



***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 #: 0712115

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. <u>Lumen Validation Report</u>	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	29
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	30	37
b. Surrogate Recover Summary Form (If Applicable)	38	38
c. Internal Standard Summary Form (If Applicable)	39	39
d. Duplicate Results Summary Sheet	40	41
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data)	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	42	194
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	195	209
i. Second Source LCS(Summary + Raw Data)	210	223
i. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	224	225
l. GC/MS Tune (Results + Raw Data)	226	250
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	251	252
b. Chain-of-Custody Records	253	253
c. Sample Log-In Sheet	254	254
d. Misc Shipping/Receiving Records (list of individual records)		
<u>Sample Receipt Discrepancy Report</u>	--	--
5. Other Records (describe or list)		
a. <u>Manual Spectral Defense</u>	--	--
b. <u>Manual Integrations</u>	--	--
c. <u>Manual Calculations</u>	--	--
d. <u>Canister Dilution Factors</u>	255	257
e. <u>Laboratory Corrective Action Request</u>	--	--
f. <u>CAS Number Reference</u>	258	259
g. <u>Variance Table</u>	--	--
h. <u>Canister Certification</u>	--	--
i. <u>Data Review Check Sheet</u>	260	260

Comments:

---

Completed by:

**Kara McKiernan**

Kara McKiernan / Document Control

12/20/07

(Signature)

( Print Name & Title)

(Date)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0712115**

Work Order Summary

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

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

**PHONE:** 860-368-5300

**P.O. #** NR

**FAX:** 860-368-5307


**PROJECT #** 061140-8-1703 BayShore OU1 Southern

**DATE RECEIVED:** 12/06/2007

**CONTACT:** cell Air Monitorin  
Bryanna Langley

**DATE COMPLETED:** 12/18/2007

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	UW-AMS 5	Modified TO-15	5.0 "Hg	5 psi
01AA	UW-AMS 5 Lab Duplicate	Modified TO-15	5.0 "Hg	5 psi
02A	DW-AMS 1	Modified TO-15	6.0 "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: 

DATE: 12/19/07

Laboratory Director

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

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,  
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Modified TO-15**  
**GEI Consultants, Inc.**  
**Workorder# 0712115**



Two 6 Liter Summa Canister samples were received on December 06, 2007. 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.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
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**

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

### **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	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
UW-AMS 5	0712115-01A	12/ 5/2007	12/ 6/2007	NA	9	12/14/2007	NA	Good
UW-AMS 5 Lab Duplicate	0712115-01AA	12/ 5/2007	12/ 6/2007	NA	9	12/14/2007	NA	Good
DW-AMS 1	0712115-02A	12/ 5/2007	12/ 6/2007	NA	9	12/14/2007	NA	Good
Lab Blank	0712115-03A	NA	NA	NA	NA	12/14/2007	NA	Good
CCV	0712115-04A	NA	NA	NA	NA	12/14/2007	NA	Good
LCS	0712115-05A	NA	NA	NA	NA	12/14/2007	NA	Good

## **Sample Results and Raw Data**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

---

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

**Client Sample ID: UW-AMS 5**

**Lab ID#: 0712115-01A**

No Detections Were Found.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0712115-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121416	Date of Collection:	12/5/07
Dil. Factor:	1.61	Date of Analysis:	12/14/07 06:44 PM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0712115-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121416	Date of Collection:	12/5/07
Dil. Factor:	1.61	Date of Analysis:	12/14/07 06:44 PM

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 18-Dec-2007 16:00

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121416.d  
 Lab Smp Id: 0712115-01A  
 Inj Date : 14-DEC-2007 18:44  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #12335  
 Misc Info : 5.0"Hg --> 5psi GEI  
 Comment :  
 Method : /chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 19:46 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1  
 Dil Factor: 1.61000  
 Integrator: HP RTE Compound Sublist: AT04.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #: 74-97-5		
8.059	8.059	(1.000)	130	238826	25.0000	80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	183443		50.24- 110.24	76.81	
8.059	8.059	(1.000)	49	590792		217.54- 277.54	247.37	
-----								
* 92	1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912	(1.000)	114	866582	25.0000	80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	147894		0.00- 47.12	17.07	
-----								
* 125	Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999	(1.000)	117	696998	25.0000	80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	436527		0.00- 30.00	62.63	
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137	(1.130)	65	399868	27.9724	27.972 80.00- 120.00	100.00	
9.137	9.137	(1.134)	67	187027		27.88- 87.88	46.77	
-----								
\$ 107	Toluene-d8					CAS #: 2037-26-5		
12.677	12.704	(1.279)	98	766117	25.0408	25.041 80.00- 120.00	100.00	
12.677	12.704	(1.279)	70	78459		0.00- 40.29	10.24	

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPEV) ( PPBV) TARGET RANGE RATIO  
== =====

\$ 107 Toluene-d8 (continued)

12.704 12.704 (1.282) 100 472196 37.87- 97.87 61.63

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 414667 25.4974 25.497 80.00- 120.00 100.00

16.575 16.575 (1.105) 95 679703 127.16- 187.16 163.92

16.575 16.575 (1.105) 176 416503 66.04- 126.04 100.44

Report Date: 18-Dec-2007 16:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARYInstrument ID: msd5.i  
Lab File ID: 5121416.d  
Lab Smp Id: 0712115-01A  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: cbCalibration Date: 14-DEC-2007  
Calibration Time: 09:24Level: LOW  
Sample Type: AIR

Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: 5.0"Hg --&gt; 5psi GEI

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	238826	-27.11
92 1,4-Difluorobenze	1281185	768711	1793659	866582	-32.36
125 Chlorobenzene-d5	1014841	608905	1420777	696998	-31.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14dec  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0712115-01A  
Level: LOW Operator: cb  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: 2926Spectra.spk Quant Type: ISTD  
Sublist File: AT04.sub  
Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m  
Misc Info: 5.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	27.972	111.89	70-130
\$ 107 Toluene-d8	25.000	25.041	100.16	70-130
\$ 138 Bromofluorobenzene	25.000	25.497	101.99	70-130

Data File: /chem/msd5.1/5-14dec.b/5121416.d

Date : 14-DEC-2007 18:44

Client ID:

Sample Info: 200mL #12335

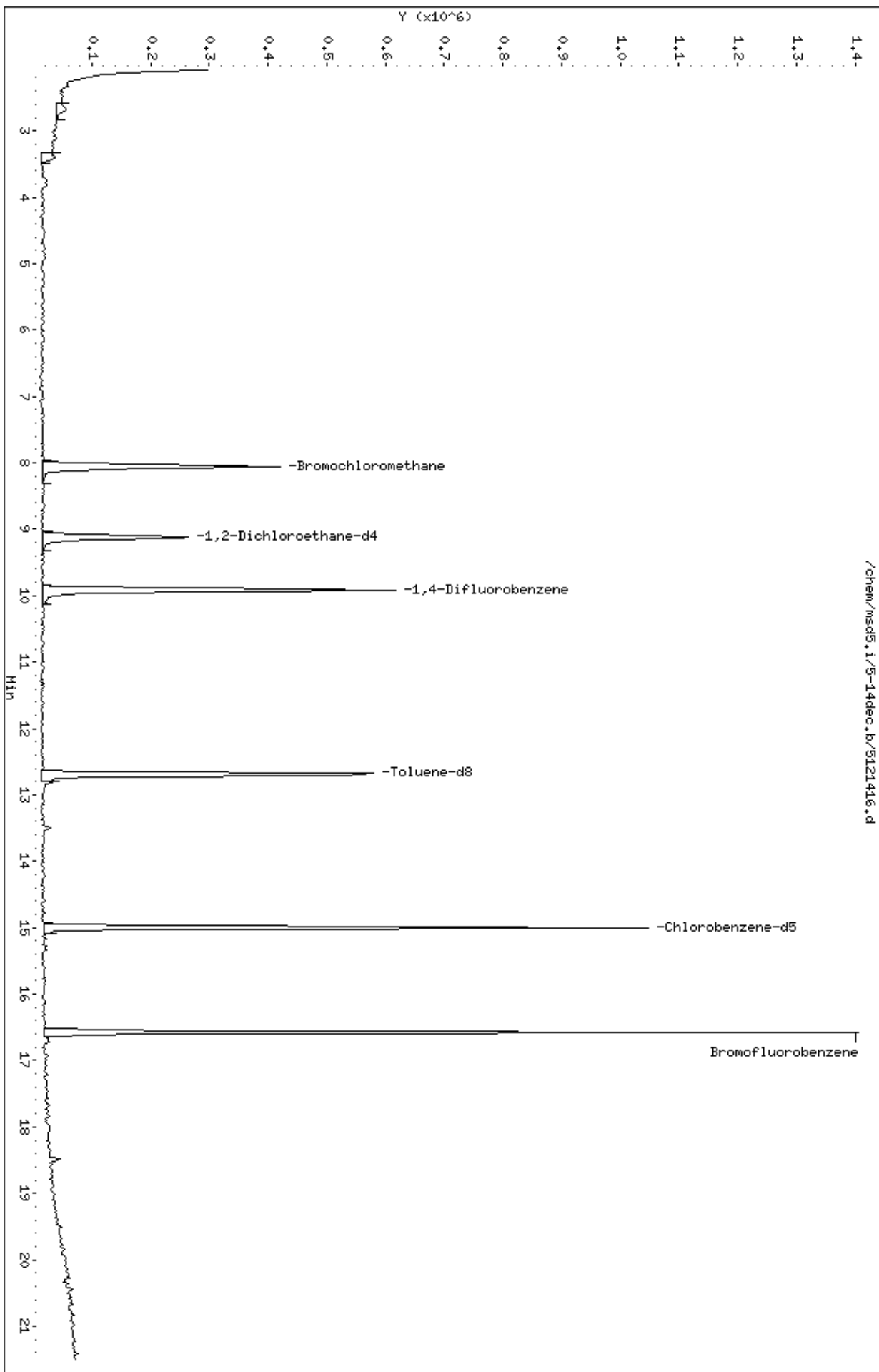
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-14dec.b/5121416.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

---

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

**Client Sample ID: UW-AMS 5 Lab Duplicate**

**Lab ID#: 0712115-01AA**

No Detections Were Found.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5 Lab Duplicate

Lab ID#: 0712115-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121417	Date of Collection:	12/5/07
Dil. Factor:	1.61	Date of Analysis:	12/14/07 07:17 PM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5 Lab Duplicate

Lab ID#: 0712115-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121417	Date of Collection:	12/5/07
Dil. Factor:	1.61	Date of Analysis:	12/14/07 07:17 PM

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	100	70-130

Report Date: 18-Dec-2007 16:00

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121417.d  
 Lab Smp Id: 0712115-01AA  
 Inj Date : 14-DEC-2007 19:17  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #12335  
 Misc Info : 5.0"Hg --> 5psi GEI  
 Comment :  
 Method : /chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 19:46 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1  
 Dil Factor: 1.61000  
 Integrator: HP RTE Compound Sublist: AT04.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #: 74-97-5		
8.059	8.059	(1.000)	130	234994	25.0000	80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	180925		50.24- 110.24	76.99	
8.059	8.059	(1.000)	49	590696		217.54- 277.54	251.37	
-----								
* 92	1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912	(1.000)	114	879868	25.0000	80.00- 120.00	100.00	
9.911	9.912	(1.000)	88	147604		0.00- 47.12	16.78	
-----								
* 125	Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999	(1.000)	117	692395	25.0000	80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	416350		0.00- 30.00	60.13	
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137	(1.134)	65	381163	27.0987	27.099 80.00- 120.00	100.00	
9.137	9.137	(1.134)	67	182939		27.88- 87.88	47.99	
-----								
\$ 107	Toluene-d8					CAS #: 2037-26-5		
12.704	12.704	(1.282)	98	768056	24.7251	24.725 80.00- 120.00	100.00	
12.676	12.704	(1.279)	70	74691		0.00- 40.29	9.72	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	( PPBV)	TARGET RANGE	RATIO
----	--------	----------	------	----------	---------	---------	--------------	-------

\$ 107 Toluene-d8 (continued)

12.704	12.704	(1.282)	100	465596			37.87- 97.87	60.62
--------	--------	---------	-----	--------	--	--	--------------	-------

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575	16.575	(1.105)	174	402493	24.9134	24.913	80.00- 120.00	100.00
16.575	16.575	(1.105)	95	659872			127.16- 187.16	163.95
16.575	16.575	(1.105)	176	389933			66.04- 126.04	96.88

Report Date: 18-Dec-2007 16:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 14-DEC-2007

Lab File ID: 5121417.d

Calibration Time: 09:24

Lab Smp Id: 0712115-01AA

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: 5.0"Hg --&gt; 5psi GEI

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	234994	-28.28
92 1,4-Difluorobenze	1281185	768711	1793659	879868	-31.32
125 Chlorobenzene-d5	1014841	608905	1420777	692395	-31.77

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14dec  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0712115-01AA  
Level: LOW Operator: cb  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: 2926Spectra.spk Quant Type: ISTD  
Sublist File: AT04.sub  
Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m  
Misc Info: 5.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	27.099	108.39	70-130
\$ 107 Toluene-d8	25.000	24.725	98.90	70-130
\$ 138 Bromofluorobenzene	25.000	24.913	99.65	70-130

Data File: /chem/msd5.1/5-14dec.b/5121417.d

Date : 14-DEC-2007 19:17

Client ID:

Sample Info: 200mL #12335

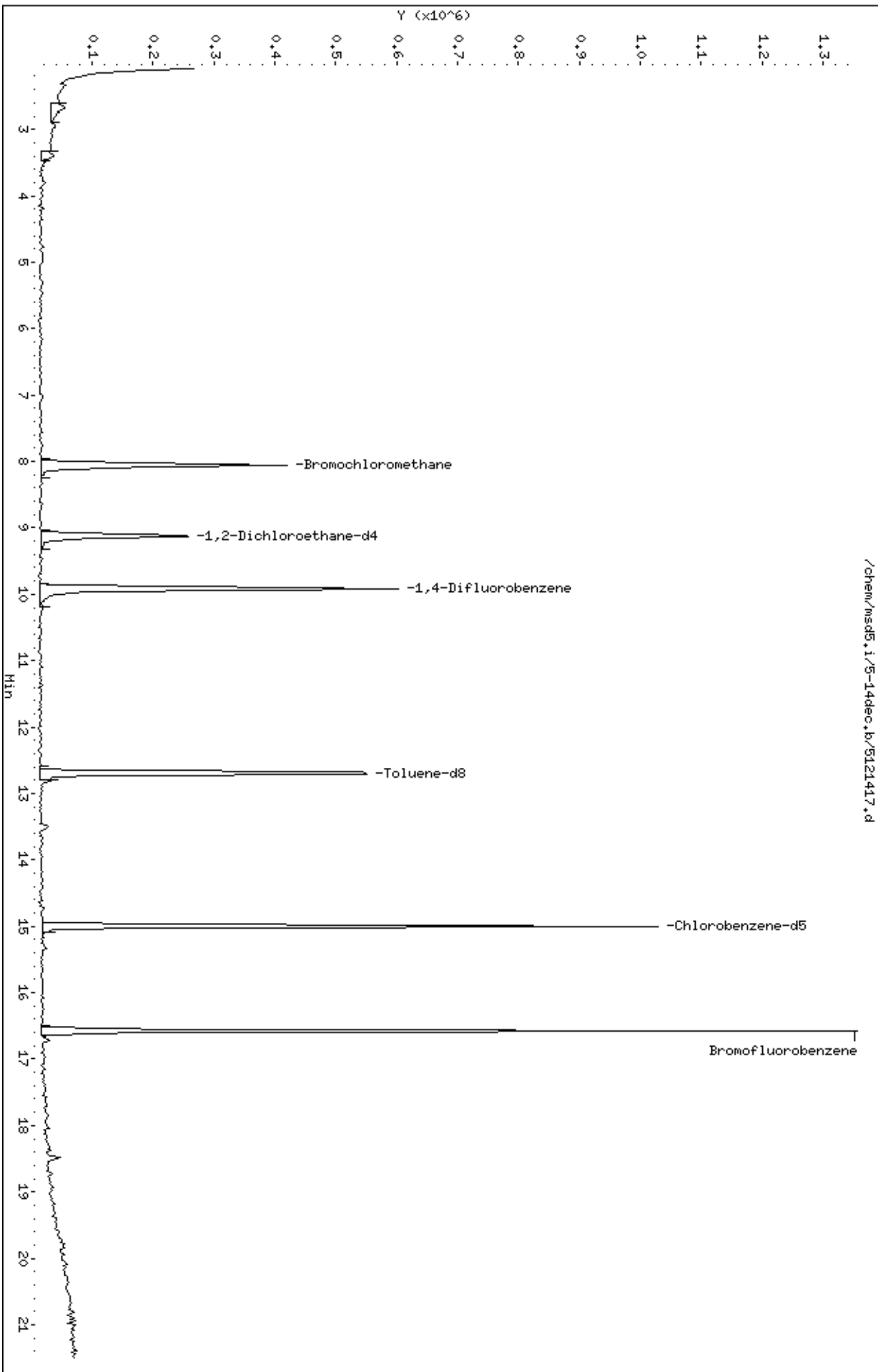
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-14dec.b/5121417.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

---

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

**Client Sample ID: DW-AMS 1**

**Lab ID#: 0712115-02A**

No Detections Were Found.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 1

Lab ID#: 0712115-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121418	Date of Collection:	12/5/07
Dil. Factor:	1.68	Date of Analysis:	12/14/07 07:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 1

Lab ID#: 0712115-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121418	Date of Collection:	12/5/07
Dil. Factor:	1.68	Date of Analysis:	12/14/07 07:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	Not Detected	8.0	Not Detected
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 18-Dec-2007 16:00

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121418.d  
 Lab Smp Id: 0712115-02A  
 Inj Date : 14-DEC-2007 19:49  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #25236  
 Misc Info : 6.0"Hg --> 5psi GEI  
 Comment :  
 Method : /chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 19:46 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1  
 Dil Factor: 1.68000  
 Integrator: HP RTE Compound Sublist: AT04ENSR.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	235163	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	189351			50.24- 110.24	80.52	
8.059	8.059	(1.000)	49	562104			217.54- 277.54	239.03	
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.912	(1.000)	114	854371	25.0000		80.00- 120.00	100.00	
9.911	9.912	(1.000)	88	140525			0.00- 47.12	16.45	
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	685891	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	422477			0.00- 30.00	61.60	
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	392607	27.8923	27.892	80.00- 120.00	100.00	
9.137	9.137	(1.134)	67	188873			27.88- 87.88	48.11	
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	748898	24.8278	24.828	80.00- 120.00	100.00	
12.676	12.704	(1.279)	70	76141			0.00- 40.29	10.17	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	( PPBV)	TARGET RANGE	RATIO
----	--------	----------	------	----------	---------	---------	--------------	-------

\$ 107 Toluene-d8 (continued)

12.704	12.704	(1.282)	100	449147			37.87- 97.87	59.97
--------	--------	---------	-----	--------	--	--	--------------	-------

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575	16.575	(1.105)	174	408031	25.4957	25.496	80.00- 120.00	100.00
16.575	16.575	(1.105)	95	636211			127.16- 187.16	155.92
16.575	16.575	(1.105)	176	381790			66.04- 126.04	93.57

Report Date: 18-Dec-2007 16:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARYInstrument ID: msd5.i  
Lab File ID: 5121418.d  
Lab Smp Id: 0712115-02A  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: cbCalibration Date: 14-DEC-2007  
Calibration Time: 09:24Level: LOW  
Sample Type: AIR

Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: 6.0"Hg --&gt; 5psi GEI

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	235163	-28.22
92 1,4-Difluorobenze	1281185	768711	1793659	854371	-33.31
125 Chlorobenzene-d5	1014841	608905	1420777	685891	-32.41

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14dec  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0712115-02A  
Level: LOW Operator: cb  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: 2926Spectra.spk Quant Type: ISTD  
Sublist File: AT04ENSR.sub  
Method File: /chem/msd5.i/5-14dec.b/t14qn12c.m  
Misc Info: 6.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	27.892	111.57	70-130
\$ 107 Toluene-d8	25.000	24.828	99.31	70-130
\$ 138 Bromofluorobenzene	25.000	25.496	101.98	70-130

Data File: /chem/msd5.1/5-14dec.b/5121418.d

Date : 14-DEC-2007 19:49

Client ID:

Sample Info: 200mL #25236

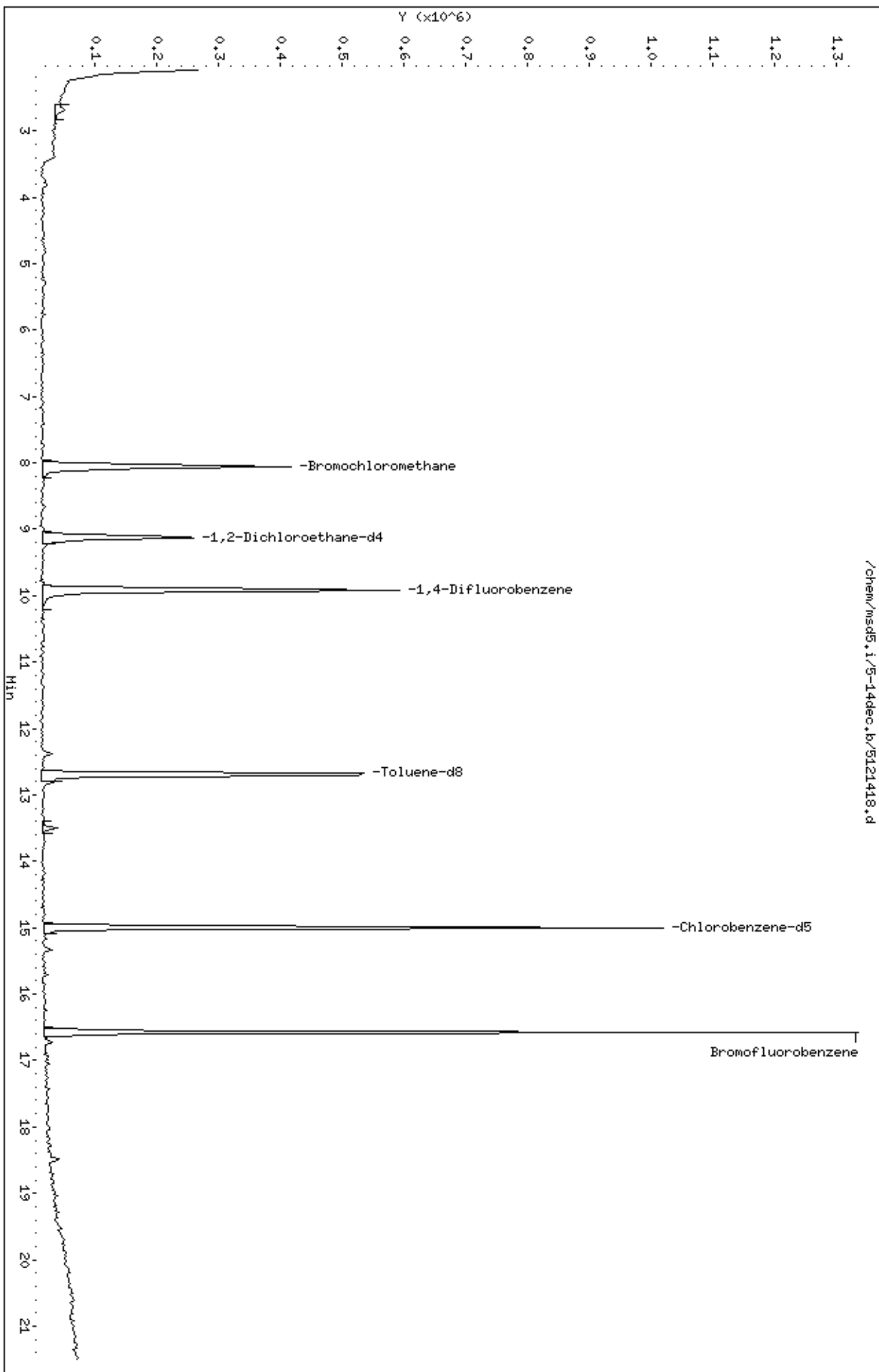
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-14dec.b/5121418.d



## **QC Results and Raw Data**





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0712115-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 10:52 AM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0712115-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121404	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 10:52 AM

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

Container Type: NA - Not Applicable

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

Report Date: 14-Dec-2007 10:59

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121404.d  
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank  
 Inj Date : 14-DEC-2007 10:52  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #13673  
 Misc Info : Humid Cert Cart #10 Leg 8  
 Comment :  
 Method : /var/chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 09:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO		
				( PPBV)	( PPBV)			ON-COL	FINAL
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	267077	25.0000	80.00- 120.00	100.00		
8.059	8.059	(1.000)	128	202880		50.24- 110.24	75.96		
8.059	8.059	(1.000)	49	644514		217.54- 277.54	241.32		
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.912	(1.000)	114	952755	25.0000	80.00- 120.00	100.00		
9.911	9.912	(1.000)	88	165538		0.00- 47.12	17.37		
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	775851	25.0000	80.00- 120.00	100.00		
14.999	14.999	(1.000)	82	470474		0.00- 30.00	60.64		
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	420362	26.2955	26.296 80.00- 120.00	100.00		
9.137	9.137	(1.134)	67	203708		27.88- 87.88	48.46		
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	883799	26.2745	26.274 80.00- 120.00	100.00		
12.676	12.704	(1.279)	70	90855		0.00- 40.29	10.28		

CONCENTRATIONS

ON-COL      FINAL

RT    EXP RT (REL RT)    MASS    RESPONSE ( PPEV)    ( PPBV)    TARGET RANGE    RATIO  
==    =====    =====    =====    =====    =====    =====

\$ 107 Toluene-d8 (continued)

12.704    12.704 (1.282)    100    558873              37.87- 97.87    63.24

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575    16.575 (1.105)    174    464345    25.6502    25.650    80.00- 120.00    100.00

16.575    16.575 (1.105)    95    735144              127.16- 187.16    158.32

16.575    16.575 (1.105)    176    432277              66.04- 126.04    93.09

Report Date: 14-Dec-2007 10:59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 14-DEC-2007

Lab File ID: 5121404.d

Calibration Time: 09:24

Lab Smp Id: Lab Blank

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: Humid Cert Cart #10 Leg 8

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	267077	-18.48
92 1,4-Difluorobenze	1281185	768711	1793659	952755	-25.63
125 Chlorobenzene-d5	1014841	608905	1420777	775851	-23.55

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14dec  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank  
Level: LOW Operator: cb  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: 2926Spectra.spk Quant Type: ISTD  
Sublist File: AT04ENSR.sub  
Method File: /var/chem/msd5.i/5-14dec.b/t14qn12c.m  
Misc Info: Humid Cert Cart #10 Leg 8

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	26.296	105.18	70-130
\$ 107 Toluene-d8	25.000	26.274	105.10	70-130
\$ 138 Bromofluorobenzene	25.000	25.650	102.60	70-130

Data File: /chem/msd5.1/5-14dec.b/5121404.d

Date : 14-DEC-2007 10:52

Client ID: Lab Blank

Sample Info: 200mL #13673

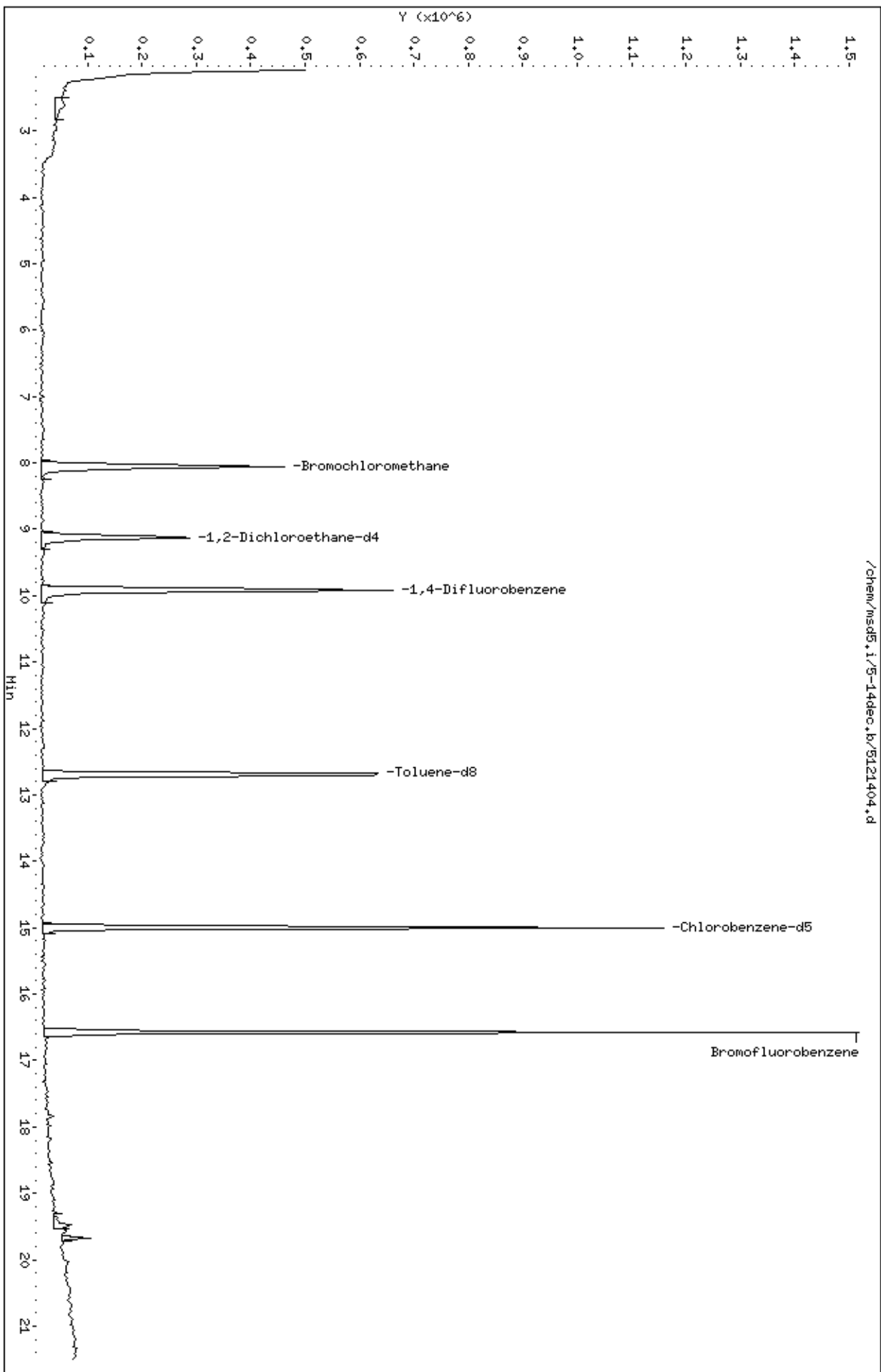
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-14dec.b/5121404.d



# LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0712115

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT	
	1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#			#
01	UW-AMS 5	112		100		102			0
02	UW-AMS 5 Lab Duplicate	108		99		100			0
03	DW-AMS 1	112		99		102			0
04	Lab Blank	105		105		103			0
05	CCV	110		103		107			0
06	LCS	111		103		104			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  
 Lab File ID: 5121402.d  
 Instrument ID: msd5.i

SDG No: 0712115  
 Date Analyzed: 12/14/2007  
 Time Analyzed: 09:24 AM

	Chlorobenzene-d5			1,4-Difluorobenzene			Bromochloromethane		
	Area	#	RT	Area	#	RT	Area	#	RT
24-HOUR STD	1014841		15	1281185		9.91	327639		8.06
UPPER LIMIT	1420777		15.33	1793659		10.24	458695		08.39
LOWER LIMIT	608905		14.67	768711		09.58	196583		07.73
CLIENT SAMPLE NO									
01 UW-AMS 5	696998		15	866582		9.91	238826		8.06
02 UW-AMS 5 Lab Duplicate	692395		15	879868		9.91	234994		8.06
03 DW-AMS 1	685891		15	854371		9.91	235163		8.06
04 Lab Blank	775851		15	952755		9.91	267077		8.06
05 CCV	1014841		15	1281185		9.91	327639		8.06
06 LCS	833825		15	1035901		9.91	267092		8.06
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

## SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.  
 Lab Sample ID: 01A & 01AA  
 Client Sample ID: &

Lab File ID: 5121417.d & 5121416.d  
 Dilution: 1.61 & 1.61  
 Date Analyzed: 12/14/07 & 12/14/07

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

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

## SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.  
 Lab Sample ID: 01A & 01AA  
 Client Sample ID: &

Lab File ID: 5121417.d & 5121416.d  
 Dilution: 1.61 & 1.61  
 Date Analyzed: 12/14/07 & 12/14/07

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

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

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/msd5.i/5-12nov.b/5111207.d  
 Level 2: /chem/msd5.i/5-12nov.b/5111232.d  
 Level 3: /chem/msd5.i/5-27nov.b/5112706.d  
 Level 4: /chem/msd5.i/5-12nov.b/5111210.d  
 Level 5: /chem/msd5.i/5-27nov.b/5112702.d  
 Level 6: /chem/msd5.i/5-12nov.b/5111212.d  
 Level 7: /chem/msd5.i/5-27nov.b/5112707.d  
 Level 8: /chem/msd5.i/5-13nov.b/5111303.d

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
1 Freon134a	200.000	250.000	0.94452	0.94452	1.13299	1.13299	1.03523	9.122
2 Propane	0.98320	0.98320	0.98320	0.98320	0.98320	0.98320	0.98320	0.98320
3 Freon 152a	0.98320	0.98320	0.75951	0.75951	1.05087	1.05087	0.93120	16.375
4 Freon 22	0.27887	0.27887	0.29507	0.29507	0.29162	0.29162	0.28852	2.957
5 Freon142b	2.06052	2.06052	1.28221	1.28221	2.22653	2.22653	1.85642	27.158
6 Propylene	1.77133	1.77133	1.33663	1.98098	1.84757	1.78835	1.74497	13.907
7 Isobutane	4.69001	4.69001	3.76183	3.76183	5.30591	5.30591	4.58592	16.949

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane/Fr12	200.000 Level 7	250.000 Level 8						
	+++++	2.14296	2.41813	3.42716	3.06268	3.40660		
	3.27897	+++++					2.95608	18.473
9 Freon 114	+++++	2.35572	2.34787	3.13944	2.87726	2.78949		
	2.67692	+++++					2.69778	11.432
10 Chloromethane	+++++	+++++	1.60683	2.55808	2.34986	2.35020		
	2.23347	+++++					2.21969	16.310
11 Butane	+++++	+++++	0.42153	0.59949	0.55149	0.53532		
	0.53045	+++++					0.52766	12.376
12 1,3-Butadiene	+++++	1.36769	1.32470	2.25041	2.03875	2.02523		
	1.94101	+++++					1.82463	21.079
13 Vinyl Chloride	+++++	1.94068	1.71199	2.50747	2.31038	2.22243		
	2.12601	+++++					2.13649	13.137
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
15 Bromomethane	+++++	1.17885	1.02592	1.63273	1.51216	1.48575		
	1.44040	+++++					1.37930	16.596
16 Dichlorofluoromethane/Fr21	+++++	+++++	1.96732	+++++	2.44556	+++++		
	2.29871	+++++					2.23719	10.950
17 Isopentane	+++++	+++++	2.50260	3.49372	3.22831	3.19381		
	3.05601	+++++					3.09489	11.861

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
18 Pentane	+++++	+++++	3.62243	+++++	5.34445	+++++		
	5.08515	+++++					4.68401	19.822
19 Chloroethane	+++++	1.13285	0.86045	1.28504	1.09440	1.08050		
	1.06729	+++++					1.08675	12.558
20 Trichlorofluoromethane/Fr11	+++++	2.87555	2.52189	3.78007	3.49996	3.38902		
	3.27118	+++++					3.22295	14.077
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
22 Freon123a	+++++	+++++	1.16671	+++++	1.25309	+++++		
	1.29965	+++++					1.23982	5.441
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
24 Freon123	+++++	+++++	1.96506	+++++	2.55391	+++++		
	2.46247	+++++					2.32714	13.617
25 Acrolein	+++++	+++++	0.33707	+++++	0.72341	+++++		
	0.69057	+++++					0.58368	36.699
26 Ethanol	+++++	+++++	0.52661	0.83695	0.76785	0.72130		
	0.64815	+++++					0.70017	16.984
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.91659	1.56182	2.37148	2.10219	2.07645		
	1.99552	+++++					2.00401	13.262
31 1,1-Dichloroethene	+++++	2.21687	2.16206	3.06675	2.86001	2.81451		
	2.79309	+++++					2.65222	14.016
32 Acetone	+++++	+++++	0.61101	1.11948	1.08688	1.08129		
	1.06149	+++++					0.99203	21.573
33 Methyl Acetate	+++++	+++++	2.71505	+++++	4.34600	+++++		
	4.02826	+++++					3.69644	23.391
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
35 Carbon Disulfide	+++++	3.32414	3.49304	5.41847	4.96922	4.94551		
	4.79833	+++++					4.49145	19.275
36 2-Propanol	+++++	+++++	2.31777	3.85058	3.80252	3.87240		
	3.80888	+++++					3.53043	19.219
37 tert-Butyl-Alcohol	+++++	+++++	1.68840	+++++	1.36172	+++++		
	0.84739	+++++					1.29917	32.635

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
38 3-Chloropropene	+++++	+++++	0.53986	0.82084	0.81735	0.79617		
	0.76493	+++++					0.74783	15.828
39 Acrylonitrile	+++++	+++++	1.31733	+++++	2.12469	+++++		
	2.08501	+++++					1.84234	24.702
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
42 1-Pentene	+++++	+++++	2.00220	+++++	2.87804	+++++		
	2.70156	+++++					2.52727	18.328
43 Methylene Chloride	+++++	2.18980	1.79922	2.58303	2.37732	2.36058		
	2.29716	+++++					2.26785	11.608
44 Ethyl Ether	+++++	+++++	0.73961	+++++	1.09163	+++++		
	1.03698	+++++					0.95607	19.815
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
46 MTBE	+++++	2.26968	1.51670	1.87823	1.71311	1.57976		
	1.28551	+++++					1.70717	19.882
47 trans-1,2-Dichloroethene	+++++	1.16025	1.27834	1.92147	1.76911	1.77243		
	1.73593	+++++					1.60625	19.224



Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	4.92934	+++++	6.87591	+++++	6.24593	18.261
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Hexane	+++++	2.46682	2.43567	3.86592	3.61363	3.63581	3.26636	19.577
52 Chloroprene	+++++	+++++	2.08646	+++++	3.48132	+++++	2.95915	25.704
53 Iodomethane	+++++	+++++	2.27666	+++++	4.12055	+++++	3.31677	28.473
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 1,1-Dichloroethane	+++++	2.10360	2.41092	3.46585	3.17790	3.17315	2.90836	18.148
56 Vinyl Acetate	+++++	+++++	0.16492	0.41424	0.40332	0.42711	0.36845	31.034 <-
57 Ethyl-tert-butyl Ether	+++++	+++++	1.77550	+++++	3.01750	+++++	2.39046	25.982

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000	250.000						
	Level 7	Level 8						
58 1-Hexene	+++++	+++++	1.01069	+++++	1.69978	+++++		
	1.68542	+++++					1.46530	26.873
59 1,3-Dichloropropane	+++++	+++++	0.35918	+++++	0.55397	+++++		
	0.51750	+++++					0.47688	21.715
60 2,2-Dichloropropane	+++++	+++++	1.26874	+++++	1.99847	+++++		
	1.92216	+++++					1.72979	23.188
61 Ethyl Acetate	+++++	+++++	0.21783	+++++	0.31814	+++++		
	0.33777	+++++					0.29125	22.090
62 Methyl Acrylate	+++++	+++++	1.65144	+++++	3.50217	+++++		
	3.66577	+++++					2.93979	38.055
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
64 1-Propanol	+++++	+++++	0.12700	+++++	0.30625	+++++		
	0.34871	+++++					0.26065	45.147 <-
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.79718	1.78128	2.54908	2.33516	2.32726		
	2.31230	+++++					2.18371	14.552
67 2-Butanone	+++++	0.64058	0.42684	0.77906	0.78663	0.78694		
	0.79131	+++++					0.70189	20.918

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	Level 8	RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++			+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++			+++++	+++++
70 Tetrahydrofuran	+++++	2.89615	2.01569	2.81384	2.66945	2.66508			2.61338	11.896
72 Chloroform	+++++	1.85697	2.01228	2.91307	2.70085	2.66696			2.46416	17.224
73 1,1-Dichloropropene	+++++	+++++	0.50371	+++++	0.76357	+++++			0.65860	20.792
74 Cyclohexane	+++++	1.48727	1.55950	2.36916	2.18953	2.16867			1.98423	18.494
75 1,1,1-Trichloroethane	+++++	2.14462	1.90906	2.79475	2.68520	2.63285			2.46307	14.281
76 Isobutanol	+++++	+++++	0.26685	+++++	0.39129	+++++			0.36006	22.823
77 Carbon Tetrachloride	+++++	1.39443	1.55958	2.42097	2.25001	2.29409			2.03366	21.548
78 tert-amyl-Methyl Ether	+++++	+++++	1.56158	+++++	2.40734	+++++			1.91736	22.873

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	+++++	+++++					+++++	+++++
80 2,2,4-Trimethylpentane	+++++	6.46742	6.43483	10.79687	9.93119	10.12077		
	9.98846	+++++					8.95659	21.942
81 Benzene	+++++	0.86714	0.83488	1.27550	1.21675	1.15483		
	1.11627	+++++					1.07756	17.071
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
85 1,2-Dichloroethane	+++++	0.40590	0.38967	0.56859	0.54489	0.53423		
	0.51864	+++++					0.49365	15.434
86 2-Pentanone	+++++	+++++	0.71310	+++++	1.48585	+++++		
	1.53779	+++++					1.24558	37.081
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
88 Ethyl Acrylate	+++++	+++++	0.58998	+++++	1.13179	+++++		
	1.15887	+++++					0.96022	33.421
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
90 Heptane	+++++	0.08116	0.08418	0.14505	0.14238	0.13769		
	0.13168	+++++					0.12036	24.559
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
93 Trichloroethene	+++++	0.42639	0.32876	0.49891	0.47147	0.45370		
	0.44315	+++++					0.43706	13.406
94 Methyl Cyclohexane	+++++	0.48944	0.48701	0.73738	0.69656	0.66783		
	0.65602	+++++					0.62237	17.293
95 Dibromomethane	+++++	+++++	0.24775	+++++	0.35521	+++++		
	0.33362	+++++					0.31219	18.207
96 Methyl Methacrylate	+++++	+++++	0.41367	+++++	0.79182	+++++		
	0.80096	+++++					0.66882	33.045
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
98 1,2-Dichloropropane	+++++	0.38729	0.35186	0.46911	0.46335	0.43802		
	0.43292	+++++					0.42376	10.768
99 1,4-Dioxane	+++++	+++++	0.18537	0.25698	0.27094	0.25881		
	0.25845	+++++					0.24611	13.984
100 Bromodichloromethane	+++++	0.49548	0.48012	0.69796	0.67917	0.66072		
	0.65298	+++++					0.61107	15.852





## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
122 1,2-Dibromoethane	+++++	0.52523	0.51112	0.81252	0.78864	0.75350		
	0.75279	+++++					0.69063	19.626
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.33132	+++++	0.52257	+++++		
	0.48676	+++++					0.44688	22.752
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
126 Chlorobenzene	+++++	0.88825	0.94525	1.24714	1.18342	1.10891		
	1.08181	+++++					1.07580	12.765
127 Nonane	+++++	+++++	0.86684	+++++	1.69464	+++++		
	1.64249	+++++					1.40132	33.084
128 Ethyl Benzene	+++++	0.53437	0.38875	0.68425	0.66879	0.60711		
	0.60394	+++++					0.58120	18.645
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
130 m,p-Xylene	+++++	0.54044	0.51688	0.87274	0.82250	0.77957		
	0.75100	+++++					0.71385	20.930
131 2-Heptanone	+++++	+++++	0.52167	+++++	0.79118	+++++		
	0.91641	+++++					0.74309	27.146
132 o-Xylene	+++++	0.56408	0.52558	0.79941	0.76308	0.73032		
	0.69050	+++++					0.67883	16.282



## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
133 Styrene	1.01812	0.58973	0.60689	1.26959	1.21344	1.16476		
	1.14342	++++					1.00085	28.528
134 Bromoform	++++	0.48390	0.40330	0.67685	0.68425	0.64213		
	0.63460	++++					0.58750	19.734
135 Cyclohexanone	++++	++++	0.53372	++++	0.71042	++++		
	0.75222	++++					0.66546	17.429
136 Cumene	2.76185	1.36519	1.48674	2.40147	2.32384	2.19490		
	1.87373	++++					2.05825	24.639
137 Bromobenzene	++++	++++	0.43766	++++	0.64466	++++		
	0.57640	++++					0.55291	19.077
139 1,2,3-Trichloropropane	++++	++++	0.24503	++++	0.34523	++++		
	0.31982	++++					0.30336	17.170
140 2-Chlorotoluene	++++	++++	0.32740	++++	0.54839	++++		
	0.51453	++++					0.46344	25.683
141 1,1,2,2-Tetrachloroethane	++++	0.76674	0.86441	1.23496	1.15323	1.08107		
	1.04200	++++					1.02374	17.278
142 Propylbenzene	++++	1.52345	1.84115	2.86189	2.84745	2.63995		
	2.43007	++++					2.35732	23.556
143 4-Chlorotoluene	++++	++++	0.35794	++++	0.54350	++++		
	0.52520	++++					0.47555	21.503

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
144 4-Ethyltoluene	200.000 Level 7	250.000 Level 8						
144 4-Ethyltoluene	+++++	1.26455	1.45132	2.47094	2.39413	2.28584		
	2.15067	+++++					2.00291	25.686
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	1.47619	+++++	1.90111	+++++		
	1.88785	+++++					1.75505	13.766
147 1,3,5-Trimethylbenzene	+++++	1.25900	1.34770	2.28575	2.15752	2.06450		
	1.74793	+++++					1.81040	23.861
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
149 tert-Butylbenzene	+++++	+++++	1.47499	+++++	2.12146	+++++		
	2.17492	+++++					1.92379	20.251
150 Pentachloroethane	+++++	+++++	0.21671	+++++	0.39389	+++++		
	0.40303	+++++					0.33788	31.085
151 sec-Butylbenzene	+++++	+++++	1.76154	+++++	2.70134	+++++		
	2.38802	+++++					2.28363	20.954
152 1,2,4-Trimethylbenzene	+++++	1.00582	1.15157	1.83029	1.81563	1.72281		
	1.68855	+++++					1.53578	23.510
153 p-Cymene	+++++	+++++	0.33781	+++++	0.56323	+++++		
	0.58177	+++++					0.49427	27.477

## Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000	250.000						
	Level 7	Level 8						
154 1,2,3-Trimethylbenzene	+++++	+++++	0.48220	+++++	0.82940	+++++		
	0.81804	+++++					0.70988	27.788
155 1,3-Dichlorobenzene	+++++	0.99769	0.86656	1.24394	1.19375	1.12009		
	1.10147	+++++					1.08725	12.604
156 1,4-Dichlorobenzene	+++++	0.94834	1.10360	1.51808	1.44770	1.37048		
	1.25731	+++++					1.27425	16.993
157 alpha-Chlorotoluene	1.60406	0.82175	0.79269	1.98425	2.19183	2.23850		
	1.59858	+++++					1.60452	37.419 <-
158 Butylbenzene	+++++	+++++	0.31099	+++++	0.50442	+++++		
	0.52164	+++++					0.44568	26.243
159 1,2-Dichlorobenzene	+++++	1.01178	1.08493	1.26153	1.21775	1.17597		
	1.10932	+++++					1.14355	8.057
160 Hexachloroethane	+++++	+++++	0.45089	+++++	0.75661	+++++		
	0.77025	+++++					0.65925	27.391
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.29642	+++++	0.50709	+++++		
	0.56221	+++++					0.45524	30.813
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.77054	0.82814	0.85214	0.80829		
	0.79944	+++++					0.81171	3.778

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 12-NOV-2007 13:22  
 End Cal Date : 27-NOV-2007 12:08  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Cal Date : 27-Nov-2007 15:32 cbond  
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
164 Hexachlorobutadiene	+++++ 0.53576	+++++ +++++	0.53651	0.60902	0.60706	0.56299	0.57027	6.346
165 Naphthalene	+++++ 1.69291	+++++ +++++	2.57361	3.03888	3.14450	3.06743	2.70346	22.481
166 1,2,3-Trichlorobenzene	+++++ 1.08304	+++++ +++++	0.83081	+++++	1.04576	+++++	0.98654	13.801
167 Isooctyl Acrylate	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++
192 Cyclopentene	+++++ 3.86686	+++++ +++++	2.78953	+++++	4.17550	+++++	3.61063	20.153
\$ 84 1,2-Dichloroethane-d4	+++++ 1.57317	1.40375 1.68718	1.44058	1.44597	1.38908	1.53501	1.49639	7.195
\$ 107 Toluene-d8	+++++ 0.90672	0.84718 0.88771	0.87004	0.89425	0.89966	0.87285	0.88263	2.332
\$ 138 Bromofluorobenzene	+++++ 0.59244	0.56787 0.61468	0.55601	0.59299	0.58759	0.57170	0.58333	3.355

# Calibration History

Method : /chem/msd5.i/5-27nov.b/t14qn12c.m  
Start Cal Date: 12-NOV-2007 13:22  
End Cal Date : 27-NOV-2007 12:08

## Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
12-NOV-2007 13:22	AFCEElow	/chem/msd5.i/5-12nov.b/5111207.d
Cal Level: 2 , Cal Amount: 0.50000		
13-NOV-2007 10:41	AT04Low+ENSR	/chem/msd5.i/5-12nov.b/5111232.d
Cal Level: 3 , Cal Amount: 2.00000		
27-NOV-2007 11:36	sp19b	/chem/msd5.i/5-27nov.b/5112706.d
19-NOV-2007 01:56	sp21b	/chem/msd5.i/5-19nov.b/5111902.d
12-NOV-2007 19:20	sp20a	/chem/msd5.i/5-12nov.b/5111216.d
12-NOV-2007 14:17	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111209.d
Cal Level: 4 , Cal Amount: 25.00000		
12-NOV-2007 14:45	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111210.d
Cal Level: 5 , Cal Amount: 50.00000		
27-NOV-2007 09:21	sp19b	/chem/msd5.i/5-27nov.b/5112702.d
19-NOV-2007 02:24	sp21b	/chem/msd5.i/5-19nov.b/5111903.d
12-NOV-2007 19:48	sp20a	/chem/msd5.i/5-12nov.b/5111217.d
12-NOV-2007 15:12	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111211.d
Cal Level: 6 , Cal Amount: 100.00000		
12-NOV-2007 15:41	AT04MDL+ENSR	/chem/msd5.i/5-12nov.b/5111212.d
Cal Level: 7 , Cal Amount: 200.00000		
27-NOV-2007 12:08	sp19b	/chem/msd5.i/5-27nov.b/5112707.d

```
|19-NOV-2007 02:57 |sp21b |/chem/msd5.i/5-19nov.b/5111904.d |
|12-NOV-2007 20:20 |sp20a |/chem/msd5.i/5-12nov.b/5111218.d |
|12-NOV-2007 16:13 |AT04MDL+ENSR |/chem/msd5.i/5-12nov.b/5111213.d |
+-----+-----+-----+-----+
```

```
+-----+-----+-----+-----+
| Cal Level: 8 , Cal Amount: 250.00000 |
+=====+
|13-NOV-2007 12:52 |Level8 |/chem/msd5.i/5-13nov.b/5111303.d |
+-----+-----+-----+-----+
```

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 5

```
+-----+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 50.000 |
+=====+
|27-NOV-2007 09:49 |AT04ENSR |/chem/msd5.i/5-27nov.b/5112703.d |
+-----+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 50.000 |
+=====+
|27-NOV-2007 09:21 |sp19b |/chem/msd5.i/5-27nov.b/5112702.d |
+-----+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 50.000 |
+=====+
|27-NOV-2007 09:21 |sp19bCCV |/chem/msd5.i/5-27nov.b/5112702a.d |
+-----+-----+-----+-----+
```

### **Initial Calibration Narrative**

A seven point initial calibration was analyzed on MSD-5 on 11/12/2007 and 11/13/2007. As noted on the accompanying analytical run logs, the following point calibration level 2 was re-analyzed due to:

- a. unacceptable peak resolution and/or integration of 2-Butanone

The following compounds used either 0.2 or 0.25 ppbv as the lowest calibration concentration:

Cumene, alpha-Chlorotoluene, trans-1,3-Dichloropropene, and Styrene.

