
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 #: 0710188

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	34
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)	35	42
b. Surrogate Recover Summary Form (If Applicable)	43	43
c. Internal Standard Summary Form (If Applicable)	44	44
d. Duplicate Results Summary Sheet	45	46
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	47	160
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	161	175
i. Second Source LCS(Summary + Raw Data)	176	189
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	190	190
l. GC/MS Tune (Results + Raw Data)	191	205
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	206	207
b. Chain-of-Custody Records	208	208
c. Sample Log-In Sheet	209	209
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	210	212
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	213	214
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	215	215

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	10/22/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0710188

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	10/05/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	10/18/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	AMS 3 DW	Modified TO-15	2.5 "Hg
02A	AMS 4 UW	Modified TO-15	8.0 "Hg
02AA	AMS 4 UW Lab Duplicate	Modified TO-15	8.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Frumarn DATE: 10/18/07

Laboratory Director

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

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0710188

Two 6 Liter Summa Canister samples were received on October 05, 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.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS 3 DW	0710188-01A	10/ 4/2007	10/ 5/2007	NA	12	10/16/2007	NA	Good
AMS 4 UW	0710188-02A	10/ 4/2007	10/ 5/2007	NA	12	10/16/2007	NA	Good
AMS 4 UW Lab Duplicate	0710188-02AA	10/ 4/2007	10/ 5/2007	NA	12	10/16/2007	NA	Good
Lab Blank	0710188-03A	NA	NA	NA	NA	10/16/2007	NA	Good
CCV	0710188-04A	NA	NA	NA	NA	10/16/2007	NA	Good
LCS	0710188-05A	NA	NA	NA	NA	10/16/2007	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: AMS 3 DW

Lab ID#: 0710188-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	0.72 J	3.6	3.6
Toluene	0.73	1.7	2.8	6.5
Acetone	2.9	5.0	6.9	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 3 DW

Lab ID#: 0710188-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101608**	**Date of Collection:**	**10/4/07**
Dil. Factor:	**1.46**	**Date of Analysis:**	**10/16/07 07:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	0.72 J	3.6	3.6
Freon 114	0.73	Not Detected	5.1	Not Detected
Vinyl Chloride	0.73	Not Detected	1.9	Not Detected
Bromomethane	0.73	Not Detected	2.8	Not Detected
Chloroethane	0.73	Not Detected	1.9	Not Detected
Freon 11	0.73	Not Detected	4.1	Not Detected
1,1-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Freon 113	0.73	Not Detected	5.6	Not Detected
Methylene Chloride	0.73	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.73	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
Chloroform	0.73	Not Detected	3.6	Not Detected
1,1,1-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Carbon Tetrachloride	0.73	Not Detected	4.6	Not Detected
Benzene	0.73	Not Detected	2.3	Not Detected
1,2-Dichloroethane	0.73	Not Detected	3.0	Not Detected
Trichloroethene	0.73	Not Detected	3.9	Not Detected
1,2-Dichloropropane	0.73	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
Toluene	0.73	1.7	2.8	6.5
trans-1,3-Dichloropropene	0.73	Not Detected	3.3	Not Detected
1,1,2-Trichloroethane	0.73	Not Detected	4.0	Not Detected
Tetrachloroethene	0.73	Not Detected	5.0	Not Detected
1,2-Dibromoethane (EDB)	0.73	Not Detected	5.6	Not Detected
Chlorobenzene	0.73	Not Detected	3.4	Not Detected
Ethyl Benzene	0.73	Not Detected	3.2	Not Detected
m,p-Xylene	0.73	Not Detected	3.2	Not Detected
o-Xylene	0.73	Not Detected	3.2	Not Detected
Styrene	0.73	Not Detected	3.1	Not Detected
1,1,2,2-Tetrachloroethane	0.73	Not Detected	5.0	Not Detected
1,3,5-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,2,4-Trimethylbenzene	0.73	Not Detected	3.6	Not Detected
1,3-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,4-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
alpha-Chlorotoluene	0.73	Not Detected	3.8	Not Detected
1,2-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected
1,3-Butadiene	0.73	Not Detected	1.6	Not Detected
Hexane	0.73	Not Detected	2.6	Not Detected
Cyclohexane	0.73	Not Detected	2.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 3 DW

