(a)
9.497	9.497 (0.958)	43	18119			0.00- 30.00	768.73
9.497	9.497 (0.958)	71	6780			0.00- 30.00	287.65
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	9680	0.50000	0.4538	70.00- 130.00	100.00(a)
10.354	10.354 (1.045)	130	11025			70.08- 130.08	113.89
10.326	10.326 (1.042)	97	6050			35.30- 95.30	62.50
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	7639	0.50000	0.4017	70.00- 130.00	100.00(a)
10.852	10.852 (1.095)	62	5930			41.10- 101.10	77.63
10.852	10.852 (1.095)	41	8538			36.18- 96.18	111.77
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	10115	0.50000	0.3633	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	6880			34.05- 94.05	68.02
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	8191	0.50000	0.3760	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.289	12.289 (1.240)	77	3322			1.82- 61.82	40.56
12.289	12.289 (1.240)	39	8231			36.40- 96.40	100.49
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	5061	0.50000	0.3316	70.00- 130.00	100.00(a)
12.621	12.621 (1.273)	43	14619			0.00- 30.00	288.86
12.621	12.621 (1.273)	85	1358			0.00- 30.00	26.83
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	21927	0.50000	0.3919	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	12865			27.75- 87.75	58.67
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	8260	0.50000	0.3721	70.00- 130.00	100.00(a)
13.368	13.368 (0.891)	77	2948			2.38- 62.38	35.69
13.368	13.368 (0.891)	39	6149			35.96- 95.96	74.44
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	8022	0.50000	0.4094	70.00- 130.00	100.00(a)
13.644	13.644 (0.910)	99	5555			33.83- 93.83	69.25
13.644	13.644 (0.910)	83	6649			52.70- 112.70	82.88
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	9112	0.50000	0.3581	70.00- 130.00	100.00(a)
13.700	13.700 (0.913)	129	8860			44.73- 104.73	97.23
13.700	13.700 (0.913)	131	7599			40.60- 100.60	83.40
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	10259	0.50000	0.3545	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	8062			0.00- 30.00	78.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	11007	0.50000	0.3360	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	12260			65.00- 125.00	111.38
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	18068	0.50000	0.3874	70.00- 130.00	100.00(a)
15.027	15.027 (1.002)	114	6582			2.42- 62.42	36.43
14.999	14.999 (1.000)	77	19212			27.34- 87.34	106.33
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	9147	0.50000	0.3546	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	27710			0.00- 30.00	302.94
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	10853	0.50000	0.3384	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	23146			0.00- 30.00	213.27
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	11097	0.50000	0.3701	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	23614			170.15- 230.15	212.80
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	15639	0.50000	0.3238	70.00- 130.00	100.00(a)
15.912	15.912 (1.061)	78	7243			13.62- 73.62	46.31
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	10897	0.50000	0.3927	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	4351			22.36- 82.36	39.93
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	18353	0.50000	0.4155	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	10987			36.19- 96.19	59.86
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	32076	0.50000	0.3538	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	10605			0.17- 60.17	33.06
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	29239	0.50000	0.3624	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	13512			0.00- 30.00	46.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	22603	0.50000	0.3339	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	11788			17.48- 77.48	52.15
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	19372	0.50000	0.4121	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	11946			0.00- 30.00	61.67
17.764	17.764 (1.184)	111	7757			0.00- 30.00	40.04
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	23101	0.50000	0.3902	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	16561			0.00- 30.00	71.69
17.847	17.847 (1.190)	111	8938			0.00- 30.00	38.69
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	18714	0.50000	0.2810	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	4078			0.00- 30.00	21.79
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	19514	0.50000	0.4047	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	13947			32.26- 92.26	71.47
18.206	18.206 (1.214)	111	8507			7.92- 67.92	43.59
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	39747	0.50000	0.3972	70.00- 130.00	100.00(a)
16.824	16.824 (1.122)	120	8834			0.00- 30.00	22.23
16.824	16.824 (1.122)	105	1916			0.00- 30.00	4.82
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	32526	0.50000	0.3616	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	8088			0.00- 30.00	24.87
16.326	16.326 (1.088)	51	4145			0.00- 30.00	12.74
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	13193	0.50000	0.4195	70.00- 130.00	100.00(a)
10.575	10.575 (1.067)	98	7591			0.00- 30.00	57.54
10.548	10.548 (1.064)	55	15298			0.00- 30.00	115.96

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042414.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	277835	-6.36
92 1,4-Difluorobenze	1234462	740677	1728247	1146928	-7.09
125 Chlorobenzene-d5	1186736	712042	1661430	1152362	-2.90

		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.

Data File: /var/chem/msd5.i/5-24apr.b/5042414.d

Date : 24-APR-2008 14:23

Client ID: Level 2

Sample Info: 0.5mL #1612-1

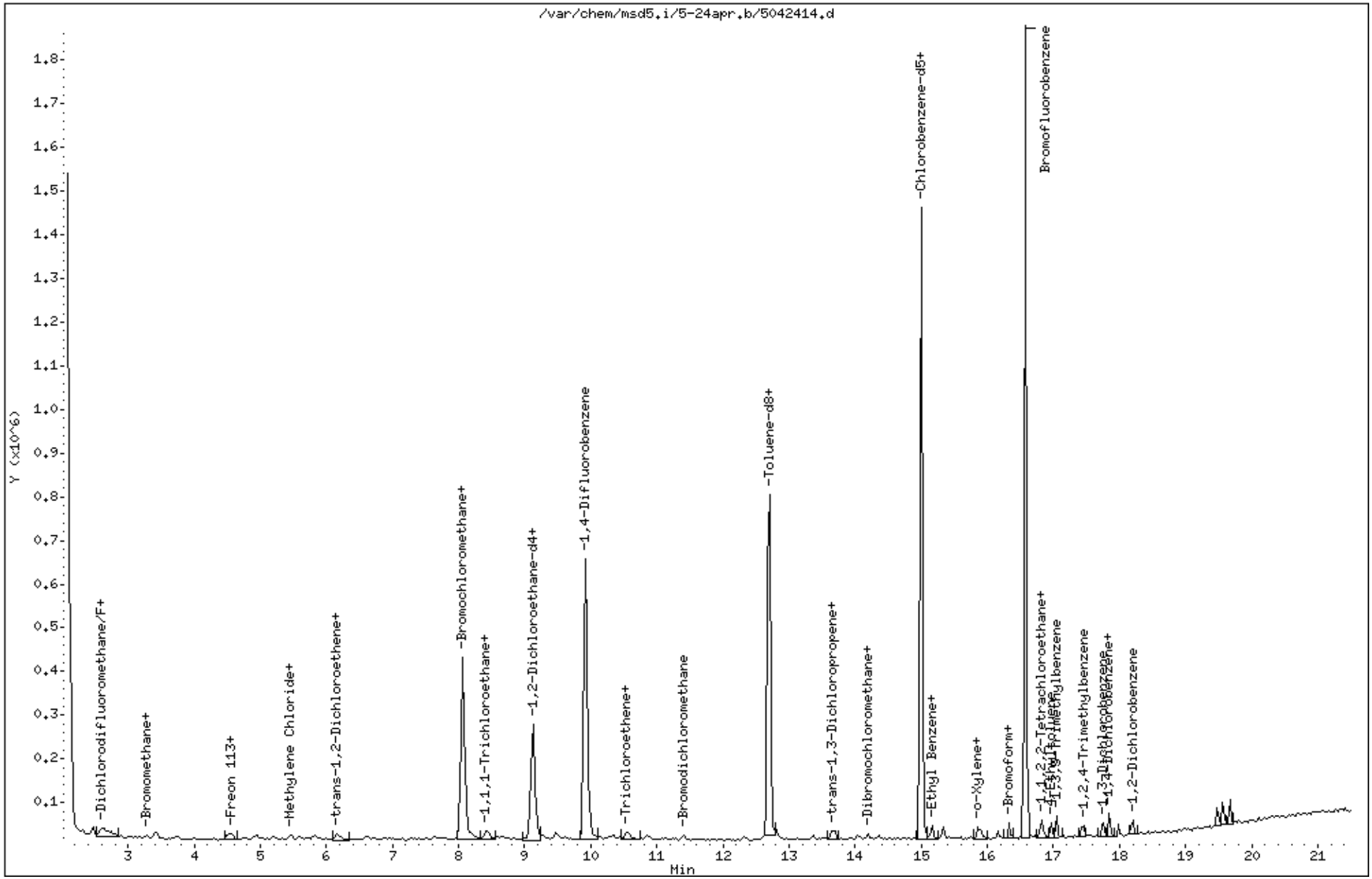
Column phase: RTx-624

Instrument: msd5.i

Operator: ct

Column diameter: 0.53

0087



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042421.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 24-APR-2008 18:31
Operator : kr Inst ID: msd5.i
Smp Info : 2.0mL #1612-1
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 18:31 Cal File: 5042421.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	316701	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	241810			47.51- 107.51		76.35
8.059	8.059 (1.000)	49	585510			158.47- 218.47		184.88
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1264461	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	187922			0.00- 44.75		14.86
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1173690	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	576977			0.00- 30.00		49.16
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	359025	25.0000	22.334	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	206220			0.00- 30.00		57.44
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1154854	25.0000	24.034	70.00- 130.00		100.00
12.704	12.704 (1.282)	70	100616			0.00- 30.00		8.71

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	760885			0.00- 30.00	65.89
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	695467	25.0000	24.403	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	911131			98.07- 158.07	131.01
16.575	16.575 (1.105)	176	672459			65.46- 125.46	96.69
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	39296	2.00000	1.599	70.00- 130.00	100.00(a)
2.253	2.253 (0.280)	42	32979			0.00- 30.00	83.92
2.280	2.280 (0.283)	39	29125			0.00- 30.00	74.12
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	67545	2.00000	1.716	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	21517			0.00- 30.00	31.86
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	52666	2.00000	1.643	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	16221			2.03- 62.03	30.80
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	50579	2.00000	1.710	70.00- 130.00	100.00(a)
2.584	2.584 (0.321)	52	16560			0.00- 30.00	32.74
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	36964	2.00000	1.539	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	13783			0.00- 30.00	37.29
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	36120	2.00000	1.521	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	44008			0.00- 30.00	121.84
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	19166	2.00000	1.428	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	21026			62.86- 122.86	109.70
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	17790	2.00000	1.492	70.00- 130.00	100.00
3.469	3.469 (0.430)	49	6005			0.00- 30.00	33.75
3.442	3.442 (0.427)	66	4509			0.00- 30.00	25.35
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	66917	2.00000	1.667	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	43085			33.46- 93.46	64.39

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	13439	2.00000	1.417	70.00- 130.00	100.00(a)
4.160	4.160 (0.516)	43	6438			0.00- 30.00	47.91
4.133	4.133 (0.513)	46	7798			0.00- 30.00	58.03
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	41947	2.00000	1.696	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	27443			33.20- 93.20	65.42
4.520	4.520 (0.561)	101	52727			106.78- 166.78	125.70
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	49517	2.00000	1.559	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	28440			23.41- 83.41	57.43
4.603	4.603 (0.571)	98	18088			4.01- 64.01	36.53
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	20063	2.00000	1.649	70.00- 130.00	100.00(a)
4.741	4.741 (0.588)	43	52742			0.00- 30.00	262.88
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	62149	2.00000	1.352	70.00- 130.00	100.00(a)
4.962	4.962 (0.616)	43	21178			0.00- 30.00	34.08
4.962	4.962 (0.616)	59	2534			0.00- 30.00	4.08
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	85989	2.00000	1.569	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	10331	2.00000	1.096	70.00- 130.00	100.00(a)
5.183	5.183 (0.643)	41	49775			0.00- 30.00	481.80
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	44857	2.00000	1.556	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	23987			26.74- 86.74	53.47
5.460	5.460 (0.677)	51	16130			0.00- 30.00	35.96
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	29004	2.00000	1.052	70.00- 130.00	100.00
5.792	5.792 (0.719)	57	10028			0.00- 59.41	34.57
5.764	5.764 (0.715)	41	8664			0.00- 30.00	29.87
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	34007	2.00000	1.644	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	49974			130.65- 190.65	146.95
5.819	5.819 (0.722)	98	21792			0.00- 30.00	64.08

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	61884	2.00000	1.521	70.00- 130.00	100.00
6.179	6.179 (0.767)	43	51813			0.00- 30.00	83.73
6.179	6.179 (0.767)	86	10440			0.00- 30.00	16.87
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	58378	2.00000	1.530	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	18441			0.00- 59.62	31.59
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	14308	2.00000	1.537	70.00- 130.00	100.00
7.700	7.700 (0.955)	43	69454			533.62- 593.62	485.42
7.700	7.700 (0.955)	57	4538			0.00- 30.00	31.72
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	44658	2.00000	1.621	70.00- 130.00	100.00
7.644	7.644 (0.949)	96	29532			42.00- 102.00	66.13
7.644	7.644 (0.949)	98	21238			15.56- 75.56	47.56
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	51913	2.00000	1.464	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	15340			0.00- 56.55	29.55
8.059	8.059 (1.000)	72	19201			0.00- 30.00	36.99
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	50543	2.00000	1.384	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	33956			35.57- 95.57	67.18
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	48233	2.00000	1.422	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	30235			34.21- 94.21	62.69
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	37550	2.00000	1.395	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	60462			117.94- 177.94	161.02
8.418	8.418 (1.045)	41	38853			54.92- 114.92	103.47
56 Vinyl Acetate					CAS #: 108-05-4		
6.704	6.704 (0.832)	86	5481	2.00000	1.039	70.00- 130.00	100.00(a)
6.677	6.677 (0.828)	43	81210			0.00- 30.00	1481.66
6.704	6.704 (0.832)	42	6947			0.00- 30.00	126.75
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	41335	2.00000	1.362	70.00- 130.00	100.00
8.695	8.695 (1.079)	117	44195			74.41- 134.41	106.92

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	166198	2.00000	1.415	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	54553			0.00- 30.00	32.82
9.082	9.082 (1.127)	41	44648			0.00- 30.00	26.86
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	90369	2.00000	1.425	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	24694			0.00- 30.00	27.33
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	36236	2.00000	1.588	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	12544			0.00- 30.00	34.62
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	11233	2.00000	1.620	70.00- 130.00	100.00
9.497	9.497 (0.958)	43	75190			0.00- 30.00	669.37
9.497	9.497 (0.958)	71	33986			0.00- 30.00	302.55
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	36554	2.00000	1.554	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	35474			70.08- 130.08	97.05
10.326	10.326 (1.042)	97	22227			35.30- 95.30	60.81
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	31198	2.00000	1.488	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	23924			41.10- 101.10	76.68
10.852	10.852 (1.095)	41	28196			35.89- 95.89	90.38
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	19966	2.00000	1.436	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	16158			47.45- 107.45	80.93
11.073	11.073 (1.117)	57	5847			0.00- 30.00	29.28
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	44361	2.00000	1.445	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	28053			34.05- 94.05	63.24
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	33939	2.00000	1.413	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	12853			1.82- 61.82	37.87
12.317	12.317 (1.243)	39	25221			36.40- 96.40	74.31
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.621	12.621 (1.273)	58	22364	2.00000	1.329	70.00- 130.00	100.00
12.621	12.621 (1.273)	43	80802			0.00- 30.00	361.30
12.621	12.621 (1.273)	85	9589			0.00- 30.00	42.88

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	99179	2.00000	1.608	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	55204			27.75- 87.75	55.66
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	31301	2.00000	1.384	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	10410			2.38- 62.38	33.26
13.368	13.368 (0.891)	39	23737			35.96- 95.96	75.83
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	28297	2.00000	1.418	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	21084			33.83- 93.83	74.51
13.644	13.644 (0.910)	83	29005			52.70- 112.70	102.50
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	43912	2.00000	1.694	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	32984			44.73- 104.73	75.11
13.699	13.699 (0.913)	131	31741			40.60- 100.60	72.28
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	32083	2.00000	1.342	70.00- 130.00	100.00(a)
14.031	14.031 (0.935)	43	68432			181.71- 241.71	213.30
14.031	14.031 (0.935)	100	5813			0.00- 30.00	18.12
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	43643	2.00000	1.481	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	34730			0.00- 30.00	79.58
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	48320	2.00000	1.448	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	45975			65.00- 125.00	95.15
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	76213	2.00000	1.604	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	27179			2.42- 62.42	35.66
15.027	15.027 (1.002)	77	52925			27.34- 87.34	69.44
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	41019	2.00000	1.561	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	123814			0.00- 30.00	301.85
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	50927	2.00000	1.559	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	93398			0.00- 30.00	183.40
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	45202	2.00000	1.480	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	88326			170.15- 230.15	195.40
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	65990	2.00000	1.341	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	28916			13.62- 73.62	43.82
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	35972	2.00000	1.273	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	19320			22.36- 82.36	53.71
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	75038	2.00000	1.668	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	46417			36.19- 96.19	61.86
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	144641	2.00000	1.566	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	46697			0.17- 60.17	32.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	126322	2.00000	1.537	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	62212			0.00- 30.00	49.25
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	103045	2.00000	1.494	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	53182			17.48- 77.48	51.61
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	81828	2.00000	1.709	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	58561			0.00- 30.00	71.57
17.764	17.764 (1.184)	111	35547			0.00- 30.00	43.44
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	102298	2.00000	1.697	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	63549			0.00- 30.00	62.12
17.847	17.847 (1.190)	111	41468			0.00- 30.00	40.54
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	98612	2.00000	1.454	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	19904			0.00- 30.00	20.18
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	95994	2.00000	1.955	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	60744			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	33700			7.92- 67.92	35.11

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	80352	2.00000	2.225	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	76117			63.09- 123.09	94.73
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	48303	2.00000	1.982	70.00- 130.00	100.00(a)
19.589	19.589 (1.306)	223	29341			32.88- 92.88	60.74
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	165697	2.00000	1.626	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	39713			0.00- 30.00	23.97
16.824	16.824 (1.122)	105	6884			0.00- 30.00	4.15
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	141711	2.00000	1.547	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	37390			0.00- 30.00	26.38
16.326	16.326 (1.088)	51	16354			0.00- 30.00	11.54
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	257783	2.00000	2.228	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	32076			0.00- 30.00	12.44
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	47998	2.00000	2.039	70.00- 130.00	100.00
5.598	5.598 (0.695)	41	15347			0.00- 30.00	31.97
5.598	5.598 (0.695)	57	4957			0.00- 30.00	10.33
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	11837	2.00000	1.851	70.00- 130.00	100.00(a)
2.695	2.695 (0.334)	43	84412			0.00- 30.00	713.12
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	61460	2.00000	1.550	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	35263			0.00- 30.00	57.38
3.414	3.414 (0.424)	72	4953			0.00- 30.00	8.06
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	51649	2.00000	1.490	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	23708			0.00- 30.00	45.90
10.547	10.547 (1.064)	55	46015			0.00- 30.00	89.09

QC Flag Legend

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

Report Date: 25-Apr-2008 09:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042421.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	316701	6.74
92 1,4-Difluorobenze	1234462	740677	1728247	1264461	2.43
125 Chlorobenzene-d5	1186736	712042	1661430	1173690	-1.10

		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.