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	26.19
75	30.0 - 60.0% of mass 95	42.68
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.38
173	Less than 2.0% of mass 174	( 0.85 ) <sup>1</sup>
174	Greater than 50.0% of mass 95	70.79
175	5.0 - 9.0% of mass 174	( 7.30 ) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	( 96.59 ) <sup>1</sup>
177	5.0 - 9.0% of mass 176	( 6.30 ) <sup>2</sup>

BFB Injection Date: 11/12/07  
 BFB Injection Time: 1201  
 BFB File ID: 5111205  
 Tekmar Purge Flow: 12.5 mL/min  
 Vacuum: 5.58 x 10<sup>-5</sup> Torr  
 IS/S Std #: 1487-401 Exp. Date: 01/24/08  
 BCM: 355243  
 1,4-DFB: 1306315  
 CB-d5: 1073463  
 Verified CCV IS vs ICAL mid-point (-40%<sup>D</sup>) 55  
Initials

Verify 176/174 m/z Ratio:  $\frac{681408}{705472} \times 100 = 96.599\%$

NOAH Cart #: 0 File #: F111209d  
11-13-02 CF

Calculation Check:  

$$\frac{\text{ppbv of compound}}{\text{Area}_{\text{sample}}} = \frac{\text{Conc.}_{\text{is}}}{\text{RRF}} \times \left( \frac{493461}{355243} \right) \times \left( \frac{25}{1.49639} \right)$$

Reported Result: 23.207

File ID: 5111205  
 Compound: 1,4-DFB-d4  
 Initials: CF

#	File #	Sample / Client Name	Can #	Pressure	Am't Loaded	BF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓ 5111205	BFB Tune Check	1476-65	50mg Humid	2ul	1.00	11/12/07	1201	CB	Single scan 102 Area +1
2	✓ 06	System Blank	13673	200 ppbv - 0.2 ppbv	200mL			1254	CB	
3	✓ 07	ICAL Level 1	1576-89	200 ppbv - 0.2 ppbv	0.2mL			1322	CB	Tikaluia
4	✓ 08			200 ppbv - 0.5 ppbv	0.5mL			1349	CB	
5	✓ 09			200 ppbv - 2 ppbv	2mL			1477	CB	
6	✓ 10			200 ppbv - 25 ppbv	25mL			1445	CB	CCV
7	✓ 11			200 ppbv - 50 ppbv	50mL			1512	CB	
8	✓ 12			200 ppbv - 100 ppbv	100mL			1541	CB	
9	✓ 13			200 ppbv	200mL			1613	CB	
10	✓ 14	System Blank	12512	Humid	200mL			1758	CB	

11-13-02 CF  
 11-13-02 CF  
 11-13-02 CF



11	X	511215	ICAL Level 3	1510-88	20 ppbv	2.0 uL	1.00	1/12/07	12881831	44	Not Needed
12	✓	511216	ICAL Level 3	1510-88	20 ppbv	2.0 uL	1.00	1/12/07	1920	1	SP200
13	✓	17	↓	↓	50 ppbv	5.0 uL	1.00	1/12/07	1948	1	CLV200
14	✓	18	↓	↓	200 ppbv	200 uL	1.00	1/12/07	0020	1	↓
15	X	19	ICAL Lcs	1510-113	20 ppbv	2.0 uL	1.00	1/12/07	0144	1	Not Used
16	X	20	↓	↓	200 ppbv	200 uL	1.00	1/12/07	0333	1	↓
17	X	21	System Blank	12941	Humid	200 uL	1.00	1/12/07	0028	1	CF
18	X	22	Lab Blank	↓	↓	↓	↓	↓	0113	1	CF
19	X	23	OP11016A-DUA	SC48	6.5 (11/15/07)	↓	2.58	↓	0228	1	CF
20	X	24	-07A	2122	0.2 (11/15/07)	↓	1.99	↓	0300	1	CF
21	X	25	-08A	34594	5.5 (11/15/07)	↓	4.99	↓	0333	1	CF
22	X	26	-09A	17412	5.0	↓	2.42	↓	0405	1	CF
23	X	27	-10A	1737	5.5	↓	2.47	↓	0437	1	CF
24	X	28	-11A	30829	8.5	↓	2.82	↓	0509	1	CF
25	X	29	-12A	34628	5.0	100 uL	4.84	↓	0538	1	CF
26	X	30	-13A	8C59	6.5	200 uL	2.58	↓	0610	1	CF
27	✓	31	Lab Blank	12941	Humid	200 uL	1.00	1/12/07	1014	1	CF
28	✓	32	ICAL Level 2 (Accepted)	1510-88	0.5 ppbv	0.5 uL	1.00	1/12/07	1041	1	CF
29											
30											
31											
32											

Comments:

Actual / 25.0 Nominal / 22.6

Flow controller Serial # AA920318

Dist Flow Meter Serial # 200-THH-EXP 8-31-08

11-13-07

Signature

Date



m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	26.36
75	30.0 - 60.0% of mass 95	47.51
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	( 0.76 ) <sup>1</sup>
174	Greater than 50.0% of mass 95	64.09
175	5.0 - 9.0% of mass 174	( 2.32 ) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	( 97.32 ) <sup>1</sup>
177	5.0 - 9.0% of mass 176	( 6.11 ) <sup>2</sup>

Verify 176/174 m/z Ratio:  $\frac{619498}{1636565} \times 100 = 97.32\%$

BFB Injection Date: 11/19/07  
 BFB Injection Time: 0033  
 BFB File ID: 5111901  
 Tekmar Purge Flow: 2  
 Vacuum: 11/19/07  
 IS/S Std #: 1487-461 Exp. Date: 1/24/08  
 BCM: 345866  
 1,4-DFB: 1304928  
 CB-d5: 994233  
 Verified CCV IS vs ICAL mid-point (-40%<sup>D</sup>)

NOAH Cart #: 14/11 File #: 5111906/5111911


Calculation Check:  $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \text{Conc.}_{\text{std}} = \text{Conc.}_{\text{sample}}$   
 $\frac{(1130502)}{(1304928)} \times (25.0) = 21.538$

File ID: 5111906  
 Compound: Tol-d8  
 Initials: R

%	File #	Sample / Client Name	Can #	Pressure	Am't Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	5111901	BFB Tune Check	1487-465	50mg	2µL	1.00	11/19/07	0033	CB	
✓	02	ICAL Sp level 3	1487-405	200-50µhr	2.0ml			0156	CB	T140126
✓	03	ICAL Sp level 5		200-50µhr	5.0ml			0224	CB	Sp216 CCV50
✓	04	ICAL Sp level 7		200µhr	300ml			0257	CB	
✓	05	System Blank	34190	Humid	200ml			0411	CB	
✓	06	CCV-1	1576-89	200-50µhr	5.0ml			0502	CB	
✓	07	ACS-1	1443-3024	100-50µhr	100ml			0530	CB	
✓	08	CCV-50	1487-404	200-50µhr	5.0ml			0605	CB	
X	09	Lab Blank	34190	Humid	200ml			0929	CB	Cart 7 8 Log 8
✓	10	Lab Blank						1051	CB	Cart 14 Log 4

11	✓	S111911	ICRL Level 1 3	1443-361	200 <sup>ppm</sup> 7 <sup>ppm</sup>	2ml	1.00	11/19/07	1224	CB	T1401126
12	✓	12	5	↓	200 <sup>ppm</sup> 50 <sup>ppm</sup>	50ml			1252	CB	SPI90000 CNGP
13	✓	13	7	↓	200 <sup>ppm</sup>	200ml			1324	CB	
14	✓	14	CNGP (200 <sup>ppm</sup> )	1487-404	50 <sup>ppm</sup>	50ml			1443	CB	SP20000
15	✓	15	Lab Blank	34190	Humid	200ml			1555	CB	Cart Cart 5 Log 1
16	X	16	Lab Blank						1703	SC	Cart Cart 8 Log 8
17	✓	S111917	0211102A-01A	35746	6.0 <sup>ppm</sup> -5 <sup>ppm</sup>	200ml	1.68		1811	SC	
18	✓	18	02A	↓	↓		1.68		1843	SC	
19	✓	19	02A	4339	4.5 <sup>ppm</sup>		1.58		1915	SC	
20	✓	20	02A	15286	5.5 <sup>ppm</sup>		1.04		1942	SC	
21	✓	21	0-1A	1588	6.0 <sup>ppm</sup>		1.68		2019	SC	
22	✓	22	05A	4059	5.0 <sup>ppm</sup>		1.61		2051	SC	
23	X	23	0211102A-01A	94902	11.5 <sup>ppm</sup> -15 <sup>ppm</sup>	150ml	4.37		2122	SC	PR @ 200ml
24	✓	24	02A	9368	2.5 <sup>ppm</sup>	200ml	2.08		2154	SC	
25	✓	25	03A	3246	17.0 <sup>ppm</sup>	3.0ml	3.1		2221	SC	
26	✓	26	01A	94902	11.5 <sup>ppm</sup> -15 <sup>ppm</sup>	800ml	3.28		2312	SC	
27	✓	27	0711123A-01A	25381	0.2 <sup>ppm</sup> -0.5 <sup>ppm</sup>	20ml	1.32	11/20/07	0000	SC	
28	X	28	-02A	70-15W	0.5 <sup>ppm</sup> -0.5 <sup>ppm</sup>	200ml	1.36	↓	0033	SC	out of clock
29											
30											
31											
32											

Comments:

Signature 

Date 11/19/07

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	29.14
75	30.0 - 60.0% of mass 95	48.74
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	( 0.65 ) <sup>1</sup>
174	Greater than 50.0% of mass 95	69.70
175	5.0 - 9.0% of mass 174	( 7.32 ) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	( 98.44 ) <sup>1</sup>
177	5.0 - 9.0% of mass 176	( 5.92 ) <sup>2</sup>

<sup>1</sup> - value in parenthesis is % mass 174      <sup>2</sup> - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio:  $\frac{412821}{419349} \times 100 = 98.44\%$

BFB Injection Date: 11/27/07  
 BFB Injection Time: 0856  
 BFB File ID: 5112701  
 Tekmar Purge Flow: 12.8 mL/min  
 Vacuum: 6.24 x 10<sup>-5</sup> Torr  
 IS/S Std #: 1576-131      Exp. Date: 2-26-07  
 BCM: 295766  
 1,4-DFB: 1044114  
 CB-d5: 825609  
 Verified CCV IS vs ICAL mid-point (-409% D) CB

NOAH Cart #: 11/      File #: 5112602/

File ID: 5112703  
 Compound: toluene-d8  
 Initials: CB

Calculation Check:

ppbv of compound =  $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{std}}} \times \text{Conc}_{\text{std}} \times \text{RRF}$

=  $\frac{900442}{1044114} \times (25.0) \times (0.88263)$

Reported Result 24.427

Sl. #	File #	Sample / Client Name	Can #	Pressure	Am't Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	5112701	BFB Tune Check	1476-65	50ps	2uL	1.00	11/27/07	0856	CB	
2	02	ICAL Level 2 (200 ppbv)	1443-574	50ppbv	50uL			0921	CB	4/14 g/n/2c 30 ppb CCV
3	03	CCV-1 (100 ppbv)	1576-90A		100uL			0949	CB	
4	04	LS-1 (200 ppbv)	1576-111		50uL			1017	CB	
5	05	System Blank	12941	Humid	200uL			1108	CB	
6	06	ICAL Level 3	1443-377	2ppbv	2uL			1136	CB	4/14 g/n/2c 30 ppb
7	07	ICAL Level 7			200uL			1208	CB	
8	08	Lab Blank	13673	Humid	200uL			310	CB	
9	09	0711308-014	94485	60%h-15ps	100uL	5.06		409	CB	ICAL Cont #14 Log 2
10	10	0711207-01A	1575	70%h-9.6ps	200uL	1.00			CB	ICAL - 1/2 PCA @ 400 KPa @ 35uL

Air Toxics Ltd.  
 Modified EPA Methods TO-14A/TO-15  
 Internal Standard and Associated Target Compounds and Surrogates

<b>Bromochloromethane</b>
<b>Target Compounds:</b>
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
<b>Surrogates:</b>
1,2-Dichloroethane-d4

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

<b>Chlorobenzene-d5</b>
<b>Target Compounds:</b>
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
<b>Surrogates:</b>
Bromofluorobenzene

Report Date: 13-Nov-2007 14:27

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-13nov.b/5111306.d  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Inj Date : 13-NOV-2007 14:19  
 Operator : ct Inst ID: msd5.i  
 Smp Info : 50mL #1576-113  
 Misc Info : 50ppbv (200ppbv)  
 Comment :  
 Method : /chem/msd5.i/5-13nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 14:10 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 20:20 Cal File: 5111218.d  
 Als bottle: 1 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #: 74-97-5		
8.059	8.059	(1.000)	130	329578	25.0000	80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	255291		44.59- 104.59	77.46	
8.032	8.059	(1.000)	49	712129		179.89- 239.89	216.07	
-----								
* 92	1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912	(1.000)	114	1265824	25.0000	80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	211923		0.00- 46.50	16.74	
-----								
* 125	Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999	(1.000)	117	985864	25.0000	80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	591551		0.00- 30.00	60.00	
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.110	(1.130)	65	494884	25.0865	25.086 80.00- 120.00	100.00	
9.110	9.110	(1.130)	67	275885		0.00- 30.00	55.75	
-----								
\$ 107	Toluene-d8					CAS #: 2037-26-5		
12.704	12.704	(1.282)	98	1130598	25.2986	25.299 80.00- 120.00	100.00	
12.677	12.704	(1.279)	70	113531		0.00- 30.00	10.04	

CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

\$ 107 Toluene-d8 (continued)

12.704	12.704	(1.282)	100	729210			0.00- 30.00	64.50
--------	--------	---------	-----	--------	--	--	-------------	-------

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575	16.575	(1.105)	174	573073	24.9127	24.913	80.00- 120.00	100.00
16.575	16.575	(1.105)	95	940083			133.48- 193.48	164.04
16.575	16.575	(1.105)	176	557005			70.11- 130.11	97.20

6 Propylene

CAS #: 115-07-1

2.280	2.280	(0.283)	41	1390096	60.4280	60.428	80.00- 120.00	100.00
2.280	2.280	(0.283)	42	935654			0.00- 30.00	67.31
2.280	2.280	(0.283)	39	946796			0.00- 30.00	68.11

8 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.336	2.336	(0.290)	85	2194755	56.3185	56.318	80.00- 120.00	100.00
2.336	2.336	(0.290)	87	706954			0.00- 30.00	32.21

9 Freon 114

CAS #: 76-14-2

2.446	2.446	(0.304)	135	2054336	57.7626	57.762	80.00- 120.00	100.00
2.446	2.446	(0.304)	137	652867			1.61- 61.61	31.78

10 Chloromethane

CAS #: 74-87-3

2.585	2.585	(0.321)	50	1613808	55.1495	55.149	80.00- 120.00	100.00
2.585	2.585	(0.321)	52	516287			0.00- 30.00	31.99

13 Vinyl Chloride

CAS #: 75-01-4

2.778	2.778	(0.345)	62	1597055	56.7023	56.702	80.00- 120.00	100.00
2.778	2.778	(0.345)	64	502731			0.00- 30.00	31.48

12 1,3-Butadiene

CAS #: 106-99-0

2.750	2.750	(0.341)	54	1419547	59.0142	59.014	80.00- 120.00	100.00
2.750	2.750	(0.341)	39	1537627			0.00- 30.00	108.32

15 Bromomethane

CAS #: 74-83-9

3.276	3.276	(0.406)	94	1074167	59.0738	59.074	80.00- 120.00	100.00
3.276	3.276	(0.406)	96	994884			64.51- 124.51	92.62

19 Chloroethane

CAS #: 75-00-3

3.386	3.386	(0.420)	64	789236	55.0880	55.088	80.00- 120.00	100.00
3.386	3.386	(0.420)	49	223113			0.00- 30.00	28.27
3.386	3.386	(0.420)	66	232780			0.00- 30.00	29.49

20 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.718	3.718	(0.461)	101	2404031	56.5807	56.581	80.00- 120.00	100.00
3.718	3.718	(0.461)	103	1562591			35.79- 95.79	65.00



CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPBV) ( PPBV) TARGET RANGE RATIO  
 == == ===== == ===== ===== =====

26 Ethanol CAS #: 64-17-5  
 4.078 4.078 (0.506) 45 617839 66.9348 66.935 80.00- 120.00 100.00  
 4.078 4.078 (0.506) 43 114972 0.00- 30.00 18.61  
 4.078 4.078 (0.506) 46 261005 0.00- 30.00 42.24

30 Freon 113 CAS #: 76-13-1  
 4.520 4.520 (0.561) 151 1654470 62.6241 62.624 80.00- 120.00 100.00  
 4.520 4.520 (0.561) 153 1049272 32.44- 92.44 63.42  
 4.520 4.520 (0.561) 101 2296302 106.77- 166.77 138.79

31 1,1-Dichloroethene CAS #: 75-35-4  
 4.575 4.548 (0.568) 61 2222648 63.5687 63.569 80.00- 120.00 100.00  
 4.575 4.548 (0.568) 96 1252491 25.42- 85.42 56.35  
 4.575 4.548 (0.568) 98 803129 5.54- 65.54 36.13

32 Acetone CAS #: 67-64-1  
 4.714 4.714 (0.585) 58 757570 57.9269 57.927 80.00- 120.00 100.00  
 4.714 4.714 (0.585) 43 2299307 0.00- 30.00 303.51

36 2-Propanol CAS #: 67-63-0  
 4.907 4.907 (0.609) 45 2726787 58.5876 58.588 80.00- 120.00 100.00  
 4.907 4.907 (0.609) 43 578881 0.00- 30.00 21.23  
 4.907 4.907 (0.609) 59 104526 0.00- 30.00 3.83

35 Carbon Disulfide CAS #: 75-15-0  
 4.907 4.907 (0.609) 76 3464610 58.5126 58.513 80.00- 120.00 100.00

38 3-Chloropropene CAS #: 107-05-1  
 5.184 5.184 (0.643) 76 568549 57.6695 57.670 80.00- 120.00 100.00  
 5.184 5.184 (0.643) 41 2168064 0.00- 30.00 381.33

43 Methylene Chloride CAS #: 75-09-2  
 5.432 5.432 (0.674) 49 1841524 61.5949 61.595 80.00- 120.00 100.00  
 5.432 5.432 (0.674) 84 1049480 26.07- 86.07 56.99  
 5.432 5.432 (0.674) 51 562086 0.00- 30.00 30.52

46 MTBE CAS #: 1634-04-4  
 5.764 5.764 (0.715) 73 1236681 54.9495 54.949 80.00- 120.00 100.00  
 5.764 5.764 (0.715) 57 394002 2.42- 62.42 31.86  
 5.764 5.764 (0.715) 41 414743 0.00- 30.00 33.54

47 trans-1,2-Dichloroethene CAS #: 156-60-5  
 5.820 5.820 (0.722) 96 1255521 59.2914 59.291 80.00- 120.00 100.00  
 5.820 5.820 (0.722) 61 2028708 128.85- 188.85 161.58  
 5.820 5.820 (0.722) 98 786800 0.00- 30.00 62.67

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPEV) ( PPBV) TARGET RANGE RATIO  
 == == ===== == ===== ===== =====

51 Hexane CAS #: 110-54-3  
 6.151 6.151 (0.763) 57 2564369 59.5522 59.552 80.00- 120.00 100.00  
 6.151 6.151 (0.763) 43 1789596 0.00- 30.00 69.79  
 6.151 6.151 (0.763) 86 368027 0.00- 30.00 14.35

55 1,1-Dichloroethane CAS #: 75-34-3  
 6.594 6.594 (0.818) 63 2312589 60.3159 60.316 80.00- 120.00 100.00  
 6.594 6.594 (0.818) 65 689212 0.00- 59.87 29.80

67 2-Butanone CAS #: 78-93-3  
 7.672 7.672 (0.952) 72 544183 58.8106 58.810 80.00- 120.00 100.00  
 7.644 7.672 (0.949) 43 3022181 561.22- 621.22 555.36  
 7.644 7.672 (0.949) 57 217616 0.00- 30.00 39.99

66 cis-1,2-Dichloroethene CAS #: 156-59-2  
 7.617 7.617 (0.945) 61 1682856 58.4566 58.456 80.00- 120.00 100.00  
 7.617 7.617 (0.945) 96 1133257 38.38- 98.38 67.34  
 7.617 7.617 (0.945) 98 720000 14.09- 74.09 42.78

70 Tetrahydrofuran CAS #: 109-99-9  
 8.032 8.031 (0.997) 42 1849537 53.6838 53.684 80.00- 120.00 100.00  
 8.032 8.031 (0.997) 71 479708 0.00- 55.17 25.94  
 8.032 8.031 (0.997) 72 529224 0.00- 30.00 28.61

72 Chloroform CAS #: 67-66-3  
 8.197 8.197 (1.017) 83 1933667 59.5243 59.524 80.00- 120.00 100.00  
 8.197 8.197 (1.017) 85 1237413 34.62- 94.62 63.99

75 1,1,1-Trichloroethane CAS #: 71-55-6  
 8.419 8.419 (1.045) 97 1910343 58.8323 58.832 80.00- 120.00 100.00  
 8.419 8.419 (1.045) 99 1227419 33.24- 93.24 64.25

74 Cyclohexane CAS #: 110-82-7  
 8.419 8.419 (1.045) 84 1515378 57.9311 57.931 80.00- 120.00 100.00  
 8.391 8.419 (1.041) 56 2394553 126.47- 186.47 158.02  
 8.391 8.419 (1.041) 41 1346348 58.16- 118.16 88.85

56 Vinyl Acetate CAS #: 108-05-4  
 6.649 6.649 (0.825) 86 284978 58.6702 58.670 80.00- 120.00 100.00  
 6.649 6.649 (0.825) 43 3788471 0.00- 30.00 1329.39  
 6.649 6.649 (0.825) 42 277519 0.00- 30.00 97.38

77 Carbon Tetrachloride CAS #: 56-23-5  
 8.667 8.667 (1.075) 119 1606399 59.9179 59.918 80.00- 120.00 100.00  
 8.667 8.667 (1.075) 117 1673357 74.63- 134.63 104.17

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
80	2,2,4-Trimethylpentane					CAS #:	540-84-1		
9.110	9.110	(1.130)	57	6983920	59.1478	59.148	80.00-	120.00	100.00
9.110	9.110	(1.130)	56	2282176			0.00-	30.00	32.68
9.110	9.110	(1.130)	41	1794142			0.00-	30.00	25.69
-----									
81	Benzene					CAS #:	71-43-2		
9.082	9.082	(0.916)	78	3120968	57.2023	57.202	80.00-	120.00	100.00
9.082	9.082	(0.916)	77	720584			0.00-	30.00	23.09
-----									
85	1,2-Dichloroethane					CAS #:	107-06-2		
9.276	9.276	(0.936)	62	1483218	59.3403	59.340	80.00-	120.00	100.00
9.276	9.276	(0.936)	64	462703			0.00-	30.00	31.20
-----									
90	Heptane					CAS #:	142-82-5		
9.497	9.469	(0.958)	100	360524	59.1602	59.160	80.00-	120.00	100.00
9.469	9.469	(0.955)	43	2886916			0.00-	30.00	800.76
9.469	9.469	(0.955)	71	1119378			0.00-	30.00	310.49
-----									
93	Trichloroethene					CAS #:	79-01-6		
10.326	10.326	(1.042)	95	1219788	55.1199	55.120	80.00-	120.00	100.00
10.326	10.326	(1.042)	130	1163570			63.34-	123.34	95.39
10.326	10.326	(1.042)	97	789093			34.39-	94.39	64.69
-----									
98	1,2-Dichloropropane					CAS #:	78-87-5		
10.824	10.824	(1.092)	63	1198025	55.8359	55.836	80.00-	120.00	100.00
10.824	10.824	(1.092)	62	834206			40.55-	100.55	69.63
10.824	10.824	(1.092)	41	818464			41.13-	101.13	68.32
-----									
99	1,4-Dioxane					CAS #:	123-91-1		
11.073	11.073	(1.117)	88	665226	53.3833	53.383	80.00-	120.00	100.00
11.045	11.073	(1.114)	58	640313			62.89-	122.89	96.25
11.045	11.073	(1.114)	57	203792			0.00-	30.00	30.64
-----									
100	Bromodichloromethane					CAS #:	75-27-4		
11.405	11.405	(1.151)	83	1786670	57.7457	57.746	80.00-	120.00	100.00
11.405	11.405	(1.151)	85	1146088			33.46-	93.46	64.15
-----									
103	cis-1,3-Dichloropropene					CAS #:	10061-01-5		
12.317	12.317	(1.243)	75	1277421	58.2532	58.253	80.00-	120.00	100.00
12.317	12.317	(1.243)	77	409273			2.37-	62.37	32.04
12.290	12.317	(1.240)	39	946560			44.56-	104.56	74.10
-----									
106	4-Methyl-2-pentanone					CAS #:	108-10-1		
12.594	12.594	(1.271)	58	1081560	60.5091	60.509	80.00-	120.00	100.00
12.594	12.594	(1.271)	43	3066032			0.00-	30.00	283.48
12.594	12.594	(1.271)	85	360057			0.00-	30.00	33.29
-----									

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	3221255	57.2310	57.231	80.00-	120.00	100.00	
12.815	12.815	(1.293)	92	1904763			30.01-	90.01	59.13	
-----										
113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	1274370	61.1838	61.184	80.00-	120.00	100.00	
13.368	13.368	(0.891)	77	409356			1.79-	61.79	32.12	
13.340	13.368	(0.889)	39	886762			40.58-	100.58	69.58	
-----										
114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	1067431	57.4509	57.451	80.00-	120.00	100.00	
13.644	13.644	(0.910)	99	656158			32.34-	92.34	61.47	
13.644	13.644	(0.910)	83	866152			52.84-	112.84	81.14	
-----										
116 Tetrachloroethene						CAS #:	127-18-4			
13.700	13.700	(0.913)	166	1235329	57.2010	57.201	80.00-	120.00	100.00	
13.672	13.700	(0.912)	129	970748			50.58-	110.58	78.58	
13.672	13.700	(0.912)	131	954865			48.33-	108.33	77.30	
-----										
119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	1433868	55.3223	55.322	80.00-	120.00	100.00	
14.004	14.004	(0.934)	43	2914899			176.65-	236.65	203.29	
14.031	14.004	(0.935)	100	208571			0.00-	30.00	14.55	
-----										
120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	1549883	59.6173	59.617	80.00-	120.00	100.00	
14.197	14.197	(0.947)	127	1203853			0.00-	30.00	77.67	
-----										
122 1,2-Dibromoethane						CAS #:	106-93-4			
14.363	14.363	(0.958)	107	1517022	55.7017	55.702	80.00-	120.00	100.00	
14.363	14.363	(0.958)	109	1435652			64.70-	124.70	94.64	
-----										
126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	2351199	55.4220	55.422	80.00-	120.00	100.00	
15.027	15.027	(1.002)	114	749667			1.03-	61.03	31.88	
15.027	15.027	(1.002)	77	1452071			31.90-	91.90	61.76	
-----										
128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	1300388	56.7372	56.737	80.00-	120.00	100.00	
15.165	15.165	(1.011)	91	4332438			0.00-	30.00	333.17	
-----										
130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	1634742	58.0715	58.071	80.00-	120.00	100.00	
15.331	15.331	(1.022)	91	3490965			0.00-	30.00	213.55	
-----										
132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	1551490	57.9579	57.958	80.00-	120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	3470165			198.40- 258.40	223.67	
-----									
133 Styrene CAS #: 100-42-5									
15.912	15.912	(1.061)	104	2405394	60.9453	60.945	80.00- 120.00	100.00	
15.912	15.912	(1.061)	78	1281079			22.91- 82.91	53.26	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	1372663	59.2484	59.248	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	717398			21.91- 81.91	52.26	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	2257364	55.9161	55.916	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	1428065			34.08- 94.08	63.26	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	4826213	61.1039	61.104	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1403150			0.00- 59.53	29.07	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	4304136	60.2885	60.288	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	2019971			0.00- 30.00	46.93	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	3520245	58.1256	58.126	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1622961			16.07- 76.07	46.10	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	2295165	53.5312	53.531	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1480562			0.00- 30.00	64.51	
17.764	17.764	(1.184)	111	941672			0.00- 30.00	41.03	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2801549	55.7527	55.753	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1748952			0.00- 30.00	62.43	
17.847	17.847	(1.190)	111	1187423			0.00- 30.00	42.38	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	4403553	69.5954	69.595	80.00- 120.00	100.00(R)	
17.985	17.985	(1.199)	126	864941			0.00- 30.00	19.64	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.207	18.206	(1.214)	146	2361508	52.3671	52.367	80.00- 120.00	100.00	
18.207	18.206	(1.214)	148	1497823			34.60- 94.60	63.43	
18.207	18.206	(1.214)	111	963711			10.93- 70.93	40.81	
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
163	19.506	19.506	180	1572894	49.1385	1,2,4-Trichlorobenzene	49.138	80.00- 120.00	100.00
		(1.300)							
	19.506	(1.300)	182	1493992				63.79- 123.79	94.98
-----									
164	19.589	19.589	225	1120526	49.8270	Hexachlorobutadiene	49.827	80.00- 120.00	100.00
		(1.306)							
	19.589	(1.306)	223	722204				29.99- 89.99	64.45
-----									
142	16.824	16.824	91	5736153	61.7056	Propylbenzene	61.706	80.00- 120.00	100.00
		(1.122)							
	16.824	(1.122)	120	1198962				0.00- 30.00	20.90
	16.824	(1.122)	105	195355				0.00- 30.00	3.41
-----									
136	16.326	16.326	105	4762001	58.6699	Cumene	58.670	80.00- 120.00	100.00
		(1.088)							
	16.326	(1.088)	120	1255353				0.00- 30.00	26.36
	16.326	(1.088)	51	683771				0.00- 30.00	14.36
-----									
165	19.672	19.672	128	5933474	55.6559	Naphthalene	55.656	80.00- 120.00	100.00
		(1.312)							
	19.672	(1.312)	127	733755				0.00- 30.00	12.37
-----									
17	3.414	3.414	43	2280331	55.8901	Isopentane	55.890	80.00- 120.00	100.00
		(0.424)							
	3.414	(0.424)	57	1478618				0.00- 30.00	64.84
	3.414	(0.424)	72	138916				0.00- 30.00	6.09
-----									
11	2.668	2.667	58	395221	56.8161	Butane	56.816	80.00- 120.00	100.00
		(0.331)							
	2.668	(0.331)	43	2997680				0.00- 30.00	758.48
-----									
94	10.548	10.548	83	1837040	58.2953	Methyl Cyclohexane	58.295	80.00- 120.00	100.00
		(1.064)							
	10.548	(1.064)	98	917043				0.00- 30.00	49.92
	10.548	(1.064)	55	2039352				0.00- 30.00	111.01
-----									

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 13-Nov-2007 14:27

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 13-NOV-2007

Lab File ID: 5111306.d

Calibration Time: 13:51

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ct

Method File: /chem/msd5.i/5-13nov.b/t14qn12a.m

Misc Info: 50ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	332179	199307	465051	329578	-0.78
92 1,4-Difluorobenze	1233793	740276	1727310	1265824	2.60
125 Chlorobenzene-d5	987199	592319	1382079	985864	-0.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
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.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-13nov  
 Sample Matrix: GAS Fraction: VOA  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Level: LOW Operator: ct  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: 2926Spectra.spk Quant Type: ISTD  
 Sublist File: AT04ENSR.sub  
 Method File: /chem/msd5.i/5-13nov.b/t14qn12a.m  
 Misc Info: 50ppbv (200ppbv)

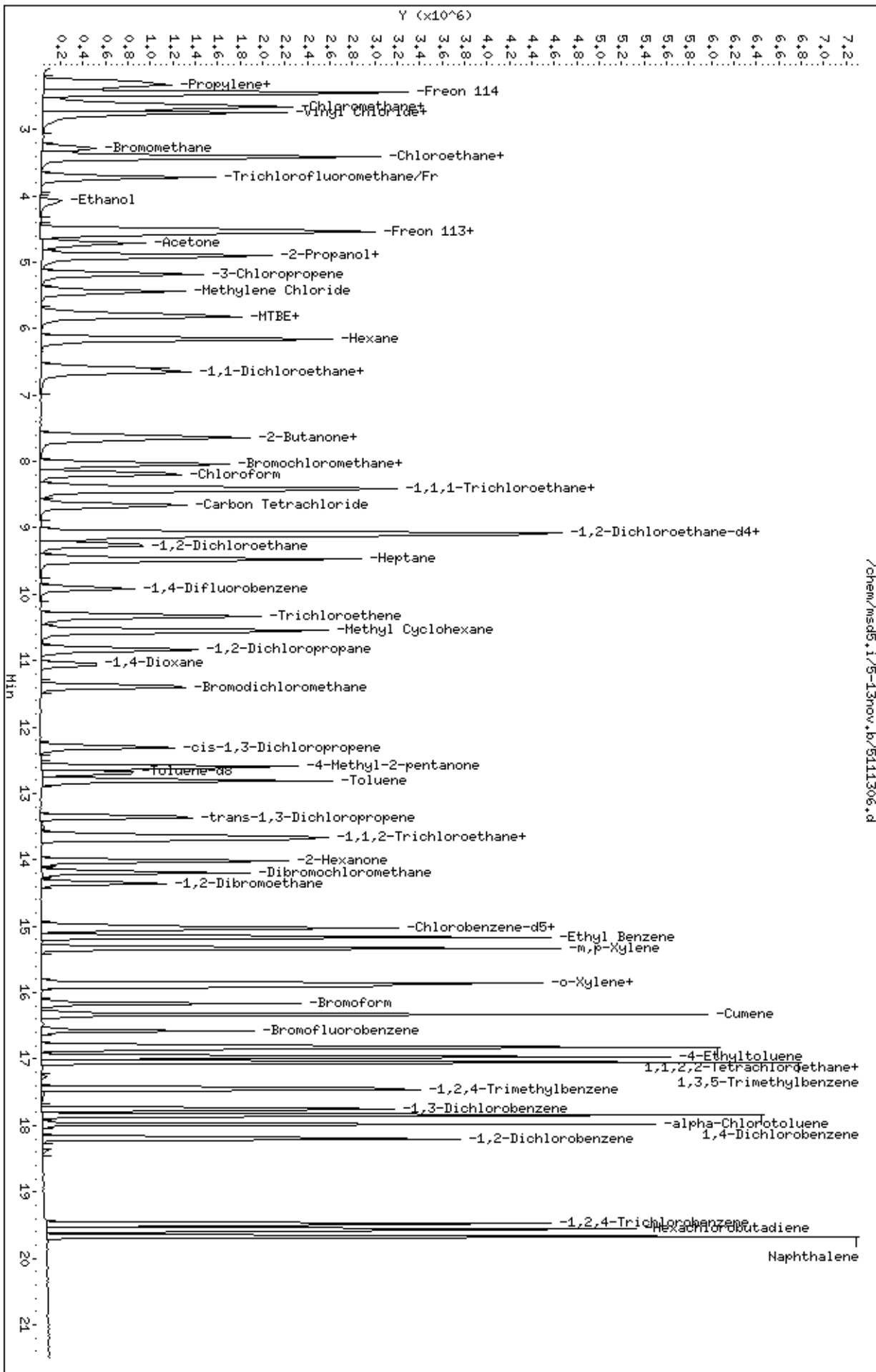
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	56.318	112.64	70-130
9 Freon 114	50.000	57.762	115.53	70-130
10 Chloromethane	50.000	55.149	110.30	70-130
13 Vinyl Chloride	50.000	56.702	113.40	70-130
12 1,3-Butadiene	50.000	59.014	118.03	60-140
15 Bromomethane	50.000	59.074	118.15	70-130
19 Chloroethane	50.000	55.088	110.18	70-130
20 Trichlorofluoromet	50.000	56.581	113.16	70-130
26 Ethanol	50.000	66.935	133.87	60-140
30 Freon 113	50.000	62.624	125.25	70-130
31 1,1-Dichloroethene	50.000	63.569	127.14	70-130
35 Carbon Disulfide	50.000	58.513	117.03	60-140
32 Acetone	50.000	57.927	115.85	60-140
36 2-Propanol	50.000	58.588	117.18	60-140
38 3-Chloropropene	50.000	57.670	115.34	60-140
43 Methylene Chloride	50.000	61.595	123.19	70-130
46 MTBE	50.000	54.949	109.90	60-140
47 trans-1,2-Dichloro	50.000	59.291	118.58	60-140
51 Hexane	50.000	59.552	119.10	60-140
55 1,1-Dichloroethane	50.000	60.316	120.63	70-130
66 cis-1,2-Dichloroet	50.000	58.456	116.91	70-130
67 2-Butanone	50.000	58.810	117.62	60-140
70 Tetrahydrofuran	50.000	53.684	107.37	60-140
72 Chloroform	50.000	59.524	119.05	70-130
74 Cyclohexane	50.000	57.931	115.86	60-140
75 1,1,1-Trichloroeth	50.000	58.832	117.66	70-130
56 Vinyl Acetate	50.000	58.670	117.34	60-140
77 Carbon Tetrachlori	50.000	59.918	119.84	70-130
80 2,2,4-Trimethylpen	50.000	59.148	118.30	60-140
81 Benzene	50.000	57.202	114.40	70-130
85 1,2-Dichloroethane	50.000	59.340	118.68	70-130
90 Heptane	50.000	59.160	118.32	60-140
93 Trichloroethene	50.000	55.120	110.24	70-130



Report Date: 13-Nov-2007 14:27

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	55.836	111.67	70-130
99 1,4-Dioxane	50.000	53.383	106.77	60-140
100 Bromodichlorometha	50.000	57.746	115.49	60-140
103 cis-1,3-Dichloropr	50.000	58.253	116.51	70-130
106 4-Methyl-2-pentano	50.000	60.509	121.02	60-140
108 Toluene	50.000	57.231	114.46	70-130
113 trans-1,3-Dichloro	50.000	61.184	122.37	70-130
114 1,1,2-Trichloroeth	50.000	57.451	114.90	70-130
116 Tetrachloroethene	50.000	57.201	114.40	70-130
119 2-Hexanone	50.000	55.322	110.64	60-140
120 Dibromochlorometha	50.000	59.617	119.23	60-140
122 1,2-Dibromoethane	50.000	55.702	111.40	70-130
126 Chlorobenzene	50.000	55.422	110.84	70-130
128 Ethyl Benzene	50.000	56.737	113.47	70-130
130 m,p-Xylene	50.000	58.071	116.14	70-130
132 o-Xylene	50.000	57.958	115.92	70-130
133 Styrene	50.000	60.945	121.89	70-130
134 Bromoform	50.000	59.248	118.50	60-140
136 Cumene	50.000	58.670	117.34	60-140
141 1,1,2,2-Tetrachlor	50.000	55.916	111.83	70-130
142 Propylbenzene	50.000	61.706	123.41	60-140
144 4-Ethyltoluene	50.000	61.104	122.21	60-140
147 1,3,5-Trimethylben	50.000	60.288	120.58	70-130
152 1,2,4-Trimethylben	50.000	58.126	116.25	70-130
155 1,3-Dichlorobenzen	50.000	53.531	107.06	70-130
156 1,4-Dichlorobenzen	50.000	55.753	111.51	70-130
157 alpha-Chlorotoluen	50.000	69.595	139.19*	70-130
159 1,2-Dichlorobenzen	50.000	52.367	104.73	70-130
163 1,2,4-Trichloroben	50.000	49.138	98.28	70-130
164 Hexachlorobutadien	50.000	49.827	99.65	70-130
6 Propylene	50.000	60.428	120.86	70-130
165 Naphthalene	50.000	55.656	111.31	60-140
11 Butane	50.000	56.816	113.63	70-130
17 Isopentane	50.000	55.890	111.78	70-130
94 Methyl Cyclohexane	50.000	58.295	116.59	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	25.086	100.35	70-130
\$ 107 Toluene-d8	25.000	25.299	101.19	70-130
\$ 138 Bromofluorobenzene	25.000	24.913	99.65	70-130



Report Date: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111207.d  
 Lab Smp Id: ICAL Client Smp ID: Level 1  
 Inj Date : 12-NOV-2007 13:22  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 0.2mL #1576-89  
 Misc Info : 200ppbv -> 0.2ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 13:22 Cal File: 5111207.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									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	324865	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	255197				42.76- 102.76	78.55
8.031	8.031	(1.000)	49	723656				173.18- 233.18	222.76
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.911	(1.000)	114	1268973	25.0000			70.00- 130.00	100.00
9.911	9.911	(1.000)	88	206541				0.00- 46.42	16.28
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	967469	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	578503				0.00- 30.00	59.80
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	466593	25.0000	23.996		70.00- 130.00	100.00
9.110	9.110	(1.130)	67	236655				0.00- 30.00	50.72
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1063579	25.0000	23.740		70.00- 130.00	100.00
12.676	12.676	(1.279)	70	108141				0.00- 30.00	10.17

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	693173			0.00- 30.00	65.17		
-----										
\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	542906	25.0000	24.050	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	853089			128.71- 188.71	157.13		
16.575	16.575	(1.105)	176	514238			68.26- 128.26	94.72		
-----										
72 Chloroform										
						CAS #: 67-66-3				
8.197	8.197	(1.017)	83	10780	0.20000	0.3366	70.00- 130.00	100.00		
8.197	8.197	(1.017)	85	7440			35.19- 95.19	69.02		
-----										
81 Benzene										
						CAS #: 71-43-2				
9.082	9.082	(0.916)	78	19738	0.20000	0.3609	70.00- 130.00	100.00		
9.082	9.082	(0.916)	77	5003			0.00- 30.00	25.35		
-----										
133 Styrene										
						CAS #: 100-42-5				
15.911	15.911	(1.061)	104	7880	0.20000	0.2034	70.00- 130.00	100.00		
15.911	15.911	(1.061)	78	5297			22.39- 82.39	67.22		
-----										
136 Cumene										
						CAS #: 98-82-8				
16.326	16.326	(1.088)	105	21376	0.20000	0.2684	70.00- 130.00	100.00		
16.326	16.326	(1.088)	120	5275			0.00- 30.00	24.68		
16.326	16.326	(1.088)	51	3186			0.00- 30.00	14.90		
-----										
157 alpha-Chlorotoluene										
						CAS #: 100-44-7				
17.985	17.985	(1.199)	91	12415	0.20000	0.1999	70.00- 130.00	100.00(a)		
17.985	17.985	(1.199)	126	2022			0.00- 30.00	16.29		
-----										
106 4-Methyl-2-pentanone										
						CAS #: 108-10-1				
12.621	12.621	(1.273)	58	4383	0.20000	0.2446	70.00- 130.00	100.00(a)		
12.593	12.593	(1.271)	43	10942			0.00- 30.00	249.65		
12.621	12.621	(1.273)	85	1921			0.00- 30.00	43.83		
-----										

QC Flag Legend

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

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111207.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 0.2ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	324865	-8.55
92 1,4-Difluorobenze	1306915	784149	1829681	1268973	-2.90
125 Chlorobenzene-d5	1023463	614078	1432848	967469	-5.47

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-12nov.b/5111207.d

Date: 12-NOV-2007 13:22

Client ID: Level 1

Sample Info: 0.2mL #1576-89

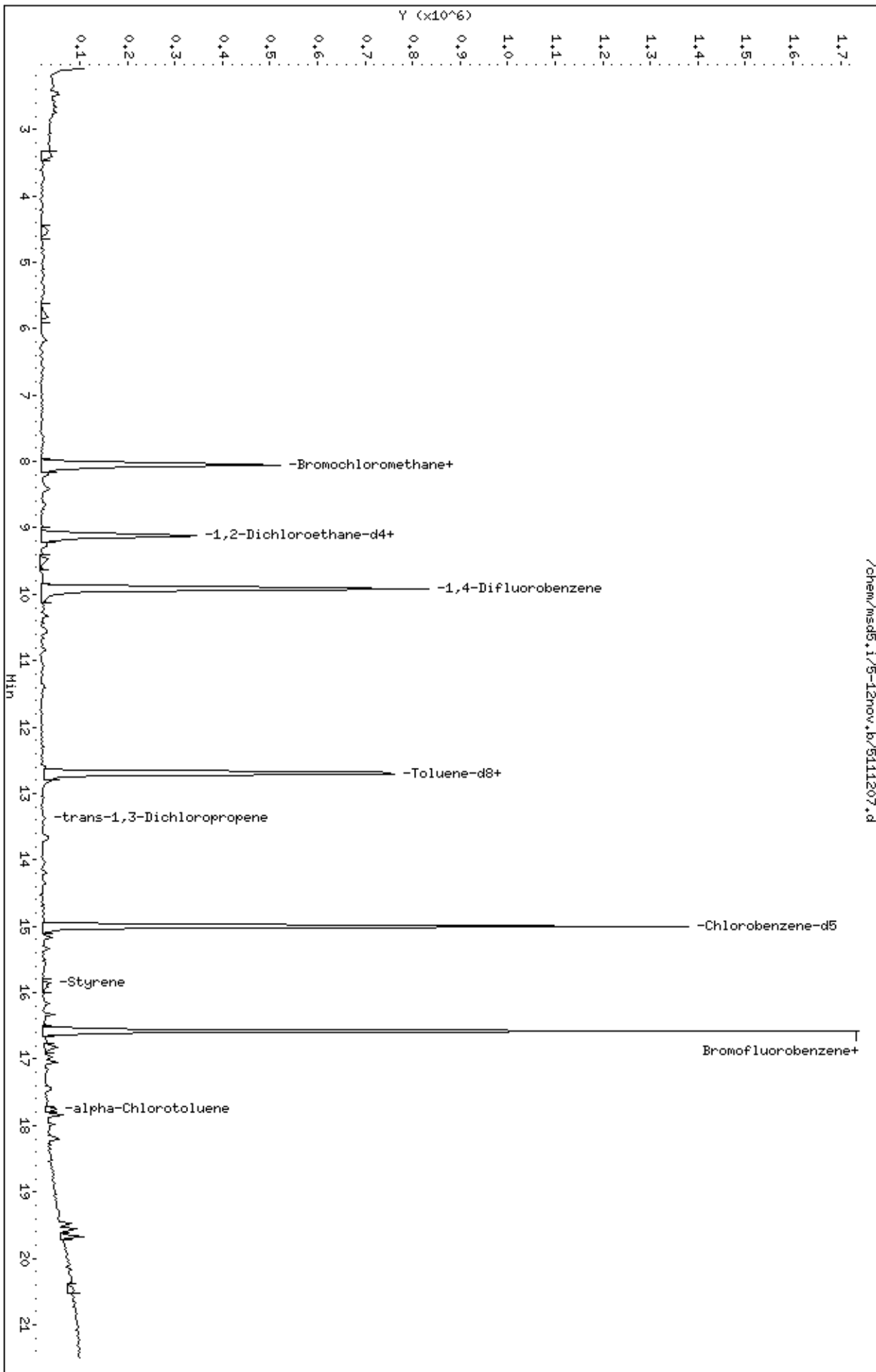
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-12nov.b/5111207.d



Report Date: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111232.d  
 Lab Smp Id: ICAL Client Smp ID: Level 2  
 Inj Date : 13-NOV-2007 10:41  
 Operator : ct Inst ID: msd5.i  
 Smp Info : 0.5mL #1576-89  
 Misc Info : 0.5ppbv (200ppbv)  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 13-NOV-2007 10:41 Cal File: 5111232.d  
 Als bottle: 1 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane				CAS #: 74-97-5			
8.059	8.059	(1.000)	130	301055	25.0000		70.00- 130.00	100.00
8.059	8.059	(1.000)	128	241588			42.76- 102.76	80.25
8.059	8.059	(1.000)	49	676243			173.18- 233.18	224.62
-----								
* 92	1,4-Difluorobenzene				CAS #: 540-36-3			
9.911	9.911	(1.000)	114	1093486	25.0000		70.00- 130.00	100.00
9.911	9.911	(1.000)	88	186745			0.00- 46.42	17.08
-----								
* 125	Chlorobenzene-d5				CAS #: 3114-55-4			
14.999	14.999	(1.000)	117	848011	25.0000		70.00- 130.00	100.00
14.999	14.999	(1.000)	82	511706			0.00- 30.00	60.34
-----								
\$ 84	1,2-Dichloroethane-d4				CAS #: 17060-07-0			
9.110	9.110	(1.130)	65	422605	25.0000	23.452	70.00- 130.00	100.00
9.110	9.110	(1.130)	67	209734			0.00- 30.00	49.63
-----								
\$ 107	Toluene-d8				CAS #: 2037-26-5			
12.704	12.704	(1.282)	98	926376	25.0000	23.996	70.00- 130.00	100.00
12.676	12.676	(1.279)	70	99400			0.00- 30.00	10.73

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	600305			0.00- 30.00	64.80		
-----										
\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	481562	25.0000	24.338	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	749901			128.71- 188.71	155.72		
16.575	16.575	(1.105)	176	460138			68.26- 128.26	95.55		
-----										
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8				
2.336	2.336	(0.290)	85	12903	0.50000	0.3625	70.00- 130.00	100.00(a)		
2.308	2.308	(0.286)	87	4793			0.00- 30.00	37.15		
-----										
9 Freon 114						CAS #: 76-14-2				
2.446	2.446	(0.304)	135	14184	0.50000	0.4366	70.00- 130.00	100.00(a)		
2.446	2.446	(0.304)	137	5692			2.29- 62.29	40.13		
-----										
13 Vinyl Chloride						CAS #: 75-01-4				
2.778	2.778	(0.345)	62	11685	0.50000	0.4542	70.00- 130.00	100.00(a)		
2.750	2.750	(0.341)	64	3659			0.00- 30.00	31.31		
-----										
12 1,3-Butadiene						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	8235	0.50000	0.3748	70.00- 130.00	100.00(a)		
2.750	2.750	(0.341)	39	10174			0.00- 30.00	123.55		
-----										
15 Bromomethane						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	7098	0.50000	0.4273	70.00- 130.00	100.00(a)		
3.276	3.276	(0.406)	96	6564			65.07- 125.07	92.48		
-----										
19 Chloroethane						CAS #: 75-00-3				
3.414	3.414	(0.424)	64	6821	0.50000	0.5212	70.00- 130.00	100.00		
3.386	3.386	(0.420)	49	1821			0.00- 30.00	26.70		
3.414	3.414	(0.424)	66	2050			0.00- 30.00	30.05		
-----										
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	17314	0.50000	0.4461	70.00- 130.00	100.00(a)		
3.718	3.718	(0.461)	103	10722			34.56- 94.56	61.93		
-----										
30 Freon 113						CAS #: 76-13-1				
4.520	4.520	(0.561)	151	11540	0.50000	0.4782	70.00- 130.00	100.00(a)		
4.520	4.520	(0.561)	153	5960			33.43- 93.43	51.65		
4.520	4.520	(0.561)	101	14065			108.48- 168.48	121.88		
-----										
31 1,1-Dichloroethene						CAS #: 75-35-4				
4.547	4.547	(0.564)	61	13348	0.50000	0.4179	70.00- 130.00	100.00(a)		
4.547	4.547	(0.564)	96	6903			27.13- 87.13	51.72		
4.575	4.575	(0.568)	98	6347			5.60- 65.60	47.55		
-----										



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
35	Carbon Disulfide					CAS #:	75-15-0		
4.907	4.907	(0.609)	76	20015	0.50000	0.3700	70.00- 130.00	100.00(a)	
-----									
43	Methylene Chloride					CAS #:	75-09-2		
5.432	5.432	(0.674)	49	13185	0.50000	0.4828	70.00- 130.00	100.00(a)	
5.432	5.432	(0.674)	84	7588			29.81- 89.81	57.55	
5.432	5.432	(0.674)	51	5074			0.00- 30.00	38.48	
-----									
46	MTBE					CAS #:	1634-04-4		
5.764	5.764	(0.715)	73	13666	0.50000	0.6648	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	4935			1.68- 61.68	36.11	
5.764	5.764	(0.715)	41	6421			0.00- 30.00	46.99	
-----									
47	trans-1,2-Dichloroethene					CAS #:	156-60-5		
5.819	5.819	(0.722)	96	6986	0.50000	0.3612	70.00- 130.00	100.00(a)	
5.819	5.819	(0.722)	61	14051			133.65- 193.65	201.13	
5.819	5.819	(0.722)	98	5355			0.00- 30.00	76.65	
-----									
51	Hexane					CAS #:	110-54-3		
6.151	6.151	(0.763)	57	14853	0.50000	0.3776	70.00- 130.00	100.00(a)	
6.151	6.151	(0.763)	43	13512			0.00- 30.00	90.97	
6.179	6.179	(0.767)	86	3050			0.00- 30.00	20.53	
-----									
55	1,1-Dichloroethane					CAS #:	75-34-3		
6.594	6.594	(0.818)	63	12666	0.50000	0.3616	70.00- 130.00	100.00(a)	
6.594	6.594	(0.818)	65	5023			0.52- 60.52	39.66	
-----									
67	2-Butanone					CAS #:	78-93-3		
7.700	7.700	(0.955)	72	3857	0.50000	0.4563	70.00- 130.00	100.00(a)	
7.700	7.700	(0.955)	43	13510			536.33- 596.33	350.27	
7.700	7.700	(0.955)	57	1285			0.00- 30.00	33.32	
-----									
66	cis-1,2-Dichloroethene					CAS #:	156-59-2		
7.617	7.617	(0.945)	61	10821	0.50000	0.4115	70.00- 130.00	100.00(a)	
7.617	7.617	(0.945)	96	7971			37.56- 97.56	73.66	
7.617	7.617	(0.945)	98	4824			14.52- 74.52	44.58	
-----									
70	Tetrahydrofuran					CAS #:	109-99-9		
8.059	8.059	(1.000)	42	17438	0.50000	0.5541	70.00- 130.00	100.00	
8.087	8.087	(1.003)	71	4573			0.00- 55.74	26.22	
8.059	8.059	(1.000)	72	6854			0.00- 30.00	39.30	
-----									
72	Chloroform					CAS #:	67-66-3		
8.197	8.197	(1.017)	83	11181	0.50000	0.3768	70.00- 130.00	100.00(a)	
8.197	8.197	(1.017)	85	6949			35.19- 95.19	62.15	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
75	1,1,1-Trichloroethane					CAS #:	71-55-6		
8.418	8.418	(1.045)	97	12913	0.50000	0.4354	70.00-	130.00	100.00(a)
8.446	8.446	(1.048)	99	6490			33.02-	93.02	50.26
-----									
74	Cyclohexane					CAS #:	110-82-7		
8.418	8.418	(1.045)	84	8955	0.50000	0.3748	70.00-	130.00	100.00(a)
8.391	8.391	(1.041)	56	15410			126.11-	186.11	172.08
8.391	8.391	(1.041)	41	11390			55.82-	115.82	127.19
-----									
77	Carbon Tetrachloride					CAS #:	56-23-5		
8.667	8.667	(1.075)	119	8396	0.50000	0.3428	70.00-	130.00	100.00(a)
8.667	8.667	(1.075)	117	10748			75.98-	135.98	128.01
-----									
80	2,2,4-Trimethylpentane					CAS #:	540-84-1		
9.082	9.082	(1.127)	57	38941	0.50000	0.3610	70.00-	130.00	100.00(a)
9.082	9.082	(1.127)	56	14187			0.00-	30.00	36.43
9.082	9.082	(1.127)	41	12183			0.00-	30.00	31.29
-----									
81	Benzene					CAS #:	71-43-2		
9.082	9.082	(0.916)	78	18964	0.50000	0.4024	70.00-	130.00	100.00(a)
9.082	9.082	(0.916)	77	4842			0.00-	30.00	25.53
-----									
85	1,2-Dichloroethane					CAS #:	107-06-2		
9.276	9.276	(0.936)	62	8877	0.50000	0.4111	70.00-	130.00	100.00(a)
9.276	9.276	(0.936)	64	2677			0.00-	30.00	30.16
-----									
90	Heptane					CAS #:	142-82-5		
9.469	9.469	(0.955)	100	1775	0.50000	0.3372	70.00-	130.00	100.00(a)
9.469	9.469	(0.955)	43	15642			0.00-	30.00	881.24
9.469	9.469	(0.955)	71	5645			0.00-	30.00	318.03
-----									
93	Trichloroethene					CAS #:	79-01-6		
10.326	10.326	(1.042)	95	9325	0.50000	0.4878	70.00-	130.00	100.00(a)
10.326	10.326	(1.042)	130	7696			64.49-	124.49	82.53
10.354	10.354	(1.045)	97	5987			34.72-	94.72	64.20
-----									
98	1,2-Dichloropropane					CAS #:	78-87-5		
10.824	10.824	(1.092)	63	8470	0.50000	0.4570	70.00-	130.00	100.00(a)
10.852	10.852	(1.095)	62	5511			39.05-	99.05	65.06
10.852	10.852	(1.095)	41	5947			36.65-	96.65	70.21
-----									
100	Bromodichloromethane					CAS #:	75-27-4		
11.405	11.405	(1.151)	83	10836	0.50000	0.4054	70.00-	130.00	100.00(a)
11.405	11.405	(1.151)	85	7777			34.72-	94.72	71.77
-----									
103	cis-1,3-Dichloropropene					CAS #:	10061-01-5		
12.317	12.317	(1.243)	75	6503	0.50000	0.3433	70.00-	130.00	100.00(a)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
103 cis-1,3-Dichloropropene (continued)									
12.317	12.317	(1.243)	77	1501			0.28- 60.28	23.08	
12.317	12.317	(1.243)	39	6582			43.30- 103.30	101.21	
-----									
106 4-Methyl-2-pentanone CAS #: 108-10-1									
12.593	12.593	(1.271)	58	3651	0.50000	0.2364	70.00- 130.00	100.00(a)	
12.593	12.593	(1.271)	43	14600			0.00- 30.00	399.89	
12.593	12.593	(1.271)	85	1498			0.00- 30.00	41.03	
-----									
108 Toluene CAS #: 108-88-3									
12.815	12.815	(1.293)	91	23962	0.50000	0.4928	70.00- 130.00	100.00(a)	
12.815	12.815	(1.293)	92	10275			29.65- 89.65	42.88	
-----									
113 trans-1,3-Dichloropropene CAS #: 10061-02-6									
13.368	13.368	(0.891)	75	3103	0.50000	0.1732	70.00- 130.00	100.00(a)	
13.340	13.340	(0.889)	77	2407			1.96- 61.96	77.57	
13.368	13.368	(0.891)	39	3144			38.82- 98.82	101.32	
-----									
114 1,1,2-Trichloroethane CAS #: 79-00-5									
13.644	13.644	(0.910)	97	6718	0.50000	0.4204	70.00- 130.00	100.00(a)	
13.644	13.644	(0.910)	99	4190			33.63- 93.63	62.37	
13.644	13.644	(0.910)	83	6314			55.73- 115.73	93.99	
-----									
116 Tetrachloroethene CAS #: 127-18-4									
13.699	13.699	(0.913)	166	7651	0.50000	0.4119	70.00- 130.00	100.00(a)	
13.672	13.672	(0.912)	129	7468			50.24- 110.24	97.61	
13.699	13.699	(0.913)	131	6779			48.42- 108.42	88.60	
-----									
120 Dibromochloromethane CAS #: 124-48-1									
14.197	14.197	(0.947)	129	8233	0.50000	0.3682	70.00- 130.00	100.00(a)	
14.197	14.197	(0.947)	127	6244			0.00- 30.00	75.84	
-----									
122 1,2-Dibromoethane CAS #: 106-93-4									
14.363	14.363	(0.958)	107	8908	0.50000	0.3802	70.00- 130.00	100.00(a)	
14.363	14.363	(0.958)	109	9791			63.74- 123.74	109.91	
-----									
126 Chlorobenzene CAS #: 108-90-7									
15.027	15.027	(1.002)	112	15065	0.50000	0.4128	70.00- 130.00	100.00(a)	
15.054	15.054	(1.004)	114	4670			1.82- 61.82	31.00	
14.999	14.999	(1.000)	77	17996			31.79- 91.79	119.46	
-----									
128 Ethyl Benzene CAS #: 100-41-4									
15.165	15.165	(1.011)	106	9063	0.50000	0.4597	70.00- 130.00	100.00(a)	
15.165	15.165	(1.011)	91	23494			0.00- 30.00	259.23	
-----									
130 m,p-Xylene CAS #: 108-38-3									
15.331	15.331	(1.022)	106	9166	0.50000	0.3785	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 m,p-Xylene (continued)									
15.331	15.331	(1.022)	91	18014			0.00- 30.00	196.53	
-----									
132 o-Xylene CAS #: 95-47-6									
15.856	15.856	(1.057)	106	9567	0.50000	0.4155	70.00- 130.00	100.00(a)	
15.856	15.856	(1.057)	91	16804			195.49- 255.49	175.65	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	10002	0.50000	0.2946	70.00- 130.00	100.00(a)	
15.911	15.911	(1.061)	78	6410			22.39- 82.39	64.09	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	8207	0.50000	0.4118	70.00- 130.00	100.00(a)	
16.160	16.160	(1.077)	171	3326			21.21- 81.21	40.53	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	13004	0.50000	0.3745	70.00- 130.00	100.00(a)	
16.796	16.796	(1.120)	85	8980			33.63- 93.63	69.06	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	21447	0.50000	0.3157	70.00- 130.00	100.00(a)	
16.962	16.962	(1.131)	120	8273			0.00- 59.46	38.57	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	21353	0.50000	0.3477	70.00- 130.00	100.00(a)	
17.045	17.045	(1.136)	120	12086			0.00- 30.00	56.60	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	17059	0.50000	0.3275	70.00- 130.00	100.00(a)	
17.460	17.460	(1.164)	120	9403			16.11- 76.11	55.12	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	16921	0.50000	0.4588	70.00- 130.00	100.00(a)	
17.764	17.764	(1.184)	148	11100			0.00- 30.00	65.60	
17.764	17.764	(1.184)	111	8925			0.00- 30.00	52.75	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	16084	0.50000	0.3721	70.00- 130.00	100.00(a)	
17.847	17.847	(1.190)	148	12317			0.00- 30.00	76.58	
17.847	17.847	(1.190)	111	6845			0.00- 30.00	42.56	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	13937	0.50000	0.2561	70.00- 130.00	100.00(a)	
17.985	17.985	(1.199)	126	2588			0.00- 30.00	18.57	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	17160	0.50000	0.4424	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
159 1,2-Dichlorobenzene (continued)									
18.206	18.206	(1.214)	148	11130			32.64- 92.64	64.86	
18.206	18.206	(1.214)	111	5360			11.53- 71.53	31.24	
-----									
142 Propylbenzene CAS #: 103-65-1									
16.824	16.824	(1.122)	91	25838	0.50000	0.3231	70.00- 130.00	100.00(a)	
16.824	16.824	(1.122)	120	6184			0.00- 30.00	23.93	
16.851	16.851	(1.123)	105	1630			0.00- 30.00	6.31	
-----									
136 Cumene CAS #: 98-82-8									
16.326	16.326	(1.088)	105	23154	0.50000	0.3316	70.00- 130.00	100.00(a)	
16.326	16.326	(1.088)	120	7767			0.00- 30.00	33.54	
16.326	16.326	(1.088)	51	4373			0.00- 30.00	18.89	
-----									
94 Methyl Cyclohexane CAS #: 108-87-2									
10.547	10.547	(1.064)	83	10704	0.50000	0.3932	70.00- 130.00	100.00(a)	
10.547	10.547	(1.064)	98	6673			0.00- 30.00	62.34	
10.547	10.547	(1.064)	55	11258			0.00- 30.00	105.18	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111232.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 2