Lab ID#: 0710188-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101608**	**Date of Collection: 10/4/07**	
Dil. Factor:	**1.46**	**Date of Analysis: 10/16/07 07:16 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.73	Not Detected	3.0	Not Detected
Bromodichloromethane	0.73	Not Detected	4.9	Not Detected
Dibromochloromethane	0.73	Not Detected	6.2	Not Detected
Cumene	0.73	Not Detected	3.6	Not Detected
Propylbenzene	0.73	Not Detected	3.6	Not Detected
Chloromethane	2.9	Not Detected	6.0	Not Detected
1,2,4-Trichlorobenzene	2.9	Not Detected	22	Not Detected
Hexachlorobutadiene	2.9	Not Detected	31	Not Detected
Acetone	2.9	5.0	6.9	12
Carbon Disulfide	0.73	Not Detected	2.3	Not Detected
2-Propanol	2.9	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.73	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.73	Not Detected	2.2	Not Detected
1,4-Dioxane	2.9	Not Detected	10	Not Detected
4-Methyl-2-pentanone	0.73	Not Detected	3.0	Not Detected
2-Hexanone	2.9	Not Detected	12	Not Detected
Bromoform	0.73	Not Detected	7.5	Not Detected
4-Ethyltoluene	0.73	Not Detected	3.6	Not Detected
Ethanol	2.9	Not Detected	5.5	Not Detected
Methyl tert-butyl ether	0.73	Not Detected	2.6	Not Detected
3-Chloropropene	2.9	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	0.73	Not Detected	3.4	Not Detected
Naphthalene	2.9	Not Detected	15	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	87	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101608.d
Lab Smp Id: 0710188-01A
Inj Date : 16-OCT-2007 19:16
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #10769
Misc Info : 2.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.d
Als bottle: 1
Dil Factor: 1.46000
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	400393	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	316019			50.36- 110.36	78.93
8.059	8.059 (1.000)	49	849996			183.36- 243.36	212.29
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912 (1.000)	114	1521732	25.0000		80.00- 120.00	100.00
9.911	9.912 (1.000)	88	254294			0.00- 46.92	16.71
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1207325	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	709195			0.00- 30.00	58.74
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	557868	22.0601	22.060	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	290900			28.76- 88.76	52.14
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1310348	24.3934	24.393	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	131351			0.00- 39.82	10.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	834985			40.57- 100.57	63.72
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	528154	21.7289	21.729	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	896777			137.35- 197.35	169.79
16.575	16.575 (1.105)	176	529284			67.43- 127.43	100.21
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.336 (0.290)	85	21676	0.49658	0.7250	80.00- 120.00	100.00(a)
2.335	2.336 (0.290)	87	7248			2.15- 62.15	33.44
32 Acetone					CAS #: 67-64-1		
4.769	4.713 (0.592)	58	51493	3.39938	4.963	80.00- 120.00	100.00
4.741	4.713 (0.588)	43	175964			280.82- 340.82	341.72
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	69897	1.17872	1.721	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	39676			28.99- 88.99	56.76

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101608.d
Lab Smp Id: 0710188-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 2.5"Hg -> 5psi

Calibration Date: 16-OCT-2007
Calibration Time: 14:49
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432048	259229	604867	400393	-7.33
92 1,4-Difluorobenze	1679925	1007955	2351895	1521732	-9.42
125 Chlorobenzene-d5	1316846	790108	1843584	1207325	-8.32

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-16oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0710188-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 2.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	22.060	88.24	70-130
$ 107 Toluene-d8	25.000	24.393	97.57	70-130
$ 138 Bromofluorobenzene	25.000	21.729	86.92	70-130