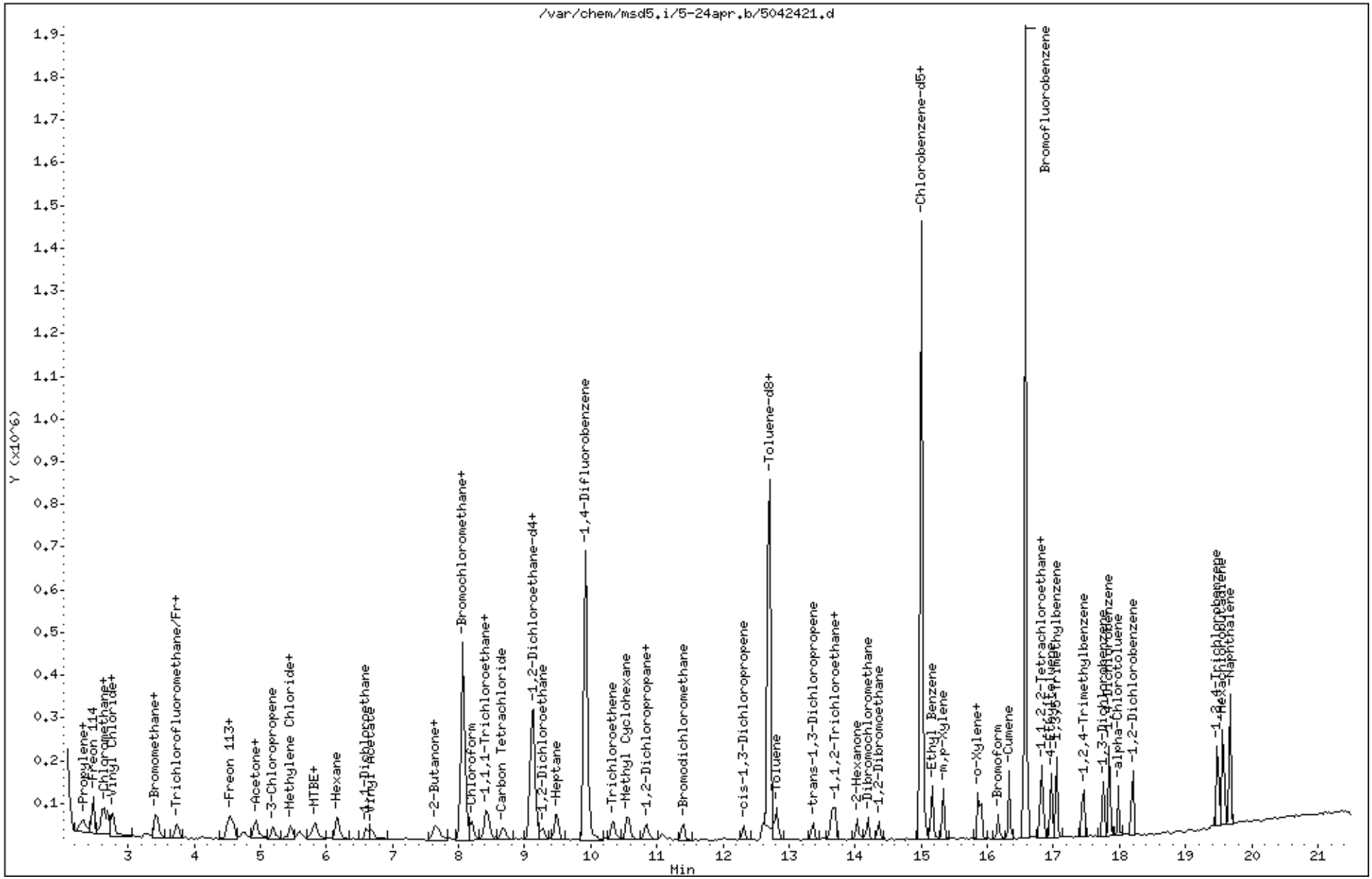
0097

Data File: /var/chem/msd5.i/5-24apr.b/5042421.d
Date : 24-APR-2008 18:31
Client ID: Level 3
Sample Info: 2.0mL #1612-1

Instrument: msd5.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042416.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 24-APR-2008 15:19
Operator : ct Inst ID: msd5.i
Smp Info : 25mL #1612-1
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 15:19 Cal File: 5042416.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	285626	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	224398			47.51- 107.51		78.56
8.059	8.059 (1.000)	49	550973			158.47- 218.47		192.90
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.911	9.911 (1.000)	114	1185571	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	183959			0.00- 44.75		15.52
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1185917	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	582491			0.00- 30.00		49.12
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.110	9.110 (1.130)	65	364263	25.0000	25.125	70.00- 130.00		100.00
9.110	9.110 (1.130)	67	206074			0.00- 30.00		56.57
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1139064	25.0000	25.283	70.00- 130.00		100.00
12.676	12.676 (1.279)	70	104653			0.00- 30.00		9.19

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	787127			0.00- 30.00	69.10
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	729616	25.0000	25.338	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	910513			98.07- 158.07	124.79
16.575	16.575 (1.105)	176	687841			65.46- 125.46	94.27
6 Propylene					CAS #: 115-07-1		
2.253	2.253 (0.280)	41	647416	25.0000	29.214	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	412965			0.00- 30.00	63.79
2.253	2.253 (0.280)	39	444951			0.00- 30.00	68.73
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1033842	25.0000	29.127	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	332090			0.00- 30.00	32.12
9 Freon 114					CAS #: 76-14-2		
2.446	2.446 (0.304)	135	874089	25.0000	30.230	70.00- 130.00	100.00
2.446	2.446 (0.304)	137	281841			2.03- 62.03	32.24
10 Chloromethane					CAS #: 74-87-3		
2.584	2.584 (0.321)	50	762365	25.0000	28.580	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	230237			0.00- 30.00	30.20
13 Vinyl Chloride					CAS #: 75-01-4		
2.750	2.750 (0.341)	62	655638	25.0000	30.274	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	185335			0.00- 30.00	28.27
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	580573	25.0000	27.102	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	747482			0.00- 30.00	128.75
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	335231	25.0000	27.690	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	319842			62.86- 122.86	95.41
19 Chloroethane					CAS #: 75-00-3		
3.386	3.386 (0.420)	64	325147	25.0000	30.232	70.00- 130.00	100.00
3.386	3.386 (0.420)	49	105404			0.00- 30.00	32.42
3.386	3.386 (0.420)	66	100339			0.00- 30.00	30.86
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1069374	25.0000	29.539	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	693269			33.46- 93.46	64.83

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	247838	25.0000	28.977	70.00- 130.00	100.00
4.077	4.077 (0.506)	43	51483			0.00- 30.00	20.77
4.077	4.077 (0.506)	46	101468			0.00- 30.00	40.94
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	651257	25.0000	29.198	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	413396			33.20- 93.20	63.48
4.520	4.520 (0.561)	101	875164			106.78- 166.78	134.38
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	847811	25.0000	29.596	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	453547			23.41- 83.41	53.50
4.575	4.575 (0.568)	98	290271			4.01- 64.01	34.24
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	292961	25.0000	26.700	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	993979			0.00- 30.00	339.29
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	1107755	25.0000	26.726	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	277149			0.00- 30.00	25.02
4.935	4.935 (0.612)	59	35085			0.00- 30.00	3.17
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1442925	25.0000	29.189	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	247385	25.0000	29.092	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	977529			0.00- 30.00	395.14
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	752023	25.0000	28.930	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	408684			26.74- 86.74	54.34
5.432	5.432 (0.674)	51	219939			0.00- 30.00	29.25
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	793580	25.0000	31.932	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	227132			0.00- 59.41	28.62
5.764	5.764 (0.715)	41	276010			0.00- 30.00	34.78
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	554656	25.0000	29.726	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	881505			130.65- 190.65	158.93
5.819	5.819 (0.722)	98	333865			0.00- 30.00	60.19

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	1115512	25.0000	30.393	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	821438			0.00- 30.00	73.64
6.151	6.151 (0.763)	86	162908			0.00- 30.00	14.60
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	997284	25.0000	28.972	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	302386			0.00- 59.62	30.32
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	257425	25.0000	30.657	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1413867			533.62- 593.62	549.23
7.672	7.672 (0.952)	57	95815			0.00- 30.00	37.22
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	742044	25.0000	29.864	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	534183			42.00- 102.00	71.99
7.617	7.617 (0.945)	98	342055			15.56- 75.56	46.10
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	881634	25.0000	27.560	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	233108			0.00- 56.55	26.44
8.031	8.031 (0.997)	72	256200			0.00- 30.00	29.06
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	919508	25.0000	27.917	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	608465			35.57- 95.57	66.17
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	872562	25.0000	28.529	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	569362			34.21- 94.21	65.25
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	732869	25.0000	30.184	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1109565			117.94- 177.94	151.40
8.418	8.418 (1.045)	41	648732			54.92- 114.92	88.52
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	135969	25.0000	28.578	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1800501			0.00- 30.00	1324.20
6.649	6.649 (0.825)	42	135618			0.00- 30.00	99.74
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	809752	25.0000	29.574	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	829941			74.41- 134.41	102.49

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	3199191	25.0000	30.210	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	1048397			0.00- 30.00	32.77
9.082	9.082 (1.127)	41	879607			0.00- 30.00	27.49
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1662202	25.0000	27.953	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	401144			0.00- 30.00	24.13
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	639172	25.0000	29.870	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	191516			0.00- 30.00	29.96
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	191246	25.0000	29.426	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1358301			0.00- 30.00	710.24
9.469	9.469 (0.955)	71	583422			0.00- 30.00	305.06
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	645994	25.0000	29.299	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	649464			70.08- 130.08	100.54
10.326	10.326 (1.042)	97	423720			35.30- 95.30	65.59
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	590497	25.0000	30.043	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	421585			41.10- 101.10	71.39
10.824	10.824 (1.092)	41	393185			36.18- 96.18	66.59
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	365623	25.0000	28.052	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	287443			47.45- 107.45	78.62
11.073	11.073 (1.117)	57	91573			0.00- 30.00	25.05
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	888862	25.0000	30.888	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	564475			34.05- 94.05	63.51
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	659162	25.0000	29.274	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	212260			1.82- 61.82	32.20
12.289	12.289 (1.240)	39	448572			36.40- 96.40	68.05
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	488354	25.0000	30.956	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	1389181			0.00- 30.00	284.46
12.593	12.593 (1.271)	85	172642			0.00- 30.00	35.35

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	1742127	25.0000	30.119	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	999300			27.75- 87.75	57.36
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	650332	25.0000	28.465	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	205311			2.38- 62.38	31.57
13.340	13.340 (0.889)	39	436230			35.96- 95.96	67.08
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	607671	25.0000	30.133	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	378908			33.83- 93.83	62.35
13.644	13.644 (0.910)	83	500596			52.70- 112.70	82.38
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	766059	25.0000	29.258	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	558167			44.73- 104.73	72.86
13.699	13.699 (0.913)	131	540031			40.60- 100.60	70.49
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	636158	25.0000	26.333	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	1417316			181.71- 241.71	222.79
14.031	14.031 (0.935)	100	119132			0.00- 30.00	18.73
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	878389	25.0000	29.493	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	679236			0.00- 30.00	77.33
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	944591	25.0000	28.016	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	879006			65.00- 125.00	93.06
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	1422341	25.0000	29.635	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	445186			2.42- 62.42	31.30
15.027	15.027 (1.002)	77	789587			27.34- 87.34	55.51
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	783761	25.0000	29.528	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	2367524			0.00- 30.00	302.07
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	988735	25.0000	29.959	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1878162			0.00- 30.00	189.96
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	924678	25.0000	29.969	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	1831701			170.15- 230.15	198.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1446050	25.0000	29.092	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	632988			13.62- 73.62	43.77
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	820728	25.0000	28.738	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	418753			22.36- 82.36	51.02
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1305949	25.0000	28.727	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	864420			36.19- 96.19	66.19
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	2813209	25.0000	30.154	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	861180			0.17- 60.17	30.61
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	2470967	25.0000	29.764	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1227367			0.00- 30.00	49.67
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2006394	25.0000	28.800	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	980532			17.48- 77.48	48.87
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1342680	25.0000	27.756	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	859949			0.00- 30.00	64.05
17.764	17.764 (1.184)	111	516783			0.00- 30.00	38.49
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1697632	25.0000	27.867	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	1078748			0.00- 30.00	63.54
17.847	17.847 (1.190)	111	651277			0.00- 30.00	38.36
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	2014324	25.0000	29.388	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	436309			0.00- 30.00	21.66
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1336842	25.0000	26.942	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	846017			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	523291			7.92- 67.92	39.14

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		
19.478	19.478 (1.299)	180	837828	25.0000	22.958	70.00- 130.00	100.00
19.478	19.478 (1.299)	182	785143			63.09- 123.09	93.71
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	617318	25.0000	25.072	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	369052			32.88- 92.88	59.78
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	3055307	25.0000	29.668	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	724624			0.00- 30.00	23.72
16.824	16.824 (1.122)	105	115597			0.00- 30.00	3.78
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	2707385	25.0000	29.244	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	746735			0.00- 30.00	27.58
16.326	16.326 (1.088)	51	297960			0.00- 30.00	11.01
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2970069	25.0000	25.406	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	377742			0.00- 30.00	12.72
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.570	5.570 (0.691)	59	670072	25.0000	31.561	70.00- 130.00	100.00
5.570	5.570 (0.691)	41	202733			0.00- 30.00	30.26
5.570	5.570 (0.691)	57	66598			0.00- 30.00	9.94
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	160873	25.0000	27.888	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1344888			0.00- 30.00	835.99
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1002829	25.0000	28.051	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	578489			0.00- 30.00	57.69
3.414	3.414 (0.424)	72	50818			0.00- 30.00	5.07
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	970622	25.0000	29.857	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	473924			0.00- 30.00	48.83
10.547	10.547 (1.064)	55	923547			0.00- 30.00	95.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042416.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 25ppbv

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	285626	-3.73
92 1,4-Difluorobenze	1234462	740677	1728247	1185571	-3.96
125 Chlorobenzene-d5	1186736	712042	1661430	1185917	-0.07

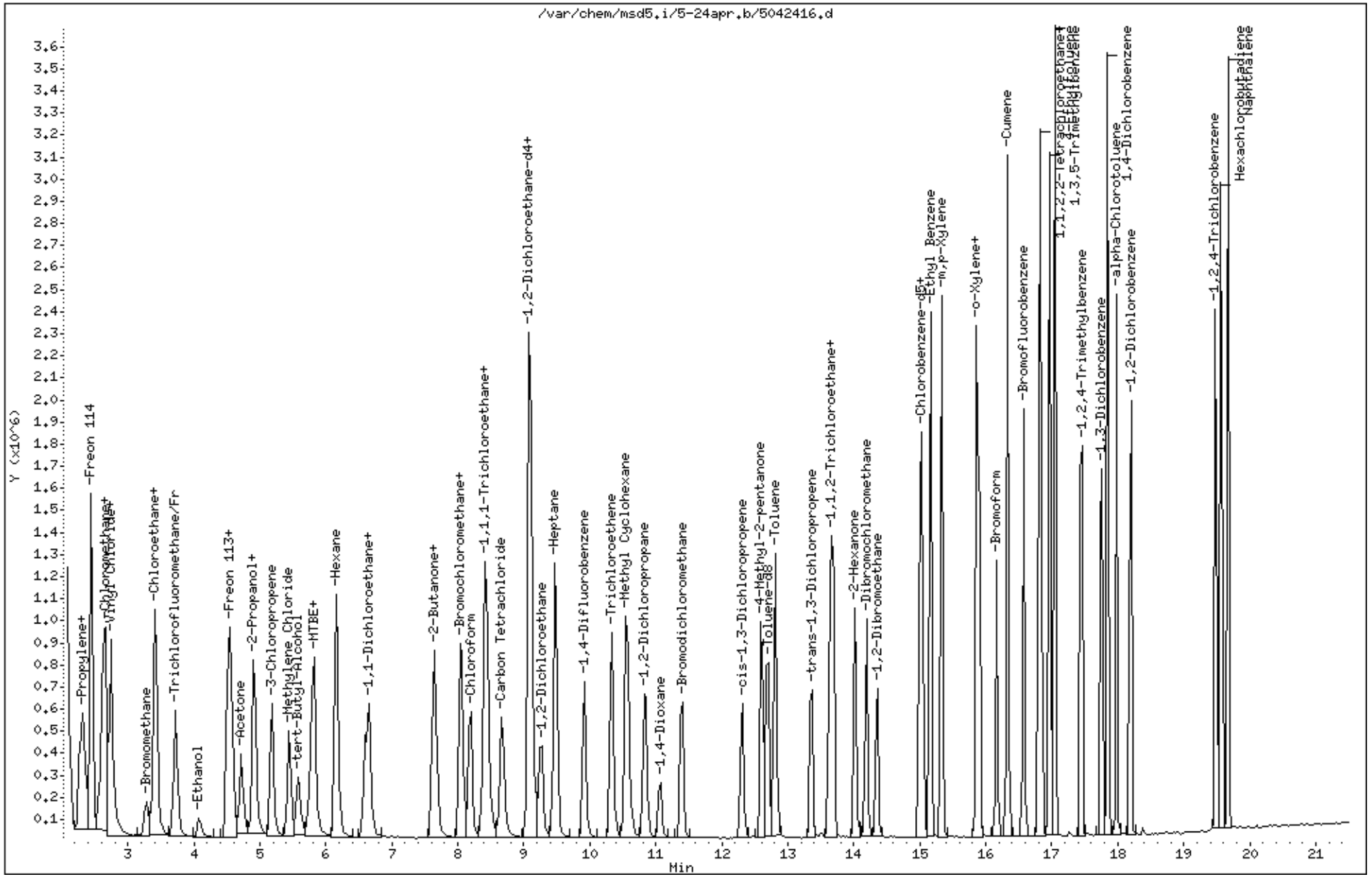
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /var/chem/msd5.i/5-24apr.b/5042416.d
Date : 24-APR-2008 15:19
Client ID: Level 4
Sample Info: 25mL #1612-1

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042417.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 24-APR-2008 15:47
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1612-1
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 15:47 Cal File: 5042417.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	296697	25.0000		80.00- 120.00		100.00
8.059	8.059 (1.000)	128	229958			47.51- 107.51		77.51
8.059	8.059 (1.000)	49	559185			158.47- 218.47		188.47
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1234462	25.0000		80.00- 120.00		100.00
9.912	9.912 (1.000)	88	182091			0.00- 44.75		14.75
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	1186736	25.0000		80.00- 120.00		100.00
14.999	14.999 (1.000)	82	600713			20.62- 80.62		50.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	381239	25.0000	25.315	80.00- 120.00		100.00
9.110	9.110 (1.130)	67	231370			30.69- 90.69		60.69
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	1200024	25.0000	25.581	80.00- 120.00		100.00
12.677	12.677 (1.279)	70	112385			0.00- 39.37		9.37

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	805326			37.11- 97.11	67.11
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	729157	25.0000	25.304	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	933806			98.07- 158.07	128.07
16.575	16.575 (1.105)	176	696072			65.46- 125.46	95.46
6 Propylene						CAS #: 115-07-1	
2.253	2.253 (0.280)	41	1265724	50.0000	54.983	80.00- 120.00	100.00
2.253	2.253 (0.280)	42	802373			33.39- 93.39	63.39
2.253	2.253 (0.280)	39	878627			39.42- 99.42	69.42
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.336	2.336 (0.290)	85	2007632	50.0000	54.451	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	648300			2.29- 62.29	32.29
9 Freon 114						CAS #: 76-14-2	
2.446	2.446 (0.304)	135	1670931	50.0000	55.632	80.00- 120.00	100.00
2.446	2.446 (0.304)	137	535164			2.03- 62.03	32.03
10 Chloromethane						CAS #: 74-87-3	
2.585	2.585 (0.321)	50	1472622	50.0000	53.146	80.00- 120.00	100.00
2.585	2.585 (0.321)	52	440257			0.00- 59.90	29.90
13 Vinyl Chloride						CAS #: 75-01-4	
2.750	2.750 (0.341)	62	1255638	50.0000	55.816	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	377005			0.02- 60.02	30.02
12 1,3-Butadiene						CAS #: 106-99-0	
2.750	2.750 (0.341)	54	1186480	50.0000	53.321	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1474124			94.24- 154.24	124.24
15 Bromomethane						CAS #: 74-83-9	
3.276	3.276 (0.406)	94	716413	50.0000	56.968	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	665263			62.86- 122.86	92.86
19 Chloroethane						CAS #: 75-00-3	
3.386	3.386 (0.420)	64	610852	50.0000	54.678	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	192538			1.52- 61.52	31.52
3.386	3.386 (0.420)	66	186794			0.58- 60.58	30.58
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.718	3.718 (0.461)	101	2137246	50.0000	56.833	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1356302			33.46- 93.46	63.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	514471	50.0000	57.908	80.00- 120.00	100.00
4.078	4.078 (0.506)	43	91694			0.00- 47.82	17.82
4.078	4.078 (0.506)	46	202258			9.31- 69.31	39.31
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1255191	50.0000	54.175	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	793240			33.20- 93.20	63.20
4.520	4.520 (0.561)	101	1716913			106.78- 166.78	136.78
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1692914	50.0000	56.892	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	904151			23.41- 83.41	53.41
4.575	4.575 (0.568)	98	575810			4.01- 64.01	34.01
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	593883	50.0000	52.106	80.00- 120.00	100.00
4.714	4.714 (0.585)	43	2077338			319.79- 379.79	349.79
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	2349546	50.0000	54.571	80.00- 120.00	100.00
4.907	4.907 (0.609)	43	557862			0.00- 53.74	23.74
4.907	4.907 (0.609)	59	78709			0.00- 33.35	3.35
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2864850	50.0000	55.790	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	496706	50.0000	56.233	80.00- 120.00	100.00
5.184	5.184 (0.643)	41	1959446			364.49- 424.49	394.49
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1462447	50.0000	54.160	80.00- 120.00	100.00
5.432	5.432 (0.674)	84	829798			26.74- 86.74	56.74
5.432	5.432 (0.674)	51	425057			0.00- 59.06	29.06
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1554787	50.0000	60.227	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	457233			0.00- 59.41	29.41
5.764	5.764 (0.715)	41	536295			4.49- 64.49	34.49
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1097288	50.0000	56.613	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1762833			130.65- 190.65	160.65
5.819	5.819 (0.722)	98	679562			31.93- 91.93	61.93