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ct

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 0.5ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	301055	-15.25
92 1,4-Difluorobenze	1306915	784149	1829681	1093486	-16.33
125 Chlorobenzene-d5	1023463	614078	1432848	848011	-17.14

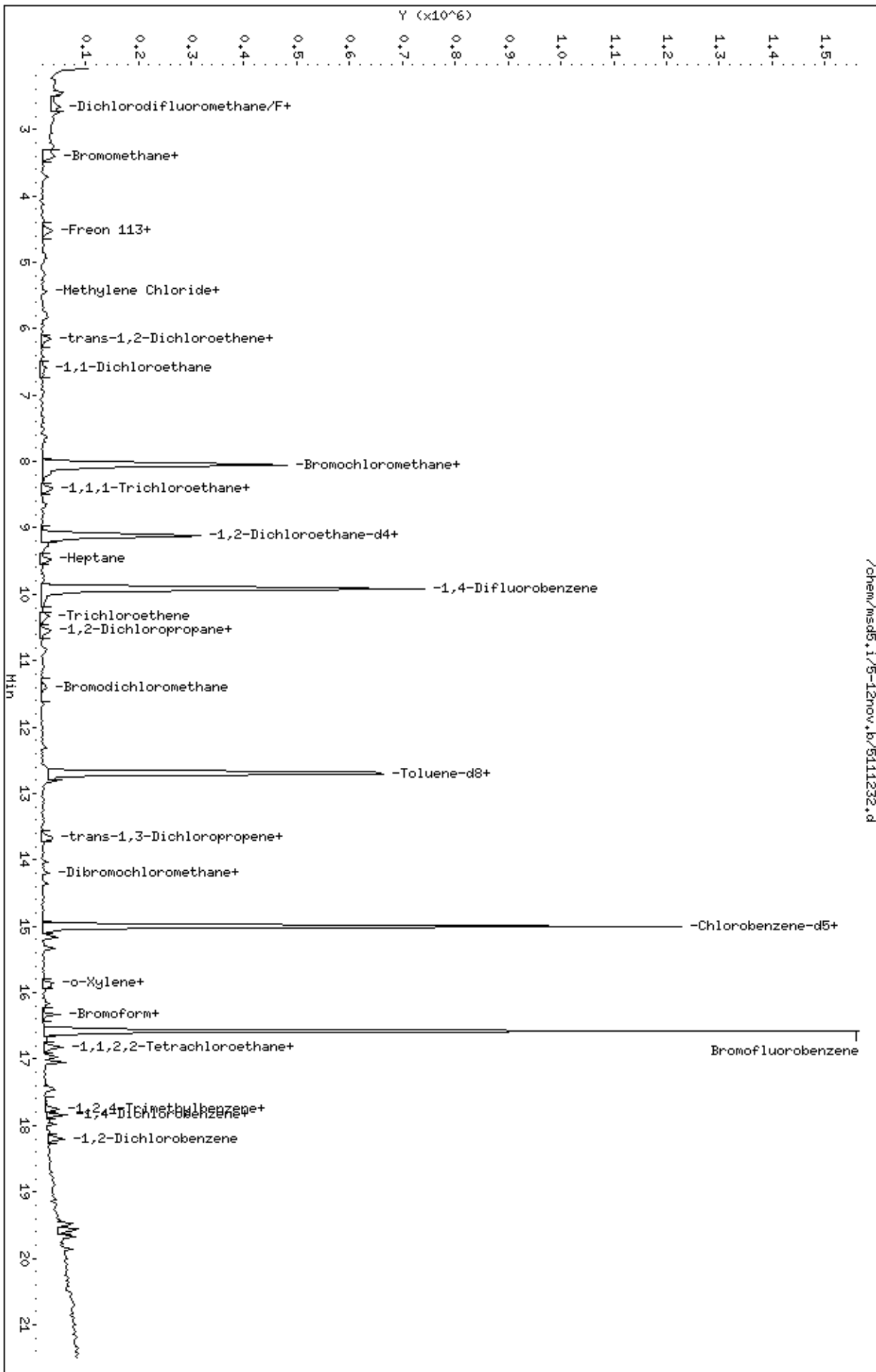
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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: 27-Nov-2007 15:31

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112706.d  
 Lab Smp Id: ICAL Client Smp ID: Level 3  
 Inj Date : 27-NOV-2007 11:36  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 2mL #1443-374  
 Misc Info : 200ppbv --> 2ppbv  
 Comment :  
 Method : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 11:36 Cal File: 5112706.d  
 Als bottle: 1 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp19b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	270347	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	205832			47.29- 107.29	76.14	
8.059	8.059	(1.000)	49	577575			183.28- 243.28	213.64	
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.911	(1.000)	114	930111	25.0000		70.00- 130.00	100.00	
9.911	9.911	(1.000)	88	148339			0.00- 46.71	15.95	
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	772234	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	425390			0.00- 30.00	55.09	
-----									
7 Isobutane CAS #: 75-28-5									
2.501	2.501	(0.310)	43	81360	2.00000	1.641	70.00- 130.00	100.00(a)	
2.501	2.501	(0.310)	42	25417			0.00- 30.00	31.24	
2.474	2.474	(0.307)	58	1783			0.00- 30.00	2.19	
-----									
18 Pentane CAS #: 109-66-0									
3.801	3.801	(0.472)	43	78345	2.00000	1.547	70.00- 130.00	100.00(a)	



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
18 Pentane (continued)									
3.801	3.801	(0.472)	57	12726			0.00- 30.00	16.24	
3.828	3.828	(0.475)	72	6543			0.00- 30.00	8.35	
-----									
25 Acrolein						CAS #: 107-02-8			
4.520	4.520	(0.561)	55	7290	2.00000	1.155	70.00- 130.00	100.00(a)	
4.520	4.520	(0.561)	56	10702			0.00- 30.00	146.80	
-----									
39 Acrylonitrile						CAS #: 107-13-1			
5.957	5.957	(0.739)	53	28491	2.00000	1.430	70.00- 130.00	100.00(a)	
5.957	5.957	(0.739)	52	17172			0.00- 30.00	60.27	
-----									
42 1-Pentene						CAS #: 109-67-1			
3.718	3.718	(0.461)	55	43303	2.00000	1.584	70.00- 130.00	100.00(Ta)	
3.746	3.746	(0.465)	42	56497			0.00- 30.00	130.47	
0.000	1.000	(0.000)	0	0			0.00- 30.00	0.00	
-----									
44 Ethyl Ether						CAS #: 60-29-7			
4.188	4.188	(0.520)	74	15996	2.00000	1.547	70.00- 130.00	100.00(Ta)	
4.160	4.160	(0.516)	59	26794			0.00- 30.00	167.50	
0.000	1.000	(0.000)	31	0			0.00- 30.00	0.00	
-----									
53 Iodomethane						CAS #: 74-88-4			
4.851	4.851	(0.602)	142	49239	2.00000	1.373	70.00- 130.00	100.00(a)	
4.851	4.851	(0.602)	127	15294			0.00- 30.00	31.06	
-----									
58 1-Hexene						CAS #: 592-41-6			
6.040	6.040	(0.750)	55	21859	2.00000	1.380	70.00- 130.00	100.00(a)	
6.040	6.040	(0.750)	41	37770			0.00- 30.00	172.79	
6.040	6.040	(0.750)	84	8721			0.00- 30.00	39.90	
-----									
62 Methyl Acrylate						CAS #: 96-33-3			
7.838	7.838	(0.973)	55	35717	2.00000	1.124	70.00- 130.00	100.00(a)	
7.810	7.810	(0.969)	85	4774			0.00- 30.00	13.37	
7.810	7.810	(0.969)	58	3247			0.00- 30.00	9.09	
-----									
86 2-Pentanone						CAS #: 107-87-9			
10.824	10.824	(1.092)	43	53061	2.00000	1.145	70.00- 130.00	100.00(a)	
10.796	10.796	(1.089)	58	4329			0.00- 30.00	8.16	
10.824	10.824	(1.092)	86	8341			0.00- 30.00	15.72	
-----									
88 Ethyl Acrylate						CAS #: 140-88-5			
10.630	10.630	(1.073)	55	43900	2.00000	1.229	70.00- 130.00	100.00(a)	
10.630	10.630	(1.073)	99	1675			0.00- 30.00	3.82	
10.630	10.630	(1.073)	45	4505			0.00- 30.00	10.26	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
95 Dibromomethane						CAS #: 74-95-3				
11.073	11.073	(1.117)	174	18435	2.00000	1.587	70.00- 130.00	100.00(a)		
11.073	11.073	(1.117)	93	20667			0.00- 30.00	112.11		
11.073	11.073	(1.117)	95	16529			0.00- 30.00	89.66		
-----										
96 Methyl Methacrylate						CAS #: 80-62-6				
11.073	11.073	(1.117)	41	30781	2.00000	1.237	70.00- 130.00	100.00(a)		
11.073	11.073	(1.117)	69	14833			0.00- 30.00	48.19		
11.073	11.073	(1.117)	100	5367			0.00- 30.00	17.44		
-----										
112 Alphamethylstyrene						CAS #: 98-83-9				
17.294	17.294	(1.153)	118	22987	2.00000	1.031	70.00- 130.00	100.00(a)		
17.294	17.294	(1.153)	103	13393			0.00- 30.00	58.26		
-----										
117 Bis(2-chloroethyl) ether						CAS #: 111-44-4				
17.708	17.708	(1.181)	93	38779	2.00000	1.474	70.00- 130.00	100.00(a)		
17.708	17.708	(1.181)	95	13596			0.00- 30.00	35.06		
17.708	17.708	(1.181)	63	36316			0.00- 30.00	93.65		
-----										
127 Nonane						CAS #: 111-84-2				
15.331	15.331	(1.022)	43	53552	2.00000	1.237	70.00- 130.00	100.00(a)		
15.331	15.331	(1.022)	57	41083			0.00- 30.00	76.72		
15.331	15.331	(1.022)	85	11561			0.00- 30.00	21.59		
-----										

QC Flag Legend

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

Report Date: 27-Nov-2007 15:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 27-NOV-2007

Lab File ID: 5112706.d

Calibration Time: 09:21

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m

Misc Info: 200ppbv --&gt; 2ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	351932	211159	492705	270347	-23.18
92 1,4-Difluorobenze	1207474	724484	1690464	930111	-22.97
125 Chlorobenzene-d5	945809	567485	1324133	772234	-18.35

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-27nov.b/5112706.d

Date: 27-NOV-2007 11:36

Client ID: Level 3

Sample Info: 2mL #1443-374

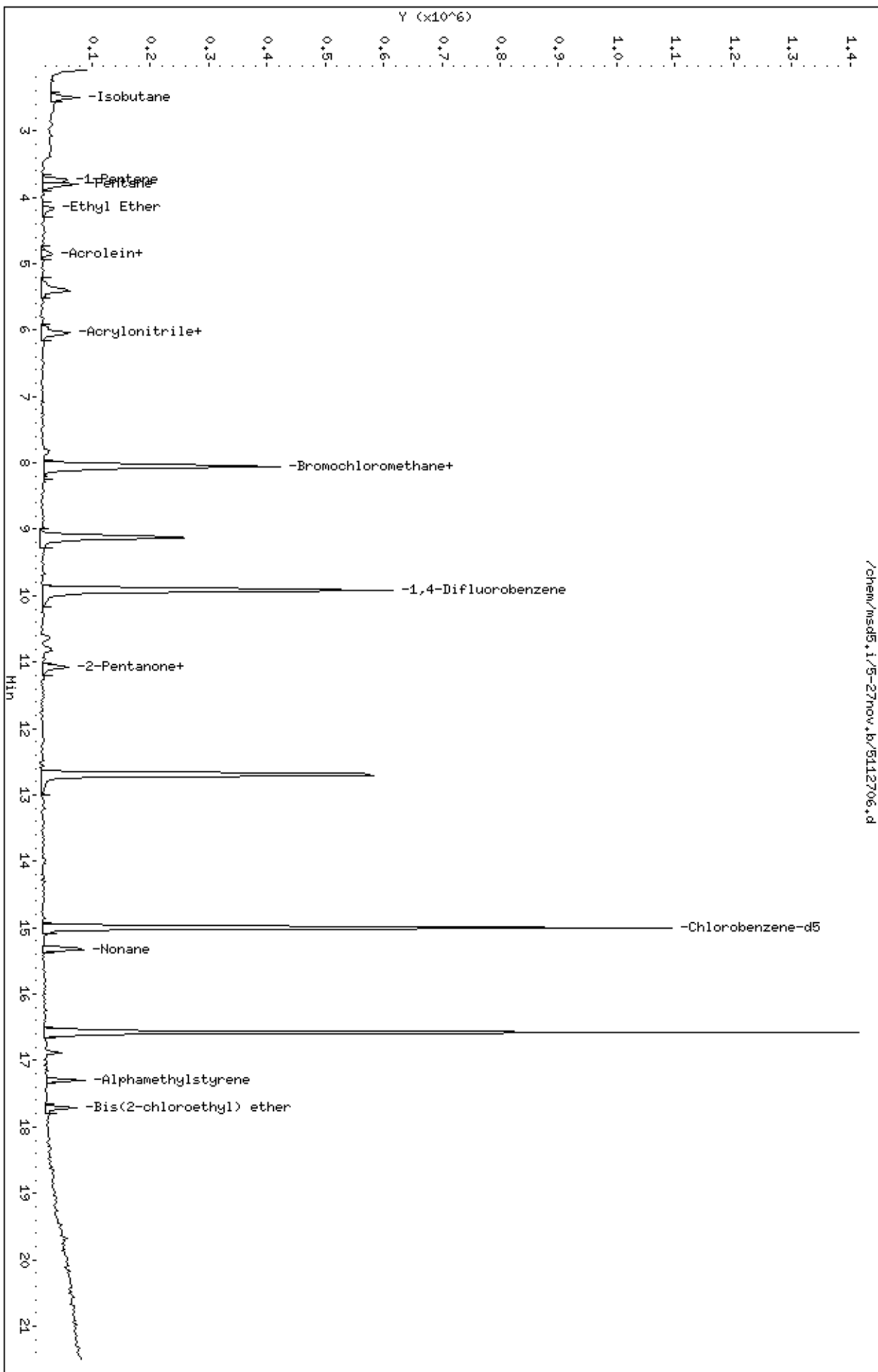
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-27nov.b/5112706.d



Report Date: 20-Nov-2007 15:39

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111902.d  
 Lab Smp Id: ICAL Client Smp ID: Level 3  
 Inj Date : 19-NOV-2007 01:56  
 Operator : sjr Inst ID: msd5.i  
 Smp Info : 2.0mL #1487-405  
 Misc Info : 200ppbv -> 2.0ppbv  
 Comment :  
 Method : /chem/msd5.i/5-19nov.b/t14qn12b.m  
 Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD  
 Cal Date : 19-NOV-2007 01:56 Cal File: 5111902.d  
 Als bottle: 1 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp21b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	CAL-AMT		ON-COL	TARGET RANGE	RATIO		
				RESPONSE	( PPBV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
* 71	Bromochloromethane					CAS #:	74-97-5			
8.059	8.059	(1.000)	130	409441	25.0000		70.00-	130.00	100.00	
8.059	8.059	(1.000)	128	329261			47.38-	107.38	80.42	
8.059	8.059	(1.000)	49	912391			197.25-	257.25	222.84	
-----										
* 92	1,4-Difluorobenzene					CAS #:	540-36-3			
9.939	9.939	(1.000)	114	1547444	25.0000		70.00-	130.00	100.00	
9.939	9.939	(1.000)	88	252732			0.00-	47.51	16.33	
-----										
* 125	Chlorobenzene-d5					CAS #:	3114-55-4			
14.999	14.999	(1.000)	117	1175868	25.0000		70.00-	130.00	100.00	
14.999	14.999	(1.000)	82	671079			0.00-	30.00	57.07	
-----										
1	Freon134a					CAS #:	811-97-2			
2.253	2.253	(0.280)	83	30938	2.00000	2.000	70.00-	130.00	100.00	
2.253	2.253	(0.280)	69	158131			0.00-	30.00	511.12	
-----										
3	Freon 152a					CAS #:	75-37-6			
2.336	2.336	(0.290)	65	24878	2.00000	2.000	70.00-	130.00	100.00	
2.391	2.391	(0.297)	51	151737			0.00-	30.00	609.92	
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
4 Freon 22						CAS #: 75-45-6			
2.391	2.391	(0.297)	67	9665	2.00000	2.000	70.00- 130.00	100.00	
2.391	2.391	(0.297)	51	149706			0.00- 30.00	1548.95	
-----									
5 Freon142b						CAS #: 75-68-3			
2.612	2.612	(0.324)	65	41999	2.00000	2.000	70.00- 130.00	100.00	
2.612	2.612	(0.324)	45	14040			0.00- 30.00	33.43	
-----									
16 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
3.773	3.773	(0.468)	67	64440	2.00000	2.000	70.00- 130.00	100.00	
3.773	3.773	(0.468)	69	21205			0.00- 30.00	32.91	
3.746	3.746	(0.465)	35	1461			0.00- 30.00	2.27	
-----									
22 Freon123a						CAS #: 354-23-4			
4.327	4.327	(0.537)	117	38216	2.00000	2.000	70.00- 130.00	100.00	
4.299	4.299	(0.533)	67	50149			0.00- 30.00	131.23	
-----									
24 Freon123						CAS #: 306-83-2			
4.437	4.437	(0.551)	83	64366	2.00000	2.000	70.00- 130.00	100.00	
4.437	4.437	(0.551)	133	10230			0.00- 30.00	15.89	
4.437	4.437	(0.551)	85	50869			0.00- 30.00	79.03	
-----									
37 tert-Butyl-Alcohol						CAS #: 75-65-0			
5.598	5.598	(0.695)	59	55304	2.00000	2.000	70.00- 130.00	100.00	
5.598	5.598	(0.695)	41	21376			0.00- 30.00	38.65	
5.598	5.598	(0.695)	57	5625			0.00- 30.00	10.17	
-----									
49 Isopropyl ether						CAS #: 108-20-3			
6.594	6.594	(0.818)	45	161462	2.00000	2.000	70.00- 130.00	100.00	
6.621	6.621	(0.822)	87	28999			0.00- 30.00	17.96	
6.594	6.594	(0.818)	59	15860			0.00- 30.00	9.82	
-----									
57 Ethyl-tert-butyl Ether						CAS #: 637-92-3			
7.230	7.230	(0.897)	59	58157	2.00000	2.000	70.00- 130.00	100.00	
7.230	7.230	(0.897)	87	18728			0.00- 30.00	32.20	
7.230	7.230	(0.897)	41	14279			0.00- 30.00	24.55	
-----									
61 Ethyl Acetate						CAS #: 141-78-6			
7.727	7.727	(0.959)	70	7135	2.00000	2.000	70.00- 130.00	100.00	
7.755	7.755	(0.962)	43	63008			0.00- 30.00	883.08	
7.727	7.727	(0.959)	61	7037			0.00- 30.00	98.63	
-----									
64 1-Propanol						CAS #: 71-23-8			
6.870	6.870	(0.852)	42	4160	2.00000	2.000	70.00- 130.00	100.00	
6.843	6.843	(0.849)	59	5134			0.00- 30.00	123.41	
6.870	6.870	(0.852)	41	5256			0.00- 30.00	126.35	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
76 Isobutanol						CAS #: 78-83-1			
9.110	9.110	(0.917)	43	33035	2.00000	2.000	70.00- 130.00	100.00	
9.082	9.082	(0.914)	41	22733			0.00- 30.00	68.81	
-----									
78 tert-amyl-Methyl Ether						CAS #: 994-05-8			
9.276	9.276	(1.151)	73	51150	2.00000	2.000	70.00- 130.00	100.00	
9.303	9.303	(1.154)	87	15256			0.00- 30.00	29.83	
9.276	9.276	(1.151)	55	24944			0.00- 30.00	48.77	
-----									
118 Butyl Acetate						CAS #: 123-86-4			
14.197	14.197	(1.428)	56	31561	2.00000	2.000	70.00- 130.00	100.00	
14.197	14.197	(1.428)	73	9197			0.00- 30.00	29.14	
14.197	14.197	(1.428)	43	79367			0.00- 30.00	251.47	
-----									
131 2-Heptanone						CAS #: 110-43-0			
16.105	16.105	(1.074)	58	49073	2.00000	2.000	70.00- 130.00	100.00	
16.105	16.105	(1.074)	43	74991			0.00- 30.00	152.82	
-----									
135 Cyclohexanone						CAS #: 108-94-1			
16.520	16.520	(1.101)	55	50207	2.00000	2.000	70.00- 130.00	100.00	
16.520	16.520	(1.101)	98	16347			0.00- 30.00	32.56	
16.520	16.520	(1.101)	42	35309			0.00- 30.00	70.33	
-----									
146 Diisobutyl Ketone						CAS #: 108-83-8			
17.211	17.211	(1.147)	57	138864	2.00000	2.000	70.00- 130.00	100.00	
17.211	17.211	(1.147)	85	79860			30.87- 90.87	57.51	
-----									

Report Date: 20-Nov-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 19-NOV-2007

Lab File ID: 5111902.d

Calibration Time: 02:24

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m

Misc Info: 200ppbv -&gt; 2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	320182	192109	448255	409441	27.88
92 1,4-Difluorobenze	1222930	733758	1712102	1547444	26.54
125 Chlorobenzene-d5	969063	581438	1356688	1175868	21.34

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.



Data File: /chem/msd5.1/5-19nov.b/5111902.d

Date: 19-NOV-2007 01:56

Client ID: Level 3

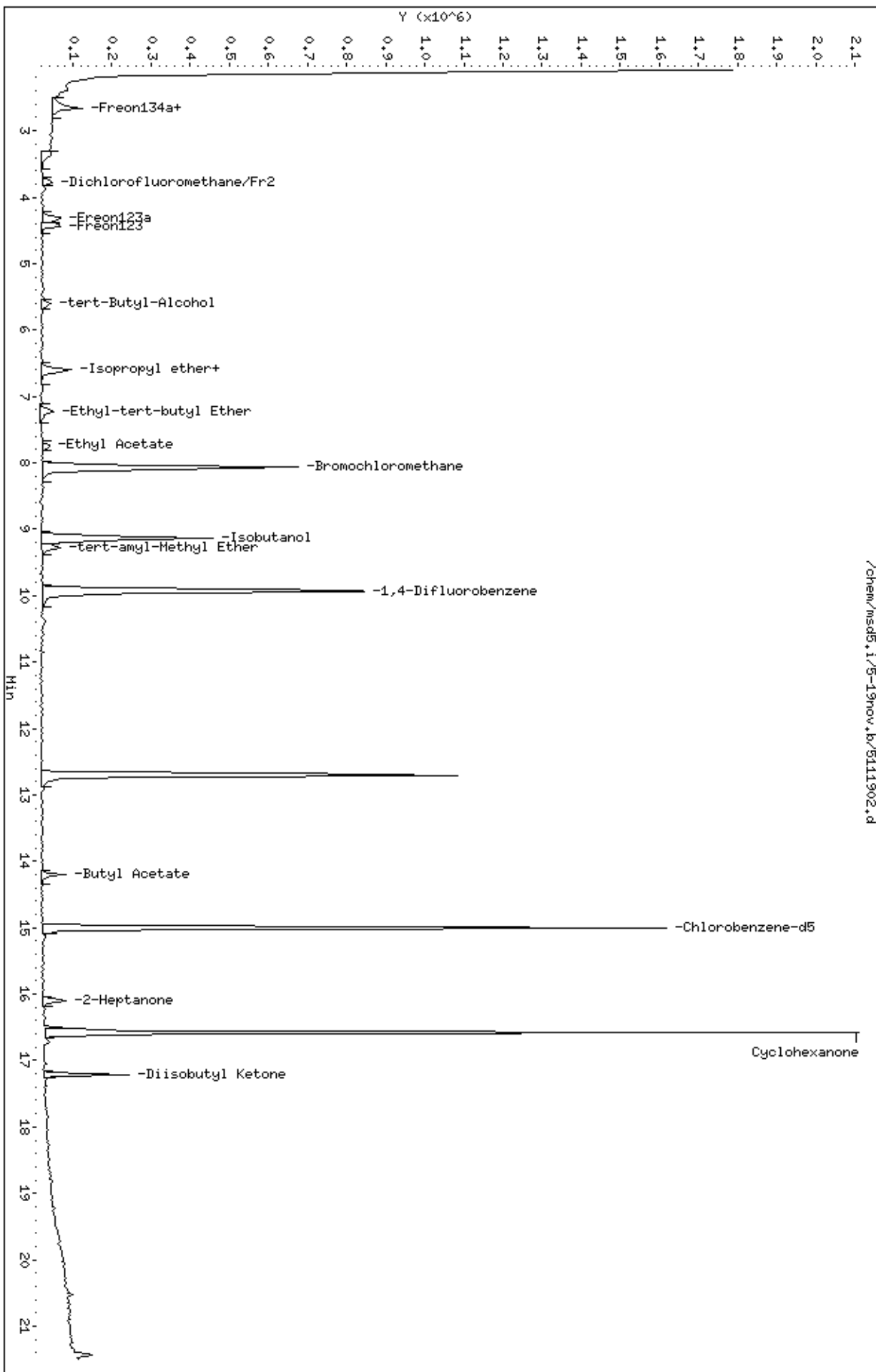
Sample Info: 2.0mL #1487-405

Column phase: RTX-624

Instrument: msd5.1

Operator: sjr

Column diameter: 0.53



Report Date: 13-Nov-2007 13:24

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111216.d  
 Lab Smp Id: ICAL Client Smp ID: Level 3  
 Inj Date : 12-NOV-2007 19:20  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 2.0mL #1487-404  
 Misc Info : 200ppbv -> 2.0ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:24 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 19:20 Cal File: 5111216.d  
 Als bottle: 1 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp20a.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	333304	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	268129				47.79- 107.79	80.45
8.059	8.059	(1.000)	49	749174				186.23- 246.23	224.77
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1294039	25.0000			70.00- 130.00	100.00
9.912	9.912	(1.000)	88	205628				0.00- 46.01	15.89
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	982975	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	582405				0.00- 30.00	59.25
-----									
33 Methyl Acetate CAS #: 79-20-9									
5.239	5.239	(0.650)	43	72395	2.00000	1.469		70.00- 130.00	100.00(a)
5.239	5.239	(0.650)	74	13849				0.00- 30.00	19.13
5.239	5.239	(0.650)	59	4835				0.00- 30.00	6.68
-----									
52 Chloroprene CAS #: 126-99-8									
6.677	6.677	(0.828)	53	55634	2.00000	1.410		70.00- 130.00	100.00(a)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
52 Chloroprene (continued)									
6.704	6.704	(0.832)	88	24677			12.60- 72.60	44.36	
6.677	6.677	(0.828)	50	14078			0.00- 52.95	25.30	
-----									
59 1,3-Dichloropropane CAS #: 142-28-9									
13.893	13.893	(1.402)	76	37183	2.00000	1.506	70.00- 130.00	100.00(a)	
13.893	13.893	(1.402)	41	36632			68.80- 128.80	98.52	
13.893	13.893	(1.402)	78	14474			0.00- 30.00	38.93	
-----									
60 2,2-Dichloropropane CAS #: 594-20-7									
7.561	7.561	(0.938)	77	33830	2.00000	1.467	70.00- 130.00	100.00(a)	
7.561	7.561	(0.938)	79	10723			2.86- 62.86	31.70	
7.561	7.561	(0.938)	97	7959			0.00- 30.00	23.53	
-----									
73 1,1-Dichloropropene CAS #: 563-58-6									
8.723	8.723	(1.082)	110	13431	2.00000	1.530	70.00- 130.00	100.00(a)	
8.723	8.723	(1.082)	75	38422			0.00- 30.00	286.07	
-----									
123 1,1,1,2-Tetrachloroethane CAS #: 630-20-6									
15.193	15.193	(1.013)	131	26054	2.00000	1.483	70.00- 130.00	100.00(a)	
15.165	15.165	(1.011)	117	19617			0.00- 30.00	75.29	
15.165	15.165	(1.011)	95	13111			0.00- 30.00	50.32	
-----									
137 Bromobenzene CAS #: 108-86-1									
16.741	16.741	(1.116)	156	34417	2.00000	1.583	70.00- 130.00	100.00(a)	
16.741	16.741	(1.116)	77	63144			151.57- 211.57	183.47	
16.741	16.741	(1.116)	158	36862			0.00- 30.00	107.10	
-----									
139 1,2,3-Trichloropropane CAS #: 96-18-4									
16.852	16.852	(1.123)	110	19269	2.00000	1.615	70.00- 130.00	100.00(a)	
16.852	16.852	(1.123)	61	17041			0.00- 30.00	88.44	
16.852	16.852	(1.123)	112	14352			0.00- 30.00	74.48	
-----									
140 2-Chlorotoluene CAS #: 95-49-8									
16.962	16.962	(1.131)	126	25746	2.00000	1.413	70.00- 130.00	100.00(a)	
16.962	16.962	(1.131)	91	89078			287.64- 347.64	345.99	
16.962	16.962	(1.131)	65	10756			0.00- 30.00	41.78	
-----									
143 4-Chlorotoluene CAS #: 106-43-4									
17.100	17.100	(1.140)	126	28148	2.00000	1.505	70.00- 130.00	100.00(a)	
17.100	17.100	(1.140)	91	88953			287.83- 347.83	316.02	
17.100	17.100	(1.140)	63	13716			0.00- 30.00	48.73	
-----									
149 tert-Butylbenzene CAS #: 98-06-6									
17.377	17.377	(1.159)	119	115990	2.00000	1.533	70.00- 130.00	100.00(a)	
17.377	17.377	(1.159)	134	24294			0.00- 53.69	20.94	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
149 tert-Butylbenzene (continued)									
17.377	17.377	(1.159)	91	68058			0.00- 30.00	58.68	
-----									
150 Pentachloroethane CAS #: 76-01-7									
17.460	17.460	(1.164)	167	17042	2.00000	1.283	70.00- 130.00	100.00(a)	
17.432	17.432	(1.162)	117	21565			0.00- 30.00	126.54	
-----									
151 sec-Butylbenzene CAS #: 135-98-8									
17.598	17.598	(1.173)	105	138524	2.00000	1.543	70.00- 130.00	100.00(a)	
17.598	17.598	(1.173)	134	21366			0.00- 49.07	15.42	
17.598	17.598	(1.173)	91	26208			0.00- 30.00	18.92	
-----									
153 p-Cymene CAS #: 99-87-6									
17.764	17.764	(1.184)	134	26565	2.00000	1.367	70.00- 130.00	100.00(a)	
17.764	17.764	(1.184)	119	95739			341.15- 401.15	360.40	
17.764	17.764	(1.184)	91	23297			0.00- 30.00	87.70	
-----									
154 1,2,3-Trimethylbenzene CAS #: 526-73-8									
17.875	17.875	(1.192)	120	37919	2.00000	1.358	70.00- 130.00	100.00(a)	
17.875	17.875	(1.192)	105	93862			197.36- 257.36	247.53	
17.875	17.875	(1.192)	77	10501			0.00- 30.00	27.69	
-----									
158 Butylbenzene CAS #: 104-51-8									
18.151	18.151	(1.210)	134	24456	2.00000	1.396	70.00- 130.00	100.00(a)	
18.123	18.123	(1.208)	91	104158			393.82- 453.82	425.90	
18.123	18.123	(1.208)	92	50355			0.00- 30.00	205.90	
-----									
160 Hexachloroethane CAS #: 67-72-1									
18.372	18.372	(1.225)	117	35457	2.00000	1.368	70.00- 130.00	100.00(a)	
18.400	18.400	(1.227)	201	21688			0.00- 30.00	61.17	
Sum of Peak Amounts =					1.37				
-----									
161 1,2-Dibromo-3-Chloropropane CAS #: 96-12-8									
18.898	18.898	(1.260)	157	23310	2.00000	1.302	70.00- 130.00	100.00(a)	
18.870	18.870	(1.258)	75	30534			92.49- 152.49	130.99	
18.898	18.898	(1.260)	155	18218			0.00- 30.00	78.16	
-----									
166 1,2,3-Trichlorobenzene CAS #: 87-61-6									
19.865	19.865	(1.324)	180	65333	2.00000	1.684	70.00- 130.00	100.00(a)	
19.865	19.865	(1.324)	182	62516			0.00- 30.00	95.69	
19.865	19.865	(1.324)	145	19587			0.00- 30.00	29.98	
-----									
192 Cyclopentene CAS #: 142-29-0									
5.239	5.239	(0.650)	67	74381	2.00000	1.545	70.00- 130.00	100.00(a)	
5.239	5.239	(0.650)	68	26258			0.00- 30.00	35.30	
5.239	5.239	(0.650)	53	16468			0.00- 30.00	22.14	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111216.d

Calibration Time: 19:48

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	345466	207280	483652	333304	-3.52
92 1,4-Difluorobenze	1312181	787309	1837053	1294039	-1.38
125 Chlorobenzene-d5	1008754	605252	1412256	982975	-2.56

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-12nov.b/5111216.d

Date: 12-NOV-2007 19:20

Client ID: Level 3

Sample Info: 2.0mL #1487-404

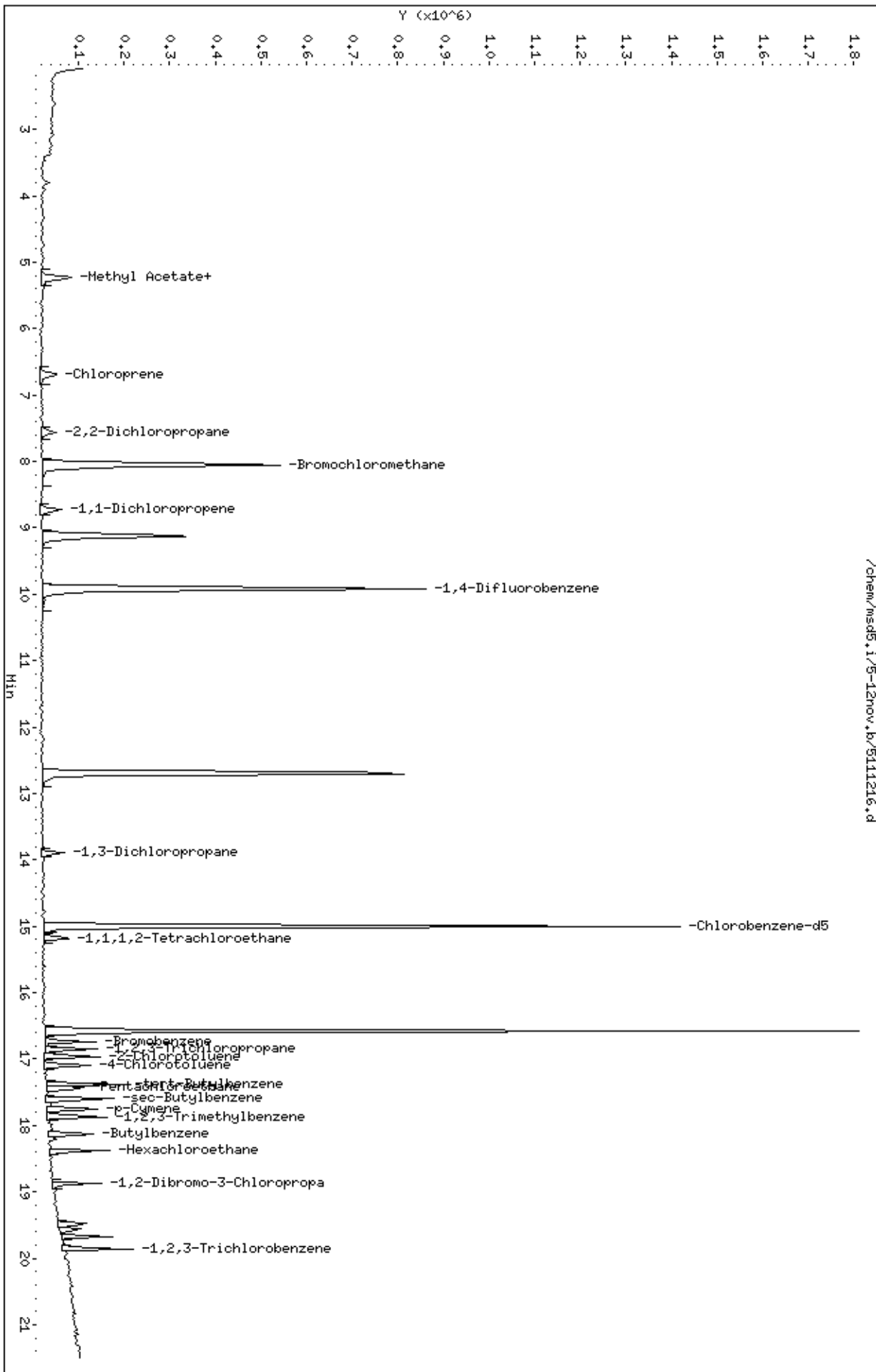
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-12nov.b/5111216.d



Report Date: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111209.d  
 Lab Smp Id: ICAL Client Smp ID: Level 3  
 Inj Date : 12-NOV-2007 14:17  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 2mL #1576-89  
 Misc Info : 200ppbv -> 2ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 14:17 Cal File: 5111209.d  
 Als bottle: 1 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #:	74-97-5	
8.059	8.059	(1.000)	130	322724	25.0000		70.00- 130.00	100.00
8.059	8.059	(1.000)	128	256512			42.76- 102.76	79.48
8.059	8.059	(1.000)	49	726685			173.18- 233.18	225.17
-----								
* 92	1,4-Difluorobenzene					CAS #:	540-36-3	
9.912	9.912	(1.000)	114	1214211	25.0000		70.00- 130.00	100.00
9.912	9.912	(1.000)	88	205951			0.00- 46.42	16.96
-----								
* 125	Chlorobenzene-d5					CAS #:	3114-55-4	
14.999	14.999	(1.000)	117	958757	25.0000		70.00- 130.00	100.00
14.999	14.999	(1.000)	82	568356			0.00- 30.00	59.28
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #:	17060-07-0	
9.137	9.137	(1.134)	65	464909	25.0000	24.068	70.00- 130.00	100.00
9.110	9.110	(1.130)	67	229742			0.00- 30.00	49.42
-----								
\$ 107	Toluene-d8					CAS #:	2037-26-5	
12.704	12.704	(1.282)	98	1056409	25.0000	24.643	70.00- 130.00	100.00
12.676	12.676	(1.279)	70	110980			0.00- 30.00	10.51



AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	688251			0.00- 30.00	65.15		
-----										
\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	533075	25.0000	23.829	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	889818			128.71- 188.71	166.92		
16.575	16.575	(1.105)	176	520587			68.26- 128.26	97.66		
-----										
6 Propylene										
						CAS #: 115-07-1				
2.280	2.280	(0.283)	41	34509	2.00000	1.532	70.00- 130.00	100.00(a)		
2.280	2.280	(0.283)	42	30676			0.00- 30.00	88.89		
2.280	2.280	(0.283)	39	24651			0.00- 30.00	71.43		
-----										
8 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.336	2.336	(0.290)	85	62431	2.00000	1.636	70.00- 130.00	100.00		
2.336	2.336	(0.290)	87	24055			0.00- 30.00	38.53		
-----										
9 Freon 114										
						CAS #: 76-14-2				
2.474	2.474	(0.307)	135	60617	2.00000	1.740	70.00- 130.00	100.00		
2.474	2.474	(0.307)	137	17640			2.29- 62.29	29.10		
-----										
10 Chloromethane										
						CAS #: 74-87-3				
2.584	2.584	(0.321)	50	41485	2.00000	1.448	70.00- 130.00	100.00(a)		
2.612	2.612	(0.324)	52	14778			0.00- 30.00	35.62		
-----										
13 Vinyl Chloride										
						CAS #: 75-01-4				
2.778	2.778	(0.345)	62	44200	2.00000	1.603	70.00- 130.00	100.00		
2.778	2.778	(0.345)	64	12716			0.00- 30.00	28.77		
-----										
12 1,3-Butadiene										
						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	34201	2.00000	1.452	70.00- 130.00	100.00		
2.750	2.750	(0.341)	39	38518			0.00- 30.00	112.62		
-----										
15 Bromomethane										
						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	26487	2.00000	1.488	70.00- 130.00	100.00		
3.276	3.276	(0.406)	96	25693			65.07- 125.07	97.00		
-----										
19 Chloroethane										
						CAS #: 75-00-3				
3.414	3.414	(0.424)	64	22215	2.00000	1.584	70.00- 130.00	100.00		
3.414	3.414	(0.424)	49	6499			0.00- 30.00	29.26		
3.414	3.414	(0.424)	66	5751			0.00- 30.00	25.89		
-----										
20 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	65110	2.00000	1.565	70.00- 130.00	100.00		
3.718	3.718	(0.461)	103	47734			34.56- 94.56	73.31		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.105	4.105	(0.509)	45	13596	2.00000	1.504	70.00- 130.00	100.00(a)	
4.105	4.105	(0.509)	43	3872			0.00- 30.00	28.48	
4.105	4.105	(0.509)	46	4661			0.00- 30.00	34.28	
-----									
30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	40323	2.00000	1.559	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	25890			33.43- 93.43	64.21	
4.520	4.520	(0.561)	101	61129			108.48- 168.48	151.60	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	55820	2.00000	1.630	70.00- 130.00	100.00	
4.575	4.575	(0.568)	96	30966			27.13- 87.13	55.47	
4.575	4.575	(0.568)	98	20802			5.60- 65.60	37.27	
-----									
32 Acetone						CAS #: 67-64-1			
4.741	4.741	(0.588)	58	15775	2.00000	1.232	70.00- 130.00	100.00(a)	
4.741	4.741	(0.588)	43	53793			0.00- 30.00	341.00	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.935	4.935	(0.612)	45	59840	2.00000	1.313	70.00- 130.00	100.00(a)	
4.935	4.935	(0.612)	43	22325			0.00- 30.00	37.31	
4.935	4.935	(0.612)	59	2440			0.00- 30.00	4.08	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	90183	2.00000	1.555	70.00- 130.00	100.00	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.183	5.183	(0.643)	76	13938	2.00000	1.444	70.00- 130.00	100.00(a)	
5.183	5.183	(0.643)	41	46871			0.00- 30.00	336.28	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	46452	2.00000	1.587	70.00- 130.00	100.00	
5.432	5.432	(0.674)	84	27786			29.81- 89.81	59.82	
5.432	5.432	(0.674)	51	15672			0.00- 30.00	33.74	
-----									
46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	39158	2.00000	1.777	70.00- 130.00	100.00	
5.792	5.792	(0.719)	57	11612			1.68- 61.68	29.65	
5.792	5.792	(0.719)	41	16143			0.00- 30.00	41.23	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	33004	2.00000	1.592	70.00- 130.00	100.00	
5.819	5.819	(0.722)	61	57452			133.65- 193.65	174.08	
5.819	5.819	(0.722)	98	21915			0.00- 30.00	66.40	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	62884	2.00000	1.491	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	45994			0.00- 30.00	73.14	
6.179	6.179	(0.767)	86	7888			0.00- 30.00	12.54	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	62245	2.00000	1.658	70.00- 130.00	100.00	
6.594	6.594	(0.818)	65	19845			0.52- 60.52	31.88	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.672	7.672	(0.952)	72	11020	2.00000	1.216	70.00- 130.00	100.00	
7.672	7.672	(0.952)	43	61049			536.33- 596.33	553.98	
7.700	7.700	(0.955)	57	5393			0.00- 30.00	48.94	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	45989	2.00000	1.631	70.00- 130.00	100.00	
7.644	7.644	(0.949)	96	27458			37.56- 97.56	59.71	
7.617	7.617	(0.945)	98	20458			14.52- 74.52	44.48	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.059	8.059	(1.000)	42	52041	2.00000	1.542	70.00- 130.00	100.00	
8.059	8.059	(1.000)	71	14250			0.00- 55.74	27.38	
8.059	8.059	(1.000)	72	13170			0.00- 30.00	25.31	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	51953	2.00000	1.633	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	34726			35.19- 95.19	66.84	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.418	8.418	(1.045)	97	49288	2.00000	1.550	70.00- 130.00	100.00	
8.418	8.418	(1.045)	99	27424			33.02- 93.02	55.64	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	40263	2.00000	1.572	70.00- 130.00	100.00	
8.391	8.391	(1.041)	56	59986			126.11- 186.11	148.99	
8.391	8.391	(1.041)	41	35277			55.82- 115.82	87.62	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.677	6.677	(0.828)	86	4258	2.00000	0.8952	70.00- 130.00	100.00(a)	
6.677	6.677	(0.828)	43	46710			0.00- 30.00	1096.99	
6.677	6.677	(0.828)	42	6522			0.00- 30.00	153.17	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	40265	2.00000	1.534	70.00- 130.00	100.00	
8.667	8.667	(1.075)	117	46330			75.98- 135.98	115.06	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
80	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.082	9.082	(1.127)	57	166134	2.00000	1.437	70.00-	130.00	100.00	
9.082	9.082	(1.127)	56	53643			0.00-	30.00	32.29	
9.082	9.082	(1.127)	41	48146			0.00-	30.00	28.98	
-----										
81	Benzene					CAS #:	71-43-2			
9.082	9.082	(0.916)	78	81098	2.00000	1.550	70.00-	130.00	100.00	
9.082	9.082	(0.916)	77	19267			0.00-	30.00	23.76	
-----										
85	1,2-Dichloroethane					CAS #:	107-06-2			
9.276	9.276	(0.936)	62	37851	2.00000	1.579	70.00-	130.00	100.00	
9.276	9.276	(0.936)	64	14265			0.00-	30.00	37.69	
-----										
90	Heptane					CAS #:	142-82-5			
9.497	9.497	(0.958)	100	8177	2.00000	1.399	70.00-	130.00	100.00	
9.469	9.469	(0.955)	43	68554			0.00-	30.00	838.38	
9.469	9.469	(0.955)	71	25465			0.00-	30.00	311.42	
-----										
93	Trichloroethene					CAS #:	79-01-6			
10.326	10.326	(1.042)	95	31935	2.00000	1.504	70.00-	130.00	100.00	
10.326	10.326	(1.042)	130	35650			64.49-	124.49	111.63	
10.326	10.326	(1.042)	97	22195			34.72-	94.72	69.50	
-----										
98	1,2-Dichloropropane					CAS #:	78-87-5			
10.824	10.824	(1.092)	63	34179	2.00000	1.661	70.00-	130.00	100.00	
10.852	10.852	(1.095)	62	22975			39.05-	99.05	67.22	
10.852	10.852	(1.095)	41	22269			36.65-	96.65	65.15	
-----										
99	1,4-Dioxane					CAS #:	123-91-1			
11.073	11.073	(1.117)	88	18006	2.00000	1.506	70.00-	130.00	100.00(a)	
11.073	11.073	(1.117)	58	18328			62.00-	122.00	101.79	
11.073	11.073	(1.117)	57	7210			0.00-	30.00	40.04	
-----										
100	Bromodichloromethane					CAS #:	75-27-4			
11.405	11.405	(1.151)	83	46637	2.00000	1.571	70.00-	130.00	100.00	
11.405	11.405	(1.151)	85	25261			34.72-	94.72	54.17	
-----										
103	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.317	12.317	(1.243)	75	31732	2.00000	1.508	70.00-	130.00	100.00	
12.317	12.317	(1.243)	77	9531			0.28-	60.28	30.04	
12.317	12.317	(1.243)	39	23919			43.30-	103.30	75.38	
-----										
106	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.594	12.594	(1.271)	58	22957	2.00000	1.339	70.00-	130.00	100.00	
12.594	12.594	(1.271)	43	75333			0.00-	30.00	328.15	
12.621	12.621	(1.273)	85	8223			0.00-	30.00	35.82	
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	84031	2.00000	1.556	70.00-	130.00	100.00	
12.815	12.815	(1.293)	92	49902			29.65-	89.65	59.39	
-----										
113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	22625	2.00000	1.117	70.00-	130.00	100.00	
13.368	13.368	(0.891)	77	8200			1.96-	61.96	36.24	
13.368	13.368	(0.891)	39	16458			38.82-	98.82	72.74	
-----										
114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	30273	2.00000	1.675	70.00-	130.00	100.00	
13.644	13.644	(0.910)	99	19956			33.63-	93.63	65.92	
13.644	13.644	(0.910)	83	24520			55.73-	115.73	81.00	
-----										
116 Tetrachloroethene						CAS #:	127-18-4			
13.699	13.699	(0.913)	166	37916	2.00000	1.805	70.00-	130.00	100.00	
13.672	13.672	(0.912)	129	24639			50.24-	110.24	64.98	
13.699	13.699	(0.913)	131	24276			48.42-	108.42	64.03	
-----										
119 2-Hexanone						CAS #:	591-78-6			
14.031	14.031	(0.935)	58	29687	2.00000	1.178	70.00-	130.00	100.00(a)	
14.031	14.031	(0.935)	43	64036			168.65-	228.65	215.70	
14.031	14.031	(0.935)	100	4239			0.00-	30.00	14.28	
-----										
120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	35286	2.00000	1.396	70.00-	130.00	100.00	
14.197	14.197	(0.947)	127	26625			0.00-	30.00	75.45	
-----										
122 1,2-Dibromoethane						CAS #:	106-93-4			
14.363	14.363	(0.958)	107	39203	2.00000	1.480	70.00-	130.00	100.00	
14.363	14.363	(0.958)	109	34913			63.74-	123.74	89.06	
-----										
126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	72501	2.00000	1.757	70.00-	130.00	100.00	
15.027	15.027	(1.002)	114	21533			1.82-	61.82	29.70	
15.027	15.027	(1.002)	77	47947			31.79-	91.79	66.13	
-----										
128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	29817	2.00000	1.338	70.00-	130.00	100.00	
15.165	15.165	(1.011)	91	112702			0.00-	30.00	377.98	
-----										
130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	39645	2.00000	1.448	70.00-	130.00	100.00	
15.331	15.331	(1.022)	91	85232			0.00-	30.00	214.99	
-----										
132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	40312	2.00000	1.548	70.00-	130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	83837			195.49- 255.49	207.97	
-----									
133 Styrene									
15.911	15.911	(1.061)	104	46549	2.00000	1.213	70.00- 130.00	100.00	
15.911	15.911	(1.061)	78	26850			22.39- 82.39	57.68	
-----									
134 Bromoform									
16.160	16.160	(1.077)	173	30933	2.00000	1.373	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	16221			21.21- 81.21	52.44	
-----									
141 1,1,2,2-Tetrachloroethane									
16.796	16.796	(1.120)	83	66301	2.00000	1.689	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	42929			33.63- 93.63	64.75	
-----									
144 4-Ethyltoluene									
16.962	16.962	(1.131)	105	111317	2.00000	1.449	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	31652			0.00- 59.46	28.43	
-----									
147 1,3,5-Trimethylbenzene									
17.045	17.045	(1.136)	105	103369	2.00000	1.489	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	52144			0.00- 30.00	50.44	
-----									
152 1,2,4-Trimethylbenzene									
17.460	17.460	(1.164)	105	88326	2.00000	1.500	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	40529			16.11- 76.11	45.89	
-----									
155 1,3-Dichlorobenzene									
17.764	17.764	(1.184)	146	66466	2.00000	1.594	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	46072			0.00- 30.00	69.32	
17.764	17.764	(1.184)	111	29558			0.00- 30.00	44.47	
-----									
156 1,4-Dichlorobenzene									
17.847	17.847	(1.190)	146	84647	2.00000	1.732	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	47850			0.00- 30.00	56.53	
17.847	17.847	(1.190)	111	35983			0.00- 30.00	42.51	
-----									
157 alpha-Chlorotoluene									
17.985	17.985	(1.199)	91	60800	2.00000	0.9881	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	12615			0.00- 30.00	20.75	
-----									
159 1,2-Dichlorobenzene									
18.206	18.206	(1.214)	146	83215	2.00000	1.897	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	48015			32.64- 92.64	57.70	
18.206	18.206	(1.214)	111	30589			11.53- 71.53	36.76	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	59101	2.00000	1.898	70.00- 130.00	100.00(a)	
19.506	19.506	(1.300)	182	53267			63.93- 123.93	90.13	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	41151	2.00000	1.882	70.00- 130.00	100.00(a)	
19.589	19.589	(1.306)	223	24876			32.69- 92.69	60.45	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	141217	2.00000	1.562	70.00- 130.00	100.00	
16.852	16.852	(1.123)	120	31026			0.00- 30.00	21.97	
16.852	16.852	(1.123)	105	4167			0.00- 30.00	2.95	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	114034	2.00000	1.445	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	27668			0.00- 30.00	24.26	
16.326	16.326	(1.088)	51	17582			0.00- 30.00	15.42	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	197397	2.00000	1.904	70.00- 130.00	100.00(a)	
19.672	19.672	(1.312)	127	24023			0.00- 30.00	12.17	
-----									
17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	64612	2.00000	1.617	70.00- 130.00	100.00(a)	
3.414	3.414	(0.424)	57	43012			0.00- 30.00	66.57	
3.414	3.414	(0.424)	72	3775			0.00- 30.00	5.84	
-----									
11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	10883	2.00000	1.598	70.00- 130.00	100.00(a)	
2.667	2.667	(0.331)	43	85425			0.00- 30.00	784.94	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	47307	2.00000	1.565	70.00- 130.00	100.00	
10.547	10.547	(1.064)	98	22026			0.00- 30.00	46.56	
10.547	10.547	(1.064)	55	54868			0.00- 30.00	115.98	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111209.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 2ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	322724	-9.15
92 1,4-Difluorobenze	1306915	784149	1829681	1214211	-7.09
125 Chlorobenzene-d5	1023463	614078	1432848	958757	-6.32

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.