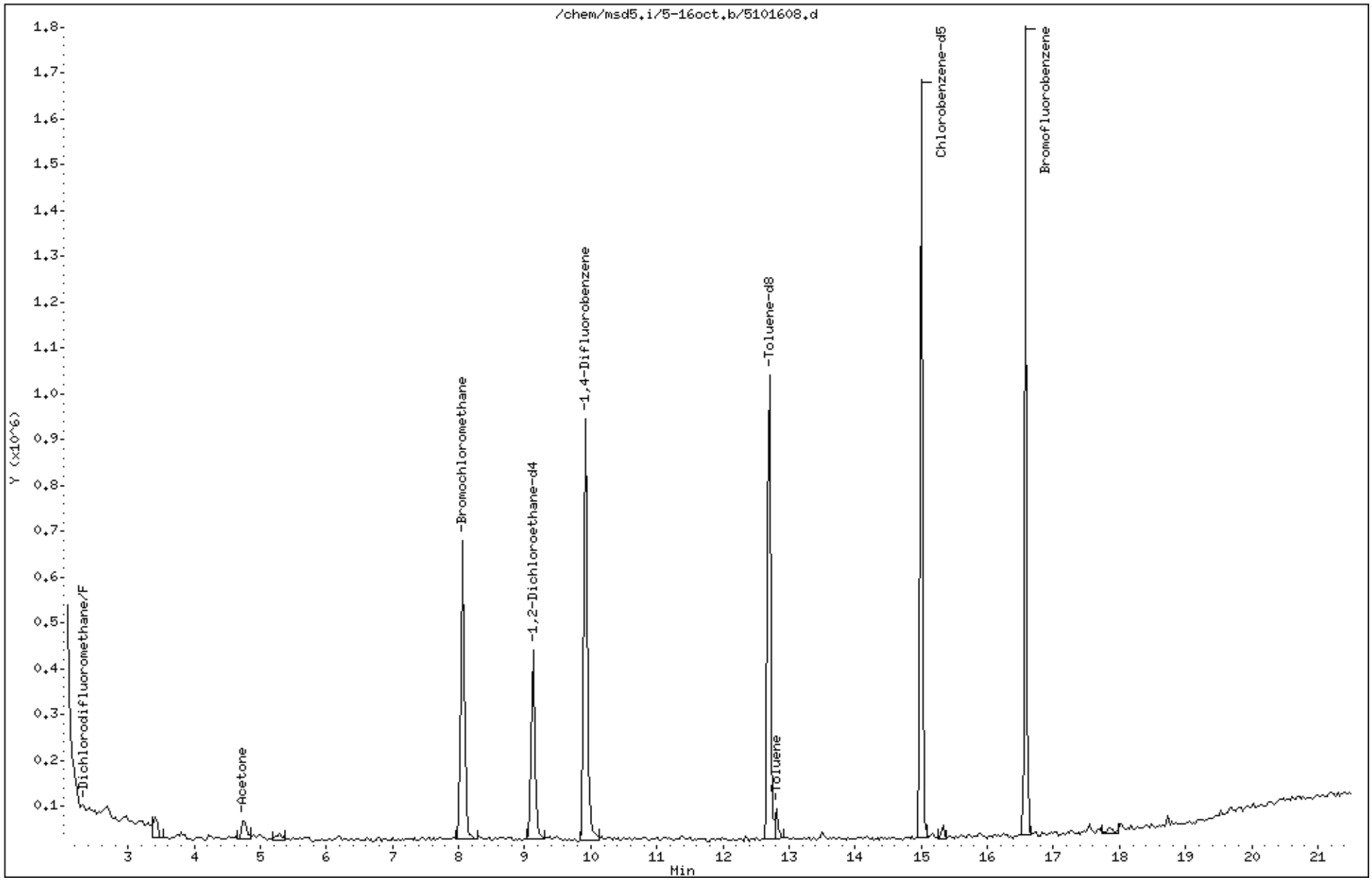
0013

Data File: /chem/msd5.i/5-16oct.b/5101608.d
Date : 16-OCT-2007 19:16
Client ID:
Sample Info: 200mL #10769

Instrument: msd5.i

Operator: kr

Column phase: RTx-624
Column diameter: 0.53



Data File: /chem/msd5.i/5-16oct.b/5101608.d

Date : 16-OCT-2007 19:16

Client ID:

Instrument: msd5.i

Sample Info: 200mL #10769

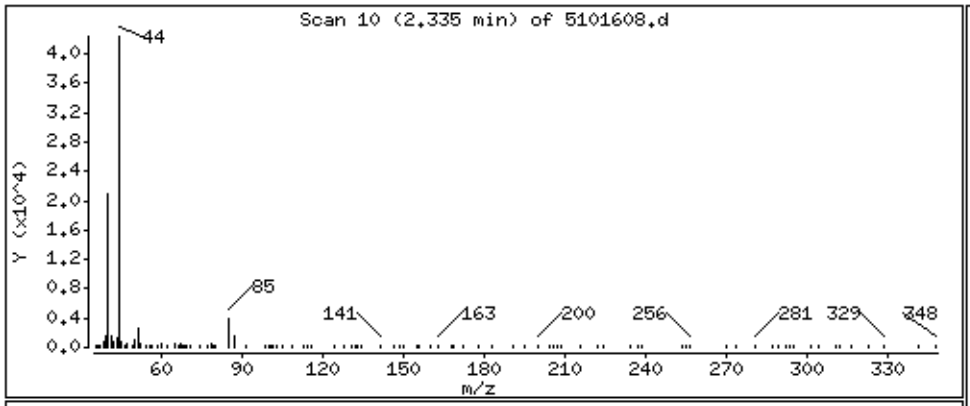
Operator: kr