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	2226777	50.0000	58.407	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1617720			42.65- 102.65	72.65
6.151	6.151 (0.763)	86	312865			0.00- 44.05	14.05
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2007827	50.0000	56.153	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	594800			0.00- 59.62	29.62
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	509100	50.0000	58.367	80.00- 120.00	100.00
7.644	7.644 (0.949)	43	2869395			533.62- 593.62	563.62
7.644	7.644 (0.949)	57	199433			9.17- 69.17	39.17
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1479989	50.0000	57.340	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1065640			42.00- 102.00	72.00
7.617	7.617 (0.945)	98	674303			15.56- 75.56	45.56
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1772021	50.0000	53.328	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	470494			0.00- 56.55	26.55
8.031	8.031 (0.997)	72	516579			0.00- 59.15	29.15
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1809544	50.0000	52.889	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1186543			35.57- 95.57	65.57
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1773716	50.0000	55.829	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1138949			34.21- 94.21	64.21
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	1471665	50.0000	58.351	80.00- 120.00	100.00
8.419	8.419 (1.045)	56	2177201			117.94- 177.94	147.94
8.419	8.419 (1.045)	41	1249724			54.92- 114.92	84.92
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	277124	50.0000	56.073	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3681296			1298.39-1358.39	1328.39
6.649	6.649 (0.825)	42	282192			71.83- 131.83	101.83
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1595179	50.0000	56.086	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1665494			74.41- 134.41	104.41

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	6349467	50.0000	57.721	80.00- 120.00	100.00
9.082	9.082 (1.127)	56	2085450			2.84- 62.84	32.84
9.082	9.082 (1.127)	41	1682302			0.00- 56.50	26.50
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3223515	50.0000	52.062	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	774352			0.00- 54.02	24.02
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1244483	50.0000	55.854	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	376709			0.27- 60.27	30.27
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	385958	50.0000	57.032	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2671822			662.26- 722.26	692.26
9.469	9.469 (0.955)	71	1156296			269.59- 329.59	299.59
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1253951	50.0000	54.620	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1254939			70.08- 130.08	100.08
10.326	10.326 (1.042)	97	818864			35.30- 95.30	65.30
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	1161085	50.0000	56.733	80.00- 120.00	100.00
10.824	10.824 (1.092)	62	825513			41.10- 101.10	71.10
10.824	10.824 (1.092)	41	765048			35.89- 95.89	65.89
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	751865	50.0000	55.402	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	582323			47.45- 107.45	77.45
11.073	11.073 (1.117)	57	188946			0.00- 55.13	25.13
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1724779	50.0000	57.563	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1104648			34.05- 94.05	64.05
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1357048	50.0000	57.880	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	431759			1.82- 61.82	31.82
12.289	12.289 (1.240)	39	901145			36.40- 96.40	66.40
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	959235	50.0000	58.396	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2789086			260.76- 320.76	290.76
12.594	12.594 (1.271)	85	363200			7.86- 67.86	37.86

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	3385901	50.0000	56.220	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1955292			27.75- 87.75	57.75
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1339031	50.0000	58.568	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	433574			2.38- 62.38	32.38
13.340	13.340 (0.889)	39	883201			35.96- 95.96	65.96
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1167567	50.0000	57.858	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	745284			33.83- 93.83	63.83
13.644	13.644 (0.910)	83	965561			52.70- 112.70	82.70
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1488209	50.0000	56.799	80.00- 120.00	100.00
13.672	13.672 (0.912)	129	1112208			44.73- 104.73	74.73
13.672	13.672 (0.912)	131	1050639			40.60- 100.60	70.60
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1326582	50.0000	54.874	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2808501			181.71- 241.71	211.71
14.004	14.004 (0.934)	100	250860			0.00- 48.91	18.91
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1722283	50.0000	57.788	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1346503			48.18- 108.18	78.18
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1845098	50.0000	54.687	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1752779			65.00- 125.00	95.00
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	2697354	50.0000	56.161	80.00- 120.00	100.00
15.027	15.027 (1.002)	114	874398			2.42- 62.42	32.42
15.027	15.027 (1.002)	77	1546623			27.34- 87.34	57.34
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1544298	50.0000	58.140	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4661881			271.88- 331.88	301.88
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1917128	50.0000	58.050	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3640544			159.90- 219.90	189.90
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1799335	50.0000	58.277	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	3601342			170.15- 230.15	200.15
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	2848660	50.0000	57.270	80.00- 120.00	100.00
15.884	15.884 (1.059)	78	1242597			13.62- 73.62	43.62
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1667802	50.0000	58.358	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	873332			22.36- 82.36	52.36
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2526396	50.0000	55.534	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1672300			36.19- 96.19	66.19
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5747427	50.0000	61.562	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1734194			0.17- 60.17	30.17
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4824861	50.0000	58.079	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2459390			20.97- 80.97	50.97
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3987255	50.0000	57.193	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1893138			17.48- 77.48	47.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2652020	50.0000	54.784	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1693624			33.86- 93.86	63.86
17.764	17.764 (1.184)	111	1027732			8.75- 68.75	38.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3443847	50.0000	56.493	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2158560			32.68- 92.68	62.68
17.847	17.847 (1.190)	111	1305873			7.92- 67.92	37.92
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4387960	50.0000	63.974	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	978171			0.00- 52.29	22.29
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2680729	50.0000	53.988	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1669080			32.26- 92.26	62.26
18.206	18.206 (1.214)	111	1016658			7.92- 67.92	37.92

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		
19.478	19.478 (1.299)	180	1798465	50.0000	49.248	80.00- 120.00	100.00
19.478	19.478 (1.299)	182	1674208			63.09- 123.09	93.09
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.561	19.561 (1.304)	225	1239505	50.0000	50.308	80.00- 120.00	100.00
19.561	19.561 (1.304)	223	779439			32.88- 92.88	62.88
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6106747	50.0000	59.257	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1455407			0.00- 53.83	23.83
16.824	16.824 (1.122)	105	224499			0.00- 33.68	3.68
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5242531	50.0000	56.589	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1439389			0.00- 57.46	27.46
16.326	16.326 (1.088)	51	573438			0.00- 40.94	10.94
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6852340	50.0000	58.574	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	865966			0.00- 42.64	12.64
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	1201021	50.0000	54.458	80.00- 120.00	100.00
5.571	5.571 (0.691)	41	358675			0.00- 59.86	29.86
5.571	5.571 (0.691)	57	117291			0.00- 39.77	9.77
11 Butane					CAS #: 106-97-8		
2.667	2.667 (0.331)	58	308974	50.0000	51.563	80.00- 120.00	100.00
2.667	2.667 (0.331)	43	2593192			809.29- 869.29	839.29
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2014595	50.0000	54.249	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1152362			27.20- 87.20	57.20
3.414	3.414 (0.424)	72	109124			0.00- 35.42	5.42
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	1903994	50.0000	56.248	80.00- 120.00	100.00
10.548	10.548 (1.064)	98	914284			18.02- 78.02	48.02
10.548	10.548 (1.064)	55	1780789			63.53- 123.53	93.53

Report Date: 25-Apr-2008 09:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042417.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	296697	0.00
92 1,4-Difluorobenze	1234462	740677	1728247	1234462	0.00
125 Chlorobenzene-d5	1186736	712042	1661430	1186736	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

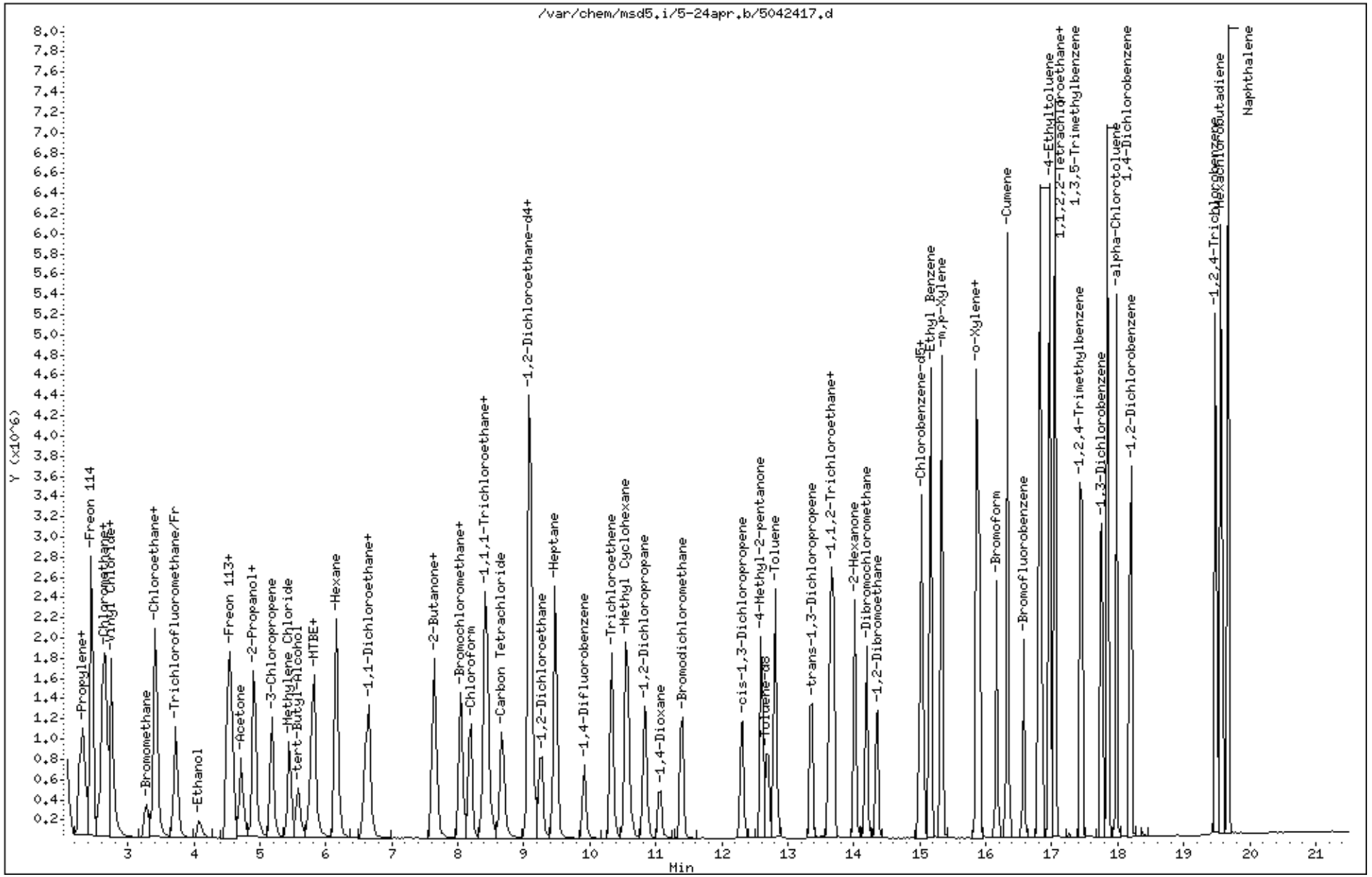
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/msd5.i/5-24apr.b/5042417.d
Date : 24-APR-2008 15:47
Client ID: Level 5
Sample Info: 50mL #1612-1

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

Column phase: RTx-624

0117



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042418.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 24-APR-2008 16:15
Operator : ct Inst ID: msd5.i
Smp Info : 100mL #1612-1
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:15 Cal File: 5042418.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	314768	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	248758			47.51- 107.51	79.03
8.059	8.059 (1.000)	49	580314			158.47- 218.47	184.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1315322	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	196055			0.00- 44.75	14.91
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1284080	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	619374			0.00- 30.00	48.23
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	396058	25.0000	24.789	70.00- 130.00	100.00
9.110	9.110 (1.130)	67	268730			0.00- 30.00	67.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1233164	25.0000	24.671	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	116387			0.00- 30.00	9.44

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	908053			0.00- 30.00	73.64
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	774429	25.0000	24.838	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	998473			98.07- 158.07	128.93
16.575	16.575 (1.105)	176	747257			65.46- 125.46	96.49
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2440914	100.000	99.946	70.00- 130.00	100.00
2.253	2.253 (0.280)	42	1599974			0.00- 30.00	65.55
2.253	2.253 (0.280)	39	1753358			0.00- 30.00	71.83
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	3922921	100.000	100.29	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	1252030			0.00- 30.00	31.92
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3371549	100.000	105.81	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1073787			2.03- 62.03	31.85
10 Chloromethane					CAS #: 74-87-3		
2.585	2.585 (0.321)	50	2856326	100.000	97.165	70.00- 130.00	100.00
2.585	2.585 (0.321)	52	824954			0.00- 30.00	28.88
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	2543479	100.000	106.57	70.00- 130.00	100.00
2.750	2.750 (0.341)	64	773361			0.00- 30.00	30.41
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	2400295	100.000	101.68	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	3132487			0.00- 30.00	130.50
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1487359	100.000	111.48	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	1400297			62.86- 122.86	94.15
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1257981	100.000	106.14	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	400265			0.00- 30.00	31.82
3.414	3.414 (0.424)	66	376428			0.00- 30.00	29.92
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	4301685	100.000	107.82	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	2775017			33.46- 93.46	64.51

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	953552	100.000	101.17	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	182300			0.00- 30.00	19.12
4.105	4.105 (0.509)	46	377945			0.00- 30.00	39.64
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	2609263	100.000	106.15	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	1639413			33.20- 93.20	62.83
4.520	4.520 (0.561)	101	3537010			106.78- 166.78	135.56
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3473232	100.000	110.02	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1894768			23.41- 83.41	54.55
4.575	4.575 (0.568)	98	1194936			4.01- 64.01	34.40
32 Acetone					CAS #: 67-64-1		
4.714	4.714 (0.585)	58	1276148	100.000	105.54	70.00- 130.00	100.00
4.714	4.714 (0.585)	43	4245872			0.00- 30.00	332.71
36 2-Propanol					CAS #: 67-63-0		
4.907	4.907 (0.609)	45	5025627	100.000	110.02	70.00- 130.00	100.00
4.907	4.907 (0.609)	43	1114984			0.00- 30.00	22.19
4.935	4.935 (0.612)	59	173881			0.00- 30.00	3.46
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	5927459	100.000	108.80	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	1031514	100.000	110.07	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	4029364			0.00- 30.00	390.63
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	2972326	100.000	103.76	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	1666810			26.74- 86.74	56.08
5.460	5.460 (0.678)	51	906839			0.00- 30.00	30.51
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	3286350	100.000	119.99	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	944732			0.00- 59.41	28.75
5.764	5.764 (0.715)	41	1089741			0.00- 30.00	33.16
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	2195607	100.000	106.78	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	3566115			130.65- 190.65	162.42
5.820	5.820 (0.722)	98	1440978			0.00- 30.00	65.63

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	4541336	100.000	112.28	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3333952			0.00- 30.00	73.41
6.151	6.151 (0.763)	86	649745			0.00- 30.00	14.31
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	4086831	100.000	107.74	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	1240469			0.00- 59.62	30.35
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	1087267	100.000	117.50	70.00- 130.00	100.00
7.644	7.644 (0.949)	43	5975832			533.62- 593.62	549.62
7.644	7.644 (0.949)	57	402232			0.00- 30.00	36.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2971725	100.000	108.52	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	2158501			42.00- 102.00	72.63
7.617	7.617 (0.945)	98	1368417			15.56- 75.56	46.05
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3550590	100.000	100.72	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	975161			0.00- 56.55	27.46
8.031	8.031 (0.997)	72	1041547			0.00- 30.00	29.33
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3645445	100.000	100.43	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	2413134			35.57- 95.57	66.20
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3552968	100.000	105.41	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2315201			34.21- 94.21	65.16
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	2952425	100.000	110.34	70.00- 130.00	100.00
8.419	8.419 (1.045)	56	4407200			117.94- 177.94	149.27
8.419	8.419 (1.045)	41	2531714			54.92- 114.92	85.75
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	583109	100.000	111.21	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	7883295			0.00- 30.00	1351.94
6.649	6.649 (0.825)	42	592840			0.00- 30.00	101.67
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	3289193	100.000	109.01	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	3404621			74.41- 134.41	103.51

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	12985712	100.000	111.27	70.00- 130.00	100.00
9.082	9.082 (1.127)	56	4231091			0.00- 30.00	32.58
9.082	9.082 (1.127)	41	3417069			0.00- 30.00	26.31
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	6626036	100.000	100.44	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1590099			0.00- 30.00	24.00
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	2533583	100.000	106.72	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	774150			0.00- 30.00	30.56
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	774680	100.000	107.44	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	5511038			0.00- 30.00	711.40
9.469	9.469 (0.955)	71	2339309			0.00- 30.00	301.97
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	2555389	100.000	104.46	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	2572320			70.08- 130.08	100.66
10.326	10.326 (1.042)	97	1657921			35.30- 95.30	64.88
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.824 (1.092)	63	2351812	100.000	107.85	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	1670240			41.10- 101.10	71.02
10.824	10.824 (1.092)	41	1539312			35.89- 95.89	65.45
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1514081	100.000	104.71	70.00- 130.00	100.00
11.045	11.045 (1.114)	58	1198335			47.45- 107.45	79.15
11.045	11.045 (1.114)	57	367908			0.00- 30.00	24.30
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	3512764	100.000	110.03	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	2247411			34.05- 94.05	63.98
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2795099	100.000	111.89	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	873735			1.82- 61.82	31.26
12.290	12.290 (1.240)	39	1864963			36.40- 96.40	66.72
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	2012977	100.000	115.01	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	5799162			0.00- 30.00	288.09
12.594	12.594 (1.271)	85	756868			0.00- 30.00	37.60

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	6799867	100.000	105.96	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	3949523			27.75- 87.75	58.08
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2749028	100.000	111.12	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	878914			2.38- 62.38	31.97
13.340	13.340 (0.889)	39	1852744			35.96- 95.96	67.40
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	2318128	100.000	106.16	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1481339			33.83- 93.83	63.90
13.644	13.644 (0.910)	83	1927248			52.70- 112.70	83.14
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	3018605	100.000	106.47	70.00- 130.00	100.00
13.672	13.672 (0.912)	129	2217386			44.73- 104.73	73.46
13.672	13.672 (0.912)	131	2127282			40.60- 100.60	70.47
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2815847	100.000	107.65	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	5773980			181.71- 241.71	205.05
14.004	14.004 (0.934)	100	516128			0.00- 30.00	18.33
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	3507409	100.000	108.76	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2722629			0.00- 30.00	77.63
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	3742992	100.000	102.53	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	3553213			65.00- 125.00	94.93
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	5486966	100.000	105.58	70.00- 130.00	100.00
15.027	15.027 (1.002)	114	1748902			2.42- 62.42	31.87
15.027	15.027 (1.002)	77	3069131			27.34- 87.34	55.93
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	3146243	100.000	109.47	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	9281194			0.00- 30.00	294.99
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	3898092	100.000	109.08	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	7520504			0.00- 30.00	192.93
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	3613806	100.000	108.17	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	7237921			170.15- 230.15	200.29
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	5854848	100.000	108.78	70.00- 130.00	100.00
15.884	15.884 (1.059)	78	2563307			13.62- 73.62	43.78
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	3486091	100.000	112.74	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1801542			22.36- 82.36	51.68
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	5210590	100.000	105.85	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	3388691			36.19- 96.19	65.03
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	11679639	100.000	115.62	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	3544828			0.17- 60.17	30.35
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	9968466	100.000	110.90	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	5012079			0.00- 30.00	50.28
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	8313910	100.000	110.21	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	4000534			17.48- 77.48	48.12
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	5510278	100.000	105.20	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	3513745			0.00- 30.00	63.77
17.764	17.764 (1.184)	111	2125940			0.00- 30.00	38.58
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	7189666	100.000	109.00	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	4568353			0.00- 30.00	63.54
17.847	17.847 (1.190)	111	2698565			0.00- 30.00	37.53
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	9876085	100.000	133.07	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	2108481			0.00- 30.00	21.35
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	5605355	100.000	104.33	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	3547077			32.26- 92.26	63.28
18.206	18.206 (1.214)	111	2122789			7.92- 67.92	37.87