Data File: /chem/msd5.1/5-12nov.b/5111209.d

Date : 12-NOV-2007 14:17

Client ID: Level 3

Sample Info: 2mL #1576-89

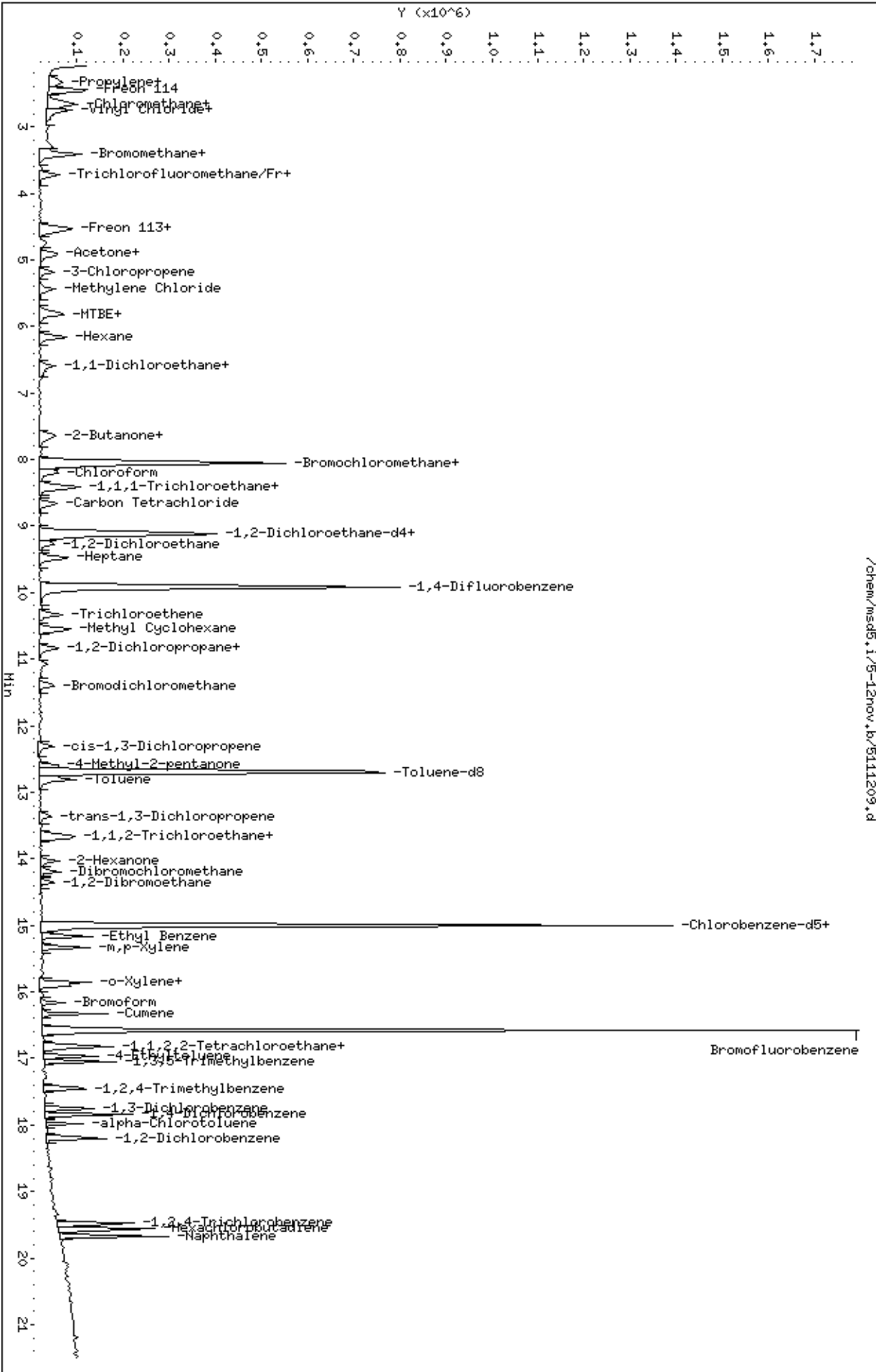
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-12nov.b/5111209.d



Report Date: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111210.d  
 Lab Smp Id: ICAL Client Smp ID: Level 4  
 Inj Date : 12-NOV-2007 14:45  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 25mL #1576-89  
 Misc Info : 200ppbv -> 25ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 14:45 Cal File: 5111210.d  
 Als bottle: 1 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	334527	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	260785				42.76- 102.76	77.96
8.031	8.031	(1.000)	49	727160				173.18- 233.18	217.37
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1289908	25.0000			70.00- 130.00	100.00
9.912	9.912	(1.000)	88	199765				0.00- 46.42	15.49
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	997843	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	587344				0.00- 30.00	58.86
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	483717	25.0000	24.158		70.00- 130.00	100.00
9.137	9.137	(1.134)	67	270045				0.00- 30.00	55.83
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1153506	25.0000	25.329		70.00- 130.00	100.00
12.704	12.704	(1.282)	70	115740				0.00- 30.00	10.03

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	758692			0.00- 30.00	65.77		
-----										
\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	591715	25.0000	25.414	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	932598			128.71- 188.71	157.61		
16.575	16.575	(1.105)	176	571616			68.26- 128.26	96.60		
-----										
6 Propylene										
						CAS #: 115-07-1				
2.280	2.280	(0.283)	41	662690	25.0000	28.381	70.00- 130.00	100.00		
2.280	2.280	(0.283)	42	450921			0.00- 30.00	68.04		
2.280	2.280	(0.283)	39	450789			0.00- 30.00	68.02		
-----										
8 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.336	2.336	(0.290)	85	1146478	25.0000	28.984	70.00- 130.00	100.00		
2.336	2.336	(0.290)	87	378796			0.00- 30.00	33.04		
-----										
9 Freon 114										
						CAS #: 76-14-2				
2.446	2.446	(0.304)	135	1050229	25.0000	29.093	70.00- 130.00	100.00		
2.446	2.446	(0.304)	137	322619			2.29- 62.29	30.72		
-----										
10 Chloromethane										
						CAS #: 74-87-3				
2.585	2.585	(0.321)	50	855747	25.0000	28.811	70.00- 130.00	100.00		
2.585	2.585	(0.321)	52	260182			0.00- 30.00	30.40		
-----										
13 Vinyl Chloride										
						CAS #: 75-01-4				
2.778	2.778	(0.345)	62	838816	25.0000	29.341	70.00- 130.00	100.00		
2.778	2.778	(0.345)	64	261204			0.00- 30.00	31.14		
-----										
12 1,3-Butadiene										
						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	752822	25.0000	30.834	70.00- 130.00	100.00		
2.750	2.750	(0.341)	39	795006			0.00- 30.00	105.60		
-----										
15 Bromomethane										
						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	546191	25.0000	29.593	70.00- 130.00	100.00		
3.276	3.276	(0.406)	96	523940			65.07- 125.07	95.93		
-----										
19 Chloroethane										
						CAS #: 75-00-3				
3.386	3.386	(0.420)	64	429880	25.0000	29.561	70.00- 130.00	100.00		
3.386	3.386	(0.420)	49	120010			0.00- 30.00	27.92		
3.386	3.386	(0.420)	66	127147			0.00- 30.00	29.58		
-----										
20 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	1264537	25.0000	29.322	70.00- 130.00	100.00		
3.718	3.718	(0.461)	103	819011			34.56- 94.56	64.77		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.078	4.078	(0.506)	45	279983	25.0000	29.884	70.00- 130.00	100.00	
4.078	4.078	(0.506)	43	55168			0.00- 30.00	19.70	
4.078	4.078	(0.506)	46	117750			0.00- 30.00	42.06	
-----									
30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	793323	25.0000	29.584	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	486250			33.43- 93.43	61.29	
4.520	4.520	(0.561)	101	1063047			108.48- 168.48	134.00	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	1025912	25.0000	28.907	70.00- 130.00	100.00	
4.575	4.575	(0.568)	96	579347			27.13- 87.13	56.47	
4.575	4.575	(0.568)	98	379018			5.60- 65.60	36.94	
-----									
32 Acetone						CAS #: 67-64-1			
4.714	4.714	(0.585)	58	374495	25.0000	28.212	70.00- 130.00	100.00	
4.714	4.714	(0.585)	43	1138367			0.00- 30.00	303.97	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	1288123	25.0000	27.267	70.00- 130.00	100.00	
4.907	4.907	(0.609)	43	286038			0.00- 30.00	22.21	
4.935	4.935	(0.612)	59	48259			0.00- 30.00	3.75	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	1812623	25.0000	30.160	70.00- 130.00	100.00	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	274594	25.0000	27.441	70.00- 130.00	100.00	
5.184	5.184	(0.643)	41	1080424			0.00- 30.00	393.46	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	864094	25.0000	28.474	70.00- 130.00	100.00	
5.432	5.432	(0.674)	84	511783			29.81- 89.81	59.23	
5.432	5.432	(0.674)	51	267550			0.00- 30.00	30.96	
-----									
46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	628320	25.0000	27.505	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	190297			1.68- 61.68	30.29	
5.764	5.764	(0.715)	41	220926			0.00- 30.00	35.16	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.820	5.820	(0.722)	96	642782	25.0000	29.906	70.00- 130.00	100.00	
5.820	5.820	(0.722)	61	1038046			133.65- 193.65	161.49	
5.820	5.820	(0.722)	98	412618			0.00- 30.00	64.19	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	1293253	25.0000	29.589	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	912632			0.00- 30.00	70.57	
6.151	6.151	(0.763)	86	175618			0.00- 30.00	13.58	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	1159420	25.0000	29.792	70.00- 130.00	100.00	
6.594	6.594	(0.818)	65	353585			0.52- 60.52	30.50	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.672	7.672	(0.952)	72	260618	25.0000	27.749	70.00- 130.00	100.00	
7.672	7.672	(0.952)	43	1556458			536.33- 596.33	597.22	
7.672	7.672	(0.952)	57	108815			0.00- 30.00	41.75	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	852737	25.0000	29.183	70.00- 130.00	100.00	
7.617	7.617	(0.945)	96	579802			37.56- 97.56	67.99	
7.617	7.617	(0.945)	98	374515			14.52- 74.52	43.92	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	941307	25.0000	26.918	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	243549			0.00- 55.74	25.87	
8.031	8.031	(0.997)	72	276695			0.00- 30.00	29.39	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	974502	25.0000	29.554	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	633277			35.19- 95.19	64.98	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.419	8.419	(1.045)	97	934919	25.0000	28.366	70.00- 130.00	100.00	
8.419	8.419	(1.045)	99	613886			33.02- 93.02	65.66	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.419	8.419	(1.045)	84	792547	25.0000	29.850	70.00- 130.00	100.00	
8.391	8.391	(1.041)	56	1226244			126.11- 186.11	154.72	
8.391	8.391	(1.041)	41	701484			55.82- 115.82	88.51	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.677	6.677	(0.828)	86	138576	25.0000	28.107	70.00- 130.00	100.00	
6.649	6.649	(0.825)	43	1704333			0.00- 30.00	1229.89	
6.649	6.649	(0.825)	42	130423			0.00- 30.00	94.12	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	809879	25.0000	29.761	70.00- 130.00	100.00	
8.667	8.667	(1.075)	117	859338			75.98- 135.98	106.11	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	3611843	25.0000	30.137	70.00- 130.00	100.00		
9.110	9.110	(1.130)	56	1138268			0.00- 30.00	31.51		
9.110	9.110	(1.130)	41	934324			0.00- 30.00	25.87		
-----										
81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	1645273	25.0000	29.592	70.00- 130.00	100.00		
9.082	9.082	(0.916)	77	374414			0.00- 30.00	22.76		
-----										
85	1,2-Dichloroethane					CAS #: 107-06-2				
9.276	9.276	(0.936)	62	733430	25.0000	28.795	70.00- 130.00	100.00		
9.276	9.276	(0.936)	64	229542			0.00- 30.00	31.30		
-----										
90	Heptane					CAS #: 142-82-5				
9.497	9.497	(0.958)	100	187102	25.0000	30.129	70.00- 130.00	100.00		
9.469	9.469	(0.955)	43	1432521			0.00- 30.00	765.64		
9.469	9.469	(0.955)	71	558888			0.00- 30.00	298.71		
-----										
93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	643545	25.0000	28.538	70.00- 130.00	100.00		
10.326	10.326	(1.042)	130	606528			64.49- 124.49	94.25		
10.326	10.326	(1.042)	97	408553			34.72- 94.72	63.48		
-----										
98	1,2-Dichloropropane					CAS #: 78-87-5				
10.824	10.824	(1.092)	63	605108	25.0000	27.675	70.00- 130.00	100.00		
10.852	10.852	(1.095)	62	432166			39.05- 99.05	71.42		
10.824	10.824	(1.092)	41	428434			36.65- 96.65	70.80		
-----										
99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	331486	25.0000	26.104	70.00- 130.00	100.00		
11.073	11.073	(1.117)	58	317598			62.00- 122.00	95.81		
11.073	11.073	(1.117)	57	103554			0.00- 30.00	31.24		
-----										
100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	900304	25.0000	28.555	70.00- 130.00	100.00		
11.405	11.405	(1.151)	85	563113			34.72- 94.72	62.55		
-----										
103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	629894	25.0000	28.188	70.00- 130.00	100.00		
12.317	12.317	(1.243)	77	201792			0.28- 60.28	32.04		
12.289	12.289	(1.240)	39	478334			43.30- 103.30	75.94		
-----										
106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.594	12.594	(1.271)	58	530758	25.0000	29.139	70.00- 130.00	100.00		
12.594	12.594	(1.271)	43	1509968			0.00- 30.00	284.49		
12.594	12.594	(1.271)	85	169679			0.00- 30.00	31.97		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	1600261	25.0000	27.900	70.00-	130.00	100.00	
12.815	12.815	(1.293)	92	944522			29.65-	89.65	59.02	
-----										
113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	614344	25.0000	29.141	70.00-	130.00	100.00	
13.368	13.368	(0.891)	77	195343			1.96-	61.96	31.80	
13.368	13.368	(0.891)	39	433660			38.82-	98.82	70.59	
-----										
114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	543918	25.0000	28.923	70.00-	130.00	100.00	
13.644	13.644	(0.910)	99	333845			33.63-	93.63	61.38	
13.644	13.644	(0.910)	83	469329			55.73-	115.73	86.29	
-----										
116 Tetrachloroethene						CAS #:	127-18-4			
13.700	13.700	(0.913)	166	641390	25.0000	29.342	70.00-	130.00	100.00	
13.672	13.672	(0.912)	129	519336			50.24-	110.24	80.97	
13.700	13.700	(0.913)	131	465809			48.42-	108.42	72.62	
-----										
119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	705936	25.0000	26.910	70.00-	130.00	100.00	
14.004	14.004	(0.934)	43	1449745			168.65-	228.65	205.36	
14.031	14.031	(0.935)	100	106081			0.00-	30.00	15.03	
-----										
120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	781679	25.0000	29.707	70.00-	130.00	100.00	
14.197	14.197	(0.947)	127	629962			0.00-	30.00	80.59	
-----										
122 1,2-Dibromoethane						CAS #:	106-93-4			
14.363	14.363	(0.958)	107	810766	25.0000	29.412	70.00-	130.00	100.00	
14.363	14.363	(0.958)	109	766083			63.74-	123.74	94.49	
-----										
126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	1244447	25.0000	28.982	70.00-	130.00	100.00	
15.027	15.027	(1.002)	114	386814			1.82-	61.82	31.08	
15.027	15.027	(1.002)	77	775823			31.79-	91.79	62.34	
-----										
128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	682779	25.0000	29.433	70.00-	130.00	100.00	
15.165	15.165	(1.011)	91	2277047			0.00-	30.00	333.50	
-----										
130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	870860	25.0000	30.564	70.00-	130.00	100.00	
15.331	15.331	(1.022)	91	1817374			0.00-	30.00	208.69	
-----										
132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	797683	25.0000	29.441	70.00-	130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	1777338			195.49- 255.49	222.81	
-----									
133 Styrene									
15.912	15.912	(1.061)	104	1266850	25.0000	31.713	70.00- 130.00	100.00	
15.912	15.912	(1.061)	78	629233			22.39- 82.39	49.67	
-----									
134 Bromoform									
16.160	16.160	(1.077)	173	675390	25.0000	28.802	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	359161			21.21- 81.21	53.18	
-----									
141 1,1,2,2-Tetrachloroethane									
16.796	16.796	(1.120)	83	1232295	25.0000	30.158	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	772986			33.63- 93.63	62.73	
-----									
144 4-Ethyltoluene									
16.962	16.962	(1.131)	105	2465606	25.0000	30.842	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	715161			0.00- 59.46	29.01	
-----									
147 1,3,5-Trimethylbenzene									
17.045	17.045	(1.136)	105	2280818	25.0000	31.564	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	1072498			0.00- 30.00	47.02	
-----									
152 1,2,4-Trimethylbenzene									
17.460	17.460	(1.164)	105	1826338	25.0000	29.794	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	851499			16.11- 76.11	46.62	
-----									
155 1,3-Dichlorobenzene									
17.764	17.764	(1.184)	146	1241257	25.0000	28.603	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	812078			0.00- 30.00	65.42	
17.764	17.764	(1.184)	111	499022			0.00- 30.00	40.20	
-----									
156 1,4-Dichlorobenzene									
17.847	17.847	(1.190)	146	1514808	25.0000	29.784	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	963066			0.00- 30.00	63.58	
17.847	17.847	(1.190)	111	647676			0.00- 30.00	42.76	
-----									
157 alpha-Chlorotoluene									
17.985	17.985	(1.199)	91	1979971	25.0000	30.916	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	394352			0.00- 30.00	19.92	
-----									
159 1,2-Dichlorobenzene									
18.206	18.206	(1.214)	146	1258812	25.0000	27.579	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	803161			32.64- 92.64	63.80	
18.206	18.206	(1.214)	111	506882			11.53- 71.53	40.27	
-----									



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	826354	25.0000	25.506	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	806386			63.93- 123.93	97.58	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	607708	25.0000	26.699	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	380207			32.69- 92.69	62.56	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	2855716	25.0000	30.351	70.00- 130.00	100.00	
16.824	16.824	(1.122)	120	608220			0.00- 30.00	21.30	
16.824	16.824	(1.122)	105	99037			0.00- 30.00	3.47	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	2396295	25.0000	29.169	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	632802			0.00- 30.00	26.41	
16.326	16.326	(1.088)	51	340331			0.00- 30.00	14.20	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	3032327	25.0000	28.102	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	372568			0.00- 30.00	12.29	
-----									
17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	1168743	25.0000	28.222	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	771876			0.00- 30.00	66.04	
3.414	3.414	(0.424)	72	70331			0.00- 30.00	6.02	
-----									
11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	200544	25.0000	28.403	70.00- 130.00	100.00	
2.667	2.667	(0.331)	43	1493932			0.00- 30.00	744.94	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.548	10.548	(1.064)	83	951148	25.0000	29.620	70.00- 130.00	100.00	
10.548	10.548	(1.064)	98	442883			0.00- 30.00	46.56	
10.548	10.548	(1.064)	55	1041822			0.00- 30.00	109.53	
-----									

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111210.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 4

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 25ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	334527	-5.83
92 1,4-Difluorobenze	1306915	784149	1829681	1289908	-1.30
125 Chlorobenzene-d5	1023463	614078	1432848	997843	-2.50

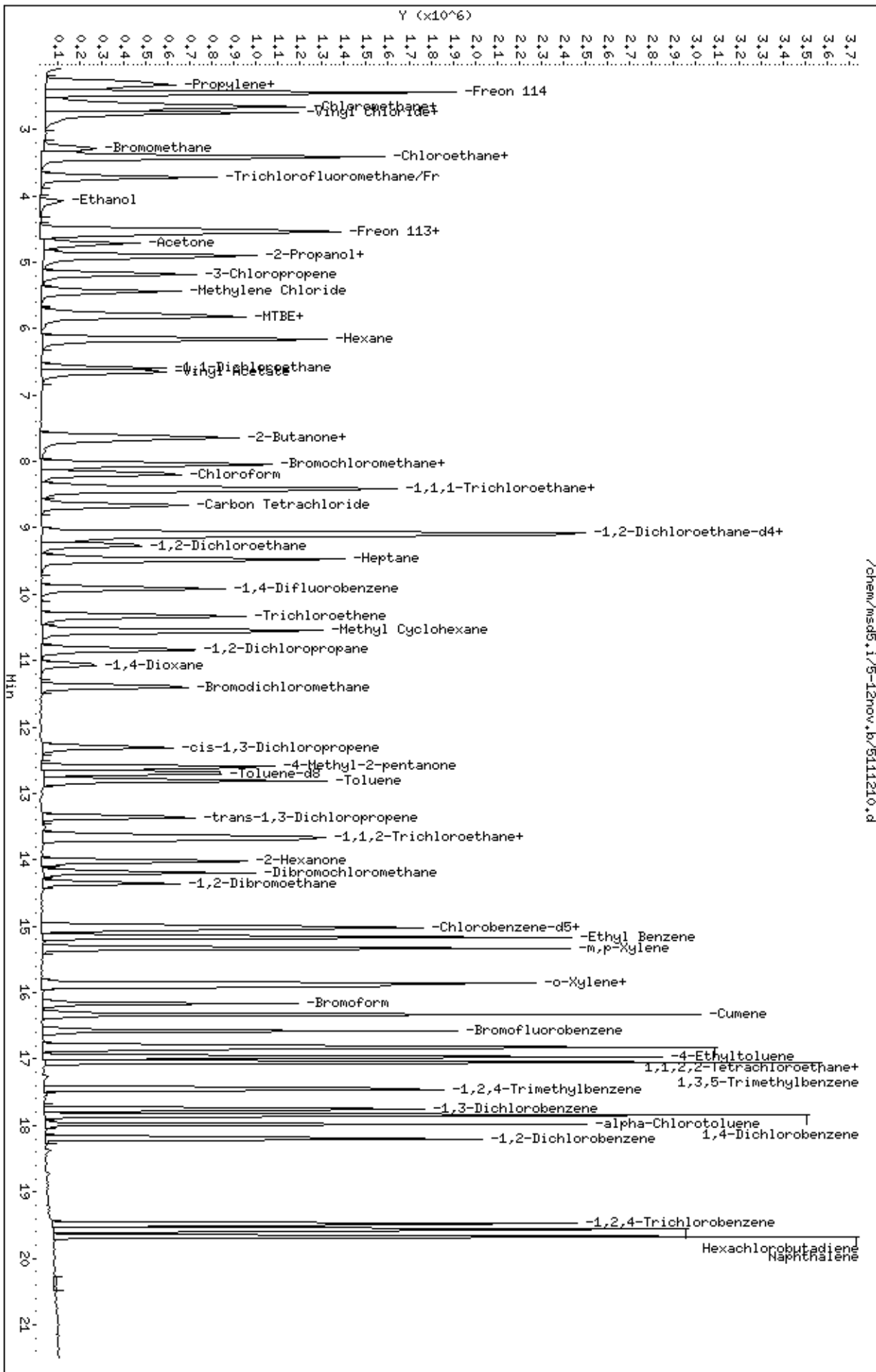
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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: 27-Nov-2007 15:31

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112702.d  
 Lab Smp Id: ICAL Client Smp ID: Level 5  
 Inj Date : 27-NOV-2007 09:21  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 50mL #1443-374  
 Misc Info : 50ppbv (200ppbv)  
 Comment :  
 Method : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 09:21 Cal File: 5112702.d  
 Als bottle: 1 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp19b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
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	351932	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	271999			47.29- 107.29	77.29	
8.059	8.059	(1.000)	49	750615			183.28- 243.28	213.28	
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.939	9.939	(1.000)	114	1207474	25.0000		80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	201712			0.00- 46.71	16.71	
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	945809	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	538652			26.95- 86.95	56.95	
-----									
7 Isobutane CAS #: 75-28-5									
2.502	2.502	(0.310)	43	3734639	50.0000	57.850	80.00- 120.00	100.00	
2.502	2.502	(0.310)	42	1231328			2.97- 62.97	32.97	
2.502	2.502	(0.310)	58	103831			0.00- 32.78	2.78	
-----									
18 Pentane CAS #: 109-66-0									
3.829	3.829	(0.475)	43	3761769	50.0000	57.050	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
18 Pentane (continued)									
3.829	3.829	(0.475)	57	554812			0.00- 44.75	14.75	
3.829	3.829	(0.475)	72	320049			0.00- 38.51	8.51	
-----									
25 Acrolein						CAS #: 107-02-8			
4.492	4.492	(0.557)	55	509181	50.0000	61.969	80.00- 120.00	100.00	
4.492	4.492	(0.557)	56	732493			113.86- 173.86	143.86	
-----									
39 Acrylonitrile						CAS #: 107-13-1			
5.958	5.958	(0.739)	53	1495490	50.0000	57.662	80.00- 120.00	100.00	
5.958	5.958	(0.739)	52	1118902			44.82- 104.82	74.82	
-----									
42 1-Pentene						CAS #: 109-67-1			
3.746	3.746	(0.465)	55	2025749	50.0000	56.940	80.00- 120.00	100.00(T)	
3.746	3.746	(0.465)	42	3115059			123.77- 183.77	153.77	
0.000	1.000	(0.000)	0	0			0.00- 30.00	0.00	
-----									
44 Ethyl Ether						CAS #: 60-29-7			
4.188	4.188	(0.520)	74	768359	50.0000	57.089	80.00- 120.00	100.00(T)	
4.188	4.188	(0.520)	59	1292702			138.24- 198.24	168.24	
0.000	1.000	(0.000)	31	0			0.00- 30.00	0.00	
-----									
53 Iodomethane						CAS #: 74-88-4			
4.852	4.852	(0.602)	142	2900304	50.0000	62.117	80.00- 120.00	100.00	
4.852	4.852	(0.602)	127	938980			2.38- 62.38	32.38	
-----									
58 1-Hexene						CAS #: 592-41-6			
6.068	6.068	(0.753)	55	1196417	50.0000	58.001	80.00- 120.00	100.00	
6.068	6.068	(0.753)	41	1853146			124.89- 184.89	154.89	
6.068	6.068	(0.753)	84	388707			2.49- 62.49	32.49	
-----									
62 Methyl Acrylate						CAS #: 96-33-3			
7.810	7.810	(0.969)	55	2465050	50.0000	59.565	80.00- 120.00	100.00	
7.810	7.810	(0.969)	85	288166			0.00- 41.69	11.69	
7.810	7.810	(0.969)	58	209426			0.00- 38.50	8.50	
-----									
86 2-Pentanone						CAS #: 107-87-9			
10.796	10.796	(1.086)	43	3588242	50.0000	59.645	80.00- 120.00	100.00	
10.796	10.796	(1.086)	58	248284			0.00- 36.92	6.92	
10.796	10.796	(1.086)	86	450773			0.00- 42.56	12.56	
-----									
88 Ethyl Acrylate						CAS #: 140-88-5			
10.630	10.630	(1.070)	55	2733225	50.0000	58.934	80.00- 120.00	100.00	
10.630	10.630	(1.070)	99	141739			0.00- 35.19	5.19	
10.630	10.630	(1.070)	45	270556			0.00- 39.90	9.90	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
95 Dibromomethane						CAS #: 74-95-3			
11.073	11.073	(1.114)	174	857804	50.0000	56.889	80.00- 120.00	100.00	
11.073	11.073	(1.114)	93	941910			79.80- 139.80	109.80	
11.073	11.073	(1.114)	95	789916			62.09- 122.09	92.09	
-----									
96 Methyl Methacrylate						CAS #: 80-62-6			
11.073	11.073	(1.114)	41	1912198	50.0000	59.195	80.00- 120.00	100.00	
11.073	11.073	(1.114)	69	901405			17.14- 77.14	47.14	
11.073	11.073	(1.114)	100	360526			0.00- 48.85	18.85	
-----									
112 Alphamethylstyrene						CAS #: 98-83-9			
17.294	17.294	(1.153)	118	1662649	50.0000	60.907	80.00- 120.00	100.00	
17.294	17.294	(1.153)	103	969695			28.32- 88.32	58.32	
-----									
117 Bis(2-chloroethyl) ether						CAS #: 111-44-4			
17.709	17.709	(1.181)	93	1748274	50.0000	54.264	80.00- 120.00	100.00	
17.709	17.709	(1.181)	95	550087			1.46- 61.46	31.46	
17.709	17.709	(1.181)	63	1420888			51.27- 111.27	81.27	
-----									
127 Nonane						CAS #: 111-84-2			
15.331	15.331	(1.022)	43	3205620	50.0000	60.466	80.00- 120.00	100.00	
15.331	15.331	(1.022)	57	2399225			44.84- 104.84	74.84	
15.331	15.331	(1.022)	85	723428			0.00- 52.57	22.57	
-----									

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 27-Nov-2007 15:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 27-NOV-2007

Lab File ID: 5112702.d

Calibration Time: 09:21

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m

Misc Info: 50ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	351932	211159	492705	351932	0.00
92 1,4-Difluorobenze	1207474	724484	1690464	1207474	0.00
125 Chlorobenzene-d5	945809	567485	1324133	945809	0.00

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-27nov.b/5112702.d

Date: 27-NOV-2007 09:21

Client ID: Level 5

Sample Info: 50mL #1443-374

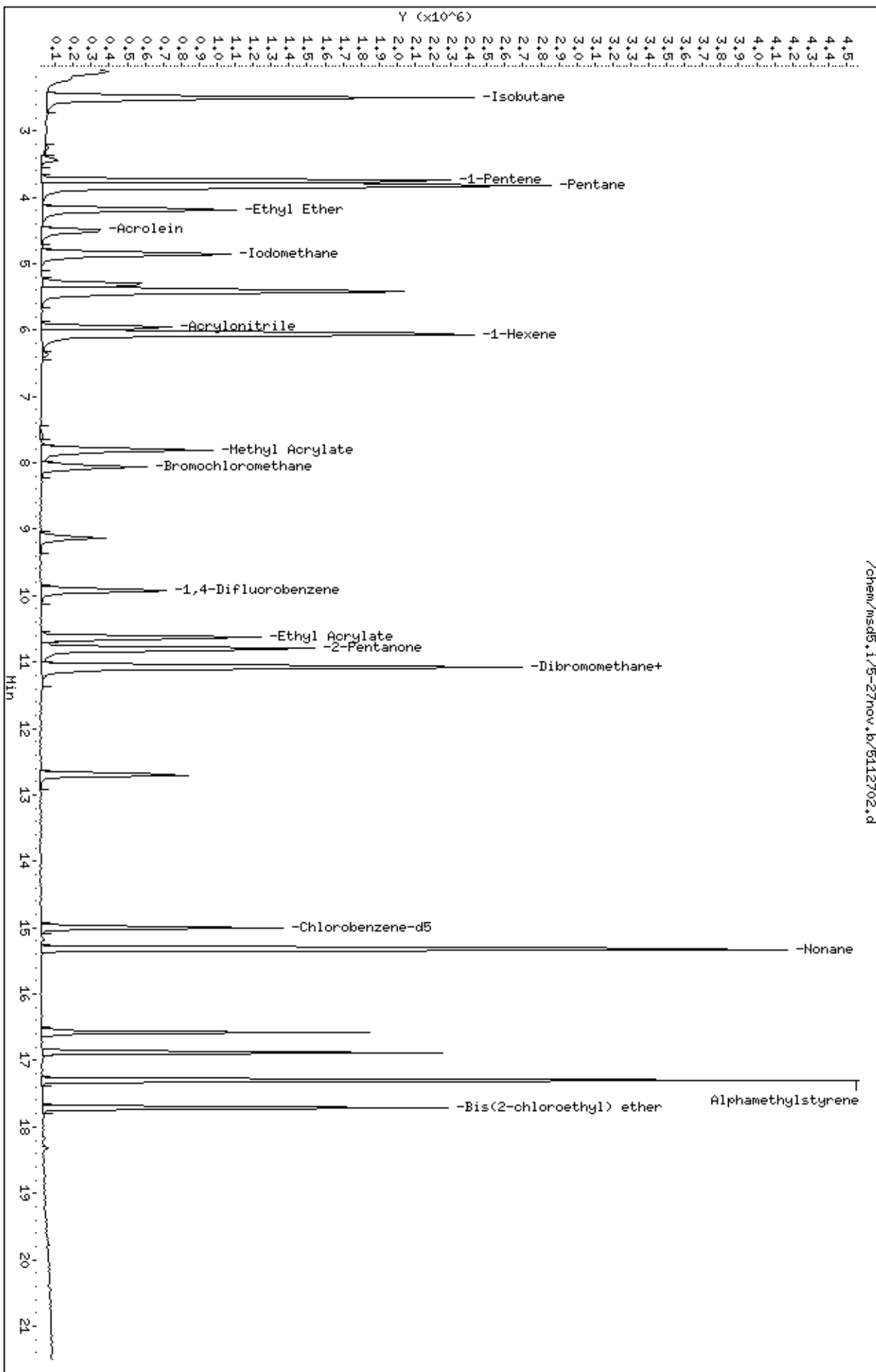
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-27nov.b/5112702.d





Report Date: 20-Nov-2007 15:39

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111903.d  
 Lab Smp Id: ICAL Client Smp ID: Level 5  
 Inj Date : 19-NOV-2007 02:24  
 Operator : sjr Inst ID: msd5.i  
 Smp Info : 50mL #1487-405  
 Misc Info : 200ppbv -> 50ppbv  
 Comment :  
 Method : /chem/msd5.i/5-19nov.b/t14qn12b.m  
 Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD  
 Cal Date : 19-NOV-2007 02:24 Cal File: 5111903.d  
 Als bottle: 1 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp21b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	CAL-AMT		ON-COL	TARGET RANGE	RATIO
				RESPONSE	( PPBV)	( PPBV)		
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #:	74-97-5	
8.059	8.059	(1.000)	130	320182	25.0000		80.00- 120.00	100.00
8.059	8.059	(1.000)	128	247757			47.38- 107.38	77.38
8.059	8.059	(1.000)	49	727629			197.25- 257.25	227.25
-----								
* 92	1,4-Difluorobenzene					CAS #:	540-36-3	
9.911	9.911	(1.000)	114	1222930	25.0000		80.00- 120.00	100.00
9.911	9.911	(1.000)	88	214130			0.00- 47.51	17.51
-----								
* 125	Chlorobenzene-d5					CAS #:	3114-55-4	
14.999	14.999	(1.000)	117	969063	25.0000		80.00- 120.00	100.00
14.999	14.999	(1.000)	82	569146			28.73- 88.73	58.73
-----								
1	Freon134a					CAS #:	811-97-2	
2.197	2.197	(0.273)	83	725525	50.0000	54.536	80.00- 120.00	100.00
2.335	2.335	(0.290)	69	86258			0.00- 41.89	11.89
-----								
3	Freon 152a					CAS #:	75-37-6	
2.280	2.280	(0.283)	65	672942	50.0000	58.047	80.00- 120.00	100.00
2.335	2.335	(0.290)	51	3505165			490.87- 550.87	520.87
-----								

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
4 Freon 22						CAS #: 75-45-6			
2.335	2.335	(0.290)	67	186741	50.0000	49.706	80.00- 120.00	100.00	
2.335	2.335	(0.290)	51	3481504			1834.35-1894.35	1864.35	
-----									
5 Freon142b						CAS #: 75-68-3			
2.557	2.557	(0.317)	65	1425792	50.0000	63.457	80.00- 120.00	100.00	
2.529	2.529	(0.314)	45	439299			0.81- 60.81	30.81	
-----									
16 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
3.718	3.718	(0.461)	67	1566047	50.0000	55.419	80.00- 120.00	100.00	
3.718	3.718	(0.461)	69	474287			0.29- 60.29	30.29	
3.773	3.773	(0.468)	35	4459			0.00- 30.28	0.28	
-----									
22 Freon123a						CAS #: 354-23-4			
4.271	4.271	(0.530)	117	802431	50.0000	51.785	80.00- 120.00	100.00	
4.271	4.271	(0.530)	67	1266245			127.80- 187.80	157.80	
-----									
24 Freon123						CAS #: 306-83-2			
4.409	4.409	(0.547)	83	1635430	50.0000	56.515	80.00- 120.00	100.00	
4.409	4.409	(0.547)	133	249822			0.00- 45.28	15.28	
4.409	4.409	(0.547)	85	1130542			39.13- 99.13	69.13	
-----									
37 tert-Butyl-Alcohol						CAS #: 75-65-0			
5.570	5.570	(0.691)	59	871998	50.0000	44.645	80.00- 120.00	100.00	
5.570	5.570	(0.691)	41	287836			3.01- 63.01	33.01	
5.570	5.570	(0.691)	57	89186			0.00- 40.23	10.23	
-----									
49 Isopropyl ether						CAS #: 108-20-3			
6.593	6.593	(0.818)	45	4403085	50.0000	58.244	80.00- 120.00	100.00	
6.593	6.593	(0.818)	87	831467			0.00- 48.88	18.88	
6.593	6.593	(0.818)	59	440147			0.00- 40.00	10.00	
-----									
57 Ethyl-tert-butyl Ether						CAS #: 637-92-3			
7.202	7.202	(0.894)	59	1932300	50.0000	62.956	80.00- 120.00	100.00	
7.202	7.202	(0.894)	87	624017			2.29- 62.29	32.29	
7.202	7.202	(0.894)	41	425510			0.00- 52.02	22.02	
-----									
61 Ethyl Acetate						CAS #: 141-78-6			
7.699	7.699	(0.955)	70	203725	50.0000	59.358	80.00- 120.00	100.00	
7.699	7.699	(0.955)	43	2599138			1245.81-1305.81	1275.81	
7.699	7.699	(0.955)	61	314227			124.24- 184.24	154.24	
-----									
64 1-Propanol						CAS #: 71-23-8			
6.815	6.815	(0.846)	42	196110	50.0000	70.686	80.00- 120.00	100.00	
6.815	6.815	(0.846)	59	196448			70.17- 130.17	100.17	
6.815	6.815	(0.846)	41	119724			31.05- 91.05	61.05	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
76 Isobutanol						CAS #: 78-83-1			
9.082	9.082	(0.916)	43	957047	50.0000	59.454	80.00- 120.00	100.00	
9.082	9.082	(0.916)	41	676060			40.64- 100.64	70.64	
-----									
78 tert-amyl-Methyl Ether						CAS #: 994-05-8			
9.275	9.275	(1.151)	73	1541577	50.0000	60.655	80.00- 120.00	100.00	
9.275	9.275	(1.151)	87	383472			0.00- 54.88	24.88	
9.275	9.275	(1.151)	55	715772			16.43- 76.43	46.43	
-----									
118 Butyl Acetate						CAS #: 123-86-4			
14.197	14.197	(1.432)	56	1080669	50.0000	63.411	80.00- 120.00	100.00	
14.197	14.197	(1.432)	73	298763			0.00- 57.65	27.65	
14.197	14.197	(1.432)	43	2701863			220.02- 280.02	250.02	
-----									
131 2-Heptanone						CAS #: 110-43-0			
16.077	16.077	(1.072)	58	1533405	50.0000	60.264	80.00- 120.00	100.00	
16.077	16.077	(1.072)	43	2665724			143.84- 203.84	173.84	
-----									
135 Cyclohexanone						CAS #: 108-94-1			
16.520	16.520	(1.101)	55	1376890	50.0000	57.101	80.00- 120.00	100.00	
16.520	16.520	(1.101)	98	447407			2.49- 62.49	32.49	
16.520	16.520	(1.101)	42	988900			41.82- 101.82	71.82	
-----									
146 Diisobutyl Ketone						CAS #: 108-83-8			
17.211	17.211	(1.147)	57	3684582	50.0000	56.291	80.00- 120.00	100.00	
17.211	17.211	(1.147)	85	2242699			30.87- 90.87	60.87	
-----									

Report Date: 20-Nov-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 19-NOV-2007

Lab File ID: 5111903.d

Calibration Time: 02:24

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m

Misc Info: 200ppbv -&gt; 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	320182	192109	448255	320182	0.00
92 1,4-Difluorobenze	1222930	733758	1712102	1222930	0.00
125 Chlorobenzene-d5	969063	581438	1356688	969063	0.00

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-19nov.b/5111903.d

Date: 19-NOV-2007 02:24

Client ID: Level 5

Sample Info: 50mL #1487-405

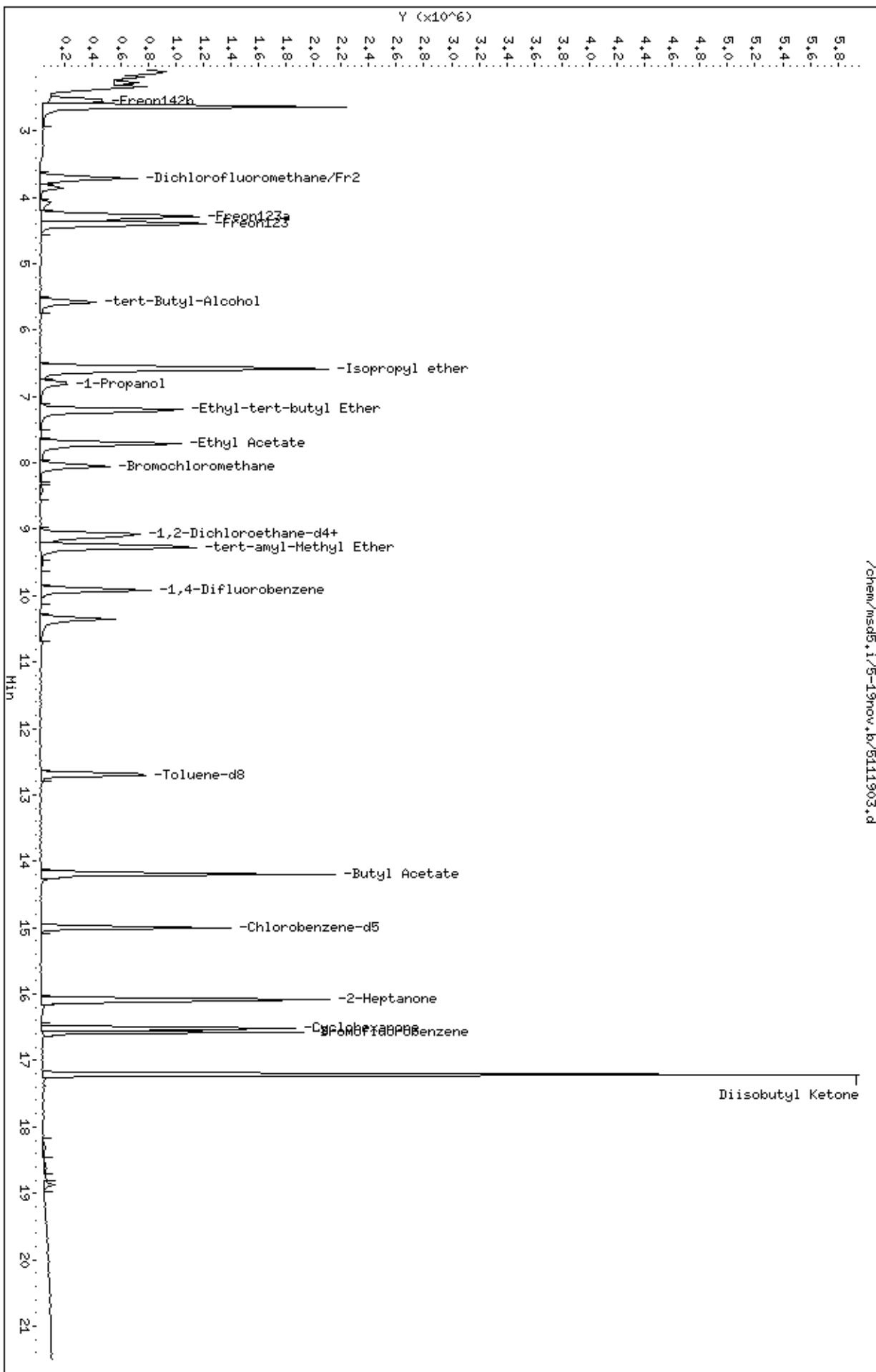
Column phase: RTX-624

Instrument: msd5.1

Operator: sjr

Column diameter: 0.53

/chem/msd5.1/5-19nov.b/5111903.d



Report Date: 13-Nov-2007 13:25

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111217.d  
 Lab Smp Id: ICAL Client Smp ID: Level 5  
 Inj Date : 12-NOV-2007 19:48  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 50mL #1487-404  
 Misc Info : 200ppbv -> 50ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:25 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 19:48 Cal File: 5111217.d  
 Als bottle: 1 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp20a.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #:	74-97-5	
8.059	8.059	(1.000)	130	345466	25.0000		80.00- 120.00	100.00
8.059	8.059	(1.000)	128	268730			47.79- 107.79	77.79
8.031	8.031	(1.000)	49	746996			186.23- 246.23	216.23
-----								
* 92	1,4-Difluorobenzene					CAS #:	540-36-3	
9.912	9.912	(1.000)	114	1312181	25.0000		80.00- 120.00	100.00
9.912	9.912	(1.000)	88	210064			0.00- 46.01	16.01
-----								
* 125	Chlorobenzene-d5					CAS #:	3114-55-4	
14.999	14.999	(1.000)	117	1008754	25.0000		80.00- 120.00	100.00
14.999	14.999	(1.000)	82	607985			30.27- 90.27	60.27
-----								
33	Methyl Acetate					CAS #:	79-20-9	
5.211	5.211	(0.647)	43	3002789	50.0000	58.786	80.00- 120.00	100.00
5.211	5.211	(0.647)	74	493386			0.00- 46.43	16.43
5.211	5.211	(0.647)	59	206971			0.00- 36.89	6.89
-----								
52	Chloroprene					CAS #:	126-99-8	
6.677	6.677	(0.828)	53	2405354	50.0000	58.823	80.00- 120.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
52 Chloroprene (continued)									
6.677	6.677	(0.828)	88	1024721			12.60- 72.60	42.60	
6.677	6.677	(0.828)	50	551998			0.00- 52.95	22.95	
-----									
59 1,3-Dichloropropane					CAS #: 142-28-9				
13.893	13.893	(1.402)	76	1453809	50.0000	58.082	80.00- 120.00	100.00	
13.893	13.893	(1.402)	41	1436383			68.80- 128.80	98.80	
13.893	13.893	(1.402)	78	465938			2.05- 62.05	32.05	
-----									
60 2,2-Dichloropropane					CAS #: 594-20-7				
7.561	7.561	(0.938)	77	1380807	50.0000	57.766	80.00- 120.00	100.00	
7.561	7.561	(0.938)	79	453796			2.86- 62.86	32.86	
7.561	7.561	(0.938)	97	311903			0.00- 52.59	22.59	
-----									
73 1,1-Dichloropropene					CAS #: 563-58-6				
8.723	8.723	(1.082)	110	527576	50.0000	57.969	80.00- 120.00	100.00	
8.723	8.723	(1.082)	75	1429533			240.96- 300.96	270.96	
-----									
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6				
15.193	15.193	(1.013)	131	1054297	50.0000	58.469	80.00- 120.00	100.00	
15.193	15.193	(1.013)	117	721225			38.41- 98.41	68.41	
15.165	15.165	(1.011)	95	427459			10.54- 70.54	40.54	
-----									
137 Bromobenzene					CAS #: 108-86-1				
16.741	16.741	(1.116)	156	1300604	50.0000	58.297	80.00- 120.00	100.00	
16.741	16.741	(1.116)	77	2361550			151.57- 211.57	181.57	
16.741	16.741	(1.116)	158	1239903			65.33- 125.33	95.33	
-----									
139 1,2,3-Trichloropropane					CAS #: 96-18-4				
16.852	16.852	(1.123)	110	696512	50.0000	56.901	80.00- 120.00	100.00	
16.852	16.852	(1.123)	61	577248			52.88- 112.88	82.88	
16.852	16.852	(1.123)	112	428340			31.50- 91.50	61.50	
-----									
140 2-Chlorotoluene					CAS #: 95-49-8				
16.962	16.962	(1.131)	126	1106391	50.0000	59.165	80.00- 120.00	100.00	
16.962	16.962	(1.131)	91	3514345			287.64- 347.64	317.64	
16.962	16.962	(1.131)	65	354394			2.03- 62.03	32.03	
-----									
143 4-Chlorotoluene					CAS #: 106-43-4				
17.100	17.100	(1.140)	126	1096512	50.0000	57.144	80.00- 120.00	100.00	
17.100	17.100	(1.140)	91	3485044			287.83- 347.83	317.83	
17.100	17.100	(1.140)	63	442755			10.38- 70.38	40.38	
-----									
149 tert-Butylbenzene					CAS #: 98-06-6				
17.377	17.377	(1.159)	119	4280060	50.0000	55.137	80.00- 120.00	100.00	
17.377	17.377	(1.159)	134	1013841			0.00- 53.69	23.69	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
149 tert-Butylbenzene (continued)									
17.377	17.377	(1.159)	91	2758688			34.45- 94.45	64.45	
-----									
150 Pentachloroethane CAS #: 76-01-7									
17.460	17.460	(1.164)	167	794680	50.0000	58.289	80.00- 120.00	100.00	
17.432	17.432	(1.162)	117	894688			82.58- 142.58	112.58	
-----									
151 sec-Butylbenzene CAS #: 135-98-8									
17.598	17.598	(1.173)	105	5449977	50.0000	59.146	80.00- 120.00	100.00	
17.598	17.598	(1.173)	134	1039049			0.00- 49.07	19.07	
17.598	17.598	(1.173)	91	915072			0.00- 46.79	16.79	
-----									
153 p-Cymene CAS #: 99-87-6									
17.764	17.764	(1.184)	134	1136321	50.0000	56.976	80.00- 120.00	100.00	
17.764	17.764	(1.184)	119	4217404			341.15- 401.15	371.15	
17.764	17.764	(1.184)	91	1020158			59.78- 119.78	89.78	
-----									
154 1,2,3-Trimethylbenzene CAS #: 526-73-8									
17.875	17.875	(1.192)	120	1673326	50.0000	58.418	80.00- 120.00	100.00	
17.875	17.875	(1.192)	105	3804482			197.36- 257.36	227.36	
17.875	17.875	(1.192)	77	419654			0.00- 55.08	25.08	
-----									
158 Butylbenzene CAS #: 104-51-8									
18.151	18.151	(1.210)	134	1017669	50.0000	56.589	80.00- 120.00	100.00	
18.123	18.123	(1.208)	91	4313119			393.82- 453.82	423.82	
18.123	18.123	(1.208)	92	2356714			201.58- 261.58	231.58	
-----									
160 Hexachloroethane CAS #: 67-72-1									
18.372	18.372	(1.225)	117	1526467	50.0000	57.384	80.00- 120.00	100.00	
18.400	18.400	(1.227)	201	960023			32.89- 92.89	62.89	
Sum of Peak Amounts =					57.4				
-----									
161 1,2-Dibromo-3-Chloropropane CAS #: 96-12-8									
18.870	18.870	(1.258)	157	1023062	50.0000	55.695	80.00- 120.00	100.00	
18.870	18.870	(1.258)	75	1253152			92.49- 152.49	122.49	
18.870	18.870	(1.258)	155	805144			48.70- 108.70	78.70	
-----									
166 1,2,3-Trichlorobenzene CAS #: 87-61-6									
19.865	19.865	(1.324)	180	2109836	50.0000	53.002	80.00- 120.00	100.00	
19.865	19.865	(1.324)	182	1992366			64.43- 124.43	94.43	
19.865	19.865	(1.324)	145	683997			2.42- 62.42	32.42	
-----									
192 Cyclopentene CAS #: 142-29-0									
5.239	5.239	(0.650)	67	2884987	50.0000	57.822	80.00- 120.00	100.00	
5.239	5.239	(0.650)	68	1097704			8.05- 68.05	38.05	
5.239	5.239	(0.650)	53	689669			0.00- 53.91	23.91	
-----									



Report Date: 13-Nov-2007 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111217.d

Calibration Time: 19:48

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	345466	207280	483652	345466	0.00
92 1,4-Difluorobenze	1312181	787309	1837053	1312181	0.00
125 Chlorobenzene-d5	1008754	605252	1412256	1008754	0.00

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-12nov.b/5111217.d

Date: 12-NOV-2007 19:48

Client ID: Level 5

Sample Info: 50mL #1487-404

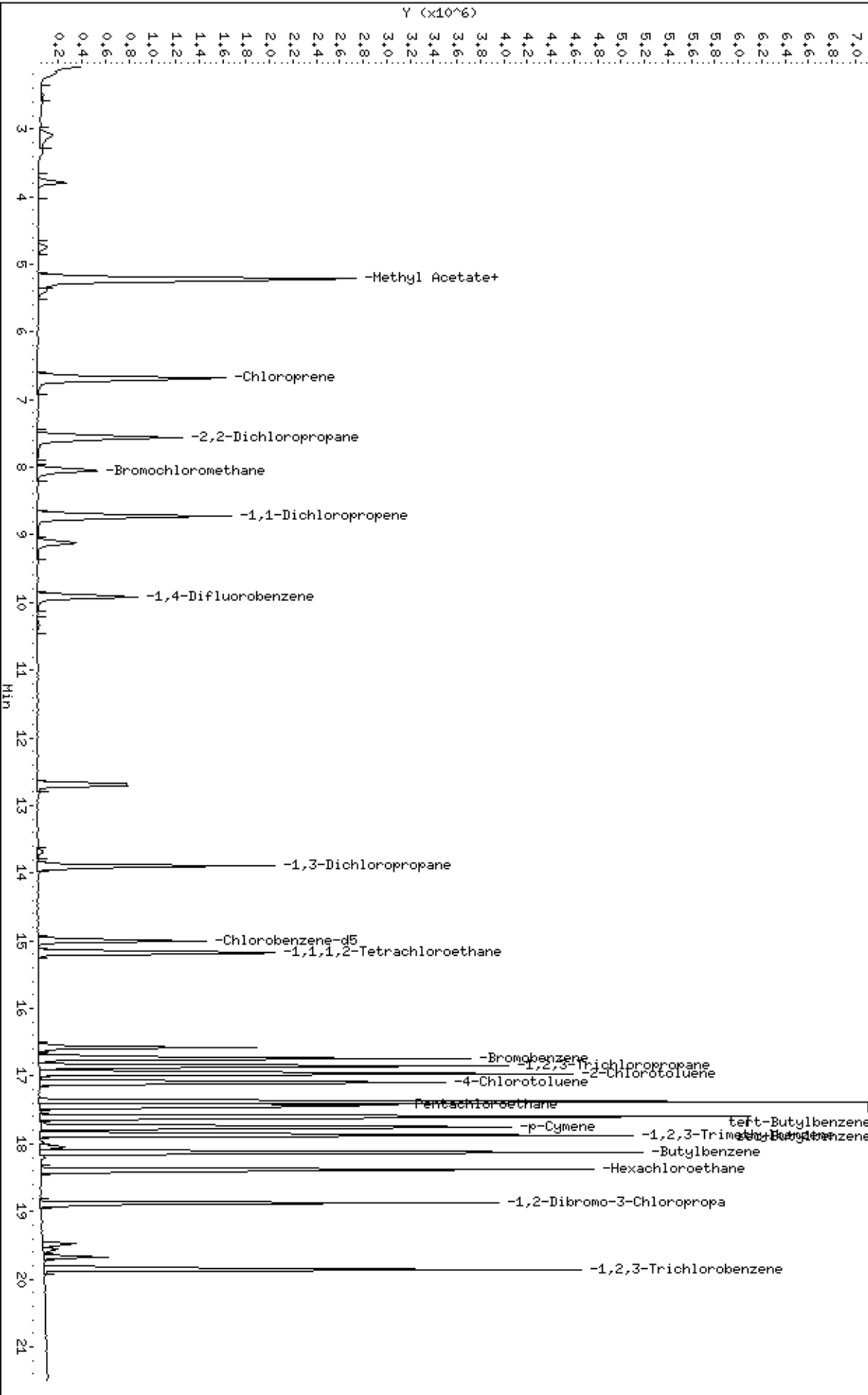
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-12nov.b/5111217.d



Report Date: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111211.d  
 Lab Smp Id: ICAL Client Smp ID: Level 5  
 Inj Date : 12-NOV-2007 15:12  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 50mL #1576-89  
 Misc Info : 200ppbv -> 50ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 15:12 Cal File: 5111211.d  
 Als bottle: 1 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	355243	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	258473			42.76- 102.76	72.76	
8.059	8.059	(1.000)	49	721775			173.18- 233.18	203.18	
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.911	(1.000)	114	1306915	25.0000		80.00- 120.00	100.00	
9.911	9.911	(1.000)	88	214533			0.00- 46.42	16.42	
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1023463	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	610449			29.65- 89.65	59.65	
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	493461	25.0000	23.207	80.00- 120.00	100.00	
9.110	9.110	(1.130)	67	285594			27.88- 87.88	57.88	
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1175775	25.0000	25.482	80.00- 120.00	100.00	
12.676	12.676	(1.279)	70	120943			0.00- 40.29	10.29	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	797977			37.87- 97.87	67.87		
-----										
\$ 138 Bromofluorobenzene										
						CAS #:	460-00-4			
16.575	16.575	(1.105)	174	601379	25.0000	25.183	80.00- 120.00	100.00		
16.575	16.575	(1.105)	95	954444			128.71- 188.71	158.71		
16.575	16.575	(1.105)	176	590897			68.26- 128.26	98.26		
-----										
6 Propylene										
						CAS #:	115-07-1			
2.280	2.280	(0.283)	41	1312675	50.0000	52.940	80.00- 120.00	100.00		
2.280	2.280	(0.283)	42	859227			35.46- 95.46	65.46		
2.280	2.280	(0.283)	39	905799			39.00- 99.00	69.00		
-----										
8 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
2.336	2.336	(0.290)	85	2175989	50.0000	51.803	80.00- 120.00	100.00		
2.336	2.336	(0.290)	87	699568			2.15- 62.15	32.15		
-----										
9 Freon 114										
						CAS #:	76-14-2			
2.474	2.474	(0.307)	135	2044251	50.0000	53.326	80.00- 120.00	100.00		
2.474	2.474	(0.307)	137	660064			2.29- 62.29	32.29		
-----										
10 Chloromethane										
						CAS #:	74-87-3			
2.584	2.584	(0.321)	50	1669546	50.0000	52.932	80.00- 120.00	100.00		
2.584	2.584	(0.321)	52	492673			0.00- 59.51	29.51		
-----										
13 Vinyl Chloride										
						CAS #:	75-01-4			
2.778	2.778	(0.345)	62	1641494	50.0000	54.070	80.00- 120.00	100.00		
2.778	2.778	(0.345)	64	510794			1.12- 61.12	31.12		
-----										
12 1,3-Butadiene										
						CAS #:	106-99-0			
2.750	2.750	(0.341)	54	1448503	50.0000	55.867	80.00- 120.00	100.00		
2.750	2.750	(0.341)	39	1594739			80.10- 140.10	110.10		
-----										
15 Bromomethane										
						CAS #:	74-83-9			
3.276	3.276	(0.406)	94	1074369	50.0000	54.816	80.00- 120.00	100.00		
3.276	3.276	(0.406)	96	1021436			65.07- 125.07	95.07		
-----										
19 Chloroethane										
						CAS #:	75-00-3			
3.386	3.386	(0.420)	64	777558	50.0000	50.352	80.00- 120.00	100.00		
3.386	3.386	(0.420)	49	221791			0.00- 58.52	28.52		
3.386	3.386	(0.420)	66	235947			0.34- 60.34	30.34		
-----										
20 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
3.718	3.718	(0.461)	101	2486676	50.0000	54.298	80.00- 120.00	100.00		
3.718	3.718	(0.461)	103	1605442			34.56- 94.56	64.56		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.077	4.077	(0.506)	45	545546	50.0000	54.833	80.00- 120.00	100.00	
4.077	4.077	(0.506)	43	108744			0.00- 49.93	19.93	
4.077	4.077	(0.506)	46	228599			11.90- 71.90	41.90	
-----									
30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	1493574	50.0000	52.450	80.00- 120.00	100.00	
4.520	4.520	(0.561)	153	947418			33.43- 93.43	63.43	
4.520	4.520	(0.561)	101	2068318			108.48- 168.48	138.48	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	2031999	50.0000	53.917	80.00- 120.00	100.00	
4.575	4.575	(0.568)	96	1160823			27.13- 87.13	57.13	
4.575	4.575	(0.568)	98	723443			5.60- 65.60	35.60	
-----									
32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	772213	50.0000	54.781	80.00- 120.00	100.00	
4.713	4.713	(0.585)	43	2262129			262.94- 322.94	292.94	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	2701635	50.0000	53.853	80.00- 120.00	100.00	
4.907	4.907	(0.609)	43	607237			0.00- 52.48	22.48	
4.907	4.907	(0.609)	59	97529			0.00- 33.61	3.61	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	3530562	50.0000	55.319	80.00- 120.00	100.00	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.183	5.183	(0.643)	76	580717	50.0000	54.648	80.00- 120.00	100.00	
5.183	5.183	(0.643)	41	2113664			333.97- 393.97	363.97	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	1689054	50.0000	52.414	80.00- 120.00	100.00	
5.432	5.432	(0.674)	84	1010161			29.81- 89.81	59.81	
5.432	5.432	(0.674)	51	516265			0.57- 60.57	30.57	
-----									
46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	1217142	50.0000	50.174	80.00- 120.00	100.00	
5.764	5.764	(0.715)	57	385552			1.68- 61.68	31.68	
5.764	5.764	(0.715)	41	417118			4.27- 64.27	34.27	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	1256929	50.0000	55.069	80.00- 120.00	100.00	
5.819	5.819	(0.722)	61	2056986			133.65- 193.65	163.65	
5.819	5.819	(0.722)	98	806007			34.13- 94.13	64.13	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	2567435	50.0000	55.316	80.00- 120.00	100.00	
6.151	6.151	(0.763)	43	1763419			38.68- 98.68	68.68	
6.151	6.151	(0.763)	86	368536			0.00- 44.35	14.35	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	2257850	50.0000	54.634	80.00- 120.00	100.00	
6.594	6.594	(0.818)	65	689178			0.52- 60.52	30.52	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.672	7.672	(0.952)	72	558891	50.0000	56.036	80.00- 120.00	100.00	
7.644	7.644	(0.949)	43	3165141			536.33- 596.33	566.33	
7.644	7.644	(0.949)	57	216333			8.71- 68.71	38.71	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	1659102	50.0000	53.468	80.00- 120.00	100.00	
7.617	7.617	(0.945)	96	1120921			37.56- 97.56	67.56	
7.617	7.617	(0.945)	98	738627			14.52- 74.52	44.52	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	1896605	50.0000	51.073	80.00- 120.00	100.00	
8.031	8.031	(0.997)	71	488200			0.00- 55.74	25.74	
8.031	8.031	(0.997)	72	523776			0.00- 57.62	27.62	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	1918915	50.0000	54.803	80.00- 120.00	100.00	
8.197	8.197	(1.017)	85	1250945			35.19- 95.19	65.19	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.418	8.418	(1.045)	97	1907795	50.0000	54.509	80.00- 120.00	100.00	
8.418	8.418	(1.045)	99	1202373			33.02- 93.02	63.02	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	1555633	50.0000	55.173	80.00- 120.00	100.00	
8.391	8.391	(1.041)	56	2428435			126.11- 186.11	156.11	
8.391	8.391	(1.041)	41	1335097			55.82- 115.82	85.82	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.649	6.649	(0.825)	86	286552	50.0000	54.732	80.00- 120.00	100.00	
6.649	6.649	(0.825)	43	3665493			1249.17-1309.17	1279.17	
6.649	6.649	(0.825)	42	271666			64.81- 124.81	94.81	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	1598598	50.0000	55.319	80.00- 120.00	100.00	
8.667	8.667	(1.075)	117	1694265			75.98- 135.98	105.98	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	7055970	50.0000	55.441	80.00- 120.00	100.00		
9.110	9.110	(1.130)	56	2339543			3.16- 63.16	33.16		
9.110	9.110	(1.130)	41	1821506			0.00- 55.82	25.82		
-----										
81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	3180389	50.0000	56.459	80.00- 120.00	100.00		
9.082	9.082	(0.916)	77	713793			0.00- 52.44	22.44		
-----										
85	1,2-Dichloroethane					CAS #: 107-06-2				
9.275	9.275	(0.936)	62	1424249	50.0000	55.189	80.00- 120.00	100.00		
9.275	9.275	(0.936)	64	475387			3.38- 63.38	33.38		
-----										
90	Heptane					CAS #: 142-82-5				
9.469	9.469	(0.955)	100	372161	50.0000	59.150	80.00- 120.00	100.00		
9.469	9.469	(0.955)	43	2908022			751.39- 811.39	781.39		
9.469	9.469	(0.955)	71	1125638			272.46- 332.46	302.46		
-----										
93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	1232331	50.0000	53.936	80.00- 120.00	100.00		
10.326	10.326	(1.042)	130	1164486			64.49- 124.49	94.49		
10.326	10.326	(1.042)	97	797550			34.72- 94.72	64.72		
-----										
98	1,2-Dichloropropane					CAS #: 78-87-5				
10.852	10.852	(1.095)	63	1211107	50.0000	54.671	80.00- 120.00	100.00		
10.824	10.824	(1.092)	62	836213			39.05- 99.05	69.05		
10.824	10.824	(1.092)	41	807190			36.65- 96.65	66.65		
-----										
99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	708188	50.0000	55.044	80.00- 120.00	100.00		
11.073	11.073	(1.117)	58	651545			62.00- 122.00	92.00		
11.073	11.073	(1.117)	57	203324			0.00- 58.71	28.71		
-----										
100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	1775227	50.0000	55.572	80.00- 120.00	100.00		
11.405	11.405	(1.151)	85	1148990			34.72- 94.72	64.72		
-----										
103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	1313299	50.0000	58.006	80.00- 120.00	100.00		
12.317	12.317	(1.243)	77	397718			0.28- 60.28	30.28		
12.317	12.317	(1.243)	39	962609			43.30- 103.30	73.30		
-----										
106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.593	12.593	(1.271)	58	1089972	50.0000	59.062	80.00- 120.00	100.00		
12.593	12.593	(1.271)	43	3042244			249.11- 309.11	279.11		
12.593	12.593	(1.271)	85	356294			2.69- 62.69	32.69		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	3149555	50.0000	54.198	80.00- 120.00	100.00	
12.815	12.815	(1.293)	92	1878571			29.65- 89.65	59.65	
-----									
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	1282039	50.0000	59.291	80.00- 120.00	100.00	
13.368	13.368	(0.891)	77	409698			1.96- 61.96	31.96	
13.368	13.368	(0.891)	39	882256			38.82- 98.82	68.82	
-----									
114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	1060223	50.0000	54.967	80.00- 120.00	100.00	
13.644	13.644	(0.910)	99	674672			33.63- 93.63	63.63	
13.644	13.644	(0.910)	83	908942			55.73- 115.73	85.73	
-----									
116 Tetrachloroethene						CAS #: 127-18-4			
13.699	13.699	(0.913)	166	1227356	50.0000	54.744	80.00- 120.00	100.00	
13.699	13.699	(0.913)	129	984805			50.24- 110.24	80.24	
13.699	13.699	(0.913)	131	962472			48.42- 108.42	78.42	
-----									
119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	1509153	50.0000	56.088	80.00- 120.00	100.00	
14.004	14.004	(0.934)	43	2997890			168.65- 228.65	198.65	
14.031	14.031	(0.935)	100	225645			0.00- 44.95	14.95	
-----									
120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	1545103	50.0000	57.250	80.00- 120.00	100.00	
14.197	14.197	(0.947)	127	1216596			48.74- 108.74	78.74	
-----									
122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	1614283	50.0000	57.095	80.00- 120.00	100.00	
14.363	14.363	(0.958)	109	1513177			63.74- 123.74	93.74	
-----									
126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	2422375	50.0000	55.002	80.00- 120.00	100.00	
15.027	15.027	(1.002)	114	770695			1.82- 61.82	31.82	
15.027	15.027	(1.002)	77	1496728			31.79- 91.79	61.79	
-----									
128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	1368971	50.0000	57.535	80.00- 120.00	100.00	
15.165	15.165	(1.011)	91	4502915			298.93- 358.93	328.93	
-----									
130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	1683589	50.0000	57.610	80.00- 120.00	100.00	
15.331	15.331	(1.022)	91	3631728			185.71- 245.71	215.71	
-----									
132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	1561970	50.0000	56.206	80.00- 120.00	100.00	



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	3522055			195.49- 255.49	225.49	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	2483828	50.0000	60.620	80.00- 120.00	100.00	
15.911	15.911	(1.061)	78	1301372			22.39- 82.39	52.39	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	1400605	50.0000	58.234	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	717301			21.21- 81.21	51.21	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	2360572	50.0000	56.324	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	1502138			33.63- 93.63	63.63	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	4900605	50.0000	59.766	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1443784			0.00- 59.46	29.46	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	4416287	50.0000	59.587	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	2089426			17.31- 77.31	47.31	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	3716466	50.0000	59.111	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1713727			16.11- 76.11	46.11	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	2443521	50.0000	54.898	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1563539			33.99- 93.99	63.99	
17.764	17.764	(1.184)	111	1008640			11.28- 71.28	41.28	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2963344	50.0000	56.806	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1875291			33.28- 93.28	63.28	
17.847	17.847	(1.190)	111	1248063			12.12- 72.12	42.12	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	4486516	50.0000	68.302	80.00- 120.00	100.00	
17.985	17.985	(1.199)	126	846690			0.00- 48.87	18.87	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	2492645	50.0000	53.244	80.00- 120.00	100.00	
18.206	18.206	(1.214)	148	1561440			32.64- 92.64	62.64	
18.206	18.206	(1.214)	111	1035282			11.53- 71.53	41.53	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	1744262	50.0000	52.490	80.00- 120.00	100.00	
19.506	19.506	(1.300)	182	1638315			63.93- 123.93	93.93	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	1242599	50.0000	53.225	80.00- 120.00	100.00	
19.589	19.589	(1.306)	223	778986			32.69- 92.69	62.69	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	5828519	50.0000	60.396	80.00- 120.00	100.00	
16.824	16.824	(1.122)	120	1254651			0.00- 51.53	21.53	
16.824	16.824	(1.122)	105	202539			0.00- 33.47	3.47	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	4756734	50.0000	56.452	80.00- 120.00	100.00	
16.326	16.326	(1.088)	120	1291385			0.00- 57.15	27.15	
16.326	16.326	(1.088)	51	661182			0.00- 43.90	13.90	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	6436561	50.0000	58.157	80.00- 120.00	100.00	
19.672	19.672	(1.312)	127	794729			0.00- 42.35	12.35	
-----									
17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	2293671	50.0000	52.156	80.00- 120.00	100.00	
3.414	3.414	(0.424)	57	1474529			34.29- 94.29	64.29	
3.414	3.414	(0.424)	72	150731			0.00- 36.57	6.57	
-----									
11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	391826	50.0000	52.258	80.00- 120.00	100.00	
2.667	2.667	(0.331)	43	2841502			695.19- 755.19	725.19	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	1820696	50.0000	55.960	80.00- 120.00	100.00	
10.547	10.547	(1.064)	98	909326			19.94- 79.94	49.94	
10.547	10.547	(1.064)	55	1974573			78.45- 138.45	108.45	
-----									

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111211.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	355243	0.00
92 1,4-Difluorobenze	1306915	784149	1829681	1306915	0.00
125 Chlorobenzene-d5	1023463	614078	1432848	1023463	0.00

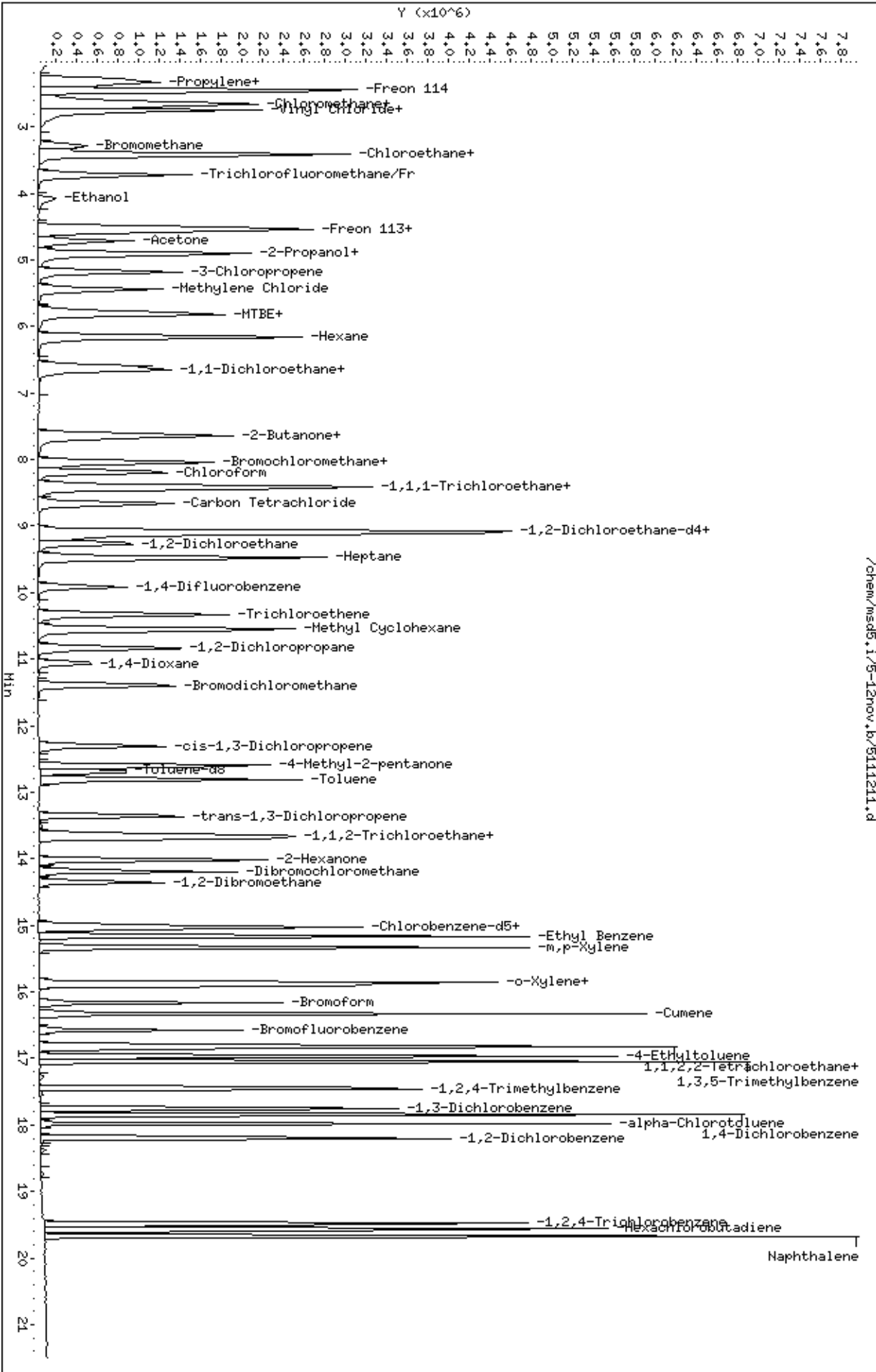
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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: 13-Nov-2007 13:20

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111212.d  
 Lab Smp Id: ICAL Client Smp ID: Level 6  
 Inj Date : 12-NOV-2007 15:41  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 100mL #1576-89  
 Misc Info : 200ppbv -> 100ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 15:41 Cal File: 5111212.d  
 Als bottle: 1 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	362309	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	281606				42.76- 102.76	77.73
8.059	8.059	(1.000)	49	764495				173.18- 233.18	211.01
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.911	(1.000)	114	1394945	25.0000			70.00- 130.00	100.00
9.911	9.911	(1.000)	88	227570				0.00- 46.42	16.31
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1101731	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	629454				0.00- 30.00	57.13
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	556149	25.0000	25.645		70.00- 130.00	100.00
9.110	9.110	(1.130)	67	330557				0.00- 30.00	59.44
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1217578	25.0000	24.723		70.00- 130.00	100.00
12.704	12.704	(1.282)	70	125916				0.00- 30.00	10.34

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	850099			0.00- 30.00	69.82		
-----										
\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	629857	25.0000	24.502	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	1021545			128.71- 188.71	162.19		
16.575	16.575	(1.105)	176	610035			68.26- 128.26	96.85		
-----										
6 Propylene										
						CAS #: 115-07-1				
2.280	2.280	(0.283)	41	2591741	100.000	102.48	70.00- 130.00	100.00		
2.280	2.280	(0.283)	42	1728444			0.00- 30.00	66.69		
2.280	2.280	(0.283)	39	1780659			0.00- 30.00	68.71		
-----										
8 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.335	2.335	(0.290)	85	4936969	100.000	115.24	70.00- 130.00	100.00		
2.335	2.335	(0.290)	87	1597861			0.00- 30.00	32.37		
-----										
9 Freon 114										
						CAS #: 76-14-2				
2.474	2.474	(0.307)	135	4042630	100.000	103.40	70.00- 130.00	100.00		
2.474	2.474	(0.307)	137	1282118			2.29- 62.29	31.71		
-----										
10 Chloromethane										
						CAS #: 74-87-3				
2.612	2.612	(0.324)	50	3405993	100.000	105.88	70.00- 130.00	100.00		
2.612	2.612	(0.324)	52	1041620			0.00- 30.00	30.58		
-----										
13 Vinyl Chloride										
						CAS #: 75-01-4				
2.778	2.778	(0.345)	62	3220830	100.000	104.02	70.00- 130.00	100.00		
2.778	2.778	(0.345)	64	1008251			0.00- 30.00	31.30		
-----										
12 1,3-Butadiene										
						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	2935038	100.000	110.99	70.00- 130.00	100.00		
2.750	2.750	(0.341)	39	2947538			0.00- 30.00	100.43		
-----										
15 Bromomethane										
						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	2153199	100.000	107.72	70.00- 130.00	100.00		
3.276	3.276	(0.406)	96	2023282			65.07- 125.07	93.97		
-----										
19 Chloroethane										
						CAS #: 75-00-3				
3.414	3.414	(0.424)	64	1565896	100.000	99.424	70.00- 130.00	100.00		
3.414	3.414	(0.424)	49	445169			0.00- 30.00	28.43		
3.414	3.414	(0.424)	66	461281			0.00- 30.00	29.46		
-----										
20 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	4911495	100.000	105.15	70.00- 130.00	100.00		
3.718	3.718	(0.461)	103	3183710			34.56- 94.56	64.82		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.105	4.105	(0.509)	45	1045340	100.000	103.02	70.00- 130.00	100.00	
4.077	4.077	(0.506)	43	190328			0.00- 30.00	18.21	
4.105	4.105	(0.509)	46	413290			0.00- 30.00	39.54	
-----									
30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	3009266	100.000	103.61	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	1866918			33.43- 93.43	62.04	
4.520	4.520	(0.561)	101	4188633			108.48- 168.48	139.19	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	4078882	100.000	106.12	70.00- 130.00	100.00	
4.575	4.575	(0.568)	96	2277835			27.13- 87.13	55.84	
4.575	4.575	(0.568)	98	1453379			5.60- 65.60	35.63	
-----									
32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	1567044	100.000	109.00	70.00- 130.00	100.00	
4.713	4.713	(0.585)	43	4681900			0.00- 30.00	298.77	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	5612024	100.000	109.69	70.00- 130.00	100.00	
4.907	4.907	(0.609)	43	1154075			0.00- 30.00	20.56	
4.935	4.935	(0.612)	59	198977			0.00- 30.00	3.55	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	7167211	100.000	110.11	70.00- 130.00	100.00	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.183	5.183	(0.643)	76	1153842	100.000	106.46	70.00- 130.00	100.00	
5.183	5.183	(0.643)	41	4405012			0.00- 30.00	381.77	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	3421033	100.000	104.09	70.00- 130.00	100.00	
5.460	5.460	(0.677)	84	1995352			29.81- 89.81	58.33	
5.432	5.432	(0.674)	51	1046132			0.00- 30.00	30.58	
-----									
46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	2289440	100.000	92.537	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	733908			1.68- 61.68	32.06	
5.764	5.764	(0.715)	41	781870			0.00- 30.00	34.15	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	2568670	100.000	110.34	70.00- 130.00	100.00	
5.819	5.819	(0.722)	61	4104175			133.65- 193.65	159.78	
5.819	5.819	(0.722)	98	1632808			0.00- 30.00	63.57	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	5269145	100.000	111.31	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	3621749			0.00- 30.00	68.74	
6.151	6.151	(0.763)	86	743039			0.00- 30.00	14.10	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.593	6.593	(0.818)	63	4598639	100.000	109.10	70.00- 130.00	100.00	
6.593	6.593	(0.818)	65	1401480			0.52- 60.52	30.48	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	1140456	100.000	112.12	70.00- 130.00	100.00	
7.644	7.644	(0.949)	43	6545068			536.33- 596.33	573.90	
7.644	7.644	(0.949)	57	442595			0.00- 30.00	38.81	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	3372749	100.000	106.57	70.00- 130.00	100.00	
7.617	7.617	(0.945)	96	2273619			37.56- 97.56	67.41	
7.617	7.617	(0.945)	98	1458637			14.52- 74.52	43.25	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	3862336	100.000	101.98	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	1005813			0.00- 55.74	26.04	
8.031	8.031	(0.997)	72	1059045			0.00- 30.00	27.42	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	3865056	100.000	108.23	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	2482837			35.19- 95.19	64.24	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.446	8.446	(1.048)	97	3815620	100.000	106.89	70.00- 130.00	100.00	
8.418	8.418	(1.045)	99	2483612			33.02- 93.02	65.09	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	3142908	100.000	109.30	70.00- 130.00	100.00	
8.418	8.418	(1.045)	56	5009806			126.11- 186.11	159.40	
8.391	8.391	(1.041)	41	2756840			55.82- 115.82	87.72	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.649	6.649	(0.825)	86	618984	100.000	115.92	70.00- 130.00	100.00	
6.649	6.649	(0.825)	43	7909568			0.00- 30.00	1277.83	
6.649	6.649	(0.825)	42	576336			0.00- 30.00	93.11	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	3324674	100.000	112.80	70.00- 130.00	100.00	
8.667	8.667	(1.075)	117	3444612			75.98- 135.98	103.61	
-----									



AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	14667384	100.000	113.00	70.00- 130.00	100.00		
9.110	9.110	(1.130)	56	4774429			0.00- 30.00	32.55		
9.110	9.110	(1.130)	41	3713992			0.00- 30.00	25.32		
-----										
81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	6443717	100.000	107.17	70.00- 130.00	100.00		
9.082	9.082	(0.916)	77	1479096			0.00- 30.00	22.95		
-----										
85	1,2-Dichloroethane					CAS #: 107-06-2				
9.275	9.275	(0.936)	62	2980908	100.000	108.22	70.00- 130.00	100.00		
9.275	9.275	(0.936)	64	935537			0.00- 30.00	31.38		
-----										
90	Heptane					CAS #: 142-82-5				
9.497	9.497	(0.958)	100	768289	100.000	114.40	70.00- 130.00	100.00		
9.469	9.469	(0.955)	43	5921486			0.00- 30.00	770.74		
9.469	9.469	(0.955)	71	2319652			0.00- 30.00	301.92		
-----										
93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	2531522	100.000	103.80	70.00- 130.00	100.00		
10.326	10.326	(1.042)	130	2370571			64.49- 124.49	93.64		
10.326	10.326	(1.042)	97	1632142			34.72- 94.72	64.47		
-----										
98	1,2-Dichloropropane					CAS #: 78-87-5				
10.851	10.851	(1.095)	63	2444067	100.000	103.36	70.00- 130.00	100.00		
10.851	10.851	(1.095)	62	1742633			39.05- 99.05	71.30		
10.824	10.824	(1.092)	41	1706739			36.65- 96.65	69.83		
-----										
99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	1444101	100.000	105.16	70.00- 130.00	100.00		
11.045	11.045	(1.114)	58	1358709			62.00- 122.00	94.09		
11.045	11.045	(1.114)	57	421008			0.00- 30.00	29.15		
-----										
100	Bromodichloromethane					CAS #: 75-27-4				
11.404	11.404	(1.151)	83	3686686	100.000	108.12	70.00- 130.00	100.00		
11.404	11.404	(1.151)	85	2353475			34.72- 94.72	63.84		
-----										
103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	2762200	100.000	114.30	70.00- 130.00	100.00		
12.317	12.317	(1.243)	77	825604			0.28- 60.28	29.89		
12.289	12.289	(1.240)	39	1995795			43.30- 103.30	72.25		
-----										
106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.593	12.593	(1.271)	58	2267876	100.000	115.13	70.00- 130.00	100.00		
12.593	12.593	(1.271)	43	6376954			0.00- 30.00	281.19		
12.593	12.593	(1.271)	85	737054			0.00- 30.00	32.50		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	6367014	100.000	102.65	70.00- 130.00	100.00	
12.815	12.815	(1.293)	92	3757228			29.65- 89.65	59.01	
-----									
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	2753871	100.000	118.31	70.00- 130.00	100.00	
13.368	13.368	(0.891)	77	862721			1.96- 61.96	31.33	
13.340	13.340	(0.889)	39	1883829			38.82- 98.82	68.41	
-----									
114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	2175838	100.000	104.79	70.00- 130.00	100.00	
13.644	13.644	(0.910)	99	1345223			33.63- 93.63	61.83	
13.644	13.644	(0.910)	83	1807881			55.73- 115.73	83.09	
-----									
116 Tetrachloroethene						CAS #: 127-18-4			
13.699	13.699	(0.913)	166	2471030	100.000	102.39	70.00- 130.00	100.00	
13.699	13.699	(0.913)	129	1991710			50.24- 110.24	80.60	
13.699	13.699	(0.913)	131	1942785			48.42- 108.42	78.62	
-----									
119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	3181008	100.000	109.82	70.00- 130.00	100.00	
14.004	14.004	(0.934)	43	6436176			168.65- 228.65	202.33	
14.031	14.031	(0.935)	100	503002			0.00- 30.00	15.81	
-----									
120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	3253162	100.000	111.97	70.00- 130.00	100.00	
14.197	14.197	(0.947)	127	2514914			0.00- 30.00	77.31	
-----									
122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	3320619	100.000	109.10	70.00- 130.00	100.00	
14.363	14.363	(0.958)	109	3107302			63.74- 123.74	93.58	
-----									
126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	4886903	100.000	103.08	70.00- 130.00	100.00	
15.027	15.027	(1.002)	114	1546858			1.82- 61.82	31.65	
15.027	15.027	(1.002)	77	3017918			31.79- 91.79	61.76	
-----									
128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	2675495	100.000	104.46	70.00- 130.00	100.00	
15.165	15.165	(1.011)	91	9072718			0.00- 30.00	339.10	
-----									
130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	3435495	100.000	109.20	70.00- 130.00	100.00	
15.331	15.331	(1.022)	91	7334004			0.00- 30.00	213.48	
-----									
132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	3218448	100.000	107.58	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	7280732			195.49- 255.49	226.22	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	5132999	100.000	116.38	70.00- 130.00	100.00	
15.911	15.911	(1.061)	78	2701016			22.39- 82.39	52.62	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	2829830	100.000	109.30	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	1476899			21.21- 81.21	52.19	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	4764204	100.000	105.60	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	3047016			33.63- 93.63	63.96	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	10073530	100.000	114.13	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	2874204			0.00- 59.46	28.53	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	9098092	100.000	114.04	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	4188565			0.00- 30.00	46.04	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	7592274	100.000	112.18	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	3445930			16.11- 76.11	45.39	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	4936158	100.000	103.02	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	3149621			0.00- 30.00	63.81	
17.764	17.764	(1.184)	111	2021086			0.00- 30.00	40.94	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	6039588	100.000	107.55	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	3761986			0.00- 30.00	62.29	
17.847	17.847	(1.190)	111	2601264			0.00- 30.00	43.07	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	9864888	100.000	139.51	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	1849741			0.00- 30.00	18.75	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	5182397	100.000	102.84	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	3320571			32.64- 92.64	64.07	
18.206	18.206	(1.214)	111	2125741			11.53- 71.53	41.02	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	3562078	100.000	99.579	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	3343294			63.93- 123.93	93.86	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	2481075	100.000	98.724	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	1537358			32.69- 92.69	61.96	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	11634048	100.000	111.99	70.00- 130.00	100.00	
16.824	16.824	(1.122)	120	2469759			0.00- 30.00	21.23	
16.824	16.824	(1.122)	105	398750			0.00- 30.00	3.43	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	9672736	100.000	106.64	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	2545654			0.00- 30.00	26.32	
16.326	16.326	(1.088)	51	1381671			0.00- 30.00	14.28	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	13517916	100.000	113.46	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	1684760			0.00- 30.00	12.46	
-----									
17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	4628579	100.000	103.20	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	2949004			0.00- 30.00	63.71	
3.414	3.414	(0.424)	72	289136			0.00- 30.00	6.25	
-----									
11	Butane					CAS #: 106-97-8			
2.695	2.695	(0.334)	58	775812	100.000	101.45	70.00- 130.00	100.00	
2.695	2.695	(0.334)	43	5714173			0.00- 30.00	736.54	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	3726328	100.000	107.30	70.00- 130.00	100.00	
10.547	10.547	(1.064)	98	1818897			0.00- 30.00	48.81	
10.547	10.547	(1.064)	55	4140939			0.00- 30.00	111.13	
-----									

Report Date: 13-Nov-2007 13:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111212.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 100ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	362309	1.99
92 1,4-Difluorobenze	1306915	784149	1829681	1394945	6.74
125 Chlorobenzene-d5	1023463	614078	1432848	1101731	7.65

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

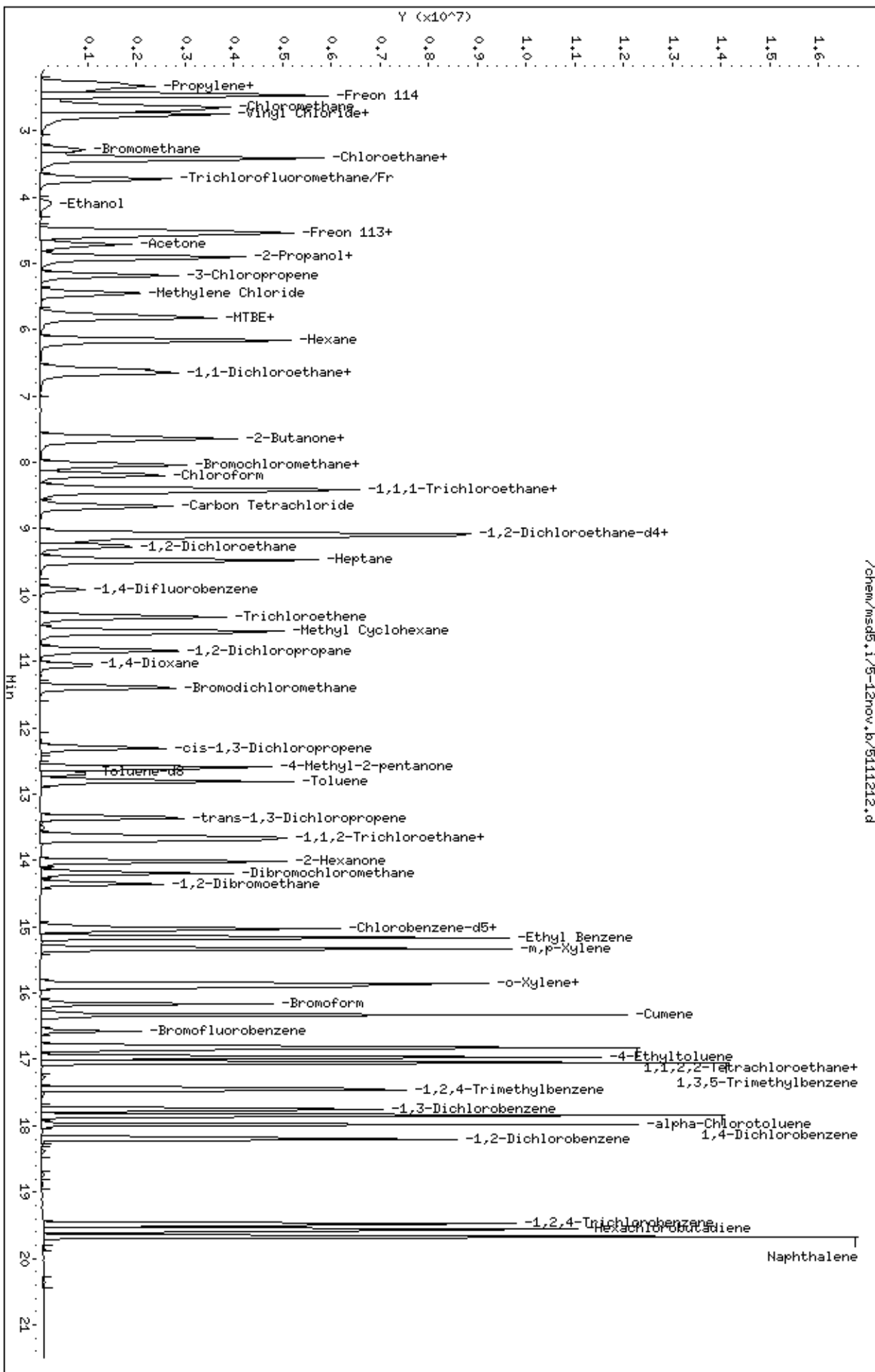
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-12nov.b/5111212.d  
Date: 12-NOV-2007 15:41  
Client ID: Level 6  
Sample Info: 100mL #1576-89

Column phase: RTX-624

Instrument: msd5.1  
Operator: cb  
Column diameter: 0.53

/chem/msd5.1/5-12nov.b/5111212.d



Report Date: 27-Nov-2007 15:31

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-27nov.b/5112707.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 27-NOV-2007 12:08  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #1443-374  
 Misc Info : 200ppbv  
 Comment :  
 Method : /chem/msd5.i/5-27nov.b/t14qn12c.m  
 Meth Date : 27-Nov-2007 15:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp19b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	292008	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	228611				47.29- 107.29	78.29
8.059	8.059	(1.000)	49	634506				183.28- 243.28	217.29
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1011912	25.0000			70.00- 130.00	100.00
9.912	9.912	(1.000)	88	161742				0.00- 46.71	15.98
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	815306	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	457661				0.00- 30.00	56.13
-----									
7 Isobutane CAS #: 75-28-5									
2.502	2.502	(0.310)	43	10956154	200.000	204.54		70.00- 130.00	100.00(A)
2.502	2.502	(0.310)	42	3649588				0.00- 30.00	33.31
2.502	2.502	(0.310)	58	324251				0.00- 30.00	2.96
-----									
18 Pentane CAS #: 109-66-0									
3.801	3.801	(0.472)	43	11879225	200.000	217.13		70.00- 130.00	100.00(A)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
18 Pentane (continued)									
3.801	3.801	(0.472)	57	1697893			0.00- 30.00	14.29	
3.801	3.801	(0.472)	72	987894			0.00- 30.00	8.32	
-----									
25 Acrolein						CAS #: 107-02-8			
4.492	4.492	(0.557)	55	1613223	200.000	236.63	70.00- 130.00	100.00(A)	
4.492	4.492	(0.557)	56	2291472			0.00- 30.00	142.04	
-----									
39 Acrylonitrile						CAS #: 107-13-1			
5.930	5.930	(0.736)	53	4870715	200.000	226.34	70.00- 130.00	100.00(A)	
5.930	5.930	(0.736)	52	3665944			0.00- 30.00	75.27	
-----									
42 1-Pentene						CAS #: 109-67-1			
3.746	3.746	(0.465)	55	6311026	200.000	213.79	70.00- 130.00	100.00(TA)	
3.746	3.746	(0.465)	42	8977985			0.00- 30.00	142.26	
0.000	1.000	(0.000)	0	0			0.00- 30.00	0.00	
-----									
44 Ethyl Ether						CAS #: 60-29-7			
4.160	4.160	(0.516)	74	2422443	200.000	216.92	70.00- 130.00	100.00(TA)	
4.160	4.160	(0.516)	59	4103622			0.00- 30.00	169.40	
0.000	1.000	(0.000)	31	0			0.00- 30.00	0.00	
-----									
53 Iodomethane						CAS #: 74-88-4			
4.852	4.852	(0.602)	142	8300306	200.000	214.25	70.00- 130.00	100.00(A)	
4.852	4.852	(0.602)	127	2702327			0.00- 30.00	32.56	
-----									
58 1-Hexene						CAS #: 592-41-6			
6.041	6.041	(0.750)	55	3937252	200.000	230.04	70.00- 130.00	100.00(A)	
6.041	6.041	(0.750)	41	6021255			0.00- 30.00	152.93	
6.041	6.041	(0.750)	84	1242160			0.00- 30.00	31.55	
-----									
62 Methyl Acrylate						CAS #: 96-33-3			
7.783	7.783	(0.966)	55	8563472	200.000	249.39	70.00- 130.00	100.00(A)	
7.783	7.783	(0.966)	85	1022521			0.00- 30.00	11.94	
7.783	7.783	(0.966)	58	775887			0.00- 30.00	9.06	
-----									
86 2-Pentanone						CAS #: 107-87-9			
10.796	10.796	(1.089)	43	12448831	200.000	246.92	70.00- 130.00	100.00(A)	
10.796	10.796	(1.089)	58	864970			0.00- 30.00	6.95	
10.796	10.796	(1.089)	86	1531382			0.00- 30.00	12.30	
-----									
88 Ethyl Acrylate						CAS #: 140-88-5			
10.603	10.603	(1.070)	55	9381427	200.000	241.38	70.00- 130.00	100.00(A)	
10.630	10.630	(1.073)	99	504390			0.00- 30.00	5.38	
10.603	10.603	(1.070)	45	999353			0.00- 30.00	10.65	
-----									



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
95 Dibromomethane			CAS #: 74-95-3						
11.073	11.073	(1.117)	174	2700745	200.000	213.73	70.00- 130.00	100.00(A)	
11.073	11.073	(1.117)	93	3037775			0.00- 30.00	112.48	
11.073	11.073	(1.117)	95	2547353			0.00- 30.00	94.32	
-----									
96 Methyl Methacrylate			CAS #: 80-62-6						
11.073	11.073	(1.117)	41	6484005	200.000	239.52	70.00- 130.00	100.00(A)	
11.073	11.073	(1.117)	69	3076497			0.00- 30.00	47.45	
11.073	11.073	(1.117)	100	1197569			0.00- 30.00	18.47	
-----									
112 Alphamethylstyrene			CAS #: 98-83-9						
17.294	17.294	(1.153)	118	5959126	200.000	253.24	70.00- 130.00	100.00(A)	
17.294	17.294	(1.153)	103	3515220			0.00- 30.00	58.99	
-----									
117 Bis(2-chloroethyl) ether			CAS #: 111-44-4						
17.709	17.709	(1.181)	93	6541008	200.000	235.52	70.00- 130.00	100.00(A)	
17.709	17.709	(1.181)	95	2074279			0.00- 30.00	31.71	
17.709	17.709	(1.181)	63	5507058			0.00- 30.00	84.19	
-----									
127 Nonane			CAS #: 111-84-2						
15.303	15.303	(1.020)	43	10713070	200.000	234.42	70.00- 130.00	100.00(A)	
15.331	15.331	(1.022)	57	8243126			0.00- 30.00	76.94	
15.331	15.331	(1.022)	85	2319331			0.00- 30.00	21.65	
-----									

QC Flag Legend

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

Report Date: 27-Nov-2007 15:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 27-NOV-2007

Lab File ID: 5112707.d

Calibration Time: 09:21

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-27nov.b/t14qn12c.m

Misc Info: 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	351932	211159	492705	292008	-17.03
92 1,4-Difluorobenze	1207474	724484	1690464	1011912	-16.20
125 Chlorobenzene-d5	945809	567485	1324133	815306	-13.80

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-27nov.b/5112707.d

Date: 27-NOV-2007 12:08

Client ID: Level 7

Sample Info: 200mL #1443-374

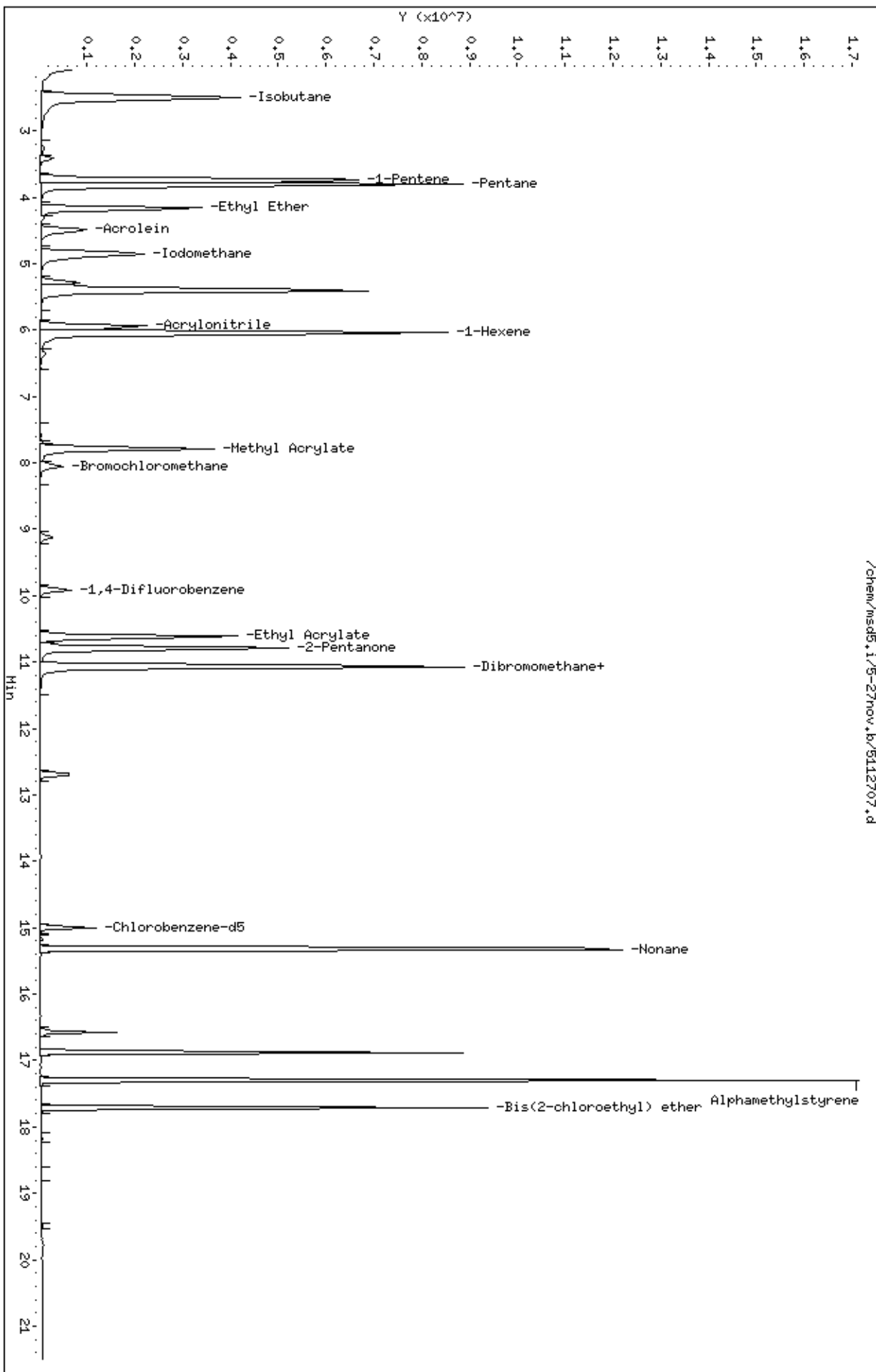
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-27nov.b/5112707.d



Report Date: 20-Nov-2007 15:39

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-19nov.b/5111904.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 19-NOV-2007 02:57  
 Operator : sjr Inst ID: msd5.i  
 Smp Info : 200mL #1487-405  
 Misc Info : 200ppbv -> 200ppbv  
 Comment :  
 Method : /chem/msd5.i/5-19nov.b/t14qn12b.m  
 Meth Date : 20-Nov-2007 15:39 ctaylor Quant Type: ISTD  
 Cal Date : 19-NOV-2007 02:57 Cal File: 5111904.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp21b.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	TARGET RANGE	RATIO	
				( PPBV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
* 71	Bromochloromethane					CAS #:	74-97-5		
8.059	8.059	(1.000)	130	343138	25.0000		70.00-	130.00	100.00
8.059	8.059	(1.000)	128	270425			47.38-	107.38	78.81
8.059	8.059	(1.000)	49	766186			197.25-	257.25	223.29
-----									
* 92	1,4-Difluorobenzene					CAS #:	540-36-3		
9.912	9.912	(1.000)	114	1331702	25.0000		70.00-	130.00	100.00
9.912	9.912	(1.000)	88	197405			0.00-	47.51	14.82
-----									
* 125	Chlorobenzene-d5					CAS #:	3114-55-4		
14.999	14.999	(1.000)	117	994154	25.0000		70.00-	130.00	100.00
14.999	14.999	(1.000)	82	589200			0.00-	30.00	59.27
-----									
1	Freon134a					CAS #:	811-97-2		
2.225	2.225	(0.276)	83	2822475	200.000	198.64	70.00-	130.00	100.00
2.197	2.197	(0.273)	69	12292152			0.00-	30.00	435.51
-----									
3	Freon 152a					CAS #:	75-37-6		
2.280	2.280	(0.283)	65	2698998	200.000	211.17	70.00-	130.00	100.00(A)
2.363	2.363	(0.293)	51	13971311			0.00-	30.00	517.65
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
4 Freon 22						CAS #: 75-45-6			
2.363	2.363	(0.293)	67	765522	200.000	193.31	70.00- 130.00	100.00	
2.363	2.363	(0.293)	51	13848942			0.00- 30.00	1809.08	
-----									
5 Freon142b						CAS #: 75-68-3			
2.557	2.557	(0.317)	65	5656340	200.000	221.99	70.00- 130.00	100.00(A)	
2.557	2.557	(0.317)	45	1828730			0.00- 30.00	32.33	
-----									
16 Dichlorofluoromethane/Fr21						CAS #: 75-43-4			
3.746	3.746	(0.465)	67	6310190	200.000	205.50	70.00- 130.00	100.00(TA)	
3.746	3.746	(0.465)	69	1881367			0.00- 30.00	29.81	
0.000	1.000	(0.000)	35	0			0.00- 30.00	0.00	
-----									
22 Freon123a						CAS #: 354-23-4			
4.299	4.299	(0.533)	117	3567672	200.000	209.65	70.00- 130.00	100.00(A)	
4.299	4.299	(0.533)	67	5067373			0.00- 30.00	142.04	
-----									
24 Freon123						CAS #: 306-83-2			
4.409	4.409	(0.547)	83	6759738	200.000	211.63	70.00- 130.00	100.00(A)	
4.409	4.409	(0.547)	133	1059607			0.00- 30.00	15.68	
4.409	4.409	(0.547)	85	4429960			0.00- 30.00	65.53	
-----									
37 tert-Butyl-Alcohol						CAS #: 75-65-0			
5.571	5.571	(0.691)	59	2326170	200.000	130.45	70.00- 130.00	100.00	
5.571	5.571	(0.691)	41	747973			0.00- 30.00	32.15	
5.571	5.571	(0.691)	57	252239			0.00- 30.00	10.84	
-----									
49 Isopropyl ether						CAS #: 108-20-3			
6.594	6.594	(0.818)	45	19030534	200.000	221.98	70.00- 130.00	100.00(A)	
6.594	6.594	(0.818)	87	3450126			0.00- 30.00	18.13	
6.594	6.594	(0.818)	59	1842568			0.00- 30.00	9.68	
-----									
57 Ethyl-tert-butyl Ether						CAS #: 637-92-3			
7.202	7.202	(0.894)	59	6528854	200.000	198.99	70.00- 130.00	100.00	
7.202	7.202	(0.894)	87	2135083			0.00- 30.00	32.70	
7.202	7.202	(0.894)	41	1374641			0.00- 30.00	21.05	
-----									
61 Ethyl Acetate						CAS #: 141-78-6			
7.700	7.700	(0.955)	70	927220	200.000	231.95	70.00- 130.00	100.00(A)	
7.700	7.700	(0.955)	43	11648831			0.00- 30.00	1256.32	
7.700	7.700	(0.955)	61	1400945			0.00- 30.00	151.09	
-----									
64 1-Propanol						CAS #: 71-23-8			
6.787	6.787	(0.842)	42	957247	200.000	267.57	70.00- 130.00	100.00(A)	
6.787	6.787	(0.842)	59	954733			0.00- 30.00	99.74	
6.787	6.787	(0.842)	41	583962			0.00- 30.00	61.00	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
76 Isobutanol						CAS #: 78-83-1			
9.082	9.082	(0.916)	43	4496367	200.000	234.43	70.00- 130.00	100.00(A)	
9.082	9.082	(0.916)	41	3057760			0.00- 30.00	68.01	
-----									
78 tert-amyl-Methyl Ether						CAS #: 994-05-8			
9.276	9.276	(1.151)	73	4894950	200.000	186.00	70.00- 130.00	100.00	
9.276	9.276	(1.151)	87	1188343			0.00- 30.00	24.28	
9.276	9.276	(1.151)	55	2091139			0.00- 30.00	42.72	
-----									
118 Butyl Acetate						CAS #: 123-86-4			
14.197	14.197	(1.432)	56	4685613	200.000	232.17	70.00- 130.00	100.00(A)	
14.197	14.197	(1.432)	73	1304433			0.00- 30.00	27.84	
14.197	14.197	(1.432)	43	12061971			0.00- 30.00	257.43	
-----									
131 2-Heptanone						CAS #: 110-43-0			
16.077	16.077	(1.072)	58	7288423	200.000	246.65	70.00- 130.00	100.00(A)	
16.077	16.077	(1.072)	43	12754387			0.00- 30.00	175.00	
-----									
135 Cyclohexanone						CAS #: 108-94-1			
16.520	16.520	(1.101)	55	5982602	200.000	226.08	70.00- 130.00	100.00(A)	
16.520	16.520	(1.101)	98	1904727			0.00- 30.00	31.84	
16.520	16.520	(1.101)	42	4318876			0.00- 30.00	72.19	
-----									
146 Diisobutyl Ketone						CAS #: 108-83-8			
17.211	17.211	(1.147)	57	15014507	200.000	215.13	70.00- 130.00	100.00(A)	
17.211	17.211	(1.147)	85	9264937			30.87- 90.87	61.71	
-----									

QC Flag Legend

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

Report Date: 20-Nov-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 19-NOV-2007

Lab File ID: 5111904.d

Calibration Time: 02:24

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msd5.i/5-19nov.b/t14qn12b.m

Misc Info: 200ppbv -&gt; 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	320182	192109	448255	343138	7.17
92 1,4-Difluorobenze	1222930	733758	1712102	1331702	8.89
125 Chlorobenzene-d5	969063	581438	1356688	994154	2.59