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		
19.478	19.478 (1.299)	180	3835334	100.000	97.062	70.00- 130.00	100.00
19.478	19.478 (1.299)	182	3604409			63.09- 123.09	93.98
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2589942	100.000	97.150	70.00- 130.00	100.00
19.561	19.561 (1.304)	223	1626954			32.88- 92.88	62.82
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	12408875	100.000	111.28	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	2948155			0.00- 30.00	23.76
16.824	16.824 (1.122)	105	455606			0.00- 30.00	3.67
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	10764532	100.000	107.38	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	2988638			0.00- 30.00	27.76
16.326	16.326 (1.088)	51	1195170			0.00- 30.00	11.10
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	14483126	100.000	114.42	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1844073			0.00- 30.00	12.73
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	2178401	100.000	93.105	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	632443			0.00- 30.00	29.03
5.571	5.571 (0.691)	57	223430			0.00- 30.00	10.26
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	630877	100.000	99.239	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	5188662			0.00- 30.00	822.45
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4051759	100.000	102.84	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2352330			0.00- 30.00	58.06
3.414	3.414 (0.424)	72	217959			0.00- 30.00	5.38
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	3845733	100.000	106.63	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	1899896			0.00- 30.00	49.40
10.548	10.548 (1.064)	55	3637361			0.00- 30.00	94.58

Report Date: 25-Apr-2008 09:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042418.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	314768	6.09
92 1,4-Difluorobenze	1234462	740677	1728247	1315322	6.55
125 Chlorobenzene-d5	1186736	712042	1661430	1284080	8.20

		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

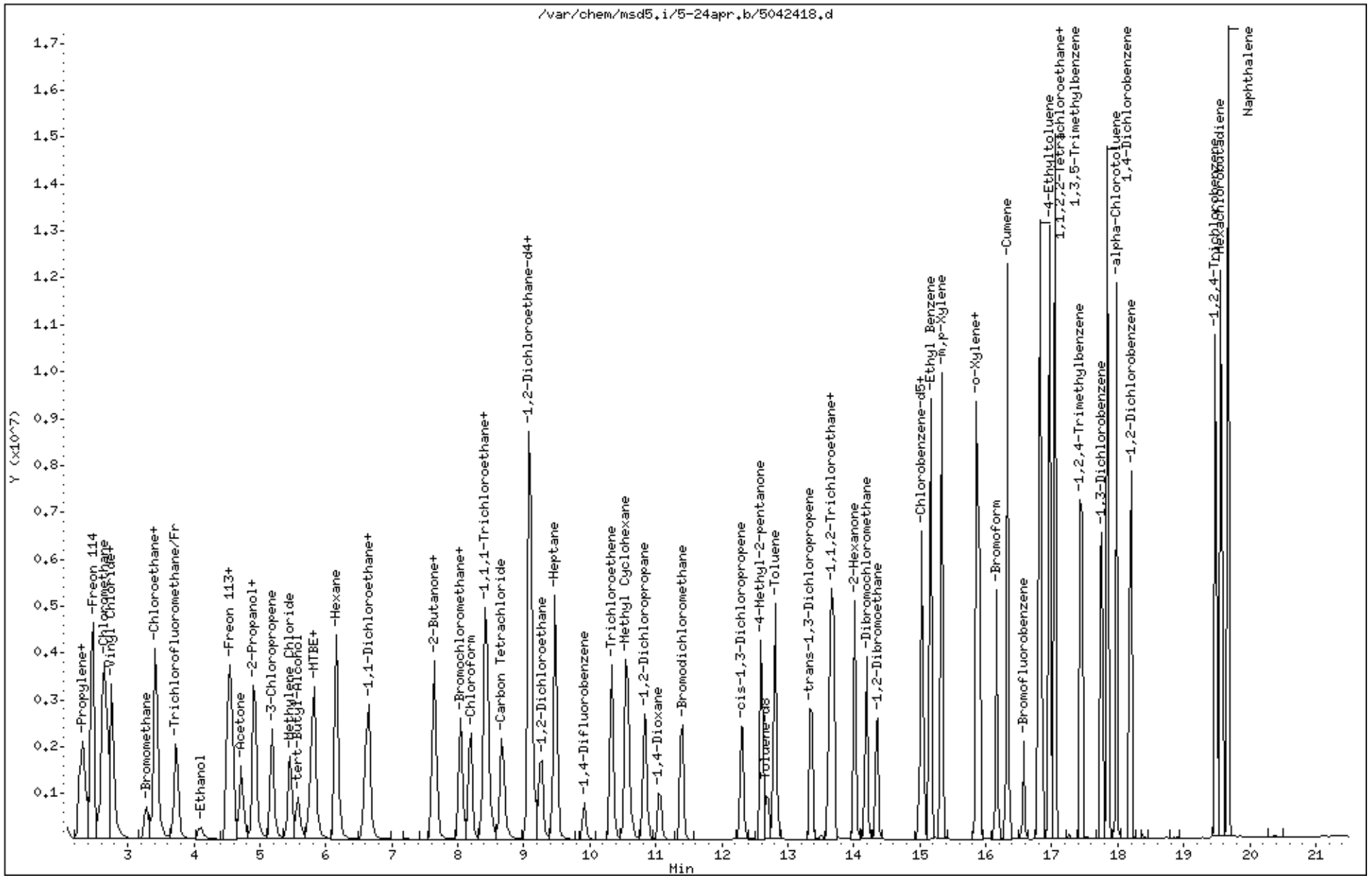
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0127

Data File: /var/chem/msd5.i/5-24apr.b/5042418.d
Date : 24-APR-2008 16:15
Client ID: Level 6
Sample Info: 100mL #1612-1

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /var/chem/msd5.i/5-24apr.b/5042419.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 24-APR-2008 16:48
Operator : ct Inst ID: msd5.i
Smp Info : 200mL #1612-1
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /var/chem/msd5.i/5-24apr.b/t14q424a.m
Meth Date : 25-Apr-2008 09:57 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	352862	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	268957			47.51- 107.51	76.22
8.059	8.059 (1.000)	49	640070			158.47- 218.47	181.39
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1473295	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	224238			0.00- 44.75	15.22
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1390786	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	680691			0.00- 30.00	48.94
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	483087	25.0000	26.972	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	358743			0.00- 30.00	74.26
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1402148	25.0000	25.044	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	130299			0.00- 30.00	9.29

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	1039657			0.00- 30.00	74.15
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	862338	25.0000	25.536	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	1132134			98.07- 158.07	131.29
16.575	16.575 (1.105)	176	830968			65.46- 125.46	96.36
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	5107080	200.000	186.54	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	3363444			0.00- 30.00	65.86
2.280	2.280 (0.283)	39	3561660			0.00- 30.00	69.74
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	9044480	200.000	206.26	70.00- 130.00	100.00(A)
2.336	2.336 (0.290)	87	2921180			0.00- 30.00	32.30
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	7111706	200.000	199.09	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	2247924			2.03- 62.03	31.61
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	6374787	200.000	193.44	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	1815130			0.00- 30.00	28.47
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	5508708	200.000	205.90	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	64	1648992			0.00- 30.00	29.93
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	5158992	200.000	194.94	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	7042916			0.00- 30.00	136.52
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	3276503	200.000	219.07	70.00- 130.00	100.00(A)
3.276	3.276 (0.406)	96	3090905			62.86- 122.86	94.34
19 Chloroethane					CAS #: 75-00-3		
3.442	3.442 (0.427)	64	2736428	200.000	205.95	70.00- 130.00	100.00(A)
3.442	3.442 (0.427)	49	826850			0.00- 30.00	30.22
3.442	3.442 (0.427)	66	801237			0.00- 30.00	29.28
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	9192370	200.000	205.53	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	5982295			33.46- 93.46	65.08

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	2033987	200.000	192.50	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	361341			0.00- 30.00	17.77
4.105	4.105 (0.509)	46	823219			0.00- 30.00	40.47
30 Freon 113					CAS #: 76-13-1		
4.548	4.548 (0.564)	151	5624864	200.000	204.13	70.00- 130.00	100.00(A)
4.548	4.548 (0.564)	153	3574666			33.20- 93.20	63.55
4.520	4.520 (0.561)	101	7597698			106.78- 166.78	135.07
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	7385705	200.000	208.70	70.00- 130.00	100.00(A)
4.575	4.575 (0.568)	96	4072724			23.41- 83.41	55.14
4.575	4.575 (0.568)	98	2614739			4.01- 64.01	35.40
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	2738118	200.000	202.00	70.00- 130.00	100.00(A)
4.741	4.741 (0.588)	43	8955763			0.00- 30.00	327.08
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	10887206	200.000	212.62	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2375852			0.00- 30.00	21.82
4.935	4.935 (0.612)	59	373309			0.00- 30.00	3.43
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	12633168	200.000	206.86	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	2233511	200.000	212.61	70.00- 130.00	100.00(A)
5.184	5.184 (0.643)	41	8775245			0.00- 30.00	392.89
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	6356189	200.000	197.92	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	3614985			26.74- 86.74	56.87
5.460	5.460 (0.678)	51	1909630			0.00- 30.00	30.04
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	6761828	200.000	220.24	70.00- 130.00	100.00(A)
5.764	5.764 (0.715)	57	1993273			0.00- 59.41	29.48
5.764	5.764 (0.715)	41	2156763			0.00- 30.00	31.90
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4762530	200.000	206.61	70.00- 130.00	100.00(A)
5.819	5.819 (0.722)	61	7581725			130.65- 190.65	159.20
5.819	5.819 (0.722)	98	3033575			0.00- 30.00	63.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	9696208	200.000	213.84	70.00- 130.00	100.00(A)
6.151	6.151 (0.763)	43	7062800			0.00- 30.00	72.84
6.151	6.151 (0.763)	86	1386116			0.00- 30.00	14.30
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	8762075	200.000	206.05	70.00- 130.00	100.00(A)
6.594	6.594 (0.818)	65	2628137			0.00- 59.62	29.99
67 2-Butanone					CAS #: 78-93-3		
7.644	7.644 (0.949)	72	2345963	200.000	226.15	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	43	12916794			533.62- 593.62	550.60
7.644	7.644 (0.949)	57	880571			0.00- 30.00	37.54
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	6390097	200.000	208.17	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	4639467			42.00- 102.00	72.60
7.644	7.644 (0.949)	98	2977322			15.56- 75.56	46.59
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	7721108	200.000	195.38	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	2098899			0.00- 56.55	27.18
8.031	8.031 (0.997)	72	2287344			0.00- 30.00	29.62
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	7876085	200.000	193.56	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	5137314			35.57- 95.57	65.23
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	7624161	200.000	201.78	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	4913489			34.21- 94.21	64.45
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	6424844	200.000	214.19	70.00- 130.00	100.00(A)
8.419	8.419 (1.045)	56	9468340			117.94- 177.94	147.37
8.419	8.419 (1.045)	41	5523951			54.92- 114.92	85.98
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	1297564	200.000	220.76	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	17238605			0.00- 30.00	1328.54
6.649	6.649 (0.825)	42	1264566			0.00- 30.00	97.46
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	7157412	200.000	211.60	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	7386429			74.41- 134.41	103.20

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	27073929	200.000	206.94	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	8885401			0.00- 30.00	32.82
9.082	9.082 (1.127)	41	7111432			0.00- 30.00	26.27
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	14174332	200.000	191.82	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	3314071			0.00- 30.00	23.38
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	5352598	200.000	201.29	70.00- 130.00	100.00(A)
9.276	9.276 (0.936)	64	1685351			0.00- 30.00	31.49
90 Heptane					CAS #: 142-82-5		
9.469	9.469 (0.955)	100	1692801	200.000	209.59	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	11661836			0.00- 30.00	688.91
9.469	9.469 (0.955)	71	5029086			0.00- 30.00	297.09
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	5513535	200.000	201.23	70.00- 130.00	100.00(A)
10.326	10.326 (1.042)	130	5615613			70.08- 130.08	101.85
10.326	10.326 (1.042)	97	3601372			35.30- 95.30	65.32
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	5068481	200.000	207.51	70.00- 130.00	100.00(A)
10.852	10.852 (1.095)	62	3591431			41.10- 101.10	70.86
10.824	10.824 (1.092)	41	3369953			35.89- 95.89	66.49
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	3254437	200.000	200.93	70.00- 130.00	100.00(A)
11.045	11.045 (1.114)	58	2568539			47.45- 107.45	78.92
11.045	11.045 (1.114)	57	804051			0.00- 30.00	24.71
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	7606196	200.000	212.70	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	4928723			34.05- 94.05	64.80
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6121950	200.000	218.78	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1962590			1.82- 61.82	32.06
12.289	12.289 (1.240)	39	4121778			36.40- 96.40	67.33
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	4375216	200.000	223.18	70.00- 130.00	100.00(A)
12.594	12.594 (1.271)	43	12883456			0.00- 30.00	294.46
12.594	12.594 (1.271)	85	1665949			0.00- 30.00	38.08

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	14715034	200.000	204.72	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	8671052			27.75- 87.75	58.93
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	6122303	200.000	228.50	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1968332			2.38- 62.38	32.15
13.340	13.340 (0.889)	39	4120372			35.96- 95.96	67.30
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	4957823	200.000	209.64	70.00- 130.00	100.00(A)
13.644	13.644 (0.910)	99	3128935			33.83- 93.83	63.11
13.644	13.644 (0.910)	83	4145012			52.70- 112.70	83.61
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	6542999	200.000	213.08	70.00- 130.00	100.00(A)
13.700	13.700 (0.913)	129	4826911			44.73- 104.73	73.77
13.700	13.700 (0.913)	131	4613990			40.60- 100.60	70.52
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	6243382	200.000	220.36	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	13047855			181.71- 241.71	208.99
14.004	14.004 (0.934)	100	1164686			0.00- 30.00	18.65
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7876482	200.000	225.51	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	6027229			0.00- 30.00	76.52
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	8167826	200.000	206.57	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	7783744			65.00- 125.00	95.30
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	11915794	200.000	211.70	70.00- 130.00	100.00(A)
15.027	15.027 (1.002)	114	3825212			2.42- 62.42	32.10
15.027	15.027 (1.002)	77	6622460			27.34- 87.34	55.58
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	6669942	200.000	214.27	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	19182168			0.00- 30.00	287.59
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	8463274	200.000	218.67	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	15951348			0.00- 30.00	188.48
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	7769123	200.000	214.71	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	15509343			170.15- 230.15	199.63
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	12564258	200.000	215.53	70.00- 130.00	100.00(A)
15.884	15.884 (1.059)	78	5530760			13.62- 73.62	44.02
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	7597747	200.000	226.85	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	3935735			22.36- 82.36	51.80
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	10842623	200.000	203.37	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	7047201			36.19- 96.19	65.00
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	20032744	200.000	183.10	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	7434755			0.17- 60.17	37.11
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	16255633	200.000	166.97	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	10370188			0.00- 30.00	63.79
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	17824050	200.000	218.16	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	8503418			17.48- 77.48	47.71
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	12064563	200.000	212.66	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	7653912			0.00- 30.00	63.44
17.764	17.764 (1.184)	111	4515582			0.00- 30.00	37.43
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	14810772	200.000	207.31	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	9446744			0.00- 30.00	63.78
17.847	17.847 (1.190)	111	5597817			0.00- 30.00	37.80
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14878836	200.000	185.10	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	4649264			0.00- 30.00	31.25
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	11783737	200.000	202.50	70.00- 130.00	100.00(A)
18.206	18.206 (1.214)	148	7589145			32.26- 92.26	64.40
18.206	18.206 (1.214)	111	4450169			7.92- 67.92	37.77

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		
19.478	19.478 (1.299)	180	8677009	200.000	202.74	70.00- 130.00	100.00(A)
19.478	19.478 (1.299)	182	8215187			63.09- 123.09	94.68
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	5938360	200.000	205.66	70.00- 130.00	100.00(A)
19.589	19.589 (1.306)	223	3675205			32.88- 92.88	61.89
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	21934020	200.000	181.61	70.00- 130.00	100.00
16.824	16.824 (1.122)	120	6278971			0.00- 30.00	28.63
16.824	16.824 (1.122)	105	966431			0.00- 30.00	4.41
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	18215849	200.000	167.78	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	6300885			0.00- 30.00	34.59
16.326	16.326 (1.088)	51	2546769			0.00- 30.00	13.98
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15192378	200.000	110.81	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	3972851			0.00- 30.00	26.15
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.571 (0.691)	59	3661067	200.000	139.58	70.00- 130.00	100.00
5.571	5.571 (0.691)	41	1129400			0.00- 30.00	30.85
5.571	5.571 (0.691)	57	369514			0.00- 30.00	10.09
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	1333404	200.000	187.10	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	11208143			0.00- 30.00	840.57
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	8738867	200.000	197.86	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	5087014			0.00- 30.00	58.21
3.414	3.414 (0.424)	72	465640			0.00- 30.00	5.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	8327997	200.000	206.14	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	4021726			0.00- 30.00	48.29
10.548	10.548 (1.064)	55	7780951			0.00- 30.00	93.43

QC Flag Legend

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

Report Date: 25-Apr-2008 09:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5042419.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /var/chem/msd5.i/5-24apr.b/t14q424a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 24-APR-2008
Calibration Time: 15:47
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	296697	178018	415376	352862	18.93
92 1,4-Difluorobenze	1234462	740677	1728247	1473295	19.35
125 Chlorobenzene-d5	1186736	712042	1661430	1390786	17.19

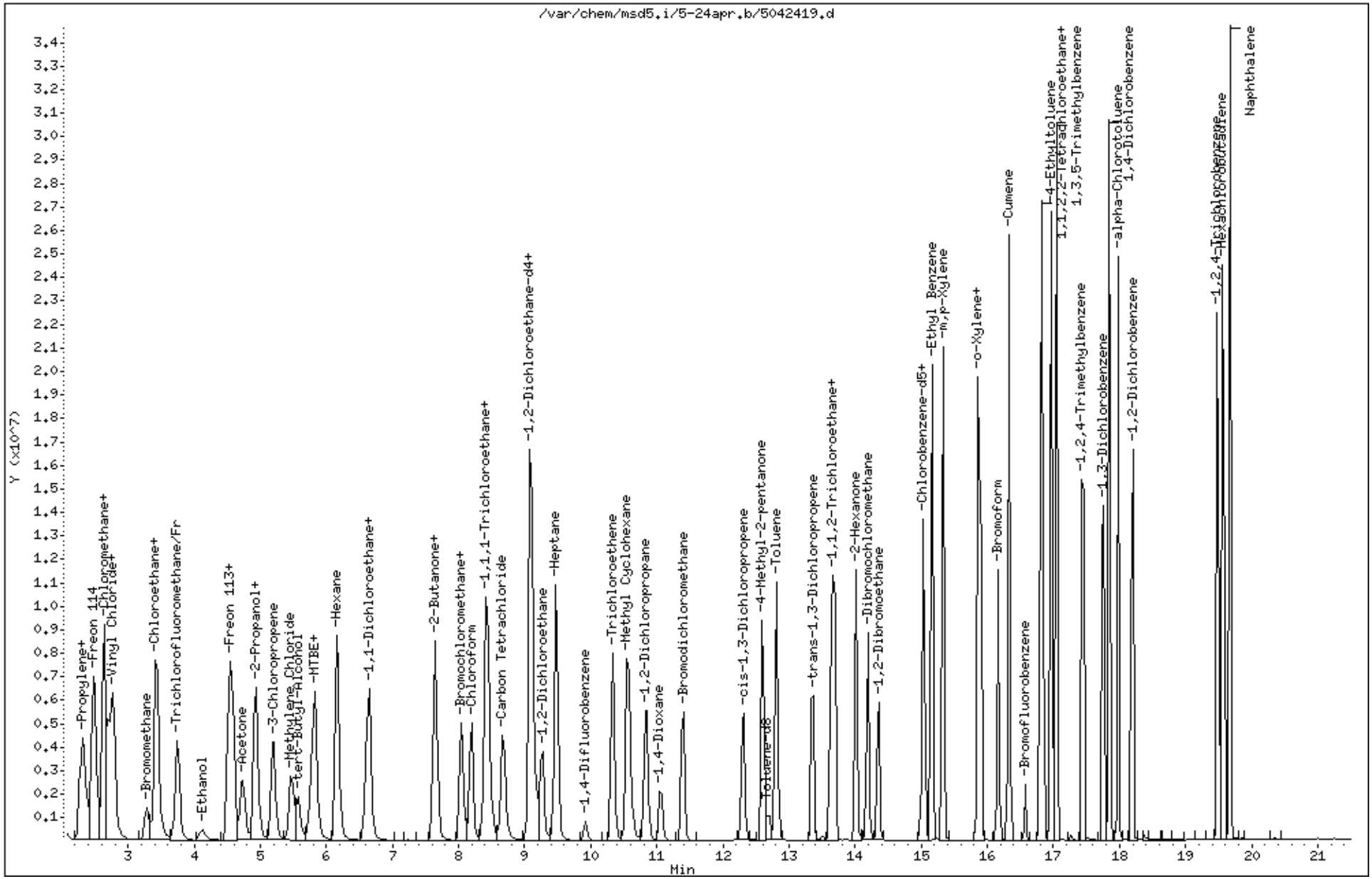
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /var/chem/msd5.i/5-24apr.b/5042419.d
Date : 24-APR-2008 16:48
Client ID: Level 7
Sample Info: 200mL #1612-1