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-19nov.b/5111904.d

Date: 19-NOV-2007 02:57

Client ID: Level 7

Sample Info: 200mL #1487-405

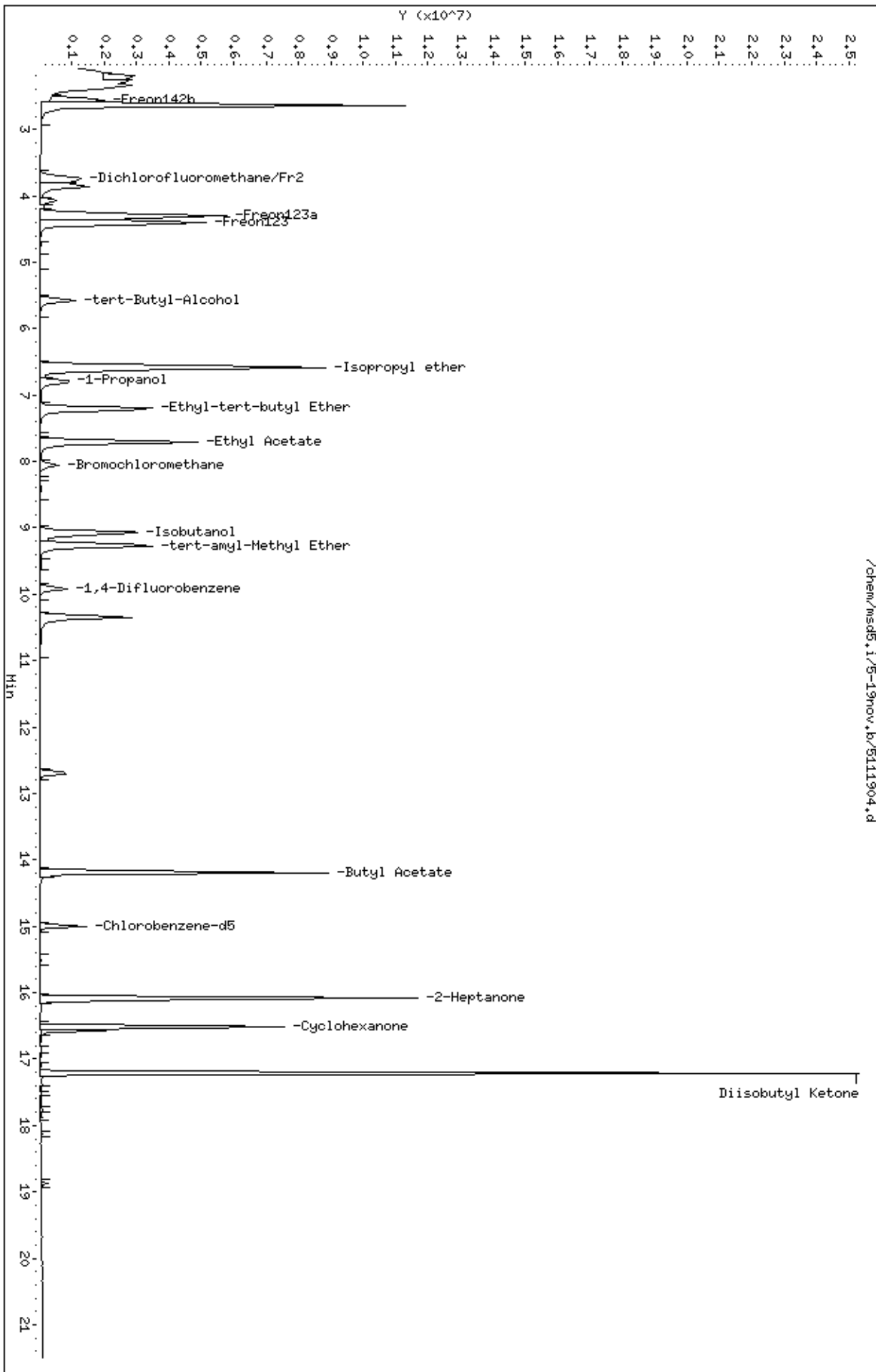
Column phase: RTX-624

Instrument: msd5.1

Operator: sjr

Column diameter: 0.53

/chem/msd5.1/5-19nov.b/5111904.d





Report Date: 13-Nov-2007 13:25

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111218.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 12-NOV-2007 20:20  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #1487-404  
 Misc Info : 200ppbv -> 200ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:25 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 20:20 Cal File: 5111218.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp20a.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	380418	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	291580			47.79- 107.79	76.65	
8.031	8.031	(1.000)	49	799092			186.23- 246.23	210.06	
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1363143	25.0000		70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	229507			0.00- 46.01	16.84	
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1062928	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	616683			0.00- 30.00	58.02	
-----									
33 Methyl Acetate CAS #: 79-20-9									
5.211	5.211	(0.647)	43	12259393	200.000	217.95	70.00- 130.00	100.00(A)	
5.211	5.211	(0.647)	74	2047380			0.00- 30.00	16.70	
5.211	5.211	(0.647)	59	866635			0.00- 30.00	7.07	
-----									
52 Chloroprene CAS #: 126-99-8									
6.677	6.677	(0.828)	53	10072516	200.000	223.69	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
52 Chloroprene (continued)									
6.677	6.677	(0.828)	88	4358164			12.60- 72.60	43.27	
6.677	6.677	(0.828)	50	2391088			0.00- 52.95	23.74	
-----									
59 1,3-Dichloropropane CAS #: 142-28-9									
13.893	13.893	(1.402)	76	5643367	200.000	217.03	70.00- 130.00	100.00(A)	
13.893	13.893	(1.402)	41	5633681			68.80- 128.80	99.83	
13.893	13.893	(1.402)	78	1790220			0.00- 30.00	31.72	
-----									
60 2,2-Dichloropropane CAS #: 594-20-7									
7.561	7.561	(0.938)	77	5849796	200.000	222.24	70.00- 130.00	100.00(A)	
7.561	7.561	(0.938)	79	1862935			2.86- 62.86	31.85	
7.561	7.561	(0.938)	97	1314683			0.00- 30.00	22.47	
-----									
73 1,1-Dichloropropene CAS #: 563-58-6									
8.723	8.723	(1.082)	110	2156285	200.000	215.16	70.00- 130.00	100.00(A)	
8.723	8.723	(1.082)	75	5802969			0.00- 30.00	269.12	
-----									
123 1,1,1,2-Tetrachloroethane CAS #: 630-20-6									
15.193	15.193	(1.013)	131	4139143	200.000	217.85	70.00- 130.00	100.00(A)	
15.193	15.193	(1.013)	117	2866073			0.00- 30.00	69.24	
15.165	15.165	(1.011)	95	1719696			0.00- 30.00	41.55	
-----									
137 Bromobenzene CAS #: 108-86-1									
16.741	16.741	(1.116)	156	4901390	200.000	208.50	70.00- 130.00	100.00(A)	
16.741	16.741	(1.116)	77	9195353			151.57- 211.57	187.61	
16.741	16.741	(1.116)	158	4720437			0.00- 30.00	96.31	
-----									
139 1,2,3-Trichloropropane CAS #: 96-18-4									
16.852	16.852	(1.123)	110	2719560	200.000	210.85	70.00- 130.00	100.00(A)	
16.852	16.852	(1.123)	61	2348836			0.00- 30.00	86.37	
16.852	16.852	(1.123)	112	1719588			0.00- 30.00	63.23	
-----									
140 2-Chlorotoluene CAS #: 95-49-8									
16.962	16.962	(1.131)	126	4375302	200.000	222.05	70.00- 130.00	100.00(A)	
16.962	16.962	(1.131)	91	14275120			287.64- 347.64	326.27	
16.962	16.962	(1.131)	65	1397486			0.00- 30.00	31.94	
-----									
143 4-Chlorotoluene CAS #: 106-43-4									
17.100	17.100	(1.140)	126	4466011	200.000	220.88	70.00- 130.00	100.00(A)	
17.100	17.100	(1.140)	91	14535401			287.83- 347.83	325.47	
17.100	17.100	(1.140)	63	1857348			0.00- 30.00	41.59	
-----									
149 tert-Butylbenzene CAS #: 98-06-6									
17.377	17.377	(1.159)	119	18494291	200.000	226.11	70.00- 130.00	100.00(A)	
17.377	17.377	(1.159)	134	3933766			0.00- 53.69	21.27	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
149 tert-Butylbenzene (continued)									
17.377	17.377	(1.159)	91	11227307			0.00- 30.00	60.71	
-----									
150 Pentachloroethane CAS #: 76-01-7									
17.460	17.460	(1.164)	167	3427155	200.000	238.56	70.00- 130.00	100.00(A)	
17.432	17.432	(1.162)	117	3887356			0.00- 30.00	113.43	
-----									
151 sec-Butylbenzene CAS #: 135-98-8									
17.598	17.598	(1.173)	105	20306305	200.000	209.14	70.00- 130.00	100.00(A)	
17.598	17.598	(1.173)	134	4363727			0.00- 49.07	21.49	
17.598	17.598	(1.173)	91	3819852			0.00- 30.00	18.81	
-----									
153 p-Cymene CAS #: 99-87-6									
17.764	17.764	(1.184)	134	4947028	200.000	235.40	70.00- 130.00	100.00(A)	
17.764	17.764	(1.184)	119	18479267			341.15- 401.15	373.54	
17.764	17.764	(1.184)	91	4493393			0.00- 30.00	90.83	
-----									
154 1,2,3-Trimethylbenzene CAS #: 526-73-8									
17.875	17.875	(1.192)	120	6956133	200.000	230.47	70.00- 130.00	100.00(A)	
17.875	17.875	(1.192)	105	16213534			197.36- 257.36	233.08	
17.875	17.875	(1.192)	77	1812902			0.00- 30.00	26.06	
-----									
158 Butylbenzene CAS #: 104-51-8									
18.151	18.151	(1.210)	134	4435716	200.000	234.08	70.00- 130.00	100.00(A)	
18.123	18.123	(1.208)	91	18354905			393.82- 453.82	413.80	
18.123	18.123	(1.208)	92	10202168			0.00- 30.00	230.00	
-----									
160 Hexachloroethane CAS #: 67-72-1									
18.372	18.372	(1.225)	117	6549758	200.000	233.67	70.00- 130.00	100.00(A)	
18.400	18.400	(1.227)	201	4183292			0.00- 30.00	63.87	
Sum of Peak Amounts =					234				
-----									
161 1,2-Dibromo-3-Chloropropane CAS #: 96-12-8									
18.870	18.870	(1.258)	157	4780713	200.000	246.99	70.00- 130.00	100.00(A)	
18.870	18.870	(1.258)	75	5676066			92.49- 152.49	118.73	
18.870	18.870	(1.258)	155	3766945			0.00- 30.00	78.79	
-----									
166 1,2,3-Trichlorobenzene CAS #: 87-61-6									
19.865	19.865	(1.324)	180	9209537	200.000	219.56	70.00- 130.00	100.00(A)	
19.865	19.865	(1.324)	182	8636309			0.00- 30.00	93.78	
19.865	19.865	(1.324)	145	3064881			0.00- 30.00	33.28	
-----									
192 Cyclopentene CAS #: 142-29-0									
5.211	5.211	(0.647)	67	11768190	200.000	214.19	70.00- 130.00	100.00(A)	
5.211	5.211	(0.647)	68	4482374			0.00- 30.00	38.09	
5.211	5.211	(0.647)	53	2799572			0.00- 30.00	23.79	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111218.d

Calibration Time: 19:48

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv -&gt; 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	345466	207280	483652	380418	10.12
92 1,4-Difluorobenze	1312181	787309	1837053	1363143	3.88
125 Chlorobenzene-d5	1008754	605252	1412256	1062928	5.37

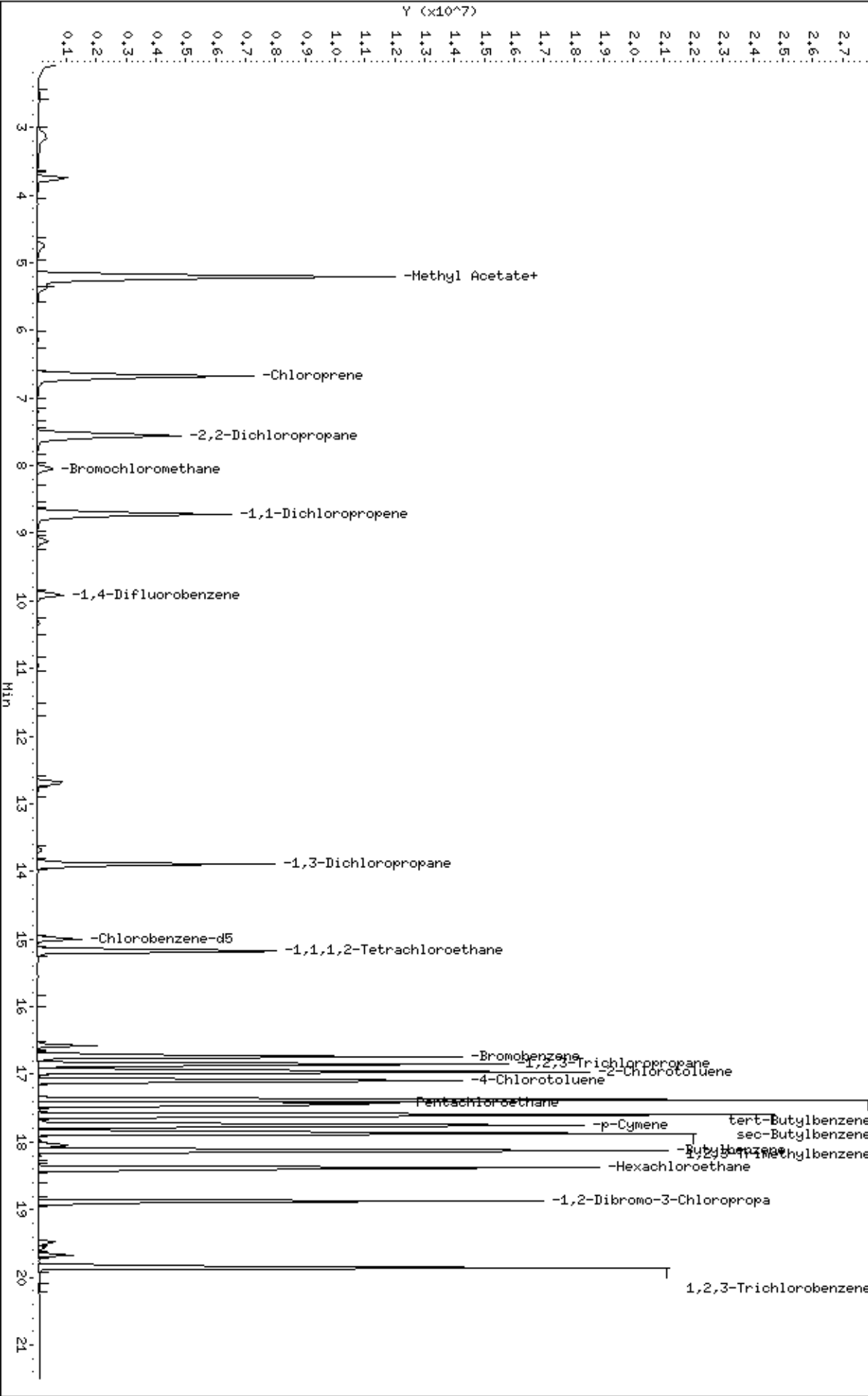
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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: 13-Nov-2007 13:21

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-12nov.b/5111213.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 12-NOV-2007 16:13  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 200mL #1576-89  
 Misc Info : 200ppbv  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:20 ctaylor Quant Type: ISTD  
 Cal Date : 12-NOV-2007 16:13 Cal File: 5111213.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	379428	25.0000			70.00- 130.00	100.00
8.059	8.059	(1.000)	128	296624				42.76- 102.76	78.18
8.059	8.059	(1.000)	49	802235				173.18- 233.18	211.43
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1473899	25.0000			70.00- 130.00	100.00
9.912	9.912	(1.000)	88	238341				0.00- 46.42	16.17
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1158184	25.0000			70.00- 130.00	100.00
14.999	14.999	(1.000)	82	685651				0.00- 30.00	59.20
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	596904	25.0000	26.283		70.00- 130.00	100.00
9.110	9.110	(1.130)	67	414836				0.00- 30.00	69.50
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1336408	25.0000	25.682		70.00- 130.00	100.00
12.704	12.704	(1.282)	70	133913				0.00- 30.00	10.02

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.704	12.704	(1.282)	100	940191			0.00- 30.00	70.35	
-----									
\$ 138 Bromofluorobenzene CAS #: 460-00-4									
16.575	16.575	(1.105)	174	686157	25.0000	25.391	70.00- 130.00	100.00	
16.575	16.575	(1.105)	95	1078230			128.71- 188.71	157.14	
16.575	16.575	(1.105)	176	661942			68.26- 128.26	96.47	
-----									
6 Propylene CAS #: 115-07-1									
2.280	2.280	(0.283)	41	5376726	200.000	203.02	70.00- 130.00	100.00(A)	
2.280	2.280	(0.283)	42	3639937			0.00- 30.00	67.70	
2.280	2.280	(0.283)	39	3684723			0.00- 30.00	68.53	
-----									
8 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
2.336	2.336	(0.290)	85	9953066	200.000	221.84	70.00- 130.00	100.00(A)	
2.336	2.336	(0.290)	87	3204362			0.00- 30.00	32.19	
-----									
9 Freon 114 CAS #: 76-14-2									
2.502	2.502	(0.310)	135	8125587	200.000	198.45	70.00- 130.00	100.00	
2.502	2.502	(0.310)	137	2547872			2.29- 62.29	31.36	
-----									
10 Chloromethane CAS #: 74-87-3									
2.640	2.640	(0.328)	50	6779536	200.000	201.24	70.00- 130.00	100.00(A)	
2.640	2.640	(0.328)	52	2029289			0.00- 30.00	29.93	
-----									
13 Vinyl Chloride CAS #: 75-01-4									
2.778	2.778	(0.345)	62	6453329	200.000	199.02	70.00- 130.00	100.00	
2.778	2.778	(0.345)	64	2007029			0.00- 30.00	31.10	
-----									
12 1,3-Butadiene CAS #: 106-99-0									
2.778	2.778	(0.345)	54	5891794	200.000	212.76	70.00- 130.00	100.00(A)	
2.778	2.778	(0.345)	39	6841437			0.00- 30.00	116.12	
-----									
15 Bromomethane CAS #: 74-83-9									
3.276	3.276	(0.406)	94	4372221	200.000	208.86	70.00- 130.00	100.00(A)	
3.276	3.276	(0.406)	96	4138619			65.07- 125.07	94.66	
-----									
19 Chloroethane CAS #: 75-00-3									
3.442	3.442	(0.427)	64	3239683	200.000	196.42	70.00- 130.00	100.00	
3.442	3.442	(0.427)	49	869249			0.00- 30.00	26.83	
3.442	3.442	(0.427)	66	945867			0.00- 30.00	29.20	
-----									
20 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
3.746	3.746	(0.465)	101	9929412	200.000	202.99	70.00- 130.00	100.00(A)	
3.746	3.746	(0.465)	103	6390218			34.56- 94.56	64.36	
-----									



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPBV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.133	4.133	(0.513)	45	1967404	200.000	185.14	70.00- 130.00	100.00	
4.133	4.133	(0.513)	43	362712			0.00- 30.00	18.44	
4.133	4.133	(0.513)	46	816407			0.00- 30.00	41.50	
-----									
30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	6057243	200.000	199.15	70.00- 130.00	100.00	
4.548	4.548	(0.564)	153	3827738			33.43- 93.43	63.19	
4.520	4.520	(0.561)	101	8431386			108.48- 168.48	139.20	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	8478221	200.000	210.62	70.00- 130.00	100.00(A)	
4.575	4.575	(0.568)	96	4763041			27.13- 87.13	56.18	
4.575	4.575	(0.568)	98	3012899			5.60- 65.60	35.54	
-----									
32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	3222078	200.000	214.00	70.00- 130.00	100.00(A)	
4.713	4.713	(0.585)	43	9448686			0.00- 30.00	293.25	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.935	4.935	(0.612)	45	11561568	200.000	215.77	70.00- 130.00	100.00(A)	
4.935	4.935	(0.612)	43	2331834			0.00- 30.00	20.17	
4.935	4.935	(0.612)	59	426669			0.00- 30.00	3.69	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	14564959	200.000	213.66	70.00- 130.00	100.00(A)	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	2321881	200.000	204.57	70.00- 130.00	100.00(A)	
5.184	5.184	(0.643)	41	8708129			0.00- 30.00	375.05	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.460	5.460	(0.678)	49	6972846	200.000	202.58	70.00- 130.00	100.00(A)	
5.460	5.460	(0.678)	84	4089078			29.81- 89.81	58.64	
5.460	5.460	(0.678)	51	2112801			0.00- 30.00	30.30	
-----									
46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	3902079	200.000	150.60	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	1232072			1.68- 61.68	31.57	
5.764	5.764	(0.715)	41	1256752			0.00- 30.00	32.21	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	5269287	200.000	216.15	70.00- 130.00	100.00(A)	
5.819	5.819	(0.722)	61	8491435			133.65- 193.65	161.15	
5.819	5.819	(0.722)	98	3350199			0.00- 30.00	63.58	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	10867838	200.000	219.22	70.00- 130.00	100.00(A)	
6.151	6.151	(0.763)	43	7427006			0.00- 30.00	68.34	
6.179	6.179	(0.767)	86	1502171			0.00- 30.00	13.82	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	9466761	200.000	214.47	70.00- 130.00	100.00(A)	
6.594	6.594	(0.818)	65	2873484			0.52- 60.52	30.35	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	2401975	200.000	225.48	70.00- 130.00	100.00(A)	
7.644	7.644	(0.949)	43	13592738			536.33- 596.33	565.90	
7.644	7.644	(0.949)	57	970844			0.00- 30.00	40.42	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	7018804	200.000	211.78	70.00- 130.00	100.00(A)	
7.617	7.617	(0.945)	96	4681675			37.56- 97.56	66.70	
7.617	7.617	(0.945)	98	2974274			14.52- 74.52	42.38	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	7952915	200.000	200.51	70.00- 130.00	100.00(A)	
8.031	8.031	(0.997)	71	2097817			0.00- 55.74	26.38	
8.031	8.031	(0.997)	72	2268304			0.00- 30.00	28.52	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	7997810	200.000	213.85	70.00- 130.00	100.00(A)	
8.197	8.197	(1.017)	85	5151553			35.19- 95.19	64.41	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.446	8.446	(1.048)	97	7928397	200.000	212.09	70.00- 130.00	100.00(A)	
8.446	8.446	(1.048)	99	5100696			33.02- 93.02	64.33	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	6469207	200.000	214.82	70.00- 130.00	100.00(A)	
8.418	8.418	(1.045)	56	10311383			126.11- 186.11	159.39	
8.391	8.391	(1.041)	41	5608294			55.82- 115.82	86.69	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.649	6.649	(0.825)	86	1313244	200.000	234.84	70.00- 130.00	100.00(A)	
6.649	6.649	(0.825)	43	16877699			0.00- 30.00	1285.19	
6.649	6.649	(0.825)	42	1237902			0.00- 30.00	94.26	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	6929597	200.000	224.51	70.00- 130.00	100.00(A)	
8.667	8.667	(1.075)	117	7148759			75.98- 135.98	103.16	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
80	2,2,4-Trimethylpentane				CAS #: 540-84-1				
9.110	9.110	(1.130)	57	30319210	200.000	223.04	70.00- 130.00	100.00(A)	
9.110	9.110	(1.130)	56	9915225			0.00- 30.00	32.70	
9.110	9.110	(1.130)	41	7628319			0.00- 30.00	25.16	
-----									
81	Benzene				CAS #: 71-43-2				
9.082	9.082	(0.916)	78	13162200	200.000	207.18	70.00- 130.00	100.00(A)	
9.082	9.082	(0.916)	77	3019769			0.00- 30.00	22.94	
-----									
85	1,2-Dichloroethane				CAS #: 107-06-2				
9.276	9.276	(0.936)	62	6115333	200.000	210.12	70.00- 130.00	100.00(A)	
9.276	9.276	(0.936)	64	1907292			0.00- 30.00	31.19	
-----									
90	Heptane				CAS #: 142-82-5				
9.497	9.497	(0.958)	100	1552617	200.000	218.81	70.00- 130.00	100.00(A)	
9.469	9.469	(0.955)	43	12168235			0.00- 30.00	783.72	
9.469	9.469	(0.955)	71	4755038			0.00- 30.00	306.26	
-----									
93	Trichloroethene				CAS #: 79-01-6				
10.326	10.326	(1.042)	95	5225261	200.000	202.78	70.00- 130.00	100.00(A)	
10.326	10.326	(1.042)	130	4874779			64.49- 124.49	93.29	
10.326	10.326	(1.042)	97	3343656			34.72- 94.72	63.99	
-----									
98	1,2-Dichloropropane				CAS #: 78-87-5				
10.852	10.852	(1.095)	63	5104635	200.000	204.32	70.00- 130.00	100.00(A)	
10.852	10.852	(1.095)	62	3646628			39.05- 99.05	71.44	
10.824	10.824	(1.092)	41	3449628			36.65- 96.65	67.58	
-----									
99	1,4-Dioxane				CAS #: 123-91-1				
11.073	11.073	(1.117)	88	3047468	200.000	210.03	70.00- 130.00	100.00(A)	
11.045	11.045	(1.114)	58	2835408			62.00- 122.00	93.04	
11.045	11.045	(1.114)	57	881722			0.00- 30.00	28.93	
-----									
100	Bromodichloromethane				CAS #: 75-27-4				
11.405	11.405	(1.151)	83	7699387	200.000	213.72	70.00- 130.00	100.00(A)	
11.405	11.405	(1.151)	85	4904851			34.72- 94.72	63.70	
-----									
103	cis-1,3-Dichloropropene				CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	5762675	200.000	225.69	70.00- 130.00	100.00(A)	
12.317	12.317	(1.243)	77	1837180			0.28- 60.28	31.88	
12.289	12.289	(1.240)	39	4130568			43.30- 103.30	71.68	
-----									
106	4-Methyl-2-pentanone				CAS #: 108-10-1				
12.594	12.594	(1.271)	58	4730396	200.000	227.29	70.00- 130.00	100.00(A)	
12.594	12.594	(1.271)	43	13344863			0.00- 30.00	282.11	
12.594	12.594	(1.271)	85	1564460			0.00- 30.00	33.07	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	13234278	200.000	201.94	70.00- 130.00	100.00(A)	
12.815	12.815	(1.293)	92	7782172			29.65- 89.65	58.80	
-----									
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	5992352	200.000	244.89	70.00- 130.00	100.00(A)	
13.368	13.368	(0.891)	77	1862914			1.96- 61.96	31.09	
13.340	13.340	(0.889)	39	4062607			38.82- 98.82	67.80	
-----									
114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	4441546	200.000	203.48	70.00- 130.00	100.00(A)	
13.644	13.644	(0.910)	99	2760199			33.63- 93.63	62.15	
13.644	13.644	(0.910)	83	3712821			55.73- 115.73	83.59	
-----									
116 Tetrachloroethene						CAS #: 127-18-4			
13.700	13.700	(0.913)	166	4978683	200.000	196.23	70.00- 130.00	100.00	
13.700	13.700	(0.913)	129	4049222			50.24- 110.24	81.33	
13.700	13.700	(0.913)	131	3856812			48.42- 108.42	77.47	
-----									
119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	6788322	200.000	222.94	70.00- 130.00	100.00(A)	
14.004	14.004	(0.934)	43	13564043			168.65- 228.65	199.81	
14.031	14.031	(0.935)	100	1021389			0.00- 30.00	15.05	
-----									
120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	6797279	200.000	222.56	70.00- 130.00	100.00(A)	
14.197	14.197	(0.947)	127	5288923			0.00- 30.00	77.81	
-----									
122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	6974912	200.000	218.00	70.00- 130.00	100.00(A)	
14.363	14.363	(0.958)	109	6501581			63.74- 123.74	93.21	
-----									
126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	10023472	200.000	201.12	70.00- 130.00	100.00(A)	
15.027	15.027	(1.002)	114	3208018			1.82- 61.82	32.01	
15.027	15.027	(1.002)	77	6285605			31.79- 91.79	62.71	
-----									
128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	5595835	200.000	207.82	70.00- 130.00	100.00(A)	
15.165	15.165	(1.011)	91	18264820			0.00- 30.00	326.40	
-----									
130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	6958327	200.000	210.40	70.00- 130.00	100.00(A)	
15.331	15.331	(1.022)	91	15132243			0.00- 30.00	217.47	
-----									
132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	6397817	200.000	203.44	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	14678586			195.49- 255.49	229.43	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	10594301	200.000	228.49	70.00- 130.00	100.00(A)	
15.911	15.911	(1.061)	78	5603941			22.39- 82.39	52.90	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	5879832	200.000	216.03	70.00- 130.00	100.00(A)	
16.160	16.160	(1.077)	171	3042544			21.21- 81.21	51.75	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	9654646	200.000	203.57	70.00- 130.00	100.00(A)	
16.796	16.796	(1.120)	85	6137606			33.63- 93.63	63.57	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	19926988	200.000	214.75	70.00- 130.00	100.00(A)	
16.962	16.962	(1.131)	120	5796728			0.00- 59.46	29.09	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	16195440	200.000	193.10	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	8354342			0.00- 30.00	51.58	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	15645232	200.000	219.90	70.00- 130.00	100.00(A)	
17.460	17.460	(1.164)	120	7177069			16.11- 76.11	45.87	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	10205679	200.000	202.62	70.00- 130.00	100.00(A)	
17.764	17.764	(1.184)	148	6469217			0.00- 30.00	63.39	
17.764	17.764	(1.184)	111	4196257			0.00- 30.00	41.12	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	11649605	200.000	197.34	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	7316004			0.00- 30.00	62.80	
17.847	17.847	(1.190)	111	5090946			0.00- 30.00	43.70	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	14811552	200.000	199.26	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	3792145			0.00- 30.00	25.60	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	10278339	200.000	194.01	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	6561023			32.64- 92.64	63.83	
18.206	18.206	(1.214)	111	4303497			11.53- 71.53	41.87	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	7407149	200.000	196.98	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	6968403			63.93- 123.93	94.08	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	4964078	200.000	187.90	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	3098497			32.69- 92.69	62.42	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	22515730	200.000	206.17	70.00- 130.00	100.00(A)	
16.824	16.824	(1.122)	120	5037838			0.00- 30.00	22.37	
16.824	16.824	(1.122)	105	809839			0.00- 30.00	3.60	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	17361026	200.000	182.07	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	5128121			0.00- 30.00	29.54	
16.326	16.326	(1.088)	51	2810203			0.00- 30.00	16.19	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	15685584	200.000	125.24	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	3440644			0.00- 30.00	21.94	
-----									
17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	9276275	200.000	197.49	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	5992060			0.00- 30.00	64.60	
3.414	3.414	(0.424)	72	601448			0.00- 30.00	6.48	
-----									
11	Butane					CAS #: 106-97-8			
2.695	2.695	(0.334)	58	1610134	200.000	201.06	70.00- 130.00	100.00(A)	
2.695	2.695	(0.334)	43	11574318			0.00- 30.00	718.84	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	7735277	200.000	210.81	70.00- 130.00	100.00(A)	
10.547	10.547	(1.064)	98	3742413			0.00- 30.00	48.38	
10.547	10.547	(1.064)	55	8517231			0.00- 30.00	110.11	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111213.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	379428	6.81
92 1,4-Difluorobenze	1306915	784149	1829681	1473899	12.78
125 Chlorobenzene-d5	1023463	614078	1432848	1158184	13.16

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

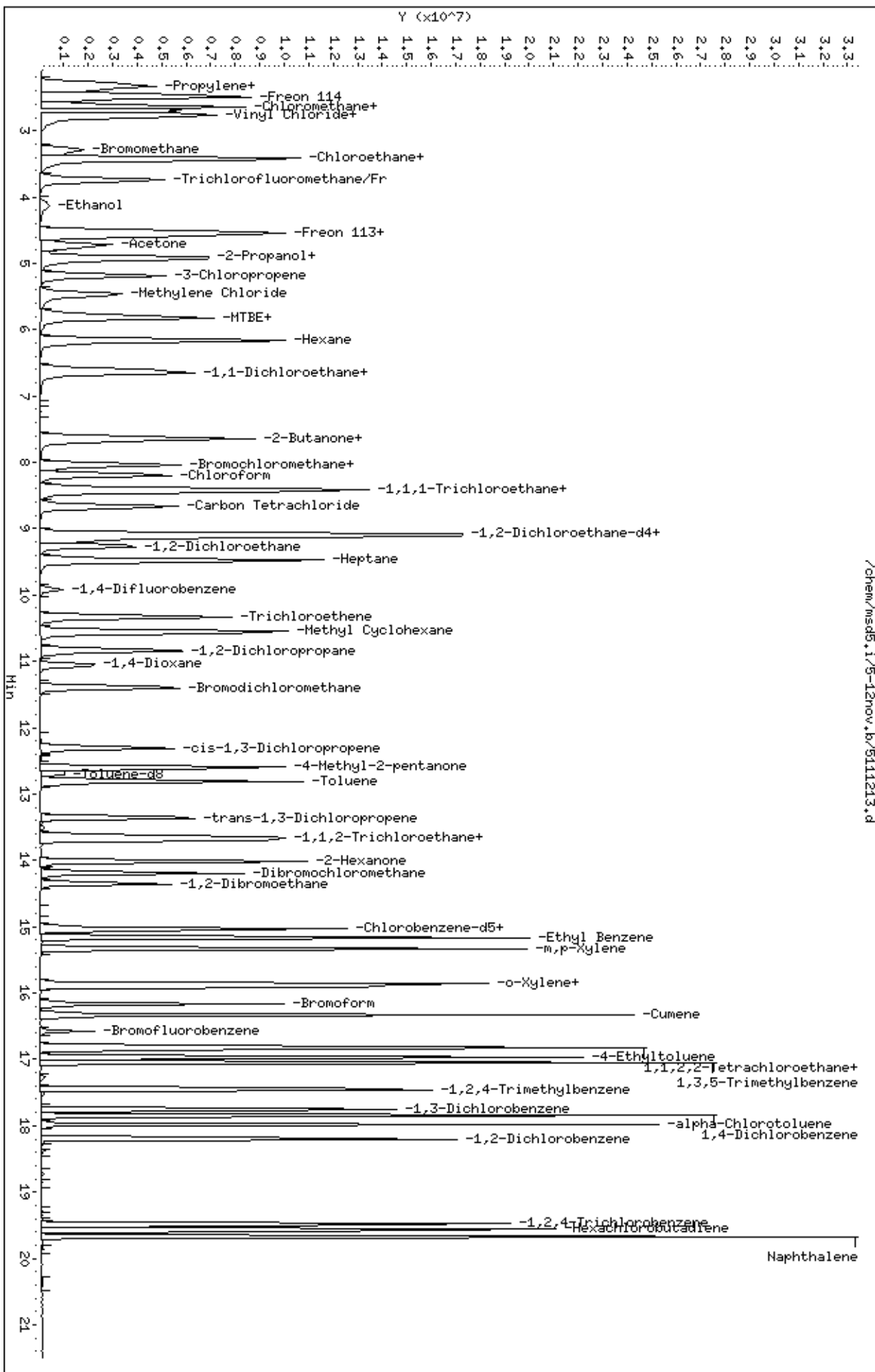
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-12nov.b/5111213.d  
Date: 12-NOV-2007 16:13  
Client ID: Level 7  
Sample Info: 200mL #1576-89

Column phase: RTX-624

Instrument: msd5.1  
Operator: cb  
Column diameter: 0.53





Report Date: 13-Nov-2007 13:21

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-13nov.b/5111303.d  
 Lab Smp Id: ICAL Client Smp ID: Level 8  
 Inj Date : 13-NOV-2007 12:52  
 Operator : ct Inst ID: msd5.i  
 Smp Info : 50mL #1497-139  
 Misc Info : 250ppbv (1000ppbv)  
 Comment :  
 Method : /chem/msd5.i/5-12nov.b/t14qn12a.m  
 Meth Date : 13-Nov-2007 13:21 ctaylor Quant Type: ISTD  
 Cal Date : 13-NOV-2007 12:52 Cal File: 5111303.d  
 Als bottle: 1 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: Level8.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #:	74-97-5	
8.059	8.059	(1.000)	130	351990	25.0000		70.00- 130.00	100.00
8.059	8.059	(1.000)	128	274795			42.76- 102.76	78.07
8.031	8.031	(1.000)	49	788886			173.18- 233.18	224.12
-----								
* 92	1,4-Difluorobenzene					CAS #:	540-36-3	
9.912	9.912	(1.000)	114	1397135	25.0000		70.00- 130.00	100.00
9.912	9.912	(1.000)	88	229663			0.00- 46.42	16.44
-----								
* 125	Chlorobenzene-d5					CAS #:	3114-55-4	
14.999	14.999	(1.000)	117	1075416	25.0000		70.00- 130.00	100.00
14.999	14.999	(1.000)	82	649768			0.00- 30.00	60.42
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #:	17060-07-0	
9.110	9.110	(1.130)	65	593872	25.0000	28.188	70.00- 130.00	100.00
9.110	9.110	(1.130)	67	443921			0.00- 30.00	74.75
-----								
\$ 107	Toluene-d8					CAS #:	2037-26-5	
12.704	12.704	(1.282)	98	1240246	25.0000	25.144	70.00- 130.00	100.00
12.677	12.677	(1.279)	70	124834			0.00- 30.00	10.07

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.704	12.704	(1.282)	100	913233			0.00- 30.00	73.63	
-----									
\$ 138 Bromofluorobenzene									
						CAS #: 460-00-4			
16.575	16.575	(1.105)	174	661035	25.0000	26.344	70.00- 130.00	100.00	
16.575	16.575	(1.105)	95	1017403			128.71- 188.71	153.91	
16.575	16.575	(1.105)	176	644249			68.26- 128.26	97.46	
-----									
113 trans-1,3-Dichloropropene									
						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	7589108	250.000	334.02	70.00- 130.00	100.00(A)	
13.368	13.368	(0.891)	77	2394908			1.96- 61.96	31.56	
13.340	13.340	(0.889)	39	5237247			38.82- 98.82	69.01	
-----									

QC Flag Legend

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

Report Date: 13-Nov-2007 13:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 12-NOV-2007

Lab File ID: 5111303.d

Calibration Time: 15:12

Lab Smp Id: ICAL

Client Smp ID: Level 8

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ct

Method File: /chem/msd5.i/5-12nov.b/t14qn12a.m

Misc Info: 250ppbv (1000ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	355243	213146	497340	351990	-0.92
92 1,4-Difluorobenze	1306915	784149	1829681	1397135	6.90
125 Chlorobenzene-d5	1023463	614078	1432848	1075416	5.08

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-13nov.b/5111303.d

Date: 13-NOV-2007 12:52

Client ID: Level 8

Sample Info: 50mL #1497-139

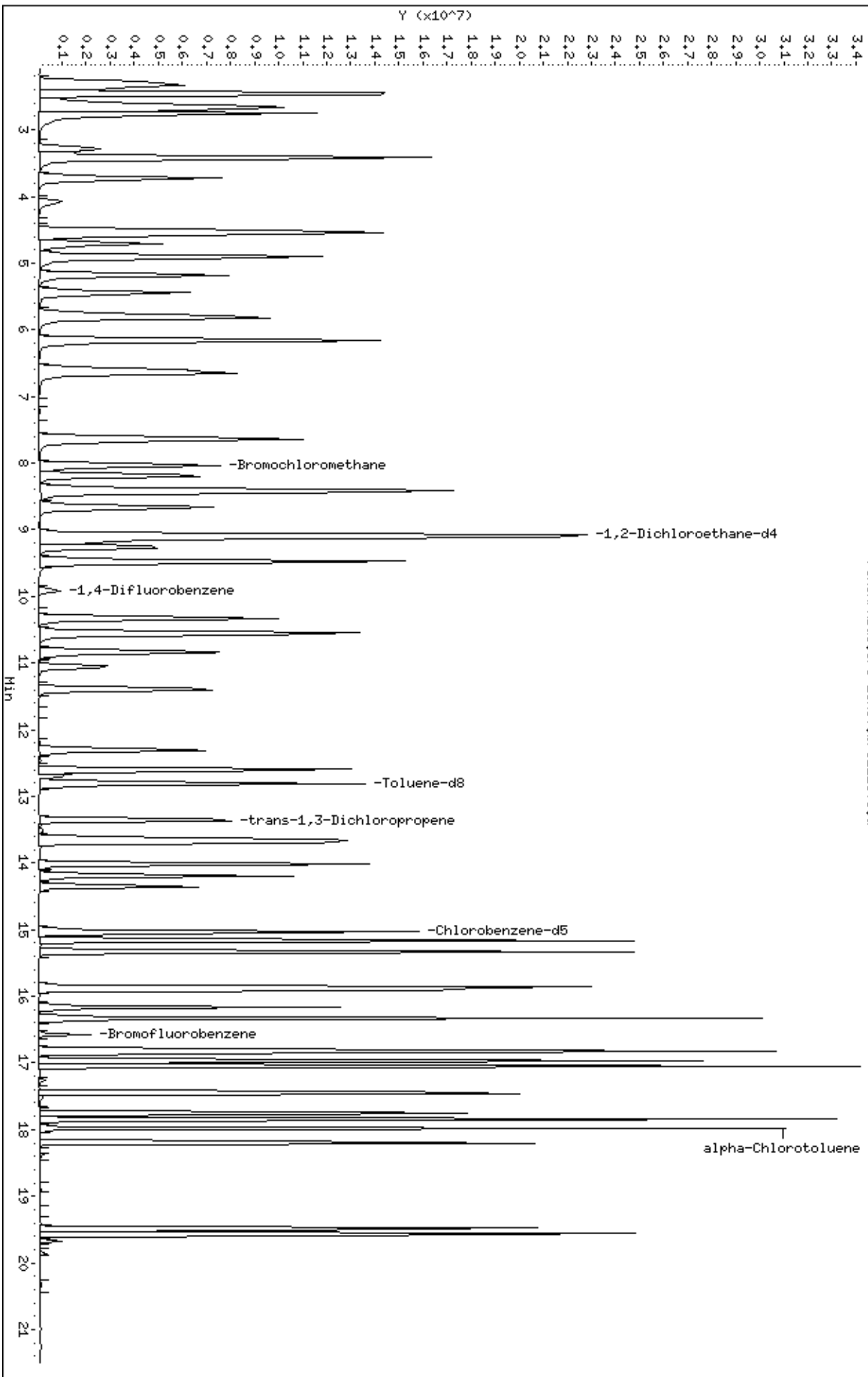
Column phase: RTX-624

Instrument: msd5.1

Operator: ct

Column diameter: 0.53

/chem/msd5.1/5-13nov.b/5111303.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0712115-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 09:24 AM

Compound	%Recovery
Freon 12	101
Freon 114	115
Vinyl Chloride	111
Bromomethane	101
Chloroethane	106
Freon 11	123
1,1-Dichloroethene	119
Freon 113	117
Methylene Chloride	126
1,1-Dichloroethane	122
cis-1,2-Dichloroethene	118
Chloroform	118
1,1,1-Trichloroethane	126
Carbon Tetrachloride	134 Q
Benzene	105
1,2-Dichloroethane	130
Trichloroethene	110
1,2-Dichloropropane	110
cis-1,3-Dichloropropene	118
Toluene	107
trans-1,3-Dichloropropene	122
1,1,2-Trichloroethane	109
Tetrachloroethene	111
1,2-Dibromoethane (EDB)	112
Chlorobenzene	105
Ethyl Benzene	110
m,p-Xylene	113
o-Xylene	107
Styrene	115
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	122
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	127
1,2-Dichlorobenzene	99
1,3-Butadiene	128
Hexane	129
Cyclohexane	111



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0712115-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121402	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 09:24 AM

Compound	%Recovery
Heptane	117
Bromodichloromethane	120
Dibromochloromethane	122
Cumene	112
Propylbenzene	116
Chloromethane	124
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	102
Acetone	115
Carbon Disulfide	108
2-Propanol	120
trans-1,2-Dichloroethene	113
2-Butanone (Methyl Ethyl Ketone)	105
Tetrahydrofuran	116
1,4-Dioxane	106
4-Methyl-2-pentanone	132 Q
2-Hexanone	113
Bromoform	119
4-Ethyltoluene	117
Ethanol	122
Methyl tert-butyl ether	114
3-Chloropropene	104
2,2,4-Trimethylpentane	127
Naphthalene	109

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	107	70-130

Report Date: 14-Dec-2007 09:31

## Air Toxics Ltd.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i                      Injection Date: 14-DEC-2007 09:24  
 Lab File ID: 5121402.d                  Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007  
 Analysis Type: AIR                        Init. Cal. Times: 13:22                      12:08  
 Lab Sample ID: CCV-1                     Quant Type: ISTD  
 Method: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
			RRF	%D / %DRIFT	%D / %DRIFT	
\$ 84 1,2-Dichloroethane-d4	1.49639	1.64925	0.010	-10.21478	30.00000	Averaged
\$ 107 Toluene-d8	0.88263	0.90906	0.010	-2.99456	30.00000	Averaged
\$ 138 Bromofluorobenzene	0.58333	0.62221	0.010	-6.66567	30.00000	Averaged
6 Propylene	1.74497	2.02656	0.010	-16.13698	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.95608	2.98727	0.010	-1.05514	30.00000	Averaged
9 Freon 114	2.69778	3.10348	0.010	-15.03807	30.00000	Averaged
10 Chloromethane	2.21969	2.75040	0.010	-23.90933	30.00000	Averaged
13 Vinyl Chloride	2.13649	2.37914	0.010	-11.35750	30.00000	Averaged
12 1,3-Butadiene	1.82463	2.34644	0.010	-28.59788	30.00000	Averaged
15 Bromomethane	1.37930	1.39770	0.010	-1.33363	30.00000	Averaged
19 Chloroethane	1.08675	1.14967	0.010	-5.78893	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.22295	3.95142	0.010	-22.60264	30.00000	Averaged
26 Ethanol	0.70017	0.85283	0.010	-21.80306	30.00000	Averaged
30 Freon 113	2.00401	2.34232	0.010	-16.88195	30.00000	Averaged
31 1,1-Dichloroethene	2.65222	3.15253	0.010	-18.86394	30.00000	Averaged
32 Acetone	0.99203	1.14570	0.010	-15.49098	30.00000	Averaged
36 2-Propanol	3.53043	4.25586	0.010	-20.54791	30.00000	Averaged
35 Carbon Disulfide	4.49145	4.87699	0.010	-8.58380	30.00000	Averaged
38 3-Chloropropene	0.74783	0.77674	0.010	-3.86524	30.00000	Averaged
43 Methylene Chloride	2.26785	2.85384	0.010	-25.83901	30.00000	Averaged
46 MTBE	1.70717	1.94270	0.010	-13.79660	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.60625	1.81680	0.010	-13.10755	30.00000	Averaged
51 Hexane	3.26636	4.22013	0.010	-29.19966	30.00000	Averaged
55 1,1-Dichloroethane	2.90836	3.53643	0.010	-21.59528	30.00000	Averaged
67 2-Butanone	0.70189	0.73669	0.010	-4.95688	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.18371	2.56953	0.010	-17.66793	30.00000	Averaged
70 Tetrahydrofuran	2.61338	3.03908	0.010	-16.28950	30.00000	Averaged
72 Chloroform	2.46416	2.91681	0.010	-18.36936	30.00000	Averaged
75 1,1,1-Trichloroethane	2.46307	3.09597	0.010	-25.69547	30.00000	Averaged
74 Cyclohexane	1.98423	2.20956	0.010	-11.35645	30.00000	Averaged
56 Vinyl Acetate	0.36845	0.52274	0.010	-41.87683	30.00000	Averaged<-
77 Carbon Tetrachloride	2.03366	2.71681	0.010	-33.59199	30.00000	Averaged<-
80 2,2,4-Trimethylpentane	8.95659	11.39392	0.010	-27.21270	30.00000	Averaged
81 Benzene	1.07756	1.13585	0.010	-5.40921	30.00000	Averaged
85 1,2-Dichloroethane	0.49365	0.64024	0.010	-29.69504	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i                    Injection Date: 14-DEC-2007 09:24  
 Lab File ID: 5121402.d                Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007  
 Analysis Type: AIR                     Init. Cal. Times: 13:22                    12:08  
 Lab Sample ID: CCV-1                  Quant Type: ISTD  
 Method: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE
			RRF   %D / %DRIFT	%D / %DRIFT	
90 Heptane	0.12036	0.14090	0.010   -17.07159	30.00000	Averaged
93 Trichloroethene	0.43706	0.47905	0.010   -9.60612	30.00000	Averaged
98 1,2-Dichloropropane	0.42376	0.46411	0.010   -9.52283	30.00000	Averaged
99 1,4-Dioxane	0.24611	0.26178	0.010   -6.36821	30.00000	Averaged
100 Bromodichloromethane	0.61107	0.73499	0.010   -20.27906	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.43309	0.51200	0.010   -18.21962	30.00000	Averaged
106 4-Methyl-2-pentanone	0.35302	0.46547	0.010   -31.85487	30.00000	Averaged
108 Toluene	1.11163	1.18838	0.010   -6.90467	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.52818	0.64181	0.010   -21.51361	30.00000	Averaged
114 1,1,2-Trichloroethane	0.47116	0.51224	0.010   -8.72014	30.00000	Averaged
116 Tetrachloroethene	0.54765	0.60719	0.010   -10.87135	30.00000	Averaged
119 2-Hexanone	0.65725	0.74580	0.010   -13.47231	30.00000	Averaged
120 Dibromochloromethane	0.65925	0.80248	0.010   -21.72610	30.00000	Averaged
122 1,2-Dibromoethane	0.69063	0.77377	0.010   -12.03790	30.00000	Averaged
126 Chlorobenzene	1.07580	1.13309	0.010   -5.32531	30.00000	Averaged
128 Ethyl Benzene	0.58120	0.64279	0.010   -10.59668	30.00000	Averaged
130 m,p-Xylene	0.71385	0.80447	0.010   -12.69440	30.00000	Averaged
132 o-Xylene	0.67883	0.72742	0.010   -7.15759	30.00000	Averaged
133 Styrene	1.00085	1.15531	0.010   -15.43235	30.00000	Averaged
134 Bromoform	0.58750	0.70095	0.010   -19.30993	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	1.02374	1.06310	0.010   -3.84499	30.00000	Averaged
144 4-Ethyltoluene	2.00291	2.34728	0.010   -17.19341	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.81040	2.20153	0.010   -21.60433	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.53578	1.77276	0.010   -15.43101	30.00000	Averaged
155 1,3-Dichlorobenzene	1.08725	1.13993	0.010   -4.84472	30.00000	Averaged
156 1,4-Dichlorobenzene	1.27425	1.39434	0.010   -9.42408	30.00000	Averaged
157 alpha-Chlorotoluene	1.60452	2.04359	0.010   -27.36439	30.00000	Averaged
159 1,2-Dichlorobenzene	1.14355	1.12829	0.010   1.33423	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.81171	0.74155	0.010   8.64290	30.00000	Averaged
164 Hexachlorobutadiene	0.57027	0.58296	0.010   -2.22502	30.00000	Averaged
142 Propylbenzene	2.35732	2.73780	0.010   -16.14008	30.00000	Averaged
136 Cumene	2.05825	2.31374	0.010   -12.41324	30.00000	Averaged
165 Naphthalene	2.70346	2.93738	0.010   -8.65250	30.00000	Averaged
17 Isopentane	3.09489	3.87956	0.010   -25.35369	30.00000	Averaged
11 Butane	0.52766	0.64801	0.010   -22.80999	30.00000	Averaged



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i                    Injection Date: 14-DEC-2007 09:24  
Lab File ID: 5121402.d                Init. Cal. Date(s): 12-NOV-2007 27-NOV-2007  
Analysis Type: AIR                    Init. Cal. Times: 13:22                    12:08  
Lab Sample ID: CCV-1                 Quant Type: ISTD  
Method: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX RRF	%D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.62237	0.69324	0.010	-11.38564	30.00000		Averaged

Report Date: 14-Dec-2007 09:31

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121402.d  
 Lab Smp Id: CCV-1 Client Smp ID: CCV-1  
 Inj Date : 14-DEC-2007 09:24  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 50mL #1443-379  
 Misc Info : 50ppbv (200ppbv)  
 Comment :  
 Method : /var/chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 09:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	327639	25.0000			80.00- 120.00	100.00
8.059	8.059	(1.000)	128	262910				50.24- 110.24	80.24
8.059	8.059	(1.000)	49	811027				217.54- 277.54	247.54
-----									
* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1281185	25.0000			80.00- 120.00	100.00
9.912	9.912	(1.000)	88	219374				0.00- 47.12	17.12
-----									
* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1014841	25.0000			80.00- 120.00	100.00
14.999	14.999	(1.000)	82	616384				0.00- 30.00	60.74
-----									
\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	540357	25.0000	27.554		80.00- 120.00	100.00
9.137	9.137	(1.134)	67	290921				27.88- 87.88	53.84
-----									
\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1164673	25.0000	25.749		80.00- 120.00	100.00
12.704	12.704	(1.282)	70	122620				0.00- 40.29	10.53

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	747327			37.87- 97.87	64.17		
-----										
\$ 138 Bromofluorobenzene										
						CAS #:	460-00-4			
16.575	16.575	(1.105)	174	631443	25.0000	26.666	80.00- 120.00	100.00		
16.575	16.575	(1.105)	95	992355			127.16- 187.16	157.16		
16.575	16.575	(1.105)	176	606447			66.04- 126.04	96.04		
-----										
6 Propylene										
						CAS #:	115-07-1			
2.308	2.308	(0.286)	41	1327958	50.0000	58.068	80.00- 120.00	100.00		
2.308	2.308	(0.286)	42	924055			0.00- 30.00	69.58		
2.308	2.308	(0.286)	39	864241			0.00- 30.00	65.08		
-----										
8 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
2.363	2.363	(0.293)	85	1957495	50.0000	50.528	80.00- 120.00	100.00		
2.363	2.363	(0.293)	87	618213			0.00- 30.00	31.58		
-----										
9 Freon 114										
						CAS #:	76-14-2			
2.474	2.474	(0.307)	135	2033640	50.0000	57.519	80.00- 120.00	100.00		
2.474	2.474	(0.307)	137	643257			1.63- 61.63	31.63		
-----										
10 Chloromethane										
						CAS #:	74-87-3			
2.640	2.640	(0.328)	50	1802278	50.0000	61.955	80.00- 120.00	100.00		
2.640	2.640	(0.328)	52	524066			0.00- 30.00	29.08		
-----										
13 Vinyl Chloride										
						CAS #:	75-01-4			
2.806	2.806	(0.348)	62	1559001	50.0000	55.679	80.00- 120.00	100.00		
2.806	2.806	(0.348)	64	471327			0.00- 30.00	30.23		
-----										
12 1,3-Butadiene										
						CAS #:	106-99-0			
2.778	2.778	(0.345)	54	1537569	50.0000	64.299	80.00- 120.00	100.00		
2.778	2.778	(0.345)	39	1657819			0.00- 30.00	107.82		
-----										
15 Bromomethane										
						CAS #:	74-83-9			
3.303	3.303	(0.410)	94	915879	50.0000	50.667	80.00- 120.00	100.00		
3.303	3.303	(0.410)	96	874087			65.44- 125.44	95.44		
-----										
19 Chloroethane										
						CAS #:	75-00-3			
3.414	3.414	(0.424)	64	753351	50.0000	52.894	80.00- 120.00	100.00		
3.414	3.414	(0.424)	49	230315			0.00- 30.00	30.57		
3.414	3.414	(0.424)	66	218692			0.00- 30.00	29.03		
-----										
20 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
3.746	3.746	(0.465)	101	2589278	50.0000	61.301	80.00- 120.00	100.00		
3.746	3.746	(0.465)	103	1656348			33.97- 93.97	63.97		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.105	4.105	(0.509)	45	558842	50.0000	60.902	80.00- 120.00	100.00	
4.105	4.105	(0.509)	43	101693			0.00- 30.00	18.20	
4.105	4.105	(0.509)	46	211872			0.00- 30.00	37.91	
-----									
30 Freon 113						CAS #: 76-13-1			
4.548	4.548	(0.564)	151	1534873	50.0000	58.441	80.00- 120.00	100.00	
4.548	4.548	(0.564)	153	961150			32.62- 92.62	62.62	
4.548	4.548	(0.564)	101	2006319			100.72- 160.72	130.72	
-----									
31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	2065783	50.0000	59.432	80.00- 120.00	100.00	
4.575	4.575	(0.568)	96	1114584			23.95- 83.95	53.95	
4.575	4.575	(0.568)	98	680510			2.94- 62.94	32.94	
-----									
32 Acetone						CAS #: 67-64-1			
4.741	4.741	(0.588)	58	750755	50.0000	57.745	80.00- 120.00	100.00	
4.741	4.741	(0.588)	43	2379404			0.00- 30.00	316.93	
-----									
36 2-Propanol						CAS #: 67-63-0			
4.935	4.935	(0.612)	45	2788771	50.0000	60.274	80.00- 120.00	100.00	
4.935	4.935	(0.612)	43	578687			0.00- 30.00	20.75	
4.935	4.935	(0.612)	59	90720			0.00- 30.00	3.25	
-----									
35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	3195783	50.0000	54.292	80.00- 120.00	100.00	
-----									
38 3-Chloropropene						CAS #: 107-05-1			
5.211	5.211	(0.647)	76	508978	50.0000	51.933	80.00- 120.00	100.00	
5.211	5.211	(0.647)	41	2327054			0.00- 30.00	457.20	
-----									
43 Methylene Chloride						CAS #: 75-09-2			
5.460	5.460	(0.677)	49	1870059	50.0000	62.920	80.00- 120.00	100.00	
5.460	5.460	(0.677)	84	909903			18.66- 78.66	48.66	
5.460	5.460	(0.677)	51	558087			0.00- 30.00	29.84	
-----									
46 MTBE						CAS #: 1634-04-4			
5.792	5.792	(0.719)	73	1273007	50.0000	56.898	80.00- 120.00	100.00	
5.792	5.792	(0.719)	57	436579			4.30- 64.30	34.30	
5.792	5.792	(0.719)	41	469925			0.00- 30.00	36.91	
-----									
47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.847	5.847	(0.726)	96	1190506	50.0000	56.554	80.00- 120.00	100.00	
5.819	5.819	(0.722)	61	2109255			147.17- 207.17	177.17	
5.847	5.847	(0.726)	98	751972			0.00- 30.00	63.16	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.179	6.179	(0.767)	57	2765360	50.0000	64.600	80.00- 120.00	100.00	
6.179	6.179	(0.767)	43	1941447			0.00- 30.00	70.21	
6.179	6.179	(0.767)	86	342541			0.00- 30.00	12.39	
-----									
55 1,1-Dichloroethane						CAS #: 75-34-3			
6.621	6.621	(0.822)	63	2317346	50.0000	60.798	80.00- 120.00	100.00	
6.621	6.621	(0.822)	65	670127			0.00- 58.92	28.92	
-----									
67 2-Butanone						CAS #: 78-93-3			
7.672	7.672	(0.952)	72	482734	50.0000	52.478	80.00- 120.00	100.00	
7.672	7.672	(0.952)	43	3190976			631.02- 691.02	661.02	
7.672	7.672	(0.952)	57	213122			0.00- 30.00	44.15	
-----									
66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.644	7.644	(0.949)	61	1683755	50.0000	58.834	80.00- 120.00	100.00	
7.644	7.644	(0.949)	96	1056696			32.76- 92.76	62.76	
7.644	7.644	(0.949)	98	682395			10.53- 70.53	40.53	
-----									
70 Tetrahydrofuran						CAS #: 109-99-9			
8.059	8.059	(1.000)	42	1991443	50.0000	58.145	80.00- 120.00	100.00	
8.059	8.059	(1.000)	71	437667			0.00- 51.98	21.98	
8.059	8.059	(1.000)	72	476994			0.00- 30.00	23.95	
-----									
72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	1911322	50.0000	59.185	80.00- 120.00	100.00	
8.197	8.197	(1.017)	85	1234994			34.61- 94.61	64.61	
-----									
75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.446	8.446	(1.048)	97	2028722	50.0000	62.848	80.00- 120.00	100.00	
8.446	8.446	(1.048)	99	1281323			33.16- 93.16	63.16	
-----									
74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	1447879	50.0000	55.678	80.00- 120.00	100.00	
8.418	8.418	(1.045)	56	2589127			148.82- 208.82	178.82	
8.418	8.418	(1.045)	41	1445734			69.85- 129.85	99.85	
-----									
56 Vinyl Acetate						CAS #: 108-05-4			
6.179	6.179	(0.767)	86	342541	50.0000	70.938	80.00- 120.00	100.00	
6.179	6.179	(0.767)	43	1941447			0.00- 30.00	566.78	
6.179	6.179	(0.767)	42	953427			0.00- 30.00	278.34	
-----									
77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	1780266	50.0000	66.796	80.00- 120.00	100.00	
8.667	8.667	(1.075)	117	1836293			73.15- 133.15	103.15	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	7466185	50.0000	63.606	80.00- 120.00	100.00		
9.110	9.110	(1.130)	56	2466947			0.00- 30.00	33.04		
9.110	9.110	(1.130)	41	1936571			0.00- 30.00	25.94		
-----										
81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	2910469	50.0000	52.705	80.00- 120.00	100.00		
9.082	9.082	(0.916)	77	665283			0.00- 30.00	22.86		
-----										
85	1,2-Dichloroethane					CAS #: 107-06-2				
9.276	9.276	(0.936)	62	1640542	50.0000	64.848	80.00- 120.00	100.00		
9.276	9.276	(0.936)	64	504640			0.00- 30.00	30.76		
-----										
90	Heptane					CAS #: 142-82-5				
9.497	9.497	(0.958)	100	361048	50.0000	58.536	80.00- 120.00	100.00		
9.497	9.497	(0.958)	43	3143124			0.00- 30.00	870.56		
9.497	9.497	(0.958)	71	1053519			0.00- 30.00	291.79		
-----										
93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	1227494	50.0000	54.803	80.00- 120.00	100.00		
10.326	10.326	(1.042)	130	1144422			63.23- 123.23	93.23		
10.326	10.326	(1.042)	97	789119			34.29- 94.29	64.29		
-----										
98	1,2-Dichloropropane					CAS #: 78-87-5				
10.852	10.852	(1.095)	63	1189229	50.0000	54.761	80.00- 120.00	100.00		
10.852	10.852	(1.095)	62	853091			41.73- 101.73	71.73		
10.852	10.852	(1.095)	41	894456			45.21- 105.21	75.21		
-----										
99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	670786	50.0000	53.184	80.00- 120.00	100.00		
11.073	11.073	(1.117)	58	673625			70.42- 130.42	100.42		
11.073	11.073	(1.117)	57	220370			0.00- 30.00	32.85		
-----										
100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	1883316	50.0000	60.140	80.00- 120.00	100.00		
11.405	11.405	(1.151)	85	1177936			32.55- 92.55	62.55		
-----										
103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	1311935	50.0000	59.110	80.00- 120.00	100.00		
12.317	12.317	(1.243)	77	400203			0.50- 60.50	30.50		
12.317	12.317	(1.243)	39	1005355			46.63- 106.63	76.63		
-----										
106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.594	12.594	(1.271)	58	1192709	50.0000	65.927	80.00- 120.00	100.00		
12.594	12.594	(1.271)	43	3266189			0.00- 30.00	273.85		
12.594	12.594	(1.271)	85	359735			0.00- 30.00	30.16		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	3045081	50.0000	53.452	80.00- 120.00	100.00	
12.815	12.815	(1.293)	92	1766645			28.02- 88.02	58.02	
-----									
113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	1302671	50.0000	60.757	80.00- 120.00	100.00	
13.368	13.368	(0.891)	77	405913			1.16- 61.16	31.16	
13.368	13.368	(0.891)	39	926140			41.10- 101.10	71.10	
-----									
114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	1039690	50.0000	54.360	80.00- 120.00	100.00	
13.644	13.644	(0.910)	99	655548			33.05- 93.05	63.05	
13.644	13.644	(0.910)	83	873707			54.04- 114.04	84.04	
-----									
116 Tetrachloroethene						CAS #: 127-18-4			
13.700	13.700	(0.913)	166	1232393	50.0000	55.436	80.00- 120.00	100.00	
13.700	13.700	(0.913)	129	1017917			52.60- 112.60	82.60	
13.700	13.700	(0.913)	131	964333			48.25- 108.25	78.25	
-----									
119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	1513734	50.0000	56.736	80.00- 120.00	100.00	
14.004	14.004	(0.934)	43	3166601			179.19- 239.19	209.19	
14.031	14.031	(0.935)	100	221537			0.00- 30.00	14.64	
-----									
120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	1628776	50.0000	60.863	80.00- 120.00	100.00	
14.197	14.197	(0.947)	127	1271973			0.00- 30.00	78.09	
-----									
122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	1570505	50.0000	56.019	80.00- 120.00	100.00	
14.363	14.363	(0.958)	109	1491321			64.96- 124.96	94.96	
-----									
126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	2299806	50.0000	52.663	80.00- 120.00	100.00	
15.027	15.027	(1.002)	114	740989			2.22- 62.22	32.22	
15.027	15.027	(1.002)	77	1470920			33.96- 93.96	63.96	
-----									
128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	1304662	50.0000	55.298	80.00- 120.00	100.00	
15.165	15.165	(1.011)	91	4360201			0.00- 30.00	334.20	
-----									
130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	1632825	50.0000	56.347	80.00- 120.00	100.00	
15.331	15.331	(1.022)	91	3615875			0.00- 30.00	221.45	
-----									
132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	1476422	50.0000	53.579	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	3498325			206.95- 266.95	236.95	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	2344902	50.0000	57.716	80.00- 120.00	100.00	
15.911	15.911	(1.061)	78	1310388			25.88- 85.88	55.88	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	1422705	50.0000	59.655	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	742452			22.19- 82.19	52.19	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	2157750	50.0000	51.922	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	1408458			35.27- 95.27	65.27	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	4764223	50.0000	58.597	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1381567			0.00- 59.00	29.00	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	4468397	50.0000	60.802	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	2089142			0.00- 30.00	46.75	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	3598148	50.0000	57.716	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1578996			13.88- 73.88	43.88	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	2313687	50.0000	52.422	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1447869			0.00- 30.00	62.58	
17.764	17.764	(1.184)	111	994457			0.00- 30.00	42.98	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2830066	50.0000	54.712	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1783500			0.00- 30.00	63.02	
17.847	17.847	(1.190)	111	1245750			0.00- 30.00	44.02	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	4147836	50.0000	63.682	80.00- 120.00	100.00	
17.985	17.985	(1.199)	126	794451			0.00- 30.00	19.15	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	2290068	50.0000	49.333	80.00- 120.00	100.00	
18.206	18.206	(1.214)	148	1485430			34.86- 94.86	64.86	
18.206	18.206	(1.214)	111	957899			11.83- 71.83	41.83	
-----									



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	1505119	50.0000	45.678	80.00- 120.00	100.00	
19.506	19.506	(1.300)	182	1403328			63.24- 123.24	93.24	
-----									
164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	1183220	50.0000	51.112	80.00- 120.00	100.00	
19.589	19.589	(1.306)	223	732408			31.90- 91.90	61.90	
-----									
142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	5556861	50.0000	58.070	80.00- 120.00	100.00	
16.824	16.824	(1.122)	120	1182603			0.00- 30.00	21.28	
16.824	16.824	(1.122)	105	206007			0.00- 30.00	3.71	
-----									
136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	4696161	50.0000	56.207	80.00- 120.00	100.00	
16.326	16.326	(1.088)	120	1203148			0.00- 30.00	25.62	
16.326	16.326	(1.088)	51	690452			0.00- 30.00	14.70	
-----									
165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	5961951	50.0000	54.326	80.00- 120.00	100.00	
19.672	19.672	(1.312)	127	754266			0.00- 30.00	12.65	
-----									
17	Isopentane					CAS #: 78-78-4			
3.442	3.442	(0.427)	43	2542189	50.0000	62.677	80.00- 120.00	100.00	
3.442	3.442	(0.427)	57	1578122			0.00- 30.00	62.08	
3.442	3.442	(0.427)	72	129907			0.00- 30.00	5.11	
-----									
11	Butane					CAS #: 106-97-8			
2.695	2.695	(0.334)	58	424629	50.0000	61.405	80.00- 120.00	100.00	
2.695	2.695	(0.334)	43	3226507			0.00- 30.00	759.84	
-----									
94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	1776326	50.0000	55.693	80.00- 120.00	100.00	
10.547	10.547	(1.064)	98	888545			0.00- 30.00	50.02	
10.547	10.547	(1.064)	55	2178457			0.00- 30.00	122.64	
-----									

Report Date: 14-Dec-2007 09:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 14-DEC-2007

Lab File ID: 5121402.d

Calibration Time: 09:24

Lab Smp Id: CCV-1

Client Smp ID: CCV-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: 50ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	327639	0.00
92 1,4-Difluorobenze	1281185	768711	1793659	1281185	0.00
125 Chlorobenzene-d5	1014841	608905	1420777	1014841	0.00

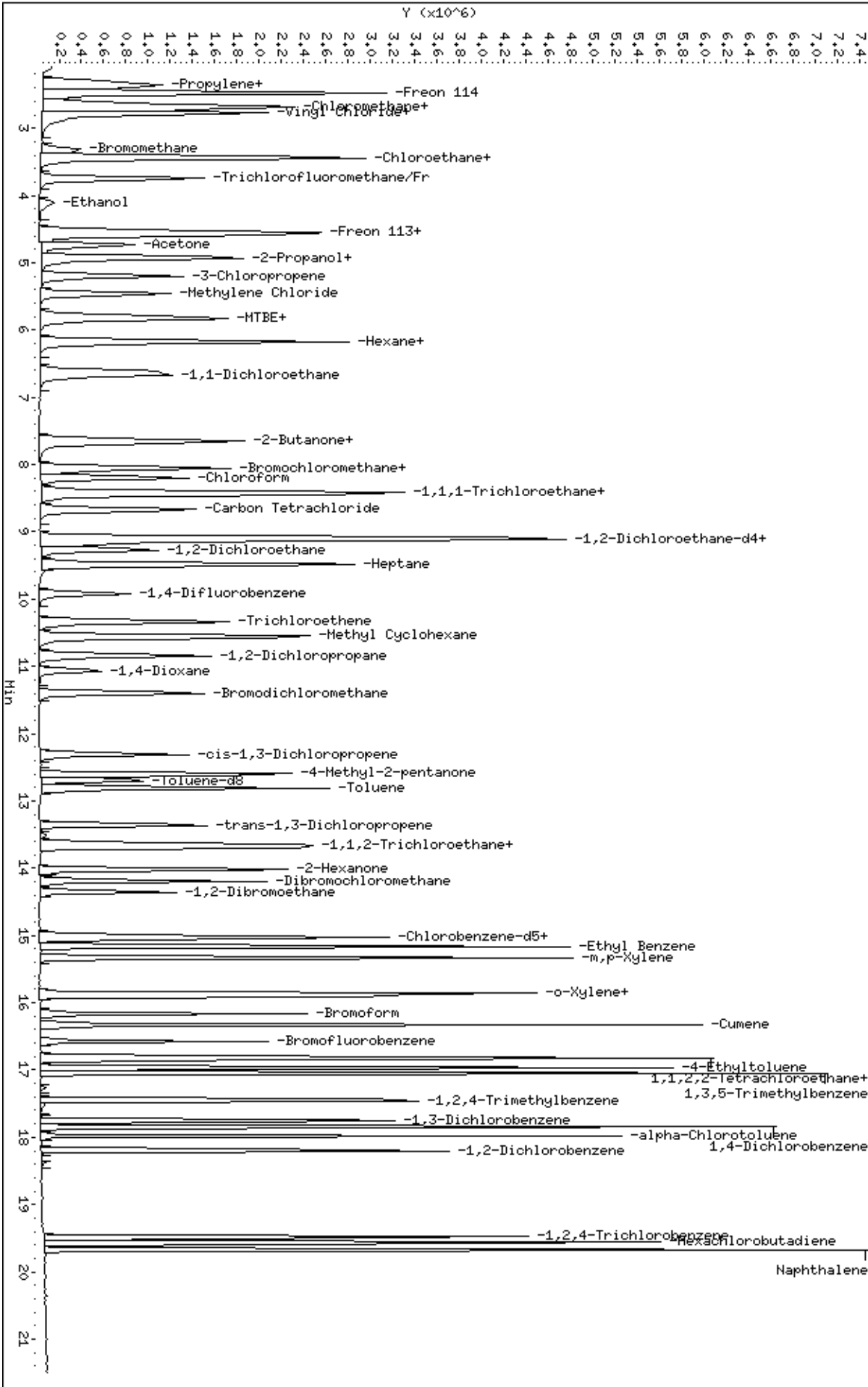
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0712115-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 09:53 AM

Compound	%Recovery
Freon 12	109
Freon 114	98
Vinyl Chloride	94
Bromomethane	92
Chloroethane	80
Freon 11	101
1,1-Dichloroethene	112
Freon 113	108
Methylene Chloride	113
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	103
Chloroform	102
1,1,1-Trichloroethane	109
Carbon Tetrachloride	111
Benzene	91
1,2-Dichloroethane	113
Trichloroethene	93
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	100
Toluene	96
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	92
Tetrachloroethene	94
1,2-Dibromoethane (EDB)	90
Chlorobenzene	90
Ethyl Benzene	89
m,p-Xylene	93
o-Xylene	94
Styrene	91
1,1,2,2-Tetrachloroethane	91
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	85
1,3-Butadiene	106
Hexane	107
Cyclohexane	94



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0712115-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5121403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 12/14/07 09:53 AM

Compound	%Recovery
Heptane	96
Bromodichloromethane	102
Dibromochloromethane	102
Cumene	97
Propylbenzene	104
Chloromethane	110
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	91
Acetone	105
Carbon Disulfide	92
2-Propanol	98
trans-1,2-Dichloroethene	96
2-Butanone (Methyl Ethyl Ketone)	87
Tetrahydrofuran	97
1,4-Dioxane	88
4-Methyl-2-pentanone	108
2-Hexanone	96
Bromoform	103
4-Ethyltoluene	104
Ethanol	73
Methyl tert-butyl ether	70
3-Chloropropene	86
2,2,4-Trimethylpentane	107
Naphthalene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-14dec  
 Sample Matrix: GAS Fraction: VOA  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Level: LOW Operator: cb  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: 2926Spectra.spk Quant Type: ISTD  
 Sublist File: AT04ENSR.sub  
 Method File: /var/chem/msd5.i/5-14dec.b/t14qn12c.m  
 Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	54.608	109.22	70-130
9 Freon 114	50.000	48.947	97.89	70-130
10 Chloromethane	50.000	55.224	110.45	70-130
13 Vinyl Chloride	50.000	47.186	94.37	70-130
12 1,3-Butadiene	50.000	52.784	105.57	60-140
15 Bromomethane	50.000	46.011	92.02	70-130
19 Chloroethane	50.000	40.010	80.02	70-130
20 Trichlorofluoromet	50.000	50.320	100.64	70-130
26 Ethanol	50.000	36.590	73.18	60-140
30 Freon 113	50.000	54.125	108.25	70-130
31 1,1-Dichloroethene	50.000	56.215	112.43	70-130
35 Carbon Disulfide	50.000	45.958	91.92	60-140
32 Acetone	50.000	52.685	105.37	60-140
36 2-Propanol	50.000	48.994	97.99	60-140
38 3-Chloropropene	50.000	42.859	85.72	60-140
43 Methylene Chloride	50.000	56.330	112.66	70-130
46 MTBE	50.000	34.915	69.83	60-140
47 trans-1,2-Dichloro	50.000	48.048	96.10	60-140
51 Hexane	50.000	53.527	107.05	60-140
55 1,1-Dichloroethane	50.000	51.892	103.78	70-130
66 cis-1,2-Dichloroet	50.000	51.387	102.77	70-130
67 2-Butanone	50.000	43.742	87.48	60-140
70 Tetrahydrofuran	50.000	48.427	96.85	60-140
72 Chloroform	50.000	51.091	102.18	70-130
74 Cyclohexane	50.000	46.825	93.65	60-140
75 1,1,1-Trichloroeth	50.000	54.529	109.06	70-130
56 Vinyl Acetate	50.000	60.166	120.33	60-140
77 Carbon Tetrachlori	50.000	55.643	111.29	70-130
80 2,2,4-Trimethylpen	50.000	53.503	107.01	60-140
81 Benzene	50.000	45.450	90.90	70-130
85 1,2-Dichloroethane	50.000	56.355	112.71	70-130
90 Heptane	50.000	48.252	96.50	60-140
93 Trichloroethene	50.000	46.583	93.17	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	47.859	95.72	70-130
99 1,4-Dioxane	50.000	43.751	87.50	60-140
100 Bromodichlorometha	50.000	50.770	101.54	60-140
103 cis-1,3-Dichloropr	50.000	50.172	100.34	70-130
106 4-Methyl-2-pentano	50.000	54.086	108.17	60-140
108 Toluene	50.000	48.049	96.10	70-130
113 trans-1,3-Dichloro	50.000	50.920	101.84	70-130
114 1,1,2-Trichloroeth	50.000	46.074	92.15	70-130
116 Tetrachloroethene	50.000	47.158	94.32	70-130
119 2-Hexanone	50.000	48.224	96.45	60-140
120 Dibromochlorometha	50.000	50.757	101.51	60-140
122 1,2-Dibromoethane	50.000	45.128	90.26	70-130
126 Chlorobenzene	50.000	44.992	89.98	70-130
128 Ethyl Benzene	50.000	44.367	88.73	70-130
130 m,p-Xylene	50.000	46.467	92.93	70-130
132 o-Xylene	50.000	47.157	94.31	70-130
133 Styrene	50.000	45.383	90.77	70-130
134 Bromoform	50.000	51.673	103.35	60-140
136 Cumene	50.000	48.302	96.60	60-140
141 1,1,2,2-Tetrachlor	50.000	45.430	90.86	70-130
142 Propylbenzene	50.000	51.860	103.72	60-140
144 4-Ethyltoluene	50.000	52.284	104.57	60-140
147 1,3,5-Trimethylben	50.000	51.711	103.42	70-130
152 1,2,4-Trimethylben	50.000	49.114	98.23	70-130
155 1,3-Dichlorobenzen	50.000	43.103	86.21	70-130
156 1,4-Dichlorobenzen	50.000	48.606	97.21	70-130
157 alpha-Chlorotoluen	50.000	52.128	104.26	70-130
159 1,2-Dichlorobenzen	50.000	42.304	84.61	70-130
163 1,2,4-Trichloroben	50.000	44.735	89.47	70-130
164 Hexachlorobutadien	50.000	45.425	90.85	70-130
6 Propylene	50.000	54.337	108.67	70-130
165 Naphthalene	50.000	48.622	97.25	60-140
11 Butane	50.000	50.786	101.57	70-130
17 Isopentane	50.000	51.608	103.22	70-130
94 Methyl Cyclohexane	50.000	47.389	94.78	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	27.790	111.16	70-130
\$ 107 Toluene-d8	25.000	25.785	103.14	70-130
\$ 138 Bromofluorobenzene	25.000	25.965	103.86	70-130

Report Date: 14-Dec-2007 10:02

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-14dec.b/5121403.d  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Inj Date : 14-DEC-2007 09:53  
 Operator : cb Inst ID: msd5.i  
 Smp Info : 100mL #1443-345A  
 Misc Info : 50ppbv (100ppbv)  
 Comment :  
 Method : /var/chem/msd5.i/5-14dec.b/t14qn12c.m  
 Meth Date : 14-Dec-2007 09:31 cbond Quant Type: ISTD  
 Cal Date : 27-NOV-2007 12:08 Cal File: 5112707.d  
 Als bottle: 1 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 71	Bromochloromethane					CAS #: 74-97-5		
8.059	8.059	(1.000)	130	267092	25.0000	80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	203592		50.24- 110.24	76.23	
8.059	8.059	(1.000)	49	646928		217.54- 277.54	242.21	
-----								
* 92	1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912	(1.000)	114	1035901	25.0000	80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	175878		0.00- 47.12	16.98	
-----								
* 125	Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999	(1.000)	117	833825	25.0000	80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	499577		0.00- 30.00	59.91	
-----								
\$ 84	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137	(1.130)	65	444285	27.7904	27.790 80.00- 120.00	100.00	
9.110	9.137	(1.130)	67	236825		27.88- 87.88	53.30	
-----								
\$ 107	Toluene-d8					CAS #: 2037-26-5		
12.677	12.704	(1.279)	98	943013	25.7847	25.785 80.00- 120.00	100.00	
12.677	12.704	(1.279)	70	86945		0.00- 40.29	9.22	



CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPEV) ( PPBV) TARGET RANGE RATIO  
 == == ===== == ===== ===== =====

\$ 107 Toluene-d8 (continued)

12.677 12.704 (1.279) 100 612608 37.87- 97.87 64.96

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 505162 25.9648 25.965 80.00- 120.00 100.00

16.575 16.575 (1.105) 95 790561 127.16- 187.16 156.50

16.575 16.575 (1.105) 176 468941 66.04- 126.04 92.83

6 Propylene

CAS #: 115-07-1

2.280 2.308 (0.283) 41 1012990 54.3371 54.337 80.00- 120.00 100.00

2.280 2.308 (0.283) 42 698813 0.00- 30.00 68.99

2.280 2.308 (0.283) 39 679904 0.00- 30.00 67.12

8 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.336 2.363 (0.290) 85 1724628 54.6082 54.608 80.00- 120.00 100.00

2.336 2.363 (0.290) 87 553764 0.00- 30.00 32.11

9 Freon 114

CAS #: 76-14-2

2.474 2.474 (0.307) 135 1410752 48.9466 48.947 80.00- 120.00 100.00

2.474 2.474 (0.307) 137 462117 1.63- 61.63 32.76

10 Chloromethane

CAS #: 74-87-3

2.612 2.640 (0.324) 50 1309598 55.2236 55.224 80.00- 120.00 100.00

2.612 2.640 (0.324) 52 402781 0.00- 30.00 30.76

13 Vinyl Chloride

CAS #: 75-01-4

2.778 2.806 (0.345) 62 1077039 47.1856 47.186 80.00- 120.00 100.00

2.778 2.806 (0.345) 64 398218 0.00- 30.00 36.97

12 1,3-Butadiene

CAS #: 106-99-0

2.750 2.778 (0.341) 54 1028954 52.7837 52.784 80.00- 120.00 100.00

2.750 2.778 (0.341) 39 1137558 0.00- 30.00 110.55

15 Bromomethane

CAS #: 74-83-9

3.276 3.303 (0.406) 94 678022 46.0112 46.011 80.00- 120.00 100.00

3.276 3.303 (0.406) 96 629696 65.44- 125.44 92.87

19 Chloroethane

CAS #: 75-00-3

3.414 3.414 (0.424) 64 464541 40.0103 40.010 80.00- 120.00 100.00

3.414 3.414 (0.424) 49 141492 0.00- 30.00 30.46

3.414 3.414 (0.424) 66 133043 0.00- 30.00 28.64

20 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.718 3.746 (0.461) 101 1732674 50.3202 50.320 80.00- 120.00 100.00

3.718 3.746 (0.461) 103 1141920 33.97- 93.97 65.91

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPBV) ( PPBV) TARGET RANGE RATIO  
 == == ===== == ===== ===== ===== =====

26 Ethanol CAS #: 64-17-5  
 4.078 4.105 (0.506) 45 273710 36.5902 36.590 80.00- 120.00 100.00  
 4.105 4.105 (0.509) 43 46314 0.00- 30.00 16.92  
 4.105 4.105 (0.509) 46 116294 0.00- 30.00 42.49

30 Freon 113 CAS #: 76-13-1  
 4.520 4.548 (0.561) 151 1158818 54.1246 54.125 80.00- 120.00 100.00  
 4.520 4.548 (0.561) 153 738177 32.62- 92.62 63.70  
 4.520 4.548 (0.561) 101 1522755 100.72- 160.72 131.41

31 1,1-Dichloroethene CAS #: 75-35-4  
 4.575 4.575 (0.568) 61 1592876 56.2150 56.215 80.00- 120.00 100.00  
 4.575 4.575 (0.568) 96 808278 23.95- 83.95 50.74  
 4.575 4.575 (0.568) 98 531706 2.94- 62.94 33.38

32 Acetone CAS #: 67-64-1  
 4.713 4.741 (0.585) 58 558382 52.6849 52.685 80.00- 120.00 100.00  
 4.713 4.741 (0.585) 43 1682410 0.00- 30.00 301.30

36 2-Propanol CAS #: 67-63-0  
 4.935 4.935 (0.612) 45 1847945 48.9937 48.994 80.00- 120.00 100.00  
 4.907 4.935 (0.609) 43 413009 0.00- 30.00 22.35  
 4.935 4.935 (0.612) 59 63762 0.00- 30.00 3.45

35 Carbon Disulfide CAS #: 75-15-0  
 4.907 4.907 (0.609) 76 2205298 45.9579 45.958 80.00- 120.00 100.00

38 3-Chloropropene CAS #: 107-05-1  
 5.184 5.211 (0.643) 76 342427 42.8592 42.859 80.00- 120.00 100.00  
 5.184 5.211 (0.643) 41 1512028 0.00- 30.00 441.56

43 Methylene Chloride CAS #: 75-09-2  
 5.460 5.460 (0.677) 49 1364829 56.3304 56.330 80.00- 120.00 100.00  
 5.460 5.460 (0.677) 84 663508 18.66- 78.66 48.61  
 5.432 5.460 (0.674) 51 419845 0.00- 30.00 30.76

46 MTBE CAS #: 1634-04-4  
 5.764 5.792 (0.715) 73 636805 34.9148 34.915 80.00- 120.00 100.00  
 5.764 5.792 (0.715) 57 219314 4.30- 64.30 34.44  
 5.764 5.792 (0.715) 41 235334 0.00- 30.00 36.96

47 trans-1,2-Dichloroethene CAS #: 156-60-5  
 5.819 5.847 (0.722) 96 824546 48.0485 48.048 80.00- 120.00 100.00  
 5.819 5.819 (0.722) 61 1428120 147.17- 207.17 173.20  
 5.819 5.847 (0.722) 98 527576 0.00- 30.00 63.98

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE ( PPEV) ( PPBV) TARGET RANGE RATIO  
 == == ===== == ===== ===== =====

51 Hexane CAS #: 110-54-3  
 6.151 6.179 (0.763) 57 1867935 53.5274 53.527 80.00- 120.00 100.00  
 6.151 6.179 (0.763) 43 1333487 0.00- 30.00 71.39  
 6.151 6.179 (0.763) 86 236837 0.00- 30.00 12.68

55 1,1-Dichloroethane CAS #: 75-34-3  
 6.594 6.621 (0.818) 63 1612375 51.8915 51.892 80.00- 120.00 100.00  
 6.594 6.621 (0.818) 65 476071 0.00- 58.92 29.53

67 2-Butanone CAS #: 78-93-3  
 7.672 7.672 (0.952) 72 328011 43.7417 43.742 80.00- 120.00 100.00  
 7.644 7.672 (0.949) 43 2230514 631.02- 691.02 680.01  
 7.644 7.672 (0.949) 57 153198 0.00- 30.00 46.71

66 cis-1,2-Dichloroethene CAS #: 156-59-2  
 7.617 7.644 (0.945) 61 1198872 51.3874 51.387 80.00- 120.00 100.00  
 7.617 7.644 (0.945) 96 746850 32.76- 92.76 62.30  
 7.617 7.644 (0.945) 98 479967 10.53- 70.53 40.03

70 Tetrahydrofuran CAS #: 109-99-9  
 8.031 8.059 (0.997) 42 1352094 48.4266 48.427 80.00- 120.00 100.00  
 8.031 8.059 (0.997) 71 296766 0.00- 51.98 21.95  
 8.031 8.059 (0.997) 72 327606 0.00- 30.00 24.23

72 Chloroform CAS #: 67-66-3  
 8.197 8.197 (1.017) 83 1345040 51.0911 51.091 80.00- 120.00 100.00  
 8.197 8.197 (1.017) 85 876723 34.61- 94.61 65.18

75 1,1,1-Trichloroethane CAS #: 71-55-6  
 8.418 8.446 (1.045) 97 1434919 54.5292 54.529 80.00- 120.00 100.00  
 8.418 8.446 (1.045) 99 908853 33.16- 93.16 63.34

74 Cyclohexane CAS #: 110-82-7  
 8.418 8.418 (1.045) 84 992632 46.8248 46.825 80.00- 120.00 100.00  
 8.391 8.418 (1.041) 56 1774466 148.82- 208.82 178.76  
 8.391 8.418 (1.041) 41 989537 69.85- 129.85 99.69

56 Vinyl Acetate CAS #: 108-05-4  
 6.151 6.179 (0.763) 86 236837 60.1663 60.166 80.00- 120.00 100.00  
 6.151 6.179 (0.763) 43 1333487 0.00- 30.00 563.04  
 6.151 6.179 (0.763) 42 666357 0.00- 30.00 281.36

77 Carbon Tetrachloride CAS #: 56-23-5  
 8.667 8.667 (1.075) 119 1208954 55.6429 55.643 80.00- 120.00 100.00  
 8.667 8.667 (1.075) 117 1273293 73.15- 133.15 105.32

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	
-----										
80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	5119667	53.5030	53.503		80.00- 120.00	100.00	
9.110	9.110	(1.130)	56	1677441				0.00- 30.00	32.76	
9.110	9.110	(1.130)	41	1347290				0.00- 30.00	26.32	
-----										
81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	2029338	45.4500	45.450		80.00- 120.00	100.00	
9.082	9.082	(0.916)	77	461406				0.00- 30.00	22.74	
-----										
85	1,2-Dichloroethane					CAS #: 107-06-2				
9.276	9.276	(0.936)	62	1152744	56.3550	56.355		80.00- 120.00	100.00	
9.276	9.276	(0.936)	64	358471				0.00- 30.00	31.10	
-----										
90	Heptane					CAS #: 142-82-5				
9.469	9.497	(0.955)	100	240638	48.2519	48.252		80.00- 120.00	100.00	
9.469	9.497	(0.955)	43	2118342				0.00- 30.00	880.30	
9.469	9.497	(0.955)	71	705272				0.00- 30.00	293.08	
-----										
93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	843628	46.5833	46.583		80.00- 120.00	100.00	
10.326	10.326	(1.042)	130	813499				63.23- 123.23	96.43	
10.326	10.326	(1.042)	97	538659				34.29- 94.29	63.85	
-----										
98	1,2-Dichloropropane					CAS #: 78-87-5				
10.824	10.852	(1.092)	63	840356	47.8593	47.859		80.00- 120.00	100.00	
10.824	10.852	(1.092)	62	568927				41.73- 101.73	67.70	
10.824	10.852	(1.092)	41	617718				45.21- 105.21	73.51	
-----										
99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	446167	43.7511	43.751		80.00- 120.00	100.00	
11.045	11.073	(1.114)	58	461432				70.42- 130.42	103.42	
11.045	11.073	(1.114)	57	136671				0.00- 30.00	30.63	
-----										
100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	1285522	50.7703	50.770		80.00- 120.00	100.00	
11.405	11.405	(1.151)	85	816468				32.55- 92.55	63.51	
-----										
103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	900369	50.1720	50.172		80.00- 120.00	100.00	
12.289	12.317	(1.240)	77	281935				0.50- 60.50	31.31	
12.289	12.317	(1.240)	39	678094				46.63- 106.63	75.31	
-----										
106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.594	12.594	(1.271)	58	791155	54.0862	54.086		80.00- 120.00	100.00	
12.594	12.594	(1.271)	43	2273997				0.00- 30.00	287.43	
12.594	12.594	(1.271)	85	248387				0.00- 30.00	31.40	
-----										

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL ( PPEV)	FINAL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	2213225	48.0493	48.049	80.00-	120.00	100.00	
12.815	12.815	(1.293)	92	1281651			28.02-	88.02	57.91	
-----										
113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	897036	50.9206	50.920	80.00-	120.00	100.00	
13.368	13.368	(0.891)	77	283582			1.16-	61.16	31.61	
13.340	13.368	(0.889)	39	659221			41.10-	101.10	73.49	
-----										
114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	724030	46.0740	46.074	80.00-	120.00	100.00	
13.644	13.644	(0.910)	99	431902			33.05-	93.05	59.65	
13.644	13.644	(0.910)	83	583636			54.04-	114.04	80.61	
-----										
116 Tetrachloroethene						CAS #:	127-18-4			
13.700	13.700	(0.913)	166	861381	47.1583	47.158	80.00-	120.00	100.00	
13.672	13.700	(0.912)	129	706065			52.60-	112.60	81.97	
13.672	13.700	(0.912)	131	669318			48.25-	108.25	77.70	
-----										
119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	1057128	48.2238	48.224	80.00-	120.00	100.00	
14.004	14.004	(0.934)	43	2183997			179.19-	239.19	206.60	
14.004	14.031	(0.934)	100	152418			0.00-	30.00	14.42	
-----										
120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	1116037	50.7568	50.757	80.00-	120.00	100.00	
14.197	14.197	(0.947)	127	870439			0.00-	30.00	77.99	
-----										
122 1,2-Dibromoethane						CAS #:	106-93-4			
14.335	14.363	(0.956)	107	1039501	45.1277	45.128	80.00-	120.00	100.00	
14.363	14.363	(0.958)	109	1008136			64.96-	124.96	96.98	
-----										
126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	1614364	44.9921	44.992	80.00-	120.00	100.00	
15.027	15.027	(1.002)	114	520084			2.22-	62.22	32.22	
15.027	15.027	(1.002)	77	1036956			33.96-	93.96	64.23	
-----										
128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	860057	44.3674	44.367	80.00-	120.00	100.00	
15.165	15.165	(1.011)	91	3020290			0.00-	30.00	351.17	
-----										
130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	1106350	46.4674	46.467	80.00-	120.00	100.00	
15.331	15.331	(1.022)	91	2456164			0.00-	30.00	222.01	
-----										
132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	1067675	47.1568	47.157	80.00-	120.00	100.00	

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL ( PPEV)	FINAL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	2467014			206.95- 266.95	231.06	
-----									
133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	1514950	45.3831	45.383	80.00- 120.00	100.00	
15.911	15.911	(1.061)	78	841152			25.88- 85.88	55.52	
-----									
134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	1012527	51.6727	51.673	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	520857			22.19- 82.19	51.44	
-----									
141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	1551211	45.4306	45.430	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	991503			35.27- 95.27	63.92	
-----									
144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	3492764	52.2846	52.284	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1001526			0.00- 59.00	28.67	
-----									
147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	3122458	51.7115	51.711	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	1444098			0.00- 30.00	46.25	
-----									
152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	2515764	49.1141	49.114	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1121314			13.88- 73.88	44.57	
-----									
155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	1563050	43.1030	43.103	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1009983			0.00- 30.00	64.62	
17.764	17.764	(1.184)	111	659090			0.00- 30.00	42.17	
-----									
156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2065742	48.6055	48.606	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1318351			0.00- 30.00	63.82	
17.847	17.847	(1.190)	111	866868			0.00- 30.00	41.96	
-----									
157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	2789688	52.1285	52.128	80.00- 120.00	100.00	
17.985	17.985	(1.199)	126	540834			0.00- 30.00	19.39	
-----									
159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	1613508	42.3041	42.304	80.00- 120.00	100.00	
18.206	18.206	(1.214)	148	1027398			34.86- 94.86	63.67	
18.206	18.206	(1.214)	111	670476			11.83- 71.83	41.55	
-----									

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL ( PPEV)	FINAL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
163	1,2,4-Trichlorobenzene					CAS #:	120-82-1			
19.478	19.506	(1.299)	180	1211101	44.7347	44.735	80.00-	120.00	100.00	
19.478	19.506	(1.299)	182	1093886			63.24-	123.24	90.32	
-----										
164	Hexachlorobutadiene					CAS #:	87-68-3			
19.589	19.589	(1.306)	225	864000	45.4254	45.425	80.00-	120.00	100.00	
19.589	19.589	(1.306)	223	540651			31.90-	91.90	62.58	
-----										
142	Propylbenzene					CAS #:	103-65-1			
16.824	16.824	(1.122)	91	4077441	51.8601	51.860	80.00-	120.00	100.00	
16.824	16.824	(1.122)	120	851624			0.00-	30.00	20.89	
16.824	16.824	(1.122)	105	134601			0.00-	30.00	3.30	
-----										
136	Cumene					CAS #:	98-82-8			
16.326	16.326	(1.088)	105	3315886	48.3022	48.302	80.00-	120.00	100.00	
16.326	16.326	(1.088)	120	865337			0.00-	30.00	26.10	
16.326	16.326	(1.088)	51	522271			0.00-	30.00	15.75	
-----										
165	Naphthalene					CAS #:	91-20-3			
19.672	19.672	(1.312)	128	4384231	48.6226	48.622	80.00-	120.00	100.00	
19.672	19.672	(1.312)	127	557399			0.00-	30.00	12.71	
-----										
17	Isopentane					CAS #:	78-78-4			
3.414	3.442	(0.424)	43	1706408	51.6080	51.608	80.00-	120.00	100.00	
3.414	3.442	(0.424)	57	1034880			0.00-	30.00	60.65	
3.414	3.442	(0.424)	72	88291			0.00-	30.00	5.17	
-----										
11	Butane					CAS #:	106-97-8			
2.695	2.695	(0.334)	58	286295	50.7858	50.786	80.00-	120.00	100.00	
2.695	2.695	(0.334)	43	2239730			0.00-	30.00	782.32	
-----										
94	Methyl Cyclohexane					CAS #:	108-87-2			
10.547	10.547	(1.064)	83	1222097	47.3888	47.389	80.00-	120.00	100.00	
10.547	10.547	(1.064)	98	633953			0.00-	30.00	51.87	
10.547	10.547	(1.064)	55	1517412			0.00-	30.00	124.16	
-----										

Report Date: 14-Dec-2007 10:02

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 14-DEC-2007

Lab File ID: 5121403.d

Calibration Time: 09:24

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /var/chem/msd5.i/5-14dec.b/t14qn12c.m

Misc Info: 50ppbv (100ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	327639	196583	458695	267092	-18.48
92 1,4-Difluorobenze	1281185	768711	1793659	1035901	-19.15
125 Chlorobenzene-d5	1014841	608905	1420777	833825	-17.84

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

AREA UPPER LIMIT = + 40% of internal standard area.

AREA LOWER LIMIT = - 40% of internal standard area.

RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

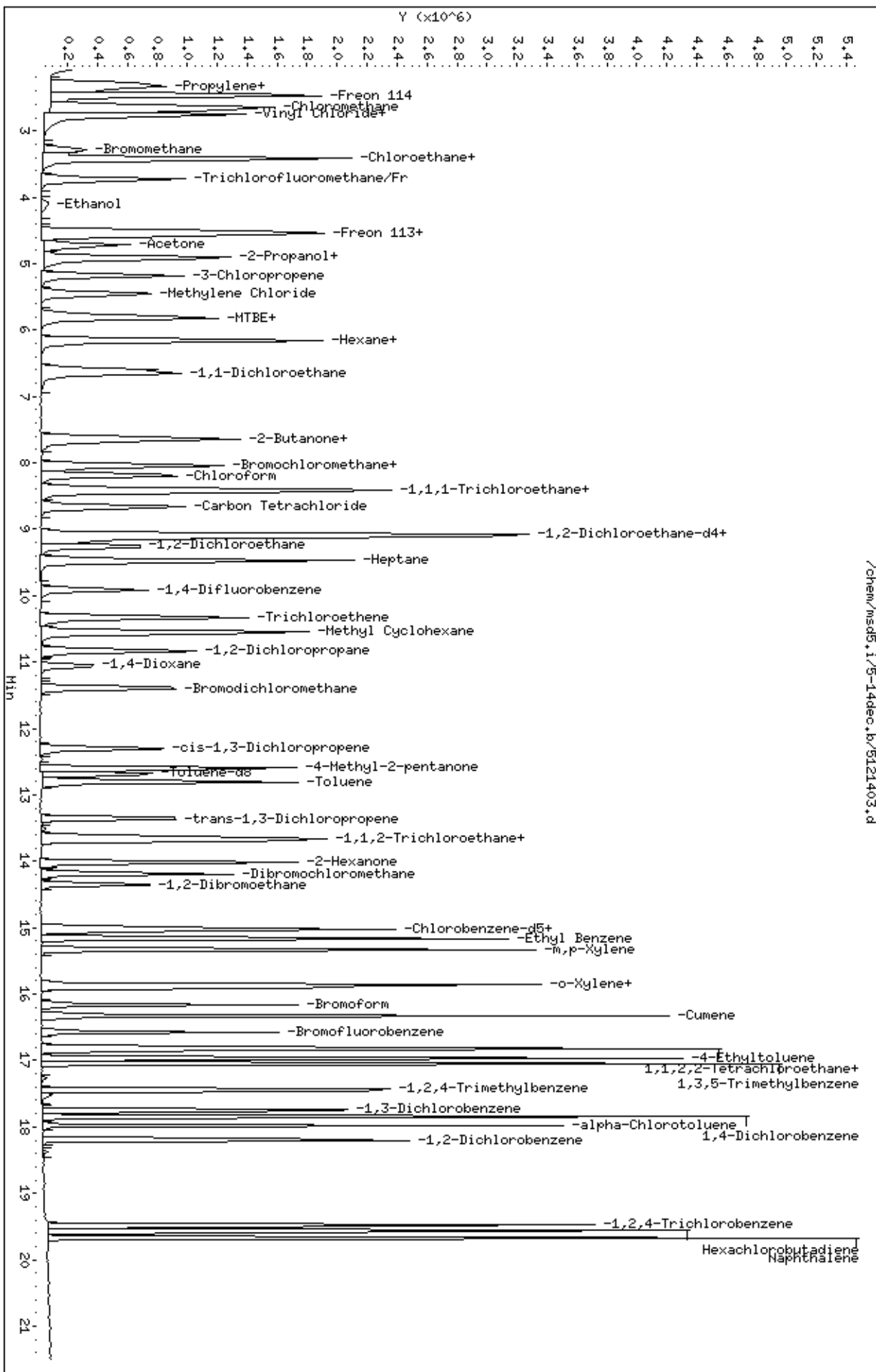


Data File: /chem/msd5.1/5-14dec.b/5121403.d  
 Date: 14-DEC-2007 09:53  
 Client ID: LCS-1  
 Sample Info: 100mL #1443-345A

Column phase: RTX-624

Instrument: msd5.1  
 Operator: cb  
 Column diameter: 0.53

/chem/msd5.1/5-14dec.b/5121403.d



m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	30.16
75	30.0 - 60.0% of mass 95	44.64
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.92
173	Less than 2.0% of mass 174	( 0.87 ) <sup>1</sup>
174	Greater than 50.0% of mass 95	50.16
175	5.0 - 9.0% of mass 174	( 7.60 ) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	( 97.43 ) <sup>1</sup>
177	5.0 - 9.0% of mass 176	( 6.38 ) <sup>2</sup>

BFB Injection Date: 12/14/07  
 BFB Injection Time: 0859  
 BFB File ID: 5121401  
 Tekmar Purge Flow: 2.19 x 10<sup>-5</sup> ppm  
 Vacuum:  
 IS/Std #: 1576-131 Exp. Date: 2-26-08  
 BCM 327639  
 1,4-DFB 1281185  
 CB-d5 1014841  
 Verified CCV IS vs ICAL mid-point (-40% D) CB

Verify 176/174 m/z Ratio:  $\frac{48/912}{449/776} \times 100 = 97.43\%$   
 - value in parenthesis is % mass 174  
 - value in parenthesis is % mass 176

NOAH Cart #: 7, 5 File #: 5121401

Calculation Check:

ppbv of compound =  $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \text{Conc}_{\text{std}} \times \text{RRF} = \frac{(1164673)}{(1281185)} \times (25.0) = (0.88263) \times (25.7485)$   
 Reported Result 25.749

File ID: 5121402  
 Compound: toluene-d8  
 Initials: CB

%	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	5121401	BFB Tune Check	147665	50mg	2ul	1.00	12/14/07	0859	CB	Apex - 1
✓	02	CCV-1 (200ppbv)	1443-379	50ppbv	50ml	1		0724	CB	
✓	03	LC5-1 (100ppbv)	1443-355A	↓	100ml	1		2953	CB	
✓	04	Lab Blank	13673	Humid	200ml	1		1152	CB	Cont Cont #10 Log 8
✓	05	↓	↓	↓	↓	↓		1150	CB	Cont Cont #5 Log 1
✓	06	0712172B-09A	1576	5.0"Hg-5psi	35ml	9.20		1249	CB	
✓	07	↓	↓	↓	30ml	11.9		1316	CB	
✓	08	-05A	32128	4.5"Hg-	60ml	5.27		1344	CB	
✓	09	-05AA	↓	↓	↓	↓		1412	CB	
✓	10	-03A	14006	1.5"Hg-	200ml	1.41		1444	CB	

11	✓	S121411	07121728 - 01A	9408	2.5" H <sub>2</sub> O	200mL	1.46	12/14/07	1517	CB
12	✓	12	0712156A - 01A	34413	11.5" H <sub>2</sub> O	↓	2.17	↓	1549	CS
13	✓	13	-02A	20936	12.5" H <sub>2</sub> O	↓	2.30	↓	1622	CS
14	✓	14	-03A	34352	11.0" H <sub>2</sub> O	↓	2.12	↓	1655	CS
15	✓	S121415	071225310 - 01A	34234	0.8" H <sub>2</sub> O	200mL	1.27	↓	1812	CS
16	✓	16	0712115 - 01A	12335	5.0" H <sub>2</sub> O	↓	1.41	↓	1844	CS
17	✓	17	01A A	12333	5.0" H <sub>2</sub> O	↓	↓	1912	CS	
18	✓	18	02A	<del>25236</del> 25236	1.5" H <sub>2</sub> O	↓	1.68	↓	1949	BS
19	✓	19	07122531 - 01A	34362	4.0" H <sub>2</sub> O	↓	1.55	↓	2022	BS
20	✓	20	02A	02219	3.5" H <sub>2</sub> O	↓	1.52	↓	2054	BS
21	✓	21	03A	11325	8.0" H <sub>2</sub> O	↓	1.49	↓	2127	BS
22	✓	22	0712253A - 01A	33574	0.2" H <sub>2</sub> O	↓	1.30	↓	2159	BS
23	✓	23	02A	25240	0.5" H <sub>2</sub> O	↓	1.34	↓	2232	BS
24	✓	24	02A	↓	↓	↓	↓	↓	2304	BS
25										
26										
27										
28										
29										
30										
31										
32										

Comments:

CS  
 12-15-07

Signature

Date 12-15-07

Report Date: 12-Nov-2007 11:56

Air Toxics Ltd.

Data file : /chem/msd5.i/5-12nov.b/5111205.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 12-NOV-2007 12:01  
 Operator : cb Inst ID: msd5.i  
 Smp Info : BFB Tune Check  
 Misc Info : 2ul #1476-65 50 ng  
 Comment :  
 Method : /var/chem/msd5.i/5-12nov.b/bfb30.m  
 Meth Date : 12-Nov-2007 11:51 Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 1 QC Sample: BFB  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

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	996608		100.00- 100.00	100.00
3.803	3.900	-0.097	50	261056		15.00- 40.00	26.19
3.803	3.900	-0.097	75	425344		30.00- 60.00	42.68
3.803	3.900	-0.097	96	63608		5.00- 9.00	6.38
3.803	3.900	-0.097	173	6008		0.00- 2.00	0.85
3.803	3.900	-0.097	174	705472		50.00- 100.00	70.79
3.803	3.900	-0.097	175	51496		5.00- 9.00	7.30
3.803	3.900	-0.097	176	681408		95.00- 101.00	96.59
3.803	3.900	-0.097	177	42960		5.00- 9.00	6.30

Date : 12-NOV-2007 12:01

Client ID: BFB

Instrument: msd5.i

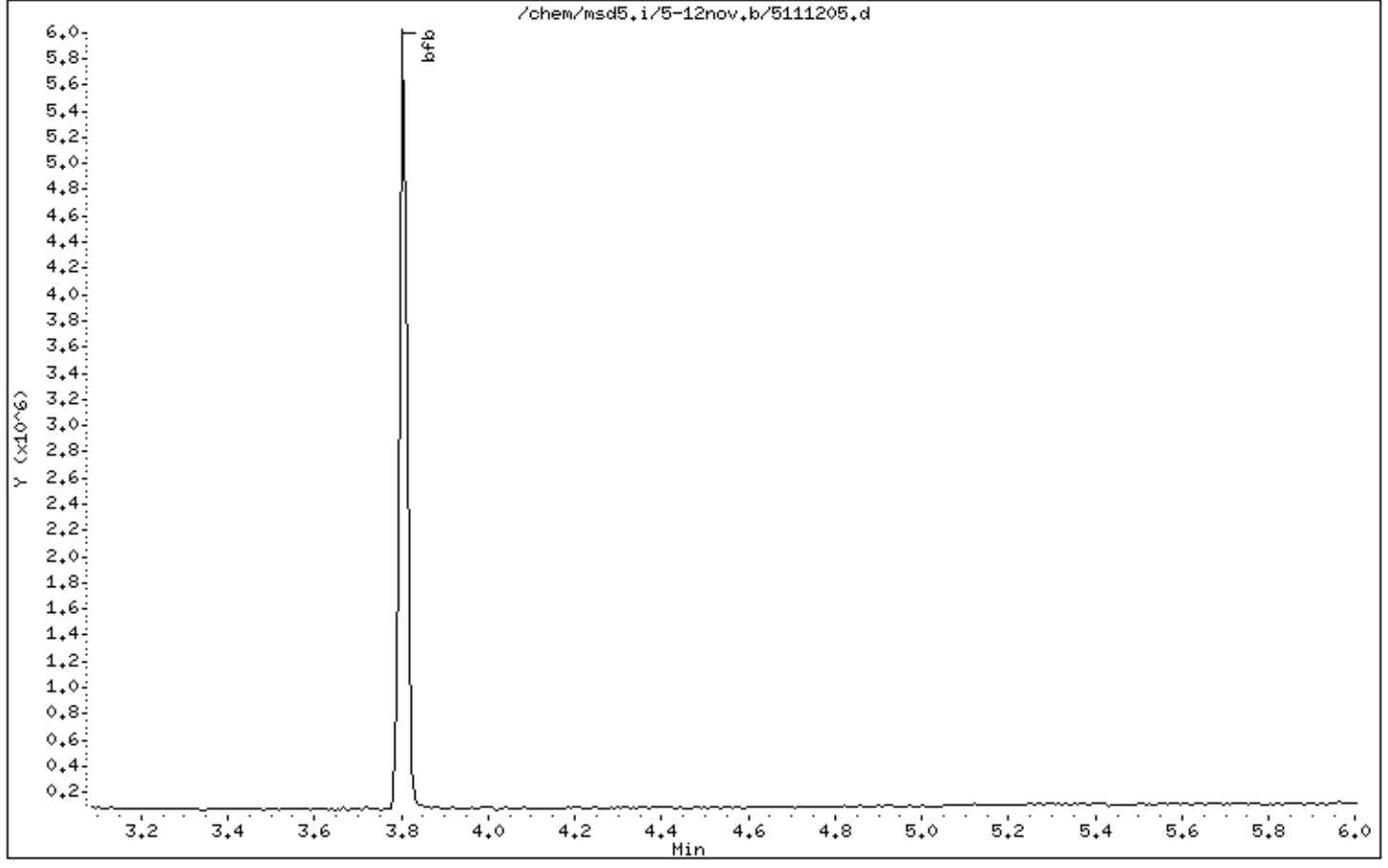
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Date : 12-NOV-2007 12:01

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

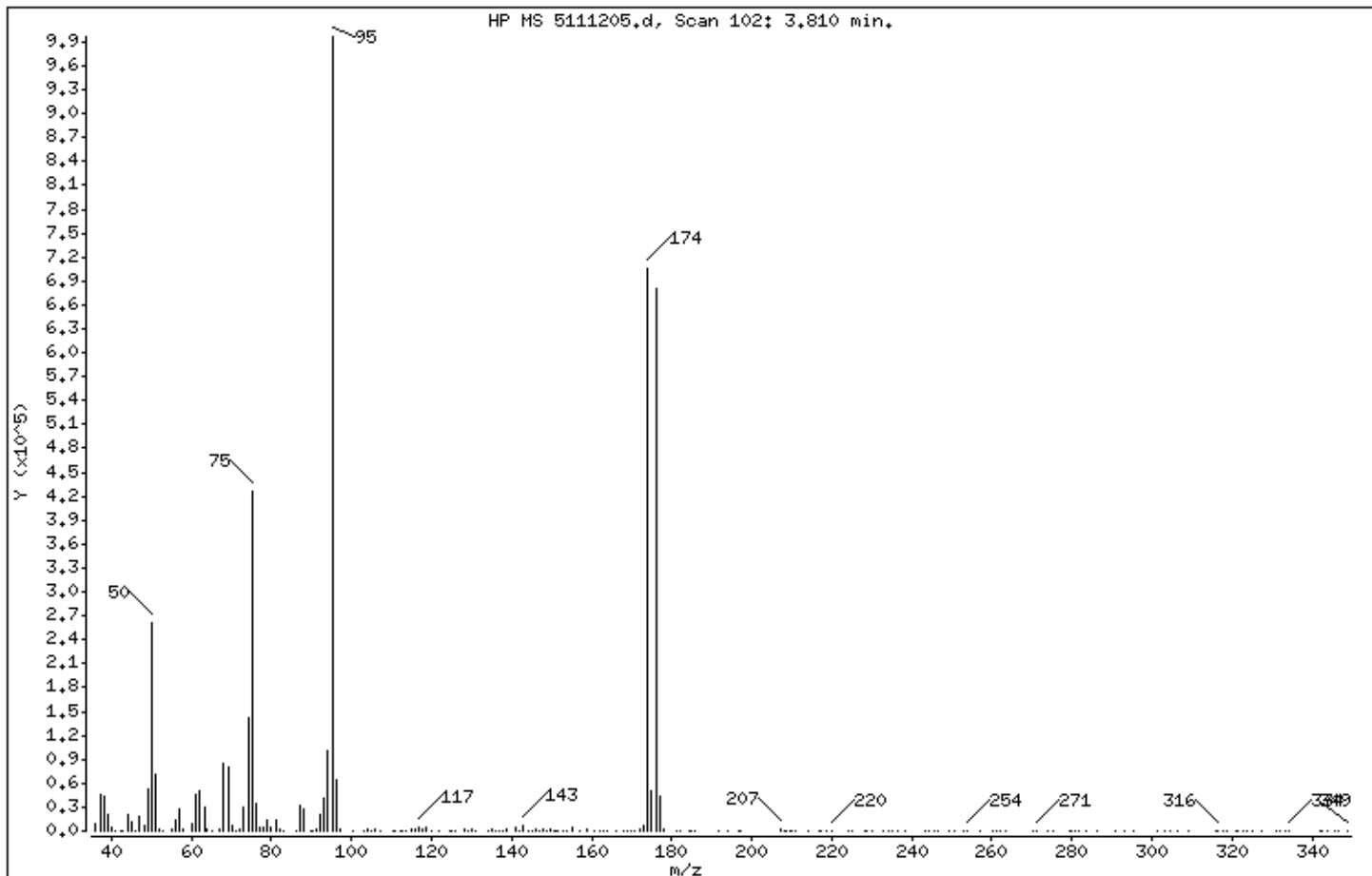
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.19
75	30.00 - 60.00% of mass 95	42.68
96	5.00 - 9.00% of mass 95	6.38
173	Less than 2.00% of mass 174	0.60 ( 0.85)
174	50.00 - 100.00% of mass 95	70.79
175	5.00 - 9.00% of mass 174	5.17 ( 7.30)
176	95.00 - 101.00% of mass 174	68.37 ( 96.59)
177	5.00 - 9.00% of mass 176	4.31 ( 6.30)

Date : 12-NOV-2007 12:01

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5111205.d

Spectrum: HP MS 5111205.d, Scan 102: 3.810 min.

Location of Maximum: 95.10

Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9119	92.00	20568	154.00	392	244.30	205
37.10	44888	93.10	40256	155.00	3494	245.40	292
38.10	43232	94.00	99728	157.00	962	246.60	295
39.10	21016	95.10	996608	158.90	1547	249.50	326
40.00	4505	96.10	63608	160.80	583	250.80	156
40.90	227	97.20	1564	162.10	150	253.10	202
42.10	175	100.30	362	162.80	546	254.00	786
42.80	1108	103.00	367	163.90	238	257.10	380
44.00	20088	103.90	2549	166.30	320	260.10	258
45.00	11319	105.00	1117	167.90	155	261.00	341
46.10	661	105.90	2508	168.70	285	262.00	380
47.00	18032	107.00	868	169.80	420	263.40	474
48.10	7435	110.20	391	170.80	868	270.10	182
49.10	51760	110.70	232	172.00	1941	271.10	821
50.10	261056	112.10	497	173.00	6008	274.10	189
51.10	72008	112.90	524	174.00	705472	275.10	367
52.10	2399	113.80	276	175.00	51496	279.30	210
52.90	405	114.90	1352	176.00	681408	280.10	225
55.20	2972	115.90	2761	177.00	42960	280.70	597
56.00	13678	116.90	3675	177.90	1240	281.70	806
57.10	26512	117.90	2302	181.30	275	283.60	396
58.00	2348	118.80	3444	181.90	232	286.50	239
60.10	8860	120.00	168	184.40	161	290.70	254
61.00	45368	122.00	842	185.00	383	293.20	451
62.00	50064	124.50	228	185.70	165	295.30	170
63.10	30528	125.10	301	191.50	399	301.50	170
64.00	2443	126.00	1056	194.00	311	303.10	182
65.10	751	128.00	2999	196.60	182	304.40	153
67.00	1799	129.10	1003	197.00	158	306.30	157
68.10	84984	129.90	3268	207.20	1736	309.10	332
69.10	81088	130.90	918	208.20	738	315.80	175
70.10	6873	134.00	440	208.80	169	316.50	524
71.00	334	134.90	1206	209.50	172	317.70	269
72.10	2580	135.90	222	210.10	339	318.80	417
73.00	29608	136.70	1066	210.70	570	320.90	356

Date : 12-NOV-2007 12:01

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5111205.d

Spectrum: HP MS 5111205.d, Scan 102: 3.810 min.