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804476-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 07:51 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	116
Vinyl Chloride	108
Bromomethane	118
Chloroethane	110
Freon 11	102
1,1-Dichloroethene	97
Freon 113	116
Methylene Chloride	92
1,1-Dichloroethane	93
cis-1,2-Dichloroethene	91
Chloroform	83
1,1,1-Trichloroethane	86
Carbon Tetrachloride	90
Benzene	89
1,2-Dichloroethane	95
Trichloroethene	92
1,2-Dichloropropane	88
cis-1,3-Dichloropropene	92
Toluene	91
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	100
Tetrachloroethene	110
1,2-Dibromoethane (EDB)	96
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	101
o-Xylene	101
Styrene	100
1,1,2,2-Tetrachloroethane	92
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	107
1,3-Butadiene	103
Hexane	98
Cyclohexane	94

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804476-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 07:51 AM**	

Compound	%Recovery
Heptane	100
Bromodichloromethane	93
Dibromochloromethane	106
Cumene	99
Propylbenzene	98
Chloromethane	94
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	108
Acetone	98
Carbon Disulfide	107
2-Propanol	96
trans-1,2-Dichloroethene	107
2-Butanone (Methyl Ethyl Ketone)	98
Tetrahydrofuran	84
1,4-Dioxane	90
4-Methyl-2-pentanone	93
2-Hexanone	94
Bromoform	111
4-Ethyltoluene	102
Ethanol	102
Methyl tert-butyl ether	91
3-Chloropropene	108
2,2,4-Trimethylpentane	87
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-APR-2008 07:51
Lab File ID: 5043002.d Init. Cal. Date(s): 24-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 13:56 18:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-30apr.b/t14q424a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.26895	1.07858	0.010	15.00187	30.00000	Averaged
$ 107 Toluene-d8	0.95003	0.87170	0.010	8.24540	30.00000	Averaged
$ 138 Bromofluorobenzene	0.60703	0.63459	0.010	-4.54023	30.00000	Averaged
6 Propylene	1.93970	1.79964	0.010	7.22073	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	3.10671	2.68833	0.010	13.46700	30.00000	Averaged
9 Freon 114	2.53080	2.92493	0.010	-15.57313	30.00000	Averaged
10 Chloromethane	2.33479	2.19686	0.010	5.90762	30.00000	Averaged
13 Vinyl Chloride	1.89555	2.05454	0.010	-8.38764	30.00000	Averaged
12 1,3-Butadiene	1.87495	1.93281	0.010	-3.08601	30.00000	Averaged
15 Bromomethane	1.05964	1.25607	0.010	-18.53721	30.00000	Averaged
19 Chloroethane	0.94135	1.04020	0.010	-10.50080	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.16868	3.24649	0.010	-2.45566	30.00000	Averaged
26 Ethanol	0.74860	0.76495	0.010	-2.18450	30.00000	Averaged
30 Freon 113	1.95225	2.25561	0.010	-15.53889	30.00000	Averaged
31 1,1-Dichloroethene	2.50732	2.44120	0.010	2.63683	30.00000	Averaged
32 Acetone	0.96038	0.94064	0.010	2.05586	30.00000	Averaged
36 2-Propanol	3.62782	3.48565	0.010	3.91898	30.00000	Averaged
35 Carbon Disulfide	4.32685	4.65053	0.010	-7.48069	30.00000	Averaged
38 3-Chloropropene	0.74428	0.80449	0.010	-8.08918	30.00000	Averaged
43 Methylene Chloride	2.27526	2.09448	0.010	7.94561	30.00000	Averaged
46 MTBE	2.17525	1.97954	0.010	8.99725	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.63316	1.74531	0.010	-6.86703	30.00000	Averaged
51 Hexane	3.21249	3.14273	0.010	2.17158	30.00000	Averaged
56 Vinyl Acetate	0.41643	0.42762	0.010	-2.68538	30.00000	Averaged
55 1,1-Dichloroethane	3.01285	2.79192	0.010	7.33299	30.00000	Averaged
67 2-Butanone	0.73496	0.71726	0.010	2.40858	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.17486	1.98002	0.010	8.95882	30.00000	Averaged
70 Tetrahydrofuran	2.79990	2.36807	0.010	15.42305	30.00000	Averaged
72 Chloroform	2.88290	2.38498	0.010	17.27158	30.00000	Averaged
75 1,1,1-Trichloroethane	2.67702	2.29684	0.010	14.20149	30.00000	Averaged
74 Cyclohexane	2.12515	2.00827	0.010	5.49991	30.00000	Averaged
77 Carbon Tetrachloride	2.39650	2.16008	0.010	9.86527	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.26895	8.04231	0.010	13.23393	30.00000	Averaged
81 Benzene	1.25391	1.11435	0.010	11.13020	30.00000	Averaged
85 1,2-Dichloroethane	0.45123	0.42917	0.010	4.88784	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-APR-2008 07:51
Lab File ID: 5043002.d Init. Cal. Date(s): 24-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 13:56 18:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-30apr.b/t14q424a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.13705	0.13743	0.010	-0.27547	30.00000	Averaged
93 Trichloroethene	0.46494	0.43038	0.010	7.43252	30.00000	Averaged
98 1,2-Dichloropropane	0.41447	0.36536	0.010	11.84939	30.00000	Averaged
99 1,4-Dioxane	0.27484	0.24750	0.010	9.94665	30.00000	Averaged
100 Bromodichloromethane	0.60680	0.56505	0.010	6.88061	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.47482	0.43546	0.010	8.28968	30.00000	Averaged
106 4-Methyl-2-pentanone	0.33266	0.31034	0.010	6.70937	30.00000	Averaged
108 Toluene	1.21969	1.10599	0.010	9.32190	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.48163	0.48780	0.010	-1.28067	30.00000	Averaged
114 1,1,2-Trichloroethane	0.42511	0.42352	0.010	0.37486	30.00000	Averaged
116 Tetrachloroethene	0.55196	0.60938	0.010	-10.40300	30.00000	Averaged
119 2-Hexanone	0.50928	0.47630	0.010	6.47608	30.00000	Averaged
120 Dibromochloromethane	0.62784	0.66417	0.010	-5.78641	30.00000	Averaged
122 1,2-Dibromoethane	0.71076	0.68470	0.010	3.66617	30.00000	Averaged
126 Chlorobenzene	1.01178	1.02640	0.010	-1.44530	30.00000	Averaged
128 Ethyl Benzene	0.55955	0.56933	0.010	-1.74847	30.00000	Averaged
130 m,p-Xylene	0.69572	0.70243	0.010	-0.96414	30.00000	Averaged
132 o-Xylene	0.65043	0.65735	0.010	-1.06487	30.00000	Averaged
133 Styrene	1.04786	1.04338	0.010	0.42732	30.00000	Averaged
134 Bromoform	0.60204	0.66992	0.010	-11.27470	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.95835	0.88494	0.010	7.65975	30.00000	Averaged
144 4-Ethyltoluene	1.96672	2.00911	0.010	-2.15506	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.75006	1.74009	0.010	0.56965	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.46865	1.49762	0.010	-1.97322	30.00000	Averaged
155 1,3-Dichlorobenzene	1.01978	1.10088	0.010	-7.95260	30.00000	Averaged
156 1,4-Dichlorobenzene	1.28420	1.34420	0.010	-4.67231	30.00000	Averaged
157 alpha-Chlorotoluene	1.44493	1.66431	0.010	-15.18311	30.00000	Averaged
159 1,2-Dichlorobenzene	1.04603	1.12060	0.010	-7.12936	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.76931	0.83138	0.010	-8.06783	30.00000	Averaged
164 Hexachlorobutadiene	0.51903	0.56096	0.010	-8.07796	30.00000	Averaged
142 Propylbenzene	2.17097	2.13456	0.010	1.67726	30.00000	Averaged
136 Cumene	1.95163	1.93425	0.010	0.89040	30.00000	Averaged
165 Naphthalene	2.46443	2.79738	0.010	-13.51059	30.00000	Averaged
37 tert-Butyl-Alcohol	1.85830	1.48969	0.010	19.83599	40.00000	Averaged
11 Butane	0.50491	0.51159	0.010	-1.32277	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-APR-2008 07:51
Lab File ID: 5043002.d Init. Cal. Date(s): 24-APR-2008 24-APR-2008
Analysis Type: AIR Init. Cal. Times: 13:56 18:31
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-30apr.b/t14q424a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
17 Isopentane	3.12912	3.16856	0.010	-1.26052	30.00000	Averaged
94 Methyl Cyclohexane	0.68552	0.62613	0.010	8.66323	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30apr.b/5043002.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 30-APR-2008 07:51
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1612-1
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /var/chem/msd5.i/5-30apr.b/t14q424a.m
Meth Date : 30-Apr-2008 07:58 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	359511	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	276362			46.87- 106.87	76.87
8.059	8.059 (1.000)	49	612089			140.26- 200.26	170.26
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1395147	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	190174			0.00- 43.63	13.63
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1240059	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	567241			0.00- 30.00	45.74
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	387761	25.0000	21.250	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	242223			0.00- 30.00	62.47
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1216144	25.0000	22.939	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	106478			0.00- 30.00	8.76

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	856473			0.00- 30.00	70.43
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	786933	25.0000	26.135	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	927558			87.87- 147.87	117.87
16.575	16.575 (1.105)	176	763358			67.00- 127.00	97.00
6 Propylene					CAS #: 115-07-1		
2.308	2.308 (0.286)	41	1293980	50.0000	46.390	80.00- 120.00	100.00
2.308	2.308 (0.286)	42	857041			0.00- 30.00	66.23
2.308	2.308 (0.286)	39	878380			0.00- 30.00	67.88
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.363	2.363 (0.293)	85	1932970	50.0000	43.266	80.00- 120.00	100.00
2.363	2.363 (0.293)	87	614827			0.00- 30.00	31.81
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2103086	50.0000	57.786	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	668873			1.80- 61.80	31.80
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1579591	50.0000	47.046	80.00- 120.00	100.00
2.612	2.612 (0.324)	52	458768			0.00- 30.00	29.04
13 Vinyl Chloride					CAS #: 75-01-4		
2.805	2.805 (0.348)	62	1477258	50.0000	54.194	80.00- 120.00	100.00
2.805	2.805 (0.348)	64	465222			0.00- 30.00	31.49
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	1389733	50.0000	51.543	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	1588458			0.00- 30.00	114.30
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	903143	50.0000	59.269	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	849875			64.10- 124.10	94.10
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	747926	50.0000	55.250	80.00- 120.00	100.00
3.441	3.441 (0.427)	49	214488			0.00- 30.00	28.68
3.441	3.441 (0.427)	66	225828			0.00- 30.00	30.19
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	2334300	50.0000	51.228	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1532341			35.64- 95.64	65.64

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	550019	50.0000	51.092	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	104911			0.00- 30.00	19.07
4.105	4.105 (0.509)	46	229015			0.00- 30.00	41.64
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	1621830	50.0000	57.769	80.00- 120.00	100.00
4.547	4.547 (0.564)	153	1031729			33.62- 93.62	63.62
4.547	4.547 (0.564)	101	2040581			95.82- 155.82	125.82
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.571)	61	1755280	50.0000	48.682	80.00- 120.00	100.00
4.603	4.603 (0.571)	96	1099614			32.65- 92.65	62.65
4.603	4.603 (0.571)	98	702272			10.01- 70.01	40.01
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	676339	50.0000	48.972	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	2089941			0.00- 30.00	309.01
36 2-Propanol					CAS #: 67-63-0		
4.934	4.934 (0.612)	45	2506258	50.0000	48.040	80.00- 120.00	100.00
4.934	4.934 (0.612)	43	551984			0.00- 30.00	22.02
4.934	4.934 (0.612)	59	89972			0.00- 30.00	3.59
35 Carbon Disulfide					CAS #: 75-15-0		
4.934	4.934 (0.612)	76	3343833	50.0000	53.740	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	578445	50.0000	54.044	80.00- 120.00	100.00
5.211	5.211 (0.647)	41	2053921			0.00- 30.00	355.08
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1505974	50.0000	46.027	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	950666			33.13- 93.13	63.13
5.460	5.460 (0.677)	51	449540			0.00- 30.00	29.85
46 MTBE					CAS #: 1634-04-4		
5.792	5.792 (0.719)	73	1423330	50.0000	45.501	80.00- 120.00	100.00
5.792	5.792 (0.719)	57	417840			0.00- 59.36	29.36
5.792	5.792 (0.719)	41	464712			0.00- 30.00	32.65
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.847	5.847 (0.726)	96	1254917	50.0000	53.434	80.00- 120.00	100.00
5.847	5.847 (0.726)	61	1760075			110.25- 170.25	140.25
5.847	5.847 (0.726)	98	807953			0.00- 30.00	64.38

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	2259690	50.0000	48.914	80.00- 120.00	100.00
6.179	6.179 (0.767)	43	1625041			0.00- 30.00	71.91
6.179	6.179 (0.767)	86	353558			0.00- 30.00	15.65
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	307465	50.0000	51.343	80.00- 120.00	100.00
6.676	6.676 (0.828)	43	3691863			0.00- 30.00	1200.74
6.676	6.676 (0.828)	42	282502			0.00- 30.00	91.88
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	2007451	50.0000	46.334	80.00- 120.00	100.00
6.621	6.621 (0.822)	65	613053			0.54- 60.54	30.54
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	515726	50.0000	48.796	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2739773			501.25- 561.25	531.25
7.672	7.672 (0.952)	57	182526			0.00- 30.00	35.39
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	1423675	50.0000	45.520	80.00- 120.00	100.00
7.644	7.644 (0.949)	96	1134228			49.67- 109.67	79.67
7.644	7.644 (0.949)	98	717734			20.41- 80.41	50.41
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	1702698	50.0000	42.288	80.00- 120.00	100.00
8.059	8.059 (1.000)	71	488885			0.00- 58.71	28.71
8.059	8.059 (1.000)	72	521587			0.00- 30.00	30.63
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1714853	50.0000	41.364	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1123571			35.52- 95.52	65.52
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1651480	50.0000	42.899	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1069080			34.73- 94.73	64.73
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1443991	50.0000	47.250	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1977782			106.97- 166.97	136.97
8.418	8.418 (1.045)	41	1155633			50.03- 110.03	80.03
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.695	8.695 (1.079)	119	1553144	50.0000	45.067	80.00- 120.00	100.00
8.695	8.695 (1.079)	117	1603164			73.22- 133.22	103.22

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	5782597	50.0000	43.383	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1885959			0.00- 30.00	32.61
9.110	9.110 (1.130)	41	1582586			0.00- 30.00	27.37
81 Benzene					CAS #: 71-43-2		
9.110	9.110 (0.919)	78	3109359	50.0000	44.435	80.00- 120.00	100.00
9.110	9.110 (0.919)	77	717690			0.00- 30.00	23.08
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1197524	50.0000	47.556	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	362563			0.00- 30.00	30.28
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	383463	50.0000	50.138	80.00- 120.00	100.00
9.497	9.497 (0.958)	43	2465333			0.00- 30.00	642.91
9.497	9.497 (0.958)	71	1060882			0.00- 30.00	276.66
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1200886	50.0000	46.284	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1327692			80.56- 140.56	110.56
10.326	10.326 (1.042)	97	775668			34.59- 94.59	64.59
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	1019453	50.0000	44.075	80.00- 120.00	100.00
10.851	10.851 (1.095)	62	735278			42.12- 102.12	72.12
10.851	10.851 (1.095)	41	749501			43.52- 103.52	73.52
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	690604	50.0000	45.027	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	519134			45.17- 105.17	75.17
11.073	11.073 (1.117)	57	173147			0.00- 30.00	25.07
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	1576663	50.0000	46.560	80.00- 120.00	100.00
11.404	11.404 (1.151)	85	1045010			36.28- 96.28	66.28
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1215049	50.0000	45.855	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	393214			2.36- 62.36	32.36
12.317	12.317 (1.243)	39	877785			42.24- 102.24	72.24
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	865944	50.0000	46.645	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2584506			0.00- 30.00	298.46
12.593	12.593 (1.271)	85	330890			0.00- 30.00	38.21

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	3086031	50.0000	45.339	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1826166			29.18- 89.18	59.18
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1209792	50.0000	50.640	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	386210			1.92- 61.92	31.92
13.368	13.368 (0.891)	39	861358			41.20- 101.20	71.20
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1050379	50.0000	49.812	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	653328			32.20- 92.20	62.20
13.644	13.644 (0.910)	83	865746			52.42- 112.42	82.42
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1511344	50.0000	55.202	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	1073819			41.05- 101.05	71.05
13.699	13.699 (0.913)	131	1019579			37.46- 97.46	67.46
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1181276	50.0000	46.762	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2546468			185.57- 245.57	215.57
14.031	14.031 (0.935)	100	238078			0.00- 30.00	20.15
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1647217	50.0000	52.893	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1244840			0.00- 30.00	75.57
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1698136	50.0000	48.167	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1621745			65.50- 125.50	95.50
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2545602	50.0000	50.723	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	832882			2.72- 62.72	32.72
15.027	15.027 (1.002)	77	1344483			22.82- 82.82	52.82
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1412016	50.0000	50.874	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4099145			0.00- 30.00	290.30
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1742107	50.0000	50.482	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3263548			0.00- 30.00	187.33
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1630314	50.0000	50.532	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	3166010			164.20- 224.20	194.20
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2587706	50.0000	49.786	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1136749			13.93- 73.93	43.93
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1661478	50.0000	55.637	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	844679			20.84- 80.84	50.84
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2194762	50.0000	46.170	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1436679			35.46- 95.46	65.46
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4982819	50.0000	51.078	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1566165			1.43- 61.43	31.43
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4315642	50.0000	49.715	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2242676			0.00- 30.00	51.97
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3714286	50.0000	50.987	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1859096			20.05- 80.05	50.05
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2730319	50.0000	53.976	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1734136			0.00- 30.00	63.51
17.764	17.764 (1.184)	111	970780			0.00- 30.00	35.56
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3333785	50.0000	52.336	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2154671			0.00- 30.00	64.63
17.847	17.847 (1.190)	111	1228594			0.00- 30.00	36.85
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4127694	50.0000	57.592	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	956702			0.00- 30.00	23.18
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2779231	50.0000	53.565	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1787818			34.33- 94.33	64.33
18.206	18.206 (1.214)	111	976260			5.13- 65.13	35.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	2061914	50.0000	54.034	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1938151			64.00- 124.00	94.00
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1391252	50.0000	54.039	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	872001			32.68- 92.68	62.68
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5293950	50.0000	49.161	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1344266			0.00- 30.00	25.39
16.824	16.824 (1.122)	105	201550			0.00- 30.00	3.81
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4797164	50.0000	49.555	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1370715			0.00- 30.00	28.57
16.326	16.326 (1.088)	51	532343			0.00- 30.00	11.10
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6937846	50.0000	56.755	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	852938			0.00- 30.00	12.29
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.598	5.598 (0.695)	59	1071118	50.0000	40.082	80.00- 120.00	100.00
5.598	5.598 (0.695)	41	309776			0.00- 30.00	28.92
5.598	5.598 (0.695)	57	103563			0.00- 30.00	9.67
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	367841	50.0000	50.661	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	2874333			0.00- 30.00	781.40
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.427)	43	2278263	50.0000	50.630	80.00- 120.00	100.00
3.441	3.441 (0.427)	57	1360840			0.00- 30.00	59.73
3.441	3.441 (0.427)	72	139883			0.00- 30.00	6.14
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	1747099	50.0000	45.668	80.00- 120.00	100.00
10.575	10.575 (1.067)	98	882896			0.00- 30.00	50.53
10.575	10.575 (1.067)	55	1642400			0.00- 30.00	94.01

Report Date: 30-Apr-2008 07:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5043002.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 30-APR-2008
Calibration Time: 07:51
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	359511	215707	503315	359511	0.00
92 1,4-Difluorobenze	1395147	837088	1953206	1395147	0.00
125 Chlorobenzene-d5	1240059	744035	1736083	1240059	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.

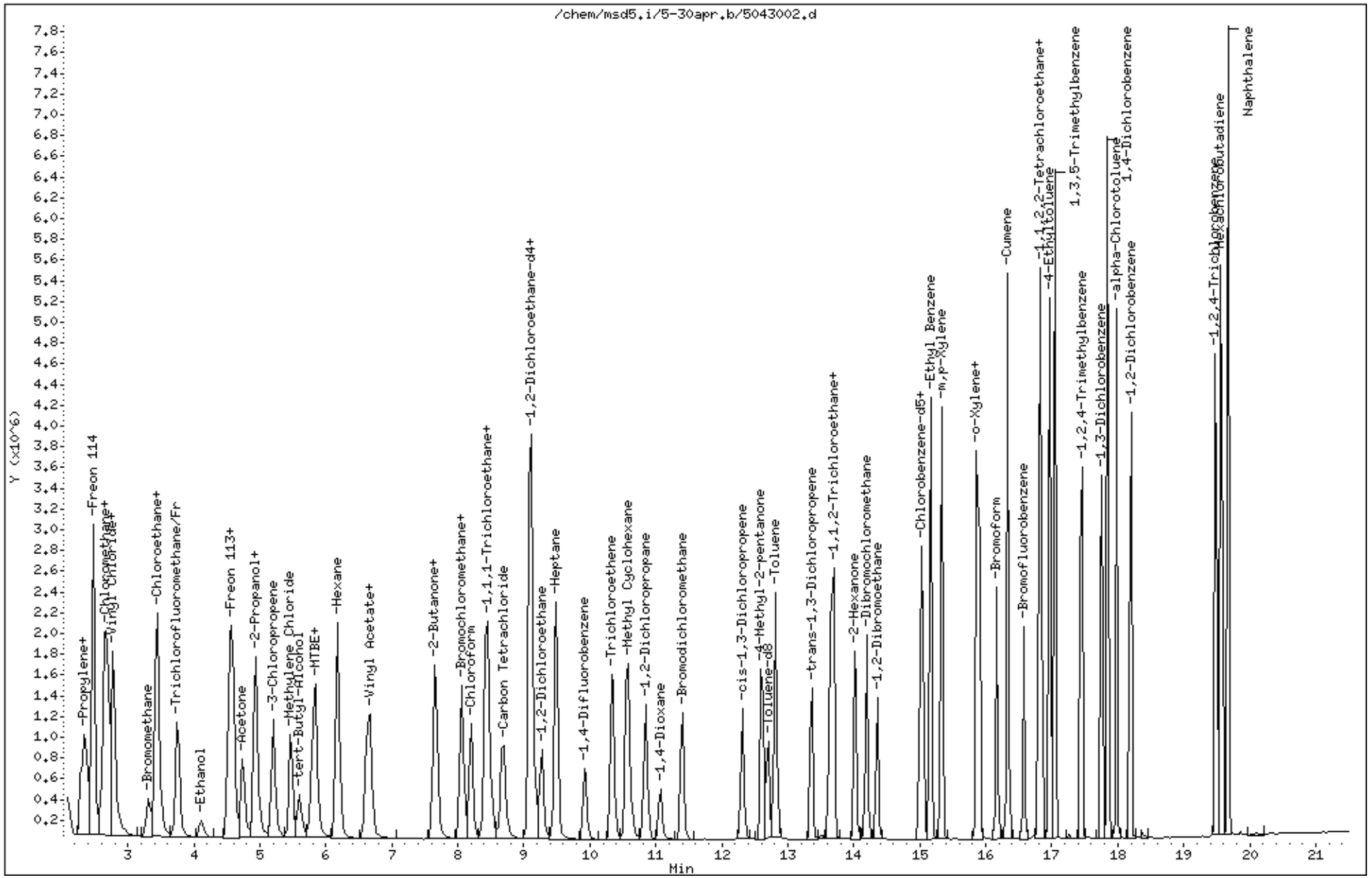
0152

Data File: /chem/msd5.i/5-30apr.b/5043002.d
Date : 30-APR-2008 07:51
Client ID: CCV-1
Sample Info: 50mL #1612-1

Instrument: msd5.i

Operator: kr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804476-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 08:18 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	124
Vinyl Chloride	116
Bromomethane	130
Chloroethane	119
Freon 11	107
1,1-Dichloroethene	112
Freon 113	135 Q
Methylene Chloride	103
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	97
Chloroform	88
1,1,1-Trichloroethane	91
Carbon Tetrachloride	96
Benzene	96
1,2-Dichloroethane	104
Trichloroethene	99
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	100
Toluene	104
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	106
Tetrachloroethene	118
1,2-Dibromoethane (EDB)	100
Chlorobenzene	106
Ethyl Benzene	105
m,p-Xylene	106
o-Xylene	108
Styrene	107
1,1,2,2-Tetrachloroethane	98
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	121
1,2-Dichlorobenzene	107
1,3-Butadiene	104
Hexane	101
Cyclohexane	98

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804476-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5043003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/30/08 08:18 AM**	

Compound	%Recovery
Heptane	108
Bromodichloromethane	102
Dibromochloromethane	112
Cumene	108
Propylbenzene	106
Chloromethane	98
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	107
Acetone	101
Carbon Disulfide	113
2-Propanol	100
trans-1,2-Dichloroethene	109
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	83
1,4-Dioxane	95
4-Methyl-2-pentanone	102
2-Hexanone	100
Bromoform	118
4-Ethyltoluene	111
Ethanol	110
Methyl tert-butyl ether	109
3-Chloropropene	112
2,2,4-Trimethylpentane	91
Naphthalene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 30-Apr-2008 08:24

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: kr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	49.111	98.22	70-130
9 Freon 114	50.000	61.977	123.95	70-130
10 Chloromethane	50.000	49.196	98.39	70-130
13 Vinyl Chloride	50.000	58.090	116.18	70-130
12 1,3-Butadiene	50.000	51.912	103.82	60-140
15 Bromomethane	50.000	65.063	130.13*	70-130
19 Chloroethane	50.000	59.426	118.85	70-130
20 Trichlorofluoromet	50.000	53.316	106.63	70-130
26 Ethanol	50.000	55.299	110.60	60-140
30 Freon 113	50.000	67.618	135.24*	70-130
31 1,1-Dichloroethene	50.000	55.803	111.61	70-130
35 Carbon Disulfide	50.000	56.306	112.61	60-140
32 Acetone	50.000	50.311	100.62	60-140
36 2-Propanol	50.000	50.075	100.15	60-140
38 3-Chloropropene	50.000	56.284	112.57	60-140
43 Methylene Chloride	50.000	51.349	102.70	70-130
46 MTBE	50.000	54.458	108.92	60-140
47 trans-1,2-Dichloro	50.000	54.653	109.31	60-140
51 Hexane	50.000	50.500	101.00	60-140
55 1,1-Dichloroethane	50.000	49.850	99.70	70-130
66 cis-1,2-Dichloroet	50.000	48.347	96.69	70-130
67 2-Butanone	50.000	51.092	102.18	60-140
70 Tetrahydrofuran	50.000	41.589	83.18	60-140
72 Chloroform	50.000	44.095	88.19	70-130
74 Cyclohexane	50.000	48.781	97.56	60-140
75 1,1,1-Trichloroeth	50.000	45.332	90.66	70-130
56 Vinyl Acetate	50.000	54.280	108.56	60-140
77 Carbon Tetrachlori	50.000	48.003	96.01	70-130
80 2,2,4-Trimethylpen	50.000	45.545	91.09	60-140
81 Benzene	50.000	48.132	96.26	70-130
85 1,2-Dichloroethane	50.000	52.049	104.10	70-130
90 Heptane	50.000	54.020	108.04	60-140
93 Trichloroethene	50.000	49.379	98.76	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	48.007	96.01	70-130
99 1,4-Dioxane	50.000	47.533	95.07	60-140
100 Bromodichlorometha	50.000	51.248	102.50	60-140
103 cis-1,3-Dichloropr	50.000	50.000	100.00	70-130
106 4-Methyl-2-pentano	50.000	51.265	102.53	60-140
108 Toluene	50.000	52.219	104.44	70-130
113 trans-1,3-Dichloro	50.000	53.389	106.78	70-130
114 1,1,2-Trichloroeth	50.000	52.984	105.97	70-130
116 Tetrachloroethene	50.000	58.818	117.64	70-130
119 2-Hexanone	50.000	49.840	99.68	60-140
120 Dibromochlorometha	50.000	56.203	112.41	60-140
122 1,2-Dibromoethane	50.000	49.874	99.75	70-130
126 Chlorobenzene	50.000	53.188	106.38	70-130
128 Ethyl Benzene	50.000	52.616	105.23	70-130
130 m,p-Xylene	50.000	53.121	106.24	70-130
132 o-Xylene	50.000	54.050	108.10	70-130
133 Styrene	50.000	53.581	107.16	70-130
134 Bromoform	50.000	58.804	117.61	60-140
136 Cumene	50.000	53.813	107.63	60-140
141 1,1,2,2-Tetrachlor	50.000	49.288	98.58	70-130
142 Propylbenzene	50.000	53.007	106.01	60-140
144 4-Ethyltoluene	50.000	55.350	110.70	60-140
147 1,3,5-Trimethylben	50.000	53.350	106.70	70-130
152 1,2,4-Trimethylben	50.000	51.652	103.30	70-130
155 1,3-Dichlorobenzen	50.000	55.720	111.44	70-130
156 1,4-Dichlorobenzen	50.000	55.260	110.52	70-130
157 alpha-Chlorotoluen	50.000	60.569	121.14	70-130
159 1,2-Dichlorobenzen	50.000	53.545	107.09	70-130
163 1,2,4-Trichloroben	50.000	53.935	107.87	70-130
164 Hexachlorobutadien	50.000	53.519	107.04	70-130
6 Propylene	50.000	52.249	104.50	70-130
165 Naphthalene	50.000	63.093	126.19	60-140
11 Butane	50.000	54.122	108.24	70-130
17 Isopentane	50.000	50.949	101.90	70-130
94 Methyl Cyclohexane	50.000	49.507	99.01	70-130
37 tert-Butyl-Alcohol	50.000	45.958	91.92	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	20.302	81.21	70-130
$ 107 Toluene-d8	25.000	22.965	91.86	70-130
$ 138 Bromofluorobenzene	25.000	25.926	103.71	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30apr.b/5043003.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 30-APR-2008 08:18
Operator : kr Inst ID: msd5.i
Smp Info : 50mL #1576-338
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-30apr.b/t14q424a.m
Meth Date : 30-Apr-2008 07:58 sscott Quant Type: ISTD
Cal Date : 24-APR-2008 16:48 Cal File: 5042419.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	294351	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	227873			46.87- 106.87	77.42
8.059	8.059 (1.000)	49	487153			140.26- 200.26	165.50
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1114943	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	158011			0.00- 43.63	14.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1025290	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	467771			0.00- 30.00	45.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137 (1.130)	65	303326	20.3021	20.302	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	182378			0.00- 30.00	60.13
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	972998	22.9648	22.965	80.00- 120.00	100.00
12.677	12.704 (1.279)	70	86629			0.00- 30.00	8.90

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	657413			0.00- 30.00	67.57
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	645447	25.9264	25.926	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	745818			87.87- 147.87	115.55
16.575	16.575 (1.105)	176	639348			67.00- 127.00	99.06
6 Propylene					CAS #: 115-07-1		
2.280	2.308 (0.283)	41	1193272	52.2491	52.249	80.00- 120.00	100.00
2.253	2.308 (0.280)	42	798282			0.00- 30.00	66.90
2.253	2.308 (0.280)	39	812827			0.00- 30.00	68.12
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.363 (0.290)	85	1796418	49.1112	49.111	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	592243			0.00- 30.00	32.97
9 Freon 114					CAS #: 76-14-2		
2.446	2.474 (0.304)	135	1846782	61.9772	61.977	80.00- 120.00	100.00
2.446	2.474 (0.304)	137	576657			1.80- 61.80	31.23
10 Chloromethane					CAS #: 74-87-3		
2.585	2.612 (0.321)	50	1352401	49.1962	49.196	80.00- 120.00	100.00
2.585	2.612 (0.321)	52	394336			0.00- 30.00	29.16
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.805 (0.345)	62	1296458	58.0895	58.090	80.00- 120.00	100.00
2.778	2.805 (0.345)	64	389739			0.00- 30.00	30.06
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.778 (0.341)	54	1146005	51.9124	51.912	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	1316817			0.00- 30.00	114.90
15 Bromomethane					CAS #: 74-83-9		
3.276	3.303 (0.406)	94	811749	65.0633	65.063	80.00- 120.00	100.00(R)
3.276	3.303 (0.406)	96	766572			64.10- 124.10	94.43
19 Chloroethane					CAS #: 75-00-3		
3.414	3.441 (0.424)	64	658651	59.4262	59.426	80.00- 120.00	100.00
3.386	3.441 (0.420)	49	189521			0.00- 30.00	28.77
3.414	3.441 (0.424)	66	193283			0.00- 30.00	29.35
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.746 (0.461)	101	1989140	53.3164	53.316	80.00- 120.00	100.00
3.718	3.746 (0.461)	103	1306802			35.64- 95.64	65.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.105 (0.506)	45	487406	55.2987	55.299	80.00- 120.00	100.00
4.078	4.105 (0.506)	43	93137			0.00- 30.00	19.11
4.078	4.105 (0.506)	46	207319			0.00- 30.00	42.54
30 Freon 113					CAS #: 76-13-1		
4.520	4.547 (0.561)	151	1554262	67.6181	67.618	80.00- 120.00	100.00(R)
4.520	4.547 (0.561)	153	985948			33.62- 93.62	63.44
4.520	4.547 (0.561)	101	1949172			95.82- 155.82	125.41
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.603 (0.568)	61	1647375	55.8029	55.803	80.00- 120.00	100.00
4.575	4.603 (0.568)	96	1052383			32.65- 92.65	63.88
4.575	4.603 (0.568)	98	682912			10.01- 70.01	41.45
32 Acetone					CAS #: 67-64-1		
4.714	4.741 (0.585)	58	568899	50.3113	50.311	80.00- 120.00	100.00
4.714	4.741 (0.585)	43	1806495			0.00- 30.00	317.54
36 2-Propanol					CAS #: 67-63-0		
4.907	4.934 (0.609)	45	2138908	50.0749	50.075	80.00- 120.00	100.00
4.907	4.934 (0.609)	43	491975			0.00- 30.00	23.00
4.907	4.934 (0.609)	59	74372			0.00- 30.00	3.48
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.934 (0.609)	76	2868474	56.3058	56.306	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.211 (0.643)	76	493225	56.2836	56.284	80.00- 120.00	100.00
5.184	5.211 (0.643)	41	1743347			0.00- 30.00	353.46
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	1375593	51.3491	51.349	80.00- 120.00	100.00
5.432	5.460 (0.674)	84	876358			33.13- 93.13	63.71
5.432	5.460 (0.674)	51	423002			0.00- 30.00	30.75
46 MTBE					CAS #: 1634-04-4		
5.764	5.792 (0.715)	73	1394745	54.4578	54.458	80.00- 120.00	100.00
5.764	5.792 (0.715)	57	409640			0.00- 59.36	29.37
5.764	5.792 (0.715)	41	434707			0.00- 30.00	31.17
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.847 (0.722)	96	1050917	54.6529	54.653	80.00- 120.00	100.00
5.820	5.847 (0.722)	61	1516493			110.25- 170.25	144.30
5.820	5.847 (0.722)	98	681323			0.00- 30.00	64.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.179 (0.763)	57	1910099	50.4996	50.500	80.00- 120.00	100.00
6.151	6.179 (0.763)	43	1378801			0.00- 30.00	72.18
6.151	6.179 (0.763)	86	305596			0.00- 30.00	16.00
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.676 (0.825)	86	266138	54.2795	54.280	80.00- 120.00	100.00
6.649	6.676 (0.825)	43	3171406			0.00- 30.00	1191.64
6.649	6.676 (0.825)	42	235191			0.00- 30.00	88.37
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.621 (0.818)	63	1768354	49.8501	49.850	80.00- 120.00	100.00
6.594	6.621 (0.818)	65	524093			0.54- 60.54	29.64
67 2-Butanone					CAS #: 78-93-3		
7.644	7.672 (0.949)	72	442121	51.0917	51.092	80.00- 120.00	100.00
7.644	7.672 (0.949)	43	2324291			501.25- 561.25	525.71
7.644	7.672 (0.949)	57	163262			0.00- 30.00	36.93
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.644 (0.945)	61	1238014	48.3469	48.347	80.00- 120.00	100.00
7.617	7.644 (0.945)	96	995483			49.67- 109.67	80.41
7.617	7.644 (0.945)	98	628561			20.41- 80.41	50.77
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.059 (0.997)	42	1371037	41.5891	41.589	80.00- 120.00	100.00
8.031	8.059 (0.997)	71	383433			0.00- 58.71	27.97
8.031	8.059 (0.997)	72	406405			0.00- 30.00	29.64
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1496734	44.0949	44.095	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	991786			35.52- 95.52	66.26
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1428827	45.3317	45.332	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	939241			34.73- 94.73	65.74
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.418 (1.045)	84	1220582	48.7810	48.781	80.00- 120.00	100.00
8.419	8.418 (1.045)	56	1705456			106.97- 166.97	139.72
8.419	8.418 (1.045)	41	986211			50.03- 110.03	80.80
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.695 (1.075)	119	1354484	48.0033	48.003	80.00- 120.00	100.00
8.667	8.695 (1.075)	117	1380616			73.22- 133.22	101.93

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	4970459	45.5449	45.545	80.00- 120.00	100.00
9.082	9.110 (1.127)	56	1631609			0.00- 30.00	32.83
9.082	9.110 (1.127)	41	1359242			0.00- 30.00	27.35
81 Benzene					CAS #: 71-43-2		
9.082	9.110 (0.916)	78	2691619	48.1320	48.132	80.00- 120.00	100.00
9.082	9.110 (0.916)	77	638422			0.00- 30.00	23.72
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	1047427	52.0491	52.049	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	316329			0.00- 30.00	30.20
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	330174	54.0195	54.020	80.00- 120.00	100.00
9.469	9.497 (0.955)	43	2115771			0.00- 30.00	640.80
9.469	9.497 (0.955)	71	893179			0.00- 30.00	270.52
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1023885	49.3793	49.379	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1143361			80.56- 140.56	111.67
10.326	10.326 (1.042)	97	673108			34.59- 94.59	65.74
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.824	10.851 (1.092)	63	887385	48.0073	48.007	80.00- 120.00	100.00
10.852	10.851 (1.095)	62	631318			42.12- 102.12	71.14
10.824	10.851 (1.092)	41	615124			43.52- 103.52	69.32
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	582625	47.5332	47.533	80.00- 120.00	100.00
11.045	11.073 (1.114)	58	443717			45.17- 105.17	76.16
11.073	11.073 (1.117)	57	142621			0.00- 30.00	24.48
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.404 (1.151)	83	1386882	51.2481	51.248	80.00- 120.00	100.00
11.405	11.404 (1.151)	85	900767			36.28- 96.28	64.95
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1058790	50.0002	50.000	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	334598			2.36- 62.36	31.60
12.290	12.317 (1.240)	39	765757			42.24- 102.24	72.32
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.593 (1.271)	58	760563	51.2650	51.265	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	2287893			0.00- 30.00	300.82
12.594	12.593 (1.271)	85	298751			0.00- 30.00	39.28