Location of Maximum: 95.10

Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	142848	137.70	454	214.00	180	321.40	152
75.10	425344	138.90	1422	217.00	487	322.70	160
76.00	33808	141.00	4191	217.50	284	323.70	157
77.00	3544	142.00	483	218.50	367	325.30	229
78.10	4667	142.90	7506	219.90	868	327.60	271
78.90	13334	144.20	439	224.10	432	331.10	340
79.90	3485	145.10	762	225.00	162	332.00	188
81.00	14052	145.90	1790	228.20	208	333.40	234
82.00	3233	147.10	501	228.70	156	334.10	704
83.10	374	148.00	1524	230.00	819	341.90	268
86.10	409	148.70	465	232.90	340	342.40	175
87.10	31552	149.70	1469	234.00	756	343.80	499
88.00	28288	150.70	406	235.20	153	345.80	155
89.70	283	151.20	548	236.70	256	346.80	220
90.30	1033	151.70	702	238.50	650	348.80	191
91.00	3140	153.10	1101	243.30	371		



Report Date: 13-Nov-2007 11:27

## Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-13nov.b/5111301.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 13-NOV-2007 11:36  
 Operator : ct Inst ID: msd5.i  
 Smp Info : BFB Tune Check  
 Misc Info : 2ul #1476-65 50 ng  
 Comment :  
 Method : /var/chem/msd5.i/5-13nov.b/bfb30.m  
 Meth Date : 13-Nov-2007 09:26 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
==	=====	=====	=====	=====	=====	=====	=====

CAS #: 460-00-4

1 bfb							
3.810	3.900	-0.090	95	634304		100.00- 100.00	100.00
3.810	3.900	-0.090	50	169086		15.00- 40.00	26.66
3.810	3.900	-0.090	75	288885		30.00- 60.00	45.54
3.810	3.900	-0.090	96	41776		5.00- 9.00	6.59
3.810	3.900	-0.090	173	1600		0.00- 2.00	0.41
3.810	3.900	-0.090	174	389406		50.00- 100.00	61.39
3.810	3.900	-0.090	175	29272		5.00- 9.00	7.52
3.810	3.900	-0.090	176	379392		95.00- 101.00	97.43
3.810	3.900	-0.090	177	23577		5.00- 9.00	6.21

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

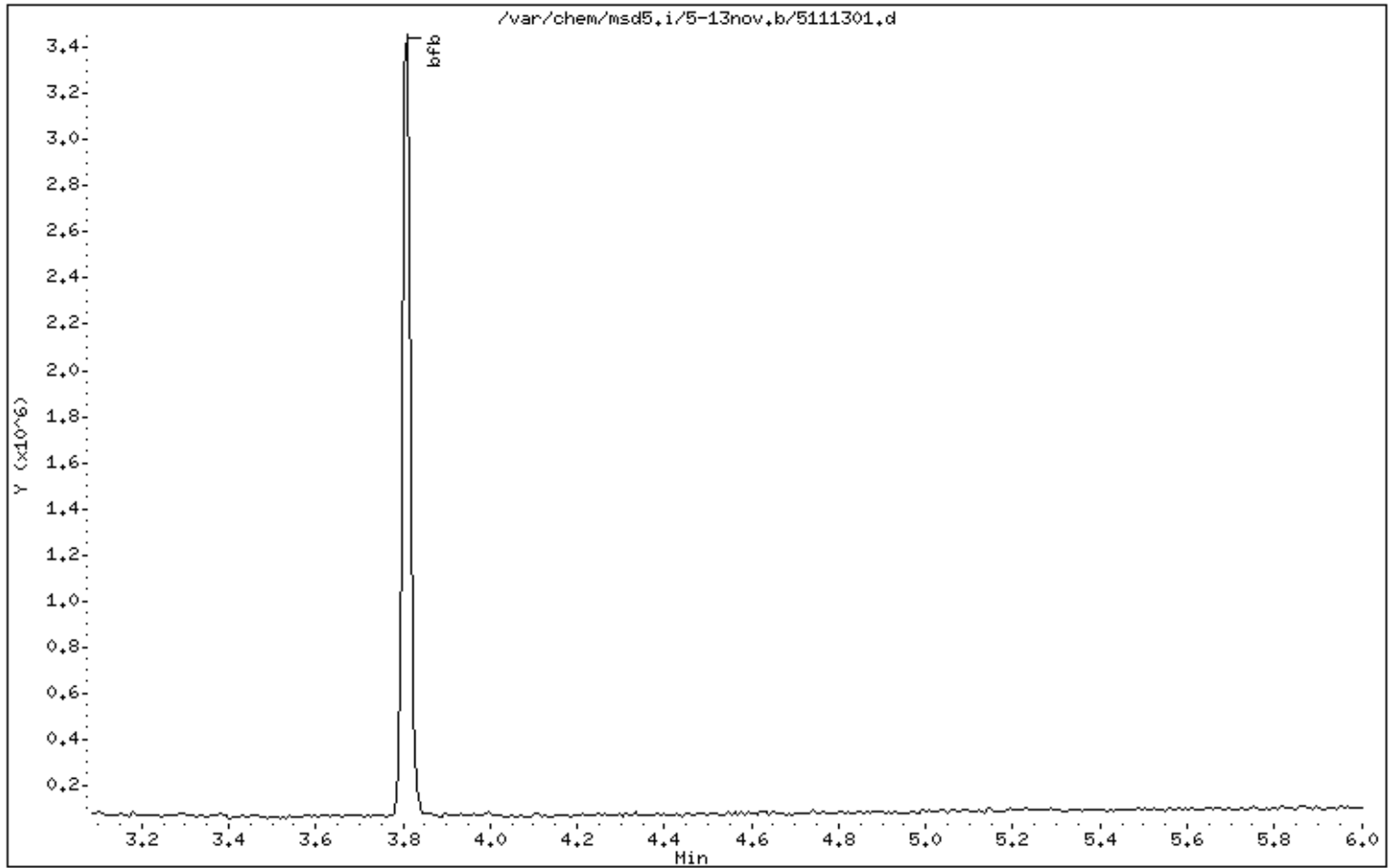
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00



Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

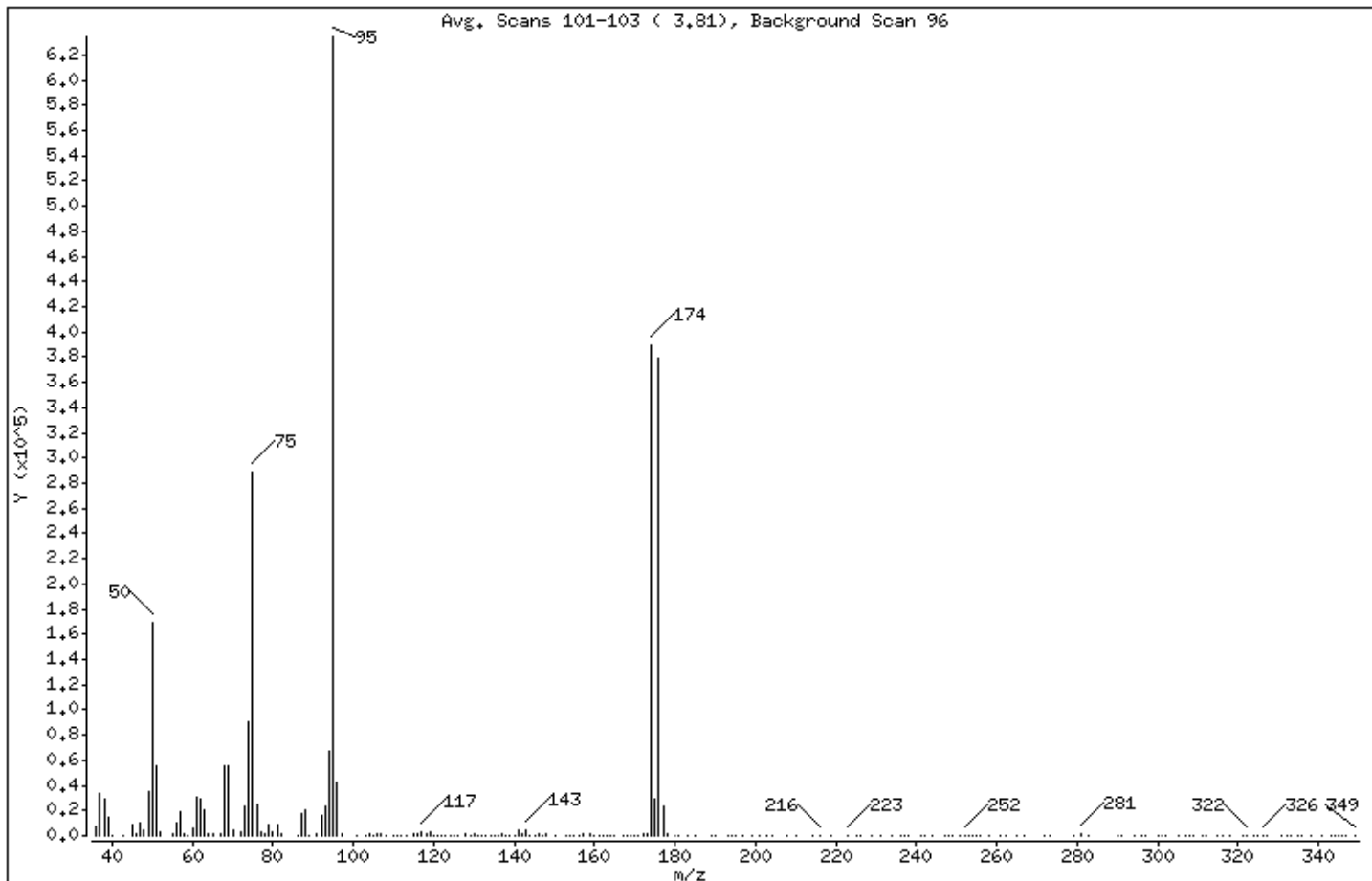
Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	26.66
75	30.00 - 60.00% of mass 95	45.54
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.25 ( 0.41)
174	50.00 - 100.00% of mass 95	61.39
175	5.00 - 9.00% of mass 174	4.61 ( 7.52)
176	95.00 - 101.00% of mass 174	59.81 ( 97.43)
177	5.00 - 9.00% of mass 176	3.72 ( 6.21)

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

Data File: 5111301.d

Spectrum: Avg. Scans 101-103 ( 3.81), Background Scan 96

Location of Maximum: 95.00

Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7266	103.00	533	162.00	54	253.00	15
37.00	33640	104.00	1547	163.00	282	254.00	286
38.00	29152	105.00	137	164.00	203	255.00	42
39.00	14159	106.00	1845	165.00	95	256.00	92
40.00	652	107.00	944	167.00	253	258.00	172
43.00	10	108.00	313	168.00	522	261.00	93
45.00	8414	110.00	249	169.00	274	262.00	245
46.00	980	111.00	600	170.00	683	265.00	211
47.00	9950	112.00	352	171.00	702	267.00	311
48.00	4612	113.00	69	172.00	1887	272.00	183
49.00	35008	115.00	1006	173.00	1600	273.00	131
50.00	169024	116.00	814	174.00	389376	279.00	343
51.00	56072	117.00	2882	175.00	29272	281.00	762
52.00	2489	118.00	1225	176.00	379392	283.00	99
55.00	1699	119.00	2811	177.00	23576	290.00	259
56.00	9519	120.00	208	178.00	1449	291.00	219
57.00	18488	121.00	90	180.00	56	294.00	84
58.00	835	122.00	139	181.00	268	296.00	108
59.00	259	123.00	265	183.00	74	297.00	140
60.00	6272	124.00	110	185.00	214	300.00	231
61.00	30008	125.00	602	189.00	142	301.00	72
62.00	28472	126.00	592	190.00	109	302.00	112
63.00	20720	128.00	1149	193.00	36	305.00	256
64.00	1581	129.00	466	194.00	221	307.00	170
65.00	817	130.00	2024	195.00	118	308.00	78
67.00	961	131.00	634	197.00	65	309.00	51
68.00	54800	132.00	160	199.00	77	311.00	61
69.00	54816	133.00	310	201.00	118	312.00	161
70.00	3978	134.00	455	203.00	130	315.00	87
72.00	2245	135.00	515	204.00	62	316.00	229
73.00	23784	136.00	91	208.00	21	318.00	260
74.00	89960	137.00	922	210.00	82	321.00	121
75.00	288832	138.00	564	214.00	86	322.00	631
76.00	25160	139.00	326	216.00	247	324.00	126
77.00	2419	140.00	347	219.00	232	325.00	87

Date : 13-NOV-2007 11:36

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ct

Column phase:

Column diameter: 2.00

Data File: 5111301.d

Spectrum: Avg. Scans 101-103 ( 3.81), Background Scan 96

Location of Maximum: 95.00

Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	1213	141.00	3959	223.00	276	326.00	440
79.00	9390	142.00	793	225.00	122	327.00	57
80.00	2355	143.00	5060	226.00	91	331.00	147
81.00	8687	144.00	53	229.00	255	332.00	134
82.00	1771	145.00	147	231.00	154	333.00	116
86.00	440	146.00	814	234.00	62	335.00	89
87.00	17888	147.00	20	236.00	75	336.00	319
88.00	20448	148.00	1388	237.00	68	338.00	110
89.00	348	150.00	313	238.00	111	341.00	219
91.00	1036	153.00	645	241.00	55	343.00	140
92.00	15548	154.00	348	242.00	52	344.00	112
93.00	23368	155.00	688	244.00	263	345.00	119
94.00	66704	156.00	198	247.00	86	346.00	59
95.00	634304	157.00	810	248.00	232	347.00	44
96.00	41776	159.00	987	249.00	153	349.00	160
97.00	1019	160.00	129	251.00	83		
101.00	62	161.00	389	252.00	390		

Report Date: 19-Nov-2007 00:23

## Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-19nov.b/5111901.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 19-NOV-2007 00:33  
 Operator : ab Inst ID: msd5.i  
 Smp Info : BFB Tune Check  
 Misc Info : 2uL #1476-65 50 ng  
 Comment :  
 Method : /var/chem/msd5.i/5-19nov.b/bfb30.m  
 Meth Date : 19-Nov-2007 00:23 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
==	=====	=====	====	=====	=====	=====	=====

CAS #: 460-00-4

1 bfb							
3.810	3.900	-0.090	95	993301		100.00- 100.00	100.00
3.810	3.900	-0.090	50	261826		15.00- 40.00	26.36
3.810	3.900	-0.090	75	471886		30.00- 60.00	47.51
3.810	3.900	-0.090	96	66493		5.00- 9.00	6.69
3.810	3.900	-0.090	173	4811		0.00- 2.00	0.76
3.810	3.900	-0.090	174	636565		50.00- 100.00	64.09
3.810	3.900	-0.090	175	46616		5.00- 9.00	7.32
3.810	3.900	-0.090	176	619498		95.00- 101.00	97.32
3.810	3.900	-0.090	177	37874		5.00- 9.00	6.11

Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

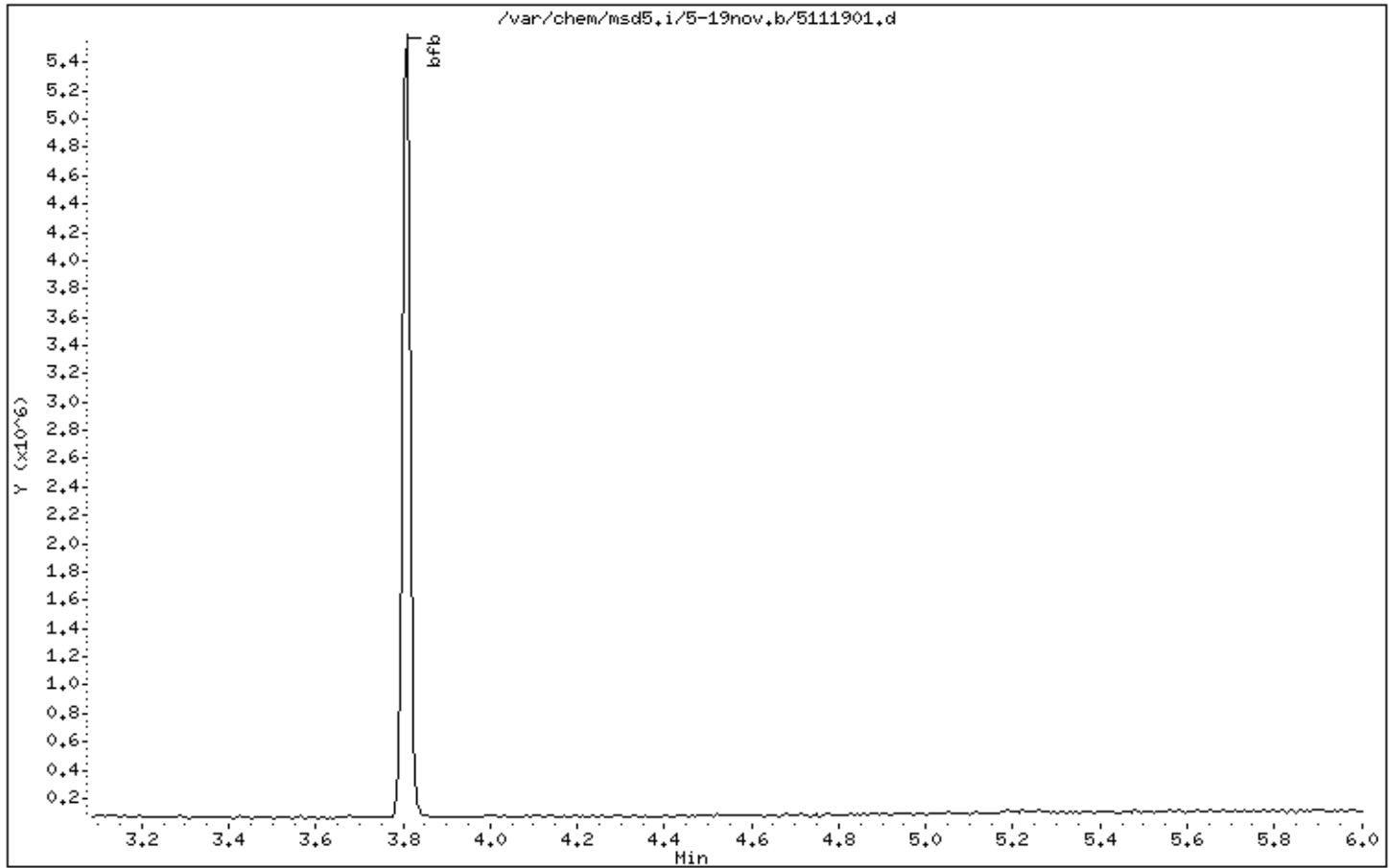
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00



Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

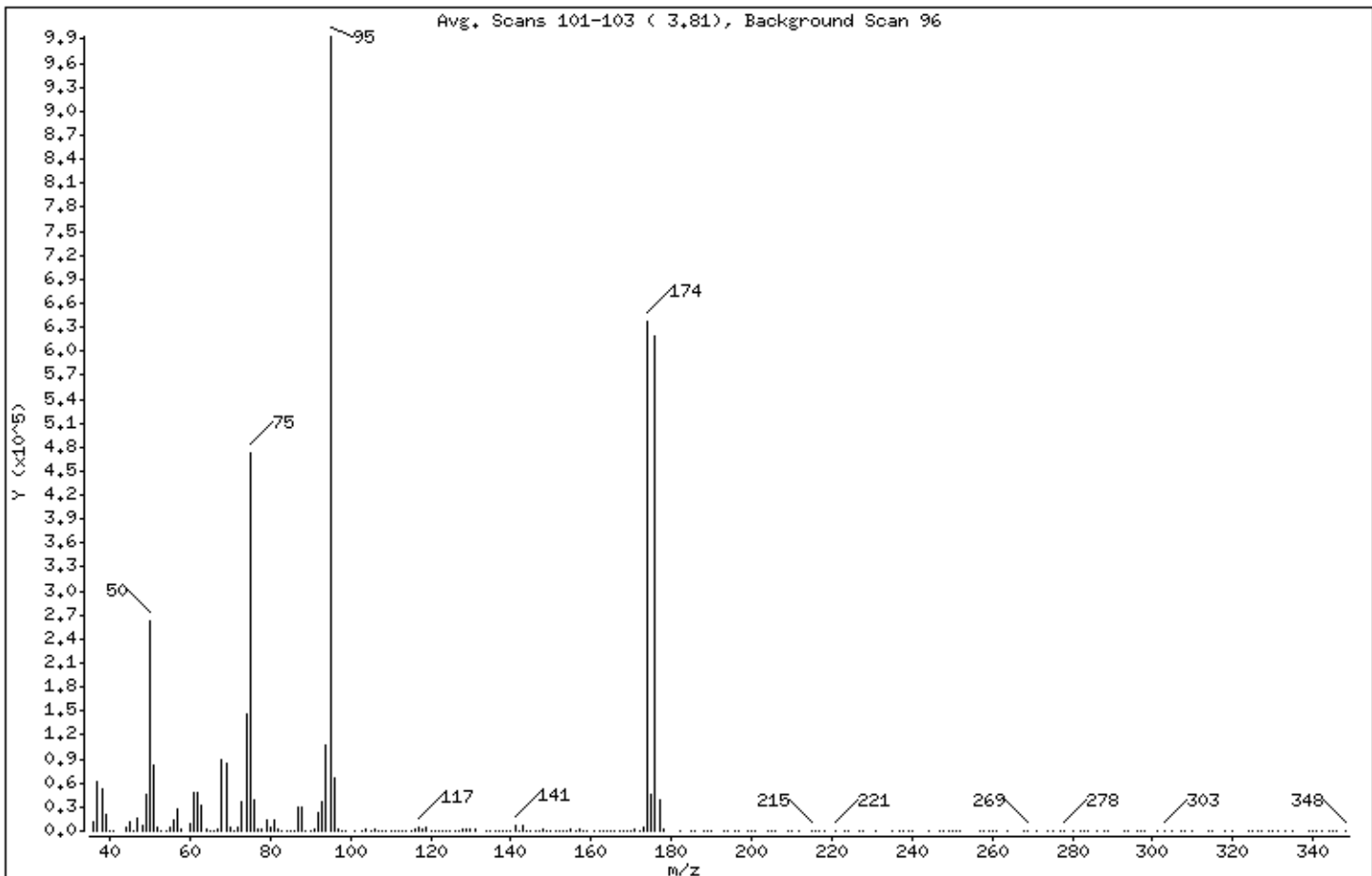
Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100.00% of mass 95	100.00
50	15.00 - 40.00% of mass 95	26.36
75	30.00 - 60.00% of mass 95	47.51
96	5.00 - 9.00% of mass 95	6.69
173	Less than 2.00% of mass 174	0.48 ( 0.76)
174	50.00 - 100.00% of mass 95	64.09
175	5.00 - 9.00% of mass 174	4.69 ( 7.32)
176	95.00 - 101.00% of mass 174	62.37 ( 97.32)
177	5.00 - 9.00% of mass 176	3.81 ( 6.11)



Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00

Data File: 5111901.d

Spectrum: Avg. Scans 101-103 ( 3.81), Background Scan 96

Location of Maximum: 95.00

Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10571	97.00	1471	159.00	728	251.00	74
37.00	61408	98.00	19	161.00	945	252.00	76
38.00	51488	99.00	223	162.00	229	257.00	102
39.00	21096	101.00	111	163.00	394	258.00	95
40.00	290	103.00	85	164.00	311	259.00	187
41.00	518	104.00	2891	165.00	118	260.00	99
44.00	5241	105.00	1085	166.00	234	261.00	114
45.00	10939	106.00	2306	167.00	207	264.00	4
46.00	628	107.00	738	168.00	464	268.00	220
47.00	17000	108.00	350	169.00	467	269.00	457
48.00	6166	109.00	508	170.00	714	271.00	282
49.00	46688	110.00	335	171.00	1222	274.00	194
50.00	261824	111.00	621	172.00	42	275.00	159
51.00	83344	112.00	503	173.00	4811	277.00	82
52.00	4374	113.00	658	174.00	636544	278.00	470
53.00	297	114.00	173	175.00	46616	280.00	60
54.00	244	115.00	433	176.00	619456	282.00	205
55.00	3528	116.00	2464	177.00	37872	283.00	68
56.00	14693	117.00	4294	178.00	1531	284.00	54
57.00	27632	118.00	2384	182.00	96	286.00	218
58.00	1633	119.00	3555	185.00	123	288.00	226
60.00	9728	120.00	422	186.00	124	289.00	278
61.00	49024	121.00	337	188.00	196	293.00	144
62.00	47264	122.00	31	189.00	94	294.00	284
63.00	32584	123.00	390	190.00	53	296.00	53
64.00	2219	124.00	830	193.00	255	297.00	121
65.00	119	125.00	473	194.00	85	298.00	16
66.00	210	126.00	536	196.00	83	301.00	67
67.00	2367	127.00	328	197.00	50	303.00	336
68.00	89808	128.00	2314	199.00	53	305.00	219
69.00	84920	129.00	2002	200.00	287	307.00	136
70.00	5464	130.00	2967	201.00	271	308.00	221
71.00	183	131.00	1151	204.00	141	310.00	110
72.00	3437	134.00	192	205.00	233	314.00	103
73.00	35464	135.00	753	206.00	245	315.00	110

Date : 19-NOV-2007 00:33

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: ab

Column phase:

Column diameter: 2.00

Data File: 5111901.d

Spectrum: Avg. Scans 101-103 ( 3.81), Background Scan 96

Location of Maximum: 95.00

Number of points: 228

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	146560	136.00	202	209.00	121	318.00	175
75.00	471872	137.00	715	210.00	315	320.00	323
76.00	39192	138.00	324	212.00	102	324.00	90
77.00	3322	139.00	160	215.00	427	325.00	100
78.00	2899	140.00	905	216.00	70	326.00	54
79.00	13604	141.00	6338	217.00	111	327.00	85
80.00	5043	142.00	901	218.00	135	329.00	125
81.00	14167	143.00	6229	221.00	364	330.00	62
82.00	2940	144.00	104	223.00	74	331.00	63
83.00	904	145.00	476	224.00	208	333.00	92
84.00	149	146.00	276	227.00	82	335.00	66
85.00	219	147.00	392	228.00	67	339.00	175
86.00	621	148.00	1772	231.00	239	340.00	55
87.00	30744	149.00	464	235.00	94	341.00	17
88.00	30376	150.00	756	237.00	66	342.00	277
89.00	1107	151.00	215	238.00	69	344.00	95
90.00	45	152.00	412	239.00	319	345.00	129
91.00	2158	153.00	223	240.00	210	346.00	76
92.00	22152	154.00	857	244.00	72	348.00	334
93.00	36112	155.00	1309	247.00	315		
94.00	108128	156.00	374	248.00	154		
95.00	993280	157.00	1381	249.00	155		
96.00	66488	158.00	309	250.00	147		

Report Date: 27-Nov-2007 08:47

## Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-27nov.b/5112701.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 27-NOV-2007 08:56  
 Operator : cb Inst ID: msd5.i  
 Smp Info : BFB Tune Check  
 Misc Info : 2uL #1476-65 50 ng  
 Comment :  
 Method : /var/chem/msd5.i/5-27nov.b/bfb30.m  
 Meth Date : 27-Nov-2007 08:47 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
==	=====	=====	=====	=====	=====	=====	=====

CAS #: 460-00-4

1 bfb							
3.796	3.900	-0.104	95	690854		100.00- 100.00	100.00
3.796	3.900	-0.104	50	201322		15.00- 40.00	29.14
3.796	3.900	-0.104	75	336719		30.00- 60.00	48.74
3.796	3.900	-0.104	96	45282		5.00- 9.00	6.55
3.796	3.900	-0.104	173	2714		0.00- 2.00	0.65
3.796	3.900	-0.104	174	419349		50.00- 100.00	60.70
3.796	3.900	-0.104	175	29427		5.00- 9.00	7.02
3.796	3.900	-0.104	176	412821		95.00- 101.00	98.44
3.796	3.900	-0.104	177	24457		5.00- 9.00	5.92

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

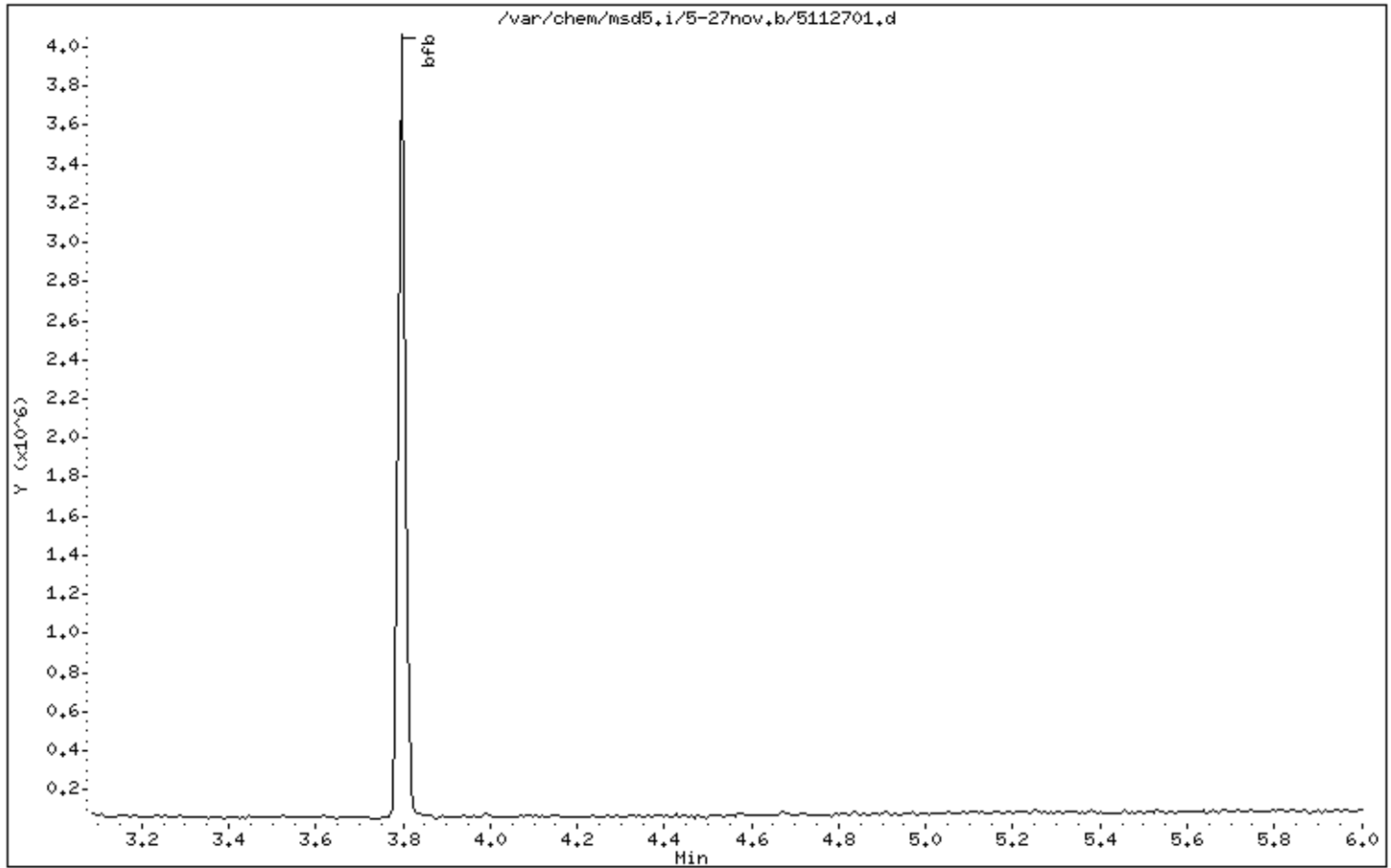
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

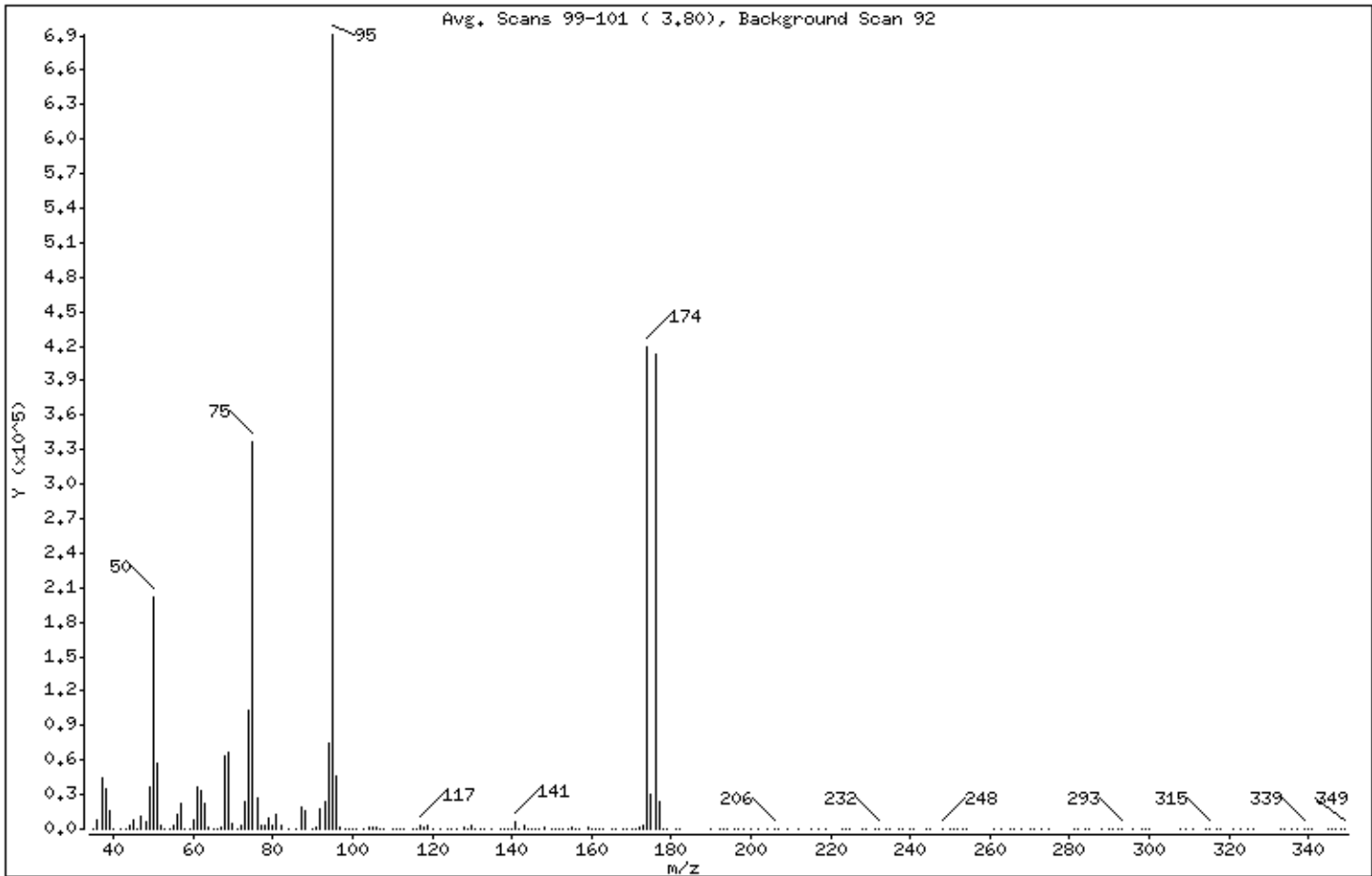
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.14
75	30.00 - 60.00% of mass 95	48.74
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.39 ( 0.65)
174	50.00 - 100.00% of mass 95	60.70
175	5.00 - 9.00% of mass 174	4.26 ( 7.02)
176	95.00 - 101.00% of mass 174	59.76 ( 98.44)
177	5.00 - 9.00% of mass 176	3.54 ( 5.92)

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5112701.d

Spectrum: Avg. Scans 99-101 ( 3.80), Background Scan 92

Location of Maximum: 95.00

Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	357	93.00	23432	156.00	358	245.00	259
36.00	8617	94.00	74888	157.00	604	248.00	367
37.00	43720	95.00	690816	159.00	874	250.00	190
38.00	35504	96.00	45280	160.00	67	251.00	157
39.00	15127	97.00	1469	161.00	613	252.00	134
40.00	688	98.00	283	162.00	56	253.00	11
42.00	5	99.00	52	163.00	463	254.00	213
43.00	300	100.00	294	165.00	298	261.00	58
44.00	3014	101.00	153	166.00	6	263.00	68
45.00	8490	103.00	94	168.00	215	265.00	220
46.00	528	104.00	2273	169.00	416	266.00	98
47.00	11577	105.00	1166	170.00	289	268.00	265
48.00	6464	106.00	2312	171.00	267	270.00	262
49.00	36152	107.00	314	172.00	1472	271.00	306
50.00	201280	108.00	80	173.00	2714	273.00	113
51.00	57200	110.00	535	174.00	419328	275.00	104
52.00	2553	111.00	473	175.00	29424	281.00	140
53.00	94	112.00	151	176.00	412800	282.00	191
54.00	210	113.00	774	177.00	24456	284.00	120
55.00	2389	115.00	598	178.00	754	285.00	132
56.00	12151	116.00	770	179.00	319	288.00	103
57.00	21488	117.00	2927	181.00	98	290.00	59
58.00	491	118.00	2302	182.00	171	291.00	135
59.00	179	119.00	2849	190.00	189	292.00	107
60.00	7160	120.00	23	192.00	341	293.00	393
61.00	36696	122.00	250	193.00	209	296.00	117
62.00	33968	124.00	29	194.00	115	298.00	183
63.00	22080	125.00	422	196.00	109	299.00	112
64.00	2166	126.00	204	197.00	130	300.00	173
65.00	776	128.00	1289	198.00	106	308.00	219
66.00	100	129.00	793	200.00	319	309.00	77
67.00	2051	130.00	2553	202.00	187	311.00	131
68.00	64168	131.00	706	204.00	175	314.00	72
69.00	67272	132.00	258	206.00	428	315.00	469
70.00	4599	133.00	211	207.00	85	317.00	98

Date : 27-NOV-2007 08:56

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5112701.d

Spectrum: Avg. Scans 99-101 ( 3.80), Background Scan 92

Location of Maximum: 95.00

Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71,00	427	135,00	671	209,00	378	318,00	148
72,00	2768	137,00	729	212,00	136	321,00	144
73,00	23816	138,00	157	215,00	197	323,00	76
74,00	103328	139,00	120	217,00	138	325,00	59
75,00	336704	140,00	287	219,00	154	326,00	63
76,00	27720	141,00	5907	223,00	151	333,00	140
77,00	2928	142,00	585	224,00	63	334,00	119
78,00	2767	143,00	3621	225,00	109	336,00	318
79,00	10156	144,00	266	228,00	56	337,00	178
80,00	2842	145,00	148	229,00	76	339,00	355
81,00	12633	146,00	629	231,00	11	340,00	263
82,00	2425	147,00	158	232,00	245	341,00	170
84,00	51	148,00	1520	234,00	200	345,00	54
86,00	731	150,00	775	235,00	192	346,00	73
87,00	18864	151,00	108	237,00	130	347,00	275
88,00	16266	152,00	356	238,00	94	348,00	249
90,00	334	153,00	443	240,00	230	349,00	148
91,00	1978	154,00	154	241,00	233		
92,00	16848	155,00	1487	244,00	81		

Report Date: 14-Dec-2007 08:51

## Air Toxics Ltd.

Data file : /chem/msd5.i/5-14dec.b/5121401.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 14-DEC-2007 08:59  
 Operator : cb Inst ID: msd5.i  
 Smp Info : BFB Tune Check  
 Misc Info : 2uL #1476-65 50 ng  
 Comment :  
 Method : /var/chem/msd5.i/5-14dec.b/bfb30.m  
 Meth Date : 14-Dec-2007 08:49 Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 1 QC Sample: BFB  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

## CONCENTRATIONS

ON-COL FINAL

RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====

1 bfb

CAS #: 460-00-4

3.796	3.900	-0.104	95	986496		100.00- 100.00	100.00
3.796	3.900	-0.104	50	297536		15.00- 40.00	30.16
3.796	3.900	-0.104	75	489664		30.00- 60.00	49.64
3.796	3.900	-0.104	96	68272		5.00- 9.00	6.92
3.796	3.900	-0.104	173	4327		0.00- 2.00	0.87
3.796	3.900	-0.104	174	499776		50.00- 100.00	50.66
3.796	3.900	-0.104	175	37992		5.00- 9.00	7.60
3.796	3.900	-0.104	176	486912		95.00- 101.00	97.43
3.796	3.900	-0.104	177	31072		5.00- 9.00	6.38



Date : 14-DEC-2007 08:59

Client ID: BFB

Instrument: msd5.i

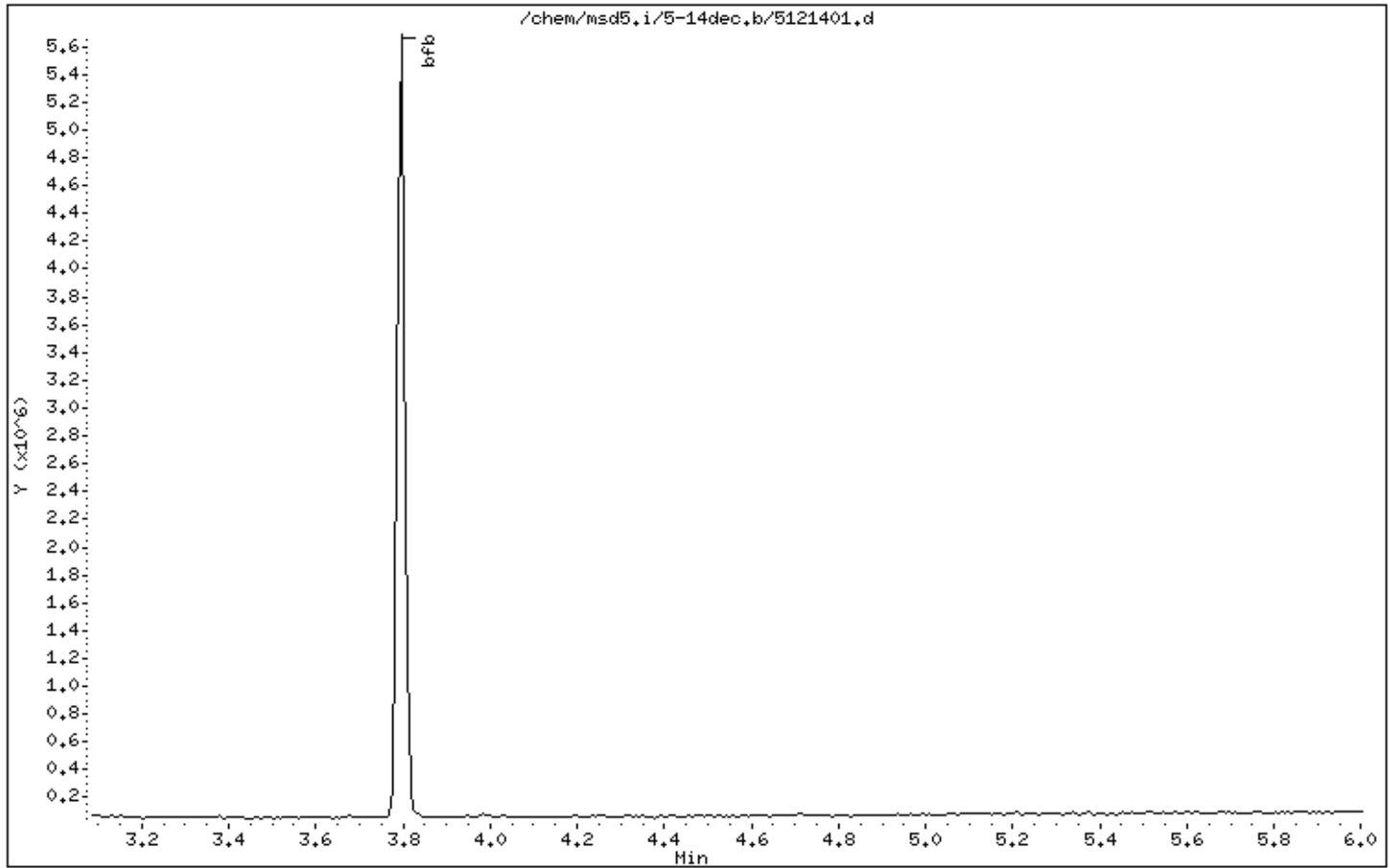
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Date : 14-DEC-2007 08:59

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

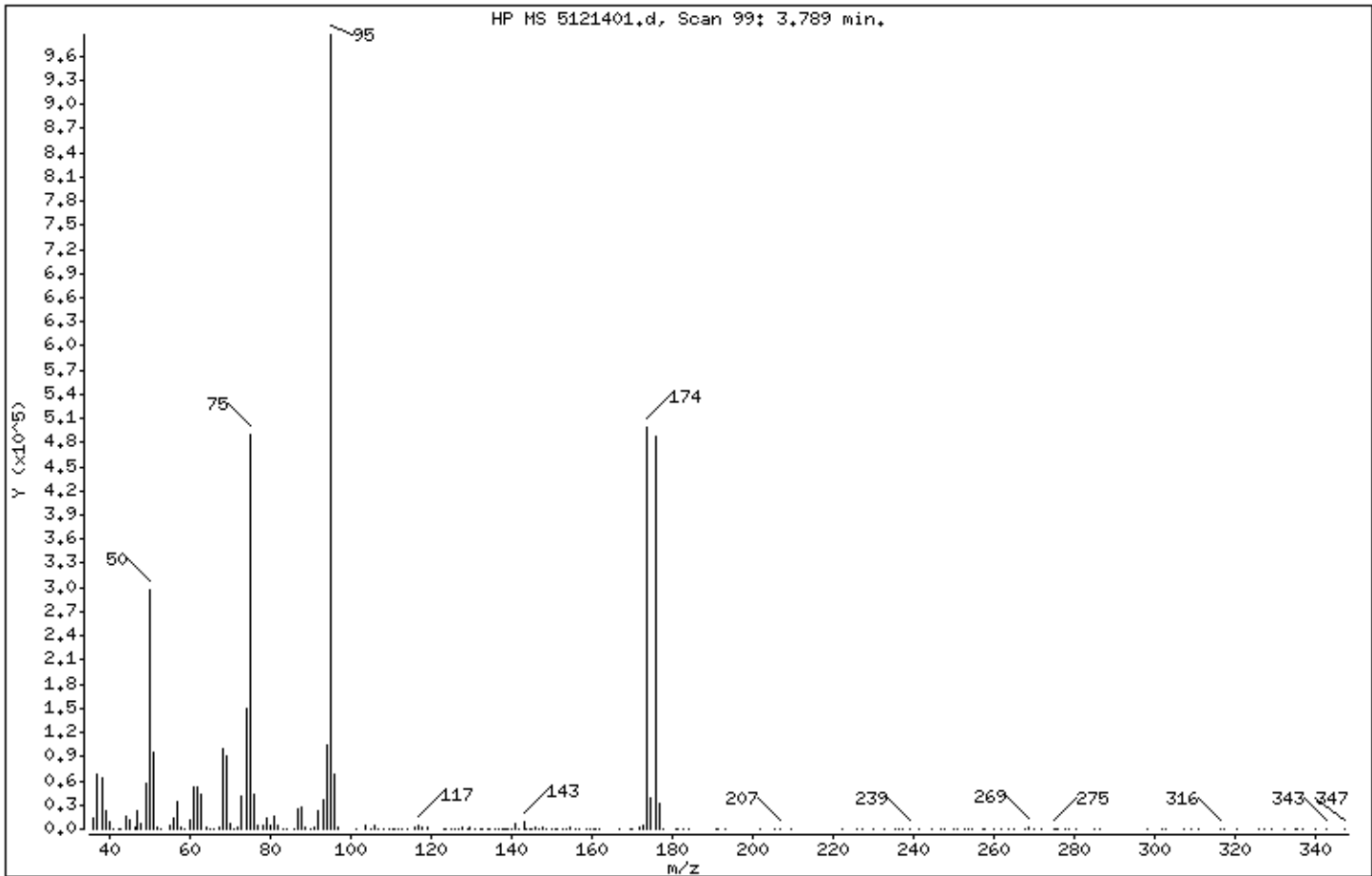
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	30.16
75	30.00 - 60.00% of mass 95	49.64
96	5.00 - 9.00% of mass 95	6.92
173	Less than 2.00% of mass 174	0.44 ( 0.87)
174	50.00 - 100.00% of mass 95	50.66
175	5.00 - 9.00% of mass 174	3.85 ( 7.60)
176	95.00 - 101.00% of mass 174	49.36 ( 97.43)
177	5.00 - 9.00% of mass 176	3.15 ( 6.38)

Date : 14-DEC-2007 08:59

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5121401.d

Spectrum: HP MS 5121401.d, Scan 99: 3.789 min.

Location of Maximum: 95.10

Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	12810	87.00	25648	143.80	980	241.50	237
37.10	67496	88.00	28064	144.80	724	244.80	761
38.10	62984	88.70	1838	145.20	502	247.10	518
39.00	23144	90.10	260	145.90	1598	247.80	205
40.00	7967	90.90	2641	146.90	528	250.10	607
41.00	655	92.10	23288	148.00	1540	251.10	196
42.30	359	93.10	36344	148.70	545	253.00	307
43.00	663	94.10	104648	150.00	766	253.60	415
44.10	16472	95.10	986496	150.90	274	254.90	218
45.10	11726	96.10	68272	151.70	623	257.40	206
46.30	1641	97.00	2180	153.00	189	257.90	274
47.10	21832	101.30	230	153.90	767	260.00	381
48.00	7263	103.90	4469	154.70	1299	262.20	234
49.10	56816	104.90	1088	155.90	472	263.60	273
50.10	297536	105.90	4392	157.00	1041	265.30	344
51.10	95904	106.90	370	158.90	565	268.00	526
52.10	2730	108.10	536	159.80	233	269.00	1262
53.00	166	109.80	720	160.70	454	270.20	357
55.00	3869	110.60	678	161.10	623	272.00	279
56.10	13485	111.10	560	162.00	309	275.30	509
57.10	33464	111.80	224	166.80	274	275.70	322
58.00	1570	113.00	329	169.50	726	276.10	213
58.70	209	114.30	652	170.30	324	278.10	181
60.00	11395	115.90	2469	172.00	1150	279.00	199
61.10	51688	117.10	4052	172.90	4327	280.80	297
62.00	52816	117.90	1999	174.00	499776	285.40	289
63.00	43416	119.00	2265	174.90	37992	286.60	201
64.00	3009	123.20	616	176.00	486912	298.50	195
64.90	153	123.90	679	177.00	31072	302.10	297
65.30	429	125.20	391	177.90	313	302.90	364
66.20	342	126.00	331	181.10	261	307.30	205
67.20	2386	126.90	742	181.60	354	309.20	158
68.10	100568	128.00	2928	182.90	312	311.00	302
69.10	91296	129.10	708	184.10	662	316.50	517
70.00	7442	129.90	1475	191.00	556	317.30	368

Date : 14-DEC-2007 08:59

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5121401.d

Spectrum: HP MS 5121401.d, Scan 99: 3.789 min.

Location of Maximum: 95.10

Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	255	131.00	1042	191.40	339	320.80	183
72.00	3332	132.40	164	193.50	211	325.90	525
73.00	40600	132.90	415	202.10	152	327.50	153
74.10	150208	134.30	315	205.60	499	329.20	159
75.10	489664	134.90	418	207.00	694	332.30	179
76.10	42128	135.90	1008	209.70	192	335.10	168
77.00	4453	136.90	1011	222.40	222	335.60	186
78.20	3663	137.80	334	226.30	372	337.10	466
79.00	14175	138.30	220	227.50	342	340.40	235
80.00	5620	138.90	235	230.30	161	342.90	531
81.00	16416	139.30	429	233.00	157	347.40	174
82.00	4107	140.20	198	235.80	279		
83.10	270	141.00	7327	236.50	215		
84.30	262	141.80	399	237.50	303		
86.00	954	143.10	8192	239.20	479		

## **Shipping/ Receiving Documents**



---

AN ENVIRONMENTAL ANALYTICAL LABORATORY

**180 Blue Ravine Road, Suite B  
Folsom, CA 95630**

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

COMPANY: \_\_\_\_\_ GEI Consultants, Inc. \_\_\_\_\_  
ATTENTION: \_\_\_\_\_ Ms. Sarah Aldridge \_\_\_\_\_  
FAX #: \_\_\_\_\_ 860-368-5307 \_\_\_\_\_  
FROM: \_\_\_\_\_ Sample Receiving \_\_\_\_\_  
Workorder #: \_\_\_\_\_ 0712115 \_\_\_\_\_  
# of pages (Including Cover): \_\_\_\_\_ 1 \_\_\_\_\_

12/20/2007

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

# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY  
**CHAIN-OF-CUSTODY RECORD**

## Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of applicable jurisdictions. 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. Hazmat (800) 467-4922

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

<b>Contact</b> Company: GEI Consultants, Inc. Address: 455 Winding Brook Glastonbury CT 06033 Phone: 800-888-8300 Cell:	<b>Project Info:</b> P.O. # Project # 061140 - 8 - 1703 Project Name: BayShore OUI Southern cell Air Monitoring	<b>Turn Around Time:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify:
Collected By: Signature: <i>Thomas R. Taylor</i>		

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Register Pressure/Vacuum Initial	Final	Recep
O1A	OW-AMNS 5 (canister #12335)	12/5/07 0615-1415	TO-15 + Naphthalene	-290	-75	
O2A	OW-AMNS 2 (canister #23336)	12/5/07 0615-1415	TO-15 + Naphthalene	-290	-90	

Relinquished By: (Signature) Date/Time <i>Thomas R Taylor 12/5/07 1415</i>	Received By: (Signature) Date/Time <i>B. Steinhilber 12/5/07 0815</i>
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Lab Shipper Name: Air Bill # Use FedEx: 8635 12572588 Only: 960351851 2128	Operated By: <i>B. Steinhilber</i> Temp (C): <i>N/A</i>	Condition: <i>Good</i>	Custom Seal Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None	Work Order #: <i>071211</i>
--	---	------------------------	---	-----------------------------

Notes: use flow controllers included  
 Initial and final can pressures in inches Hg  
 Send Data Pack to Lisa McDermott and EDD to [datagroup@geiconsultants.com](mailto:datagroup@geiconsultants.com)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

### SAMPLE RECEIPT SUMMARY

#### WORKORDER 0712115

<b>Client</b>	<b>Phone</b>	<b>Date Promised:</b> 12/20/07
Ms. Sarah Aldridge	860-368-5300	<b>Date Completed:</b> 12/19/07
GEI Consultants, Inc.		<b>Date Received:</b> 12/6/07
455 Winding Brook Drive	<b>Fax</b>	<b>PO#:</b> NR
Suite 201	860-368-5307	<b>Project#:</b> 061140-8-1703 BayShore OU1 Southern cell
Glastonbury, CT 06033		Air Monitorin
<b>Sales Rep:</b> ANS		<b>Total \$:</b> \$ 554.00
		<b>Logged By:</b> MW

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	UW-AMS 5	Modified TO-15	12/5/2007	5.0 "Hg	\$225.00
01AA	UW-AMS 5 Lab Duplicate	Modified TO-15	12/5/2007	5.0 "Hg	\$0.00
02A	DW-AMS 1	Modified TO-15	12/5/2007	6.0 "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.					\$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. Sarah Aldridge  
GEI Consultants, Inc.  
455 Winding Brook Drive  
Suite 201  
Glastonbury, CT 06033

Analysis Code: TO-14A

**TERMS:**

Reporting Method: Modified TO-15 + Naph

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630  
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



## **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

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

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	Type
		ppbv	
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	Type
		ppbv	
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	

DATA REVIEW CHECKLIST

Work Order #:

0712115

- 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)
- Corrective Action issued - # \_\_\_\_\_
- Unusual circumstances have been documented in the notes section below

LUMEN validation report present and initialed

CIRCLE (YES / NO)

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

- Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
- Correct amount of sample analyzed (i.e. sample not over-diluted)
- Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
- TICs resemble reference spectra
- TICs between duplicate samples are consistent
- Checked samples for trends (i.e. Influent > Effluent, Landfill or Ambient etc)
- Special units for all samples in the final report are correctly calculated
- Manually entered results checked (i.e. special CCV compounds)
- TPH/NMOC (verify calculations and correct reference compound used)
- Chain of Custody scanned correctly
- Verify sample id's vs. chain of custody
- Samples pressurized w/ appropriate gas (N<sub>2</sub> or He)  Tedlar Bag only
- Final pressure consistent with canister size (6L vs. 1L)
- Verify receipt pressures against logbook and Target
- Verify canister ID #'s
- Extra printed copies are provided per client profile
- Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
- Client LUMEN report reviewed for accuracy and completeness

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

A/R: 2 out CCV, 0 out LCS  
OIA dup

M/Q:

A  
(Analytical Review/Date)  
CB 12/17/07

R/T  
(Reporting Review/Date)  
R: JS 12/18/07

M  
(Management Review/Date)  
S 12/19/07

Q  
(QA Review/Date)

T: \_\_\_\_\_

**Not Applicable**