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	2840481	52.2193	52.219	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1651890			29.18- 89.18	58.16
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1054561	53.3892	53.389	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	333740			1.92- 61.92	31.65
13.340	13.368 (0.889)	39	741538			41.20- 101.20	70.32
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	923754	52.9840	52.984	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	581763			32.20- 92.20	62.98
13.644	13.644 (0.910)	83	752409			52.42- 112.42	81.45
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.699 (0.913)	166	1331468	58.8185	58.818	80.00- 120.00	100.00
13.672	13.699 (0.912)	129	926533			41.05- 101.05	69.59
13.672	13.699 (0.912)	131	892754			37.46- 97.46	67.05
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	1040987	49.8405	49.840	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2210576			185.57- 245.57	212.35
14.004	14.031 (0.934)	100	203013			0.00- 30.00	19.50
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1447144	56.2026	56.203	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1115761			0.00- 30.00	77.10
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1453786	49.8738	49.874	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1375412			65.50- 125.50	94.61
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	2207020	53.1880	53.188	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	715601			2.72- 62.72	32.42
15.027	15.027 (1.002)	77	1190189			22.82- 82.82	53.93
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1207435	52.6160	52.616	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3576273			0.00- 30.00	296.19
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1515688	53.1212	53.121	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2843615			0.00- 30.00	187.61
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1441794	54.0503	54.050	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	2812057			164.20- 224.20	195.04
133 Styrene					CAS #: 100-42-5		
15.912	15.911 (1.061)	104	2302616	53.5812	53.581	80.00- 120.00	100.00
15.912	15.911 (1.061)	78	997658			13.93- 73.93	43.33
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1451900	58.8036	58.804	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	760963			20.84- 80.84	52.41
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1937184	49.2879	49.288	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1274613			35.46- 95.46	65.80
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4464410	55.3496	55.350	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1408257			1.43- 61.43	31.54
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3829073	53.3498	53.350	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1945145			0.00- 30.00	50.80
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3111059	51.6517	51.652	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1579124			20.05- 80.05	50.76
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2330375	55.7200	55.720	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1466964			0.00- 30.00	62.95
17.764	17.764 (1.184)	111	829629			0.00- 30.00	35.60
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2910404	55.2603	55.260	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1829694			0.00- 30.00	62.87
17.847	17.847 (1.190)	111	1027435			0.00- 30.00	35.30
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3589231	60.5687	60.569	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	861478			0.00- 30.00	24.00
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2297056	53.5453	53.545	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1465980			34.33- 94.33	63.82
18.206	18.206 (1.214)	111	828406			5.13- 65.13	36.06

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	1701687	53.9351	53.935	80.00- 120.00	100.00
19.478	19.506 (1.299)	182	1630800			64.00- 124.00	95.83
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1139236	53.5194	53.519	80.00- 120.00	100.00
19.561	19.589 (1.304)	223	723168			32.68- 92.68	63.48
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4719456	53.0068	53.007	80.00- 120.00	100.00
16.824	16.824 (1.122)	120	1197306			0.00- 30.00	25.37
16.824	16.824 (1.122)	105	178770			0.00- 30.00	3.79
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4307157	53.8130	53.813	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1238984			0.00- 30.00	28.77
16.326	16.326 (1.088)	51	467059			0.00- 30.00	10.84
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6376819	63.0931	63.093	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	781397			0.00- 30.00	12.25
37 tert-Butyl-Alcohol					CAS #: 75-65-0		
5.571	5.598 (0.691)	59	1005553	45.9582	45.958	80.00- 120.00	100.00
5.571	5.598 (0.691)	41	279770			0.00- 30.00	27.82
5.571	5.598 (0.691)	57	104062			0.00- 30.00	10.35
11 Butane					CAS #: 106-97-8		
2.668	2.695 (0.331)	58	321744	54.1219	54.122	80.00- 120.00	100.00
2.668	2.695 (0.331)	43	2481867			0.00- 30.00	771.38
17 Isopentane					CAS #: 78-78-4		
3.414	3.441 (0.424)	43	1877096	50.9494	50.949	80.00- 120.00	100.00
3.414	3.441 (0.424)	57	1133196			0.00- 30.00	60.37
3.414	3.441 (0.424)	72	113552			0.00- 30.00	6.05
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.575 (1.064)	83	1513580	49.5075	49.507	80.00- 120.00	100.00
10.548	10.575 (1.064)	98	788444			0.00- 30.00	52.09
10.548	10.575 (1.064)	55	1432147			0.00- 30.00	94.62

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 30-Apr-2008 08:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5043003.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-30apr.b/t14q424a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 30-APR-2008
Calibration Time: 07:51
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	359511	215707	503315	294351	-18.12
92 1,4-Difluorobenze	1395147	837088	1953206	1114943	-20.08
125 Chlorobenzene-d5	1240059	744035	1736083	1025290	-17.32

		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.

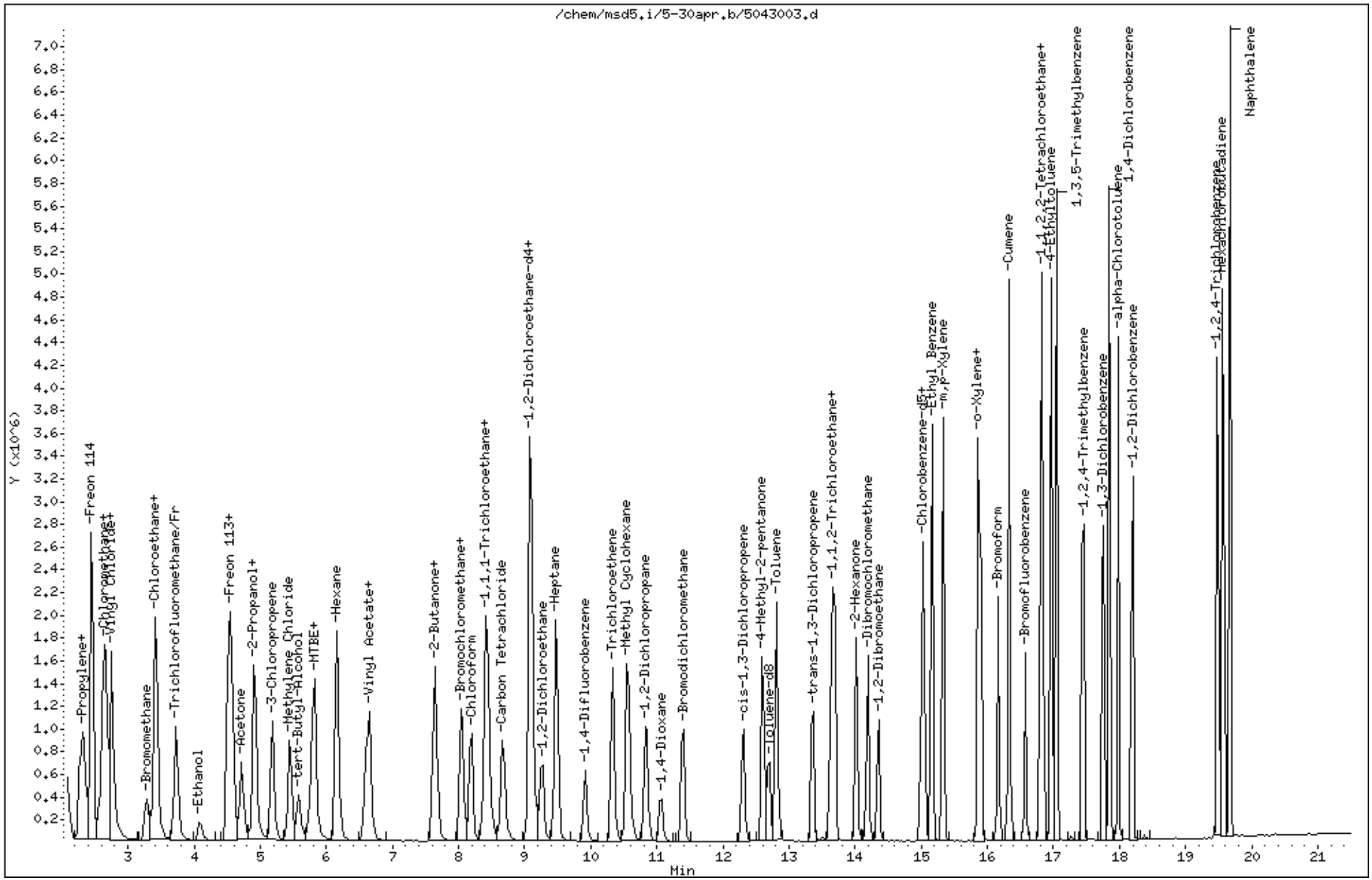
0167

Data File: /chem/msd5.i/5-30apr.b/5043003.d
Date : 30-APR-2008 08:18
Client ID: LCS-1
Sample Info: 50mL #1576-338

Instrument: msd5.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



@ Air Toxics Ltd. **MSD-5** **Logbook #: 1637**

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.93
75	30.0 – 60.0% of mass 95	41.76
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.44
173	Less than 2.0% of mass 174	(0.62)[1]
174	Greater than 50.0% of mass 95	86.29
175	5.0 – 9.0% of mass 174	(6.80)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.00)[1]
177	5.0 – 9.0% of mass 176	(6.61)[2]

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

BFB Injection Date: 4/30/08
BFB Injection Time: 0726
BFB File ID: 5043201
Tekmar Purge Flow: 13.3 ml/min
Vacuum: 1.58x10⁻⁶

IS/S Std.#:	1541-103	Exp. Date: 7/4/08
BCM	359511	
1,4-DFB	1395147	
CB-d5	1290059	

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

Verify 176/174 m/z Ratio: (91008 / 93876) x 100 = 97.005

NOAH Cart #: 11/8 **File #:** 5043005 / 5042914

Calculation Check:

ppbv of compound = $\frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1216144\ )}{(\ 1395147\ )} \times \frac{(\ 25.000\ )}{(\ 0.950021\ )} =$ 22.9387

Reported Result 22.939

File ID:	5043002
Compound:	Toluene-d8
Initials:	SS

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5043001	BFB Tune Check	1976-138	30 psi	2 mL	1.00	4/30/08	0726	SS	
2	✓	02	11612-1 200 ppbv	CCV-1	50 ppbv	50 mL			0751	SS	
3	✓	03	1576-338 200 ppbv	LCS-1	50 ppbv	50 mL			0818	SS	
4	✓	04	↓	LCS B	↓	↓			0857	SS	
5	✓	05	Lab Blank	12941	Humid	200 mL			1008	SS	
6	✓	06	1576-335 100 ppbv	Can 580	2500 ppbv	5 mL			1129	SS	
7	✓	07	Lab Blank	12941	Humid	200 mL	↓		1202	SS	
8	✓	08	0804497-01A	25309	9.7 psi	1.0 mL	392		1414	KR	
9	✓	09	0804496-01A	33382	7.0 psi	2 mL	1.75	↓	1521	KR	

Signature

4/30/08
Date

0168

@ Air Toxics Ltd.   **MSD-5**   Logbook #: 1637

10	✓	5043010	0804496-02A	34210 ~~1.49~~	3.0"Hg-5psi	200ml	1.49	4-30-08	1553	KR	
11	✓	11	0804641A-01A	34478 ~~2.23~~	12.0"Hg	↓	2.23	↓	1626	KR	
12	✓	12	0804581-01A	35593 ~~1.41~~	5.5"Hg-15psi	35ml	14.1		1653	KR	
13	X	13	0804640-01A	25268	2.5"Hg-5psi	200ml	1.46		1726	KR	RR 40ml F.I.[illegible]
14	X	14	↓ 01AA	↓	↓		↓		1758	KR	
15	✓	15	02AA	33926	2.0"Hg		1.44		1831	KR	RR 60ml
16	X	16	↓ 03A	10763	6.0"Hg	↓	1.68		1904	KR	RR 200ml
17	P	17	System Blank	12941	Humid	200ml	1.00		2046	KR	Cert Cert# 7, leg 5 ATCS
18	✓	18	0804640-01A	25268	2.5"Hg-5psi	40ml	7.30		2134	KR	
19	✓	19	-02A	33926	2.0"Hg	60ml	4.80		2202	KR	
20	✓	20	-03A	10763	6.0"Hg	200ml	1.68		2234	KR	
21	✓	21	-04A	33655	3.5"Hg		1.52	↓	2339	KR	
22	✓	22	-05A	11871	4.0"Hg		1.55	5/1/08	0011	DM/KS	
23	✓	23	↓ -06A	12675	2.0"Hg	↓	1.75		0044	DM/KS	
24	✓	24	0804569-01A	10791	0.4psi	40ml	6.50		0111	DM/KS	
25	✓	25	-01AA	[illegible]	↓	↓	↓		0139	DM/KS	
26	✓	26	-02A	35285	0.4psi	25ml	10.4		0206	DM/KS	
27	X	27	-03A	96115	0.4psi	10ml	26.0		0238	DM	vv 20ml
28	X	28	-04A	9568	0.5"Hg	7ml	38.3		0309	DM	vv 14ml
29	✓	29	↓ -05A	9924	0.4psi	200ml	1.30		0342	DM/KS	
30	✓	30	-03A	96115	0.4psi	20ml	13.0		0518	DM/KS	
31	✓	31	↓ -04A	9568	0.5"Hg	14ml	19.2		0546	DM/KS	
32											5/1/08

Comments:

Signature: [signature]   Date: 5/1/08

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-24apr.b/5042412.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 24-APR-2008 13:23
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-24apr.b/bfb30.m
Meth Date : 24-Apr-2008 13:12 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	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	1236184			100.00- 100.00	100.00
3.803	3.900	-0.097	50	290786			15.00- 40.00	23.52
3.803	3.900	-0.097	75	512259			30.00- 60.00	41.44
3.803	3.900	-0.097	96	78390			5.00- 9.00	6.34
3.803	3.900	-0.097	173	6418			0.00- 2.00	0.65
3.803	3.900	-0.097	174	991924			50.00- 100.00	80.24
3.803	3.900	-0.097	175	69740			5.00- 9.00	7.03
3.803	3.900	-0.097	176	952447			95.00- 101.00	96.02
3.803	3.900	-0.097	177	59357			5.00- 9.00	6.23

Data File: /var/chem/msd5.i/5-24apr.b/5042412.d

Page 1

Date : 24-APR-2008 13:23

Client ID: BFB

Instrument: msd5.i

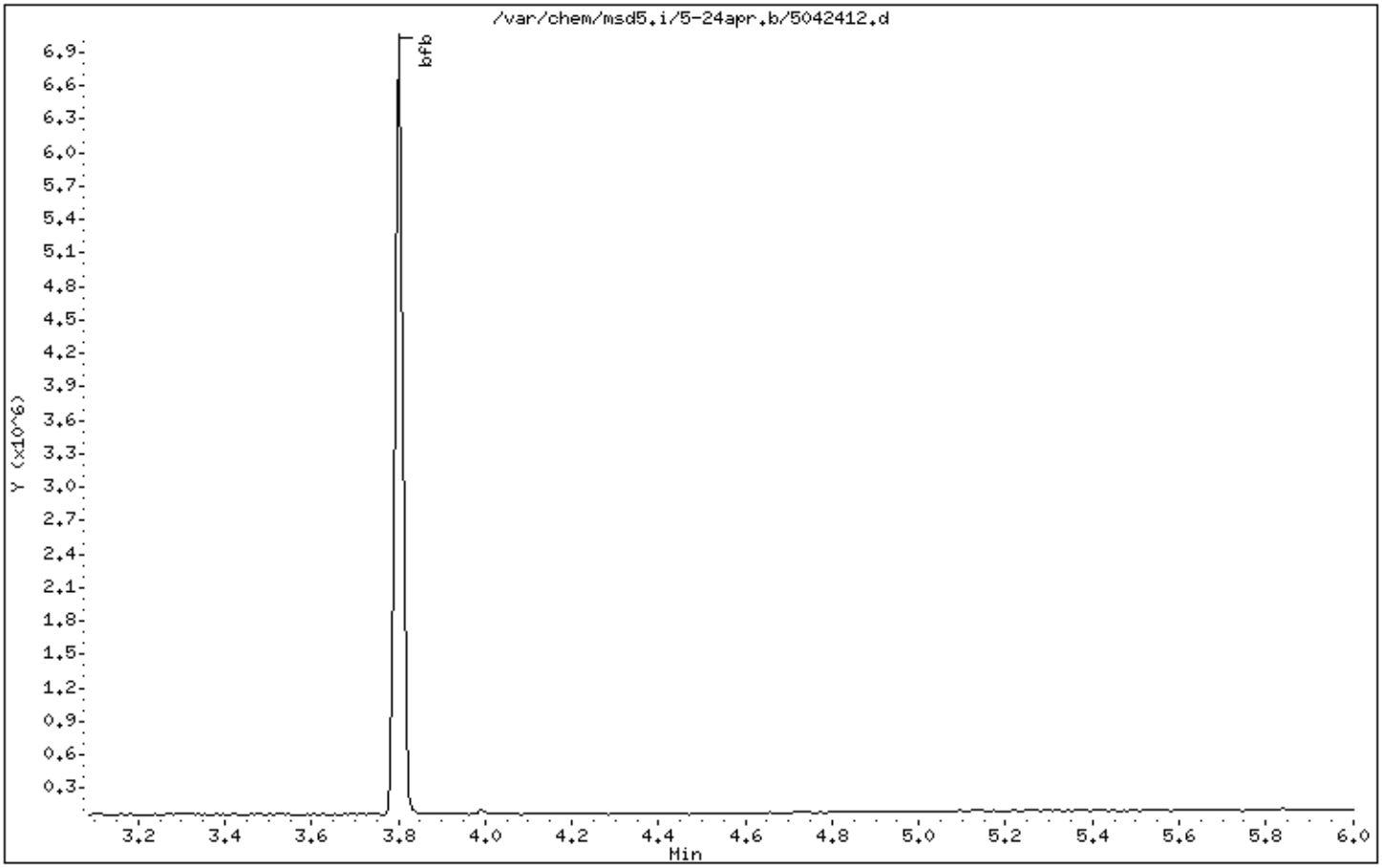
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-24apr.b/5042412.d

Date : 24-APR-2008 13:23

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

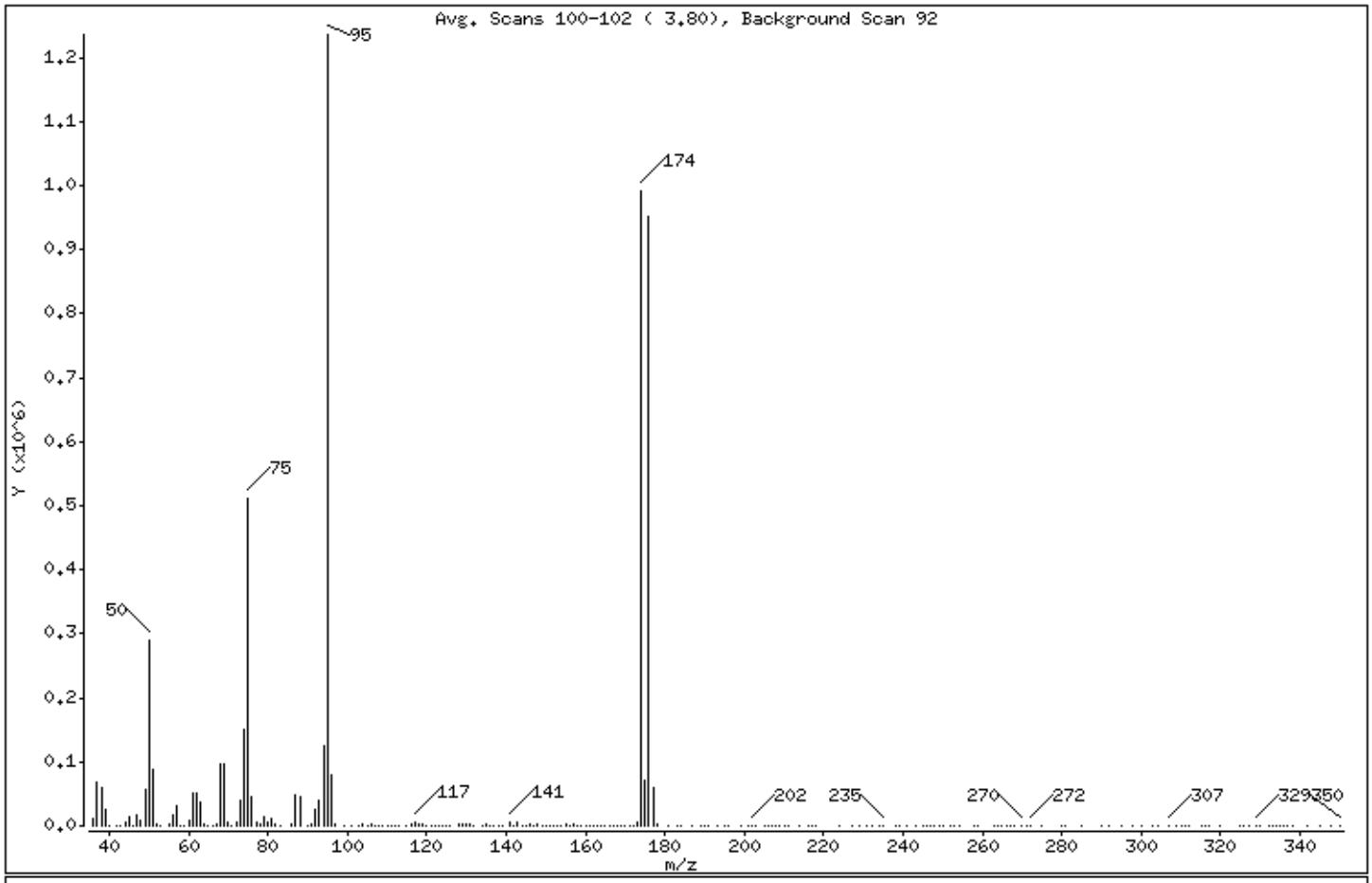
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	23.52
75	30.00 - 60.00% of mass 95	41.44
96	5.00 - 9.00% of mass 95	6.34
173	Less than 2.00% of mass 174	0.52 (0.65)
174	50.00 - 100.00% of mass 95	80.24
175	5.00 - 9.00% of mass 174	5.64 (7.03)
176	95.00 - 101.00% of mass 174	77.05 (96.02)
177	5.00 - 9.00% of mass 176	4.80 (6.23)

Data File: /var/chem/msd5.i/5-24apr.b/5042412.d

Date : 24-APR-2008 13:23

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: 5042412.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
36.00	11260	97.00	1891	160.00	105	246.00	316
37.00	66904	99.00	127	161.00	540	247.00	111
38.00	60528	101.00	187	162.00	37	248.00	97
39.00	26368	103.00	128	163.00	155	249.00	186
40.00	615	104.00	2500	164.00	289	250.00	147
42.00	377	105.00	1058	165.00	419	252.00	178
43.00	142	106.00	2727	166.00	399	253.00	85
44.00	6663	107.00	455	167.00	533	254.00	121
45.00	12954	108.00	12	168.00	76	258.00	166
46.00	1002	109.00	272	169.00	691	259.00	125
47.00	16984	110.00	552	170.00	468	263.00	212
48.00	7635	111.00	586	171.00	246	264.00	107
49.00	57752	112.00	321	172.00	1340	265.00	52
50.00	290752	113.00	491	173.00	6418	266.00	68
51.00	87024	115.00	1287	174.00	991872	267.00	253
52.00	2833	116.00	2516	175.00	69736	268.00	79
53.00	12	117.00	4810	176.00	952384	270.00	394
55.00	2647	118.00	3530	177.00	59352	271.00	160
56.00	15731	119.00	3426	178.00	2119	272.00	154
57.00	31752	120.00	373	181.00	71	275.00	61
58.00	925	121.00	403	183.00	458	280.00	112
59.00	455	122.00	3	184.00	98	281.00	61
60.00	8750	123.00	34	187.00	138	285.00	68
61.00	50472	124.00	1046	189.00	323	290.00	59
62.00	50696	125.00	73	190.00	57	292.00	31
63.00	35912	126.00	148	191.00	155	295.00	58
64.00	2593	128.00	3251	193.00	199	298.00	149
65.00	544	129.00	1866	195.00	60	300.00	57
66.00	371	130.00	3165	196.00	221	303.00	32
67.00	2620	131.00	1667	199.00	148	304.00	4
68.00	96080	132.00	74	201.00	84	307.00	288
69.00	95880	134.00	32	202.00	320	309.00	67
70.00	6660	135.00	1560	203.00	288	310.00	179
71.00	521	136.00	387	205.00	228	311.00	282
72.00	5181	137.00	1134	206.00	53	312.00	160

Date : 24-APR-2008 13:23

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: 5042412.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
73.00	39176	138.00	76	207.00	300	315.00	111
74.00	150592	139.00	542	208.00	89	316.00	10
75.00	512256	141.00	6323	209.00	124	317.00	50
76.00	44928	142.00	845	210.00	240	320.00	4
77.00	6391	143.00	5708	211.00	88	325.00	81
78.00	2856	144.00	541	214.00	274	326.00	161
79.00	14514	145.00	399	216.00	58	327.00	190
80.00	4693	146.00	1829	217.00	254	329.00	392
81.00	12705	147.00	1033	218.00	99	330.00	228
82.00	3160	148.00	2525	224.00	74	332.00	90
83.00	487	149.00	885	227.00	66	333.00	107
86.00	1916	150.00	881	229.00	92	334.00	67
87.00	47136	151.00	325	231.00	70	335.00	140
88.00	44416	152.00	305	232.00	149	336.00	81
90.00	52	153.00	735	234.00	172	337.00	19
91.00	2621	154.00	273	235.00	228	338.00	83
92.00	25008	155.00	2711	238.00	123	342.00	105
93.00	40080	156.00	577	239.00	140	345.00	111
94.00	126424	157.00	1619	241.00	170	348.00	327
95.00	1235968	158.00	65	243.00	184	350.00	115
96.00	78384	159.00	1362	245.00	165		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-30apr.b/5043001.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 30-APR-2008 07:26
Operator : srs Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL #1476-279 50 ng
Comment :
Method : /var/chem/msd5.i/5-30apr.b/bfb30.m
Meth Date : 30-Apr-2008 07:15 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	1087342			100.00- 100.00	100.00
3.803	3.900	-0.097	50	271076			15.00- 40.00	24.93
3.803	3.900	-0.097	75	454057			30.00- 60.00	41.76
3.803	3.900	-0.097	96	70034			5.00- 9.00	6.44
3.803	3.900	-0.097	173	5792			0.00- 2.00	0.62
3.803	3.900	-0.097	174	938219			50.00- 100.00	86.29
3.803	3.900	-0.097	175	63818			5.00- 9.00	6.80
3.803	3.900	-0.097	176	910114			95.00- 101.00	97.00
3.803	3.900	-0.097	177	60175			5.00- 9.00	6.61

Data File: /var/chem/msd5.i/5-30apr.b/5043001.d

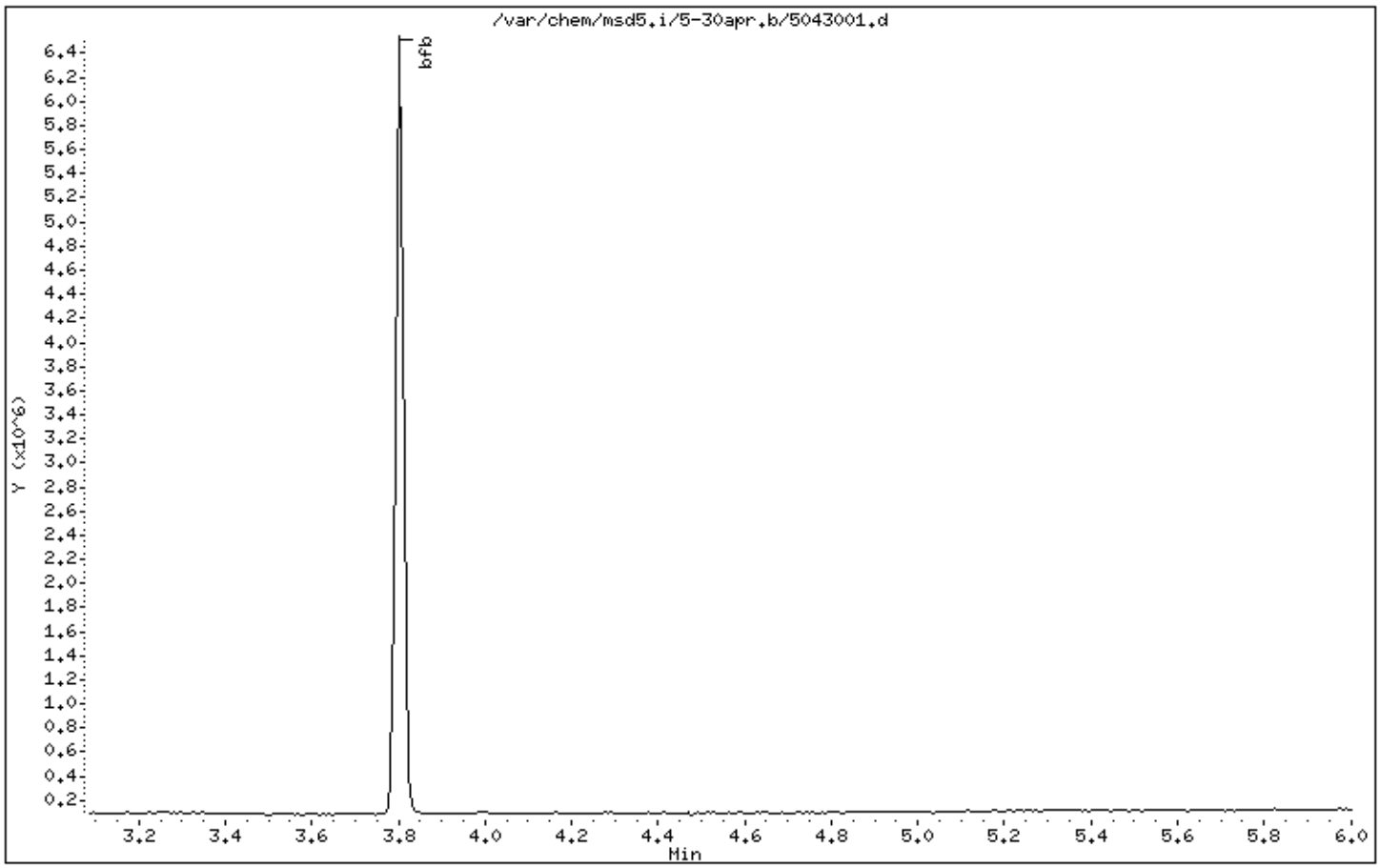
Date : 30-APR-2008 07:26

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: srs

Column phase: Column diameter: 2.00



Data File: /var/chem/msd5.i/5-30apr.b/5043001.d

Date : 30-APR-2008 07:26

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

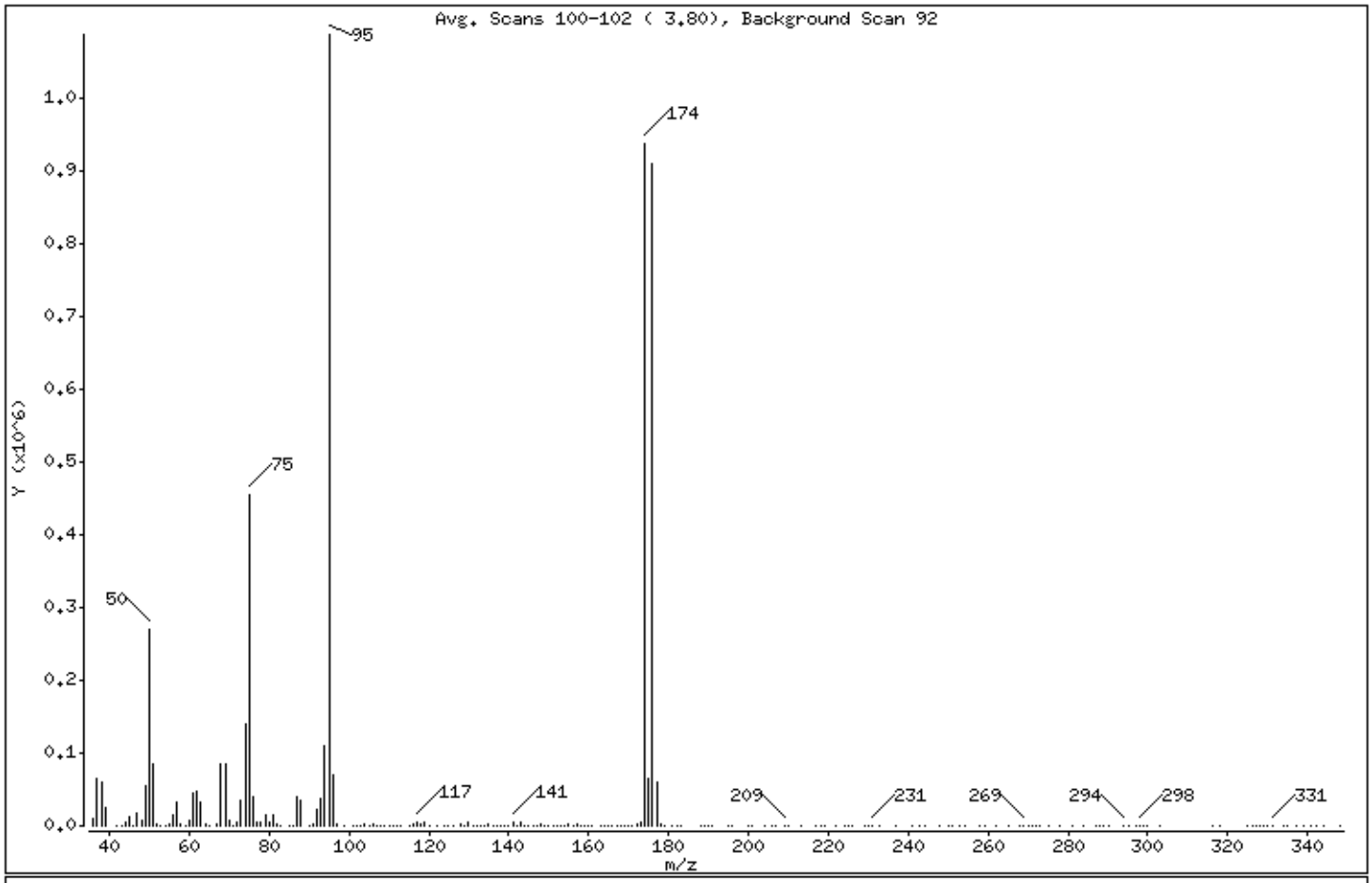
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	24.93
75	30.00 - 60.00% of mass 95	41.76
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.53 (0.62)
174	50.00 - 100.00% of mass 95	86.29
175	5.00 - 9.00% of mass 174	5.87 (6.80)
176	95.00 - 101.00% of mass 174	83.70 (97.00)
177	5.00 - 9.00% of mass 176	5.53 (6.61)

Date : 30-APR-2008 07:26

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: 5043001.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10483	94.00	109992	153.00	1098	233.00	135
37.00	65088	95.00	1086976	154.00	1006	237.00	90
38.00	60856	96.00	70032	155.00	2714	241.00	91
39.00	23968	97.00	2061	156.00	303	243.00	144
42.00	269	99.00	184	157.00	1878	244.00	63
43.00	537	101.00	177	158.00	239	248.00	186
44.00	4157	102.00	132	159.00	464	250.00	56
45.00	12879	103.00	100	160.00	179	251.00	62
46.00	882	104.00	2635	161.00	301	253.00	412
47.00	17096	105.00	1211	163.00	386	254.00	211
48.00	7641	106.00	2563	164.00	10	258.00	201
49.00	54792	107.00	550	165.00	4	259.00	77
50.00	271040	108.00	261	166.00	232	262.00	243
51.00	85696	109.00	24	167.00	257	265.00	62
52.00	2768	110.00	55	168.00	517	268.00	169
53.00	262	111.00	527	169.00	390	269.00	575
54.00	84	112.00	790	170.00	356	270.00	227
55.00	2181	113.00	275	171.00	1110	271.00	240
56.00	14448	115.00	885	172.00	1752	272.00	134
57.00	31784	116.00	2224	173.00	5792	273.00	279
58.00	1435	117.00	4101	174.00	938176	275.00	326
59.00	267	118.00	2911	175.00	63816	278.00	67
60.00	8533	119.00	3901	176.00	910080	281.00	308
61.00	44440	120.00	258	177.00	60168	284.00	226
62.00	46584	122.00	79	178.00	2011	287.00	153
63.00	32128	124.00	665	179.00	218	288.00	158
64.00	3114	125.00	789	181.00	52	289.00	135
65.00	812	126.00	455	182.00	246	290.00	70
67.00	2085	128.00	3679	183.00	117	294.00	406
68.00	84536	129.00	1230	188.00	53	295.00	161
69.00	85968	130.00	3848	189.00	196	297.00	253
70.00	6641	131.00	952	190.00	282	298.00	307
71.00	229	132.00	337	191.00	71	299.00	139
72.00	4306	133.00	158	195.00	316	300.00	229
73.00	35616	134.00	430	196.00	182	303.00	217

Date : 30-APR-2008 07:26

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: 5043001.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	139520	135.00	1816	200.00	131	316.00	128
75.00	454016	136.00	415	201.00	64	318.00	164
76.00	40376	137.00	770	204.00	139	325.00	53
77.00	4666	138.00	289	206.00	117	326.00	66
78.00	3935	139.00	576	207.00	155	327.00	300
79.00	14245	140.00	549	209.00	327	328.00	158
80.00	4617	141.00	5814	210.00	61	329.00	220
81.00	14498	142.00	611	213.00	133	330.00	73
82.00	2649	143.00	5435	217.00	65	331.00	338
83.00	192	144.00	698	218.00	185	334.00	167
85.00	277	145.00	439	219.00	72	335.00	82
86.00	561	146.00	970	222.00	68	337.00	115
87.00	40312	147.00	349	224.00	107	339.00	89
88.00	36096	148.00	1262	225.00	216	341.00	137
90.00	142	149.00	99	226.00	230	342.00	212
91.00	2261	150.00	1231	229.00	64	344.00	69
92.00	23688	151.00	777	230.00	144	348.00	92
93.00	37840	152.00	630	231.00	250		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0804476
# of pages (Including Cover): 1

5/7/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found no discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

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

0182

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

Contact		Project Info:		Turn Around Time:
Company	GEI Consultants, Inc.	P.O. #		
Address	455 Winding Brook Glastonbury CT 06033	Project #	061140 - 8 - 1703	[X] Normal
Phone	860-368-5300 Cell:	Project Name	BayShore OU1 Southern cell Air Monitoring	[ ] Rush _____ Specify
Collected By: Signature: Thomas Tonjes				

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS-5 UW Canister 3588	4/17/08 0645 - 1445	TO-15 + Naphthalene			
02A	AMS-3 DW canister 4210	4/17/08 0643 - 1445	TO-15 + Naphthalene			

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Thomas Tonjes 4/17/08 1500	Monica Gibson ATL
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time 04/21/08 915
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	8612 8341 8888	MG	NA	Good	Yes No (None)	0804476

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0804476

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 05/05/08
Date Completed: 5/2/08
Date Received: 4/21/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern Cell Air Monitorin
Total $: $ 554.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS-5 UW	Modified TO-15	4/17/2008	7.0 "Hg	$225.00
02A	AMS-3 DW	Modified TO-15	4/17/2008	3.0 "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 58428 $100.00
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. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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 #: 0804476

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

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

☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples
	☐	☐	☐	☐	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)
	N/A	☐		TICs resemble reference spectra
	N/A	☐		TICs between duplicate samples are consistent
N/A	N/A	☐	☐	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☑		☐	Special units for all samples in the final report are correctly calculated
	☑	☐	☐	Manually entered results checked (i.e. special CCV compounds)
	N/A	☐	N/A	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
	☑		N/A	Extra printed copies are provided per client profile
	☑		☐	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	N/A	☐ Client LUMEN report reviewed for accuracy and completeness

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

A/R: ☑ out in CCV

M/Q: _____

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
5/1/08	R Taylor 5-2-08	NW 5/8/08	

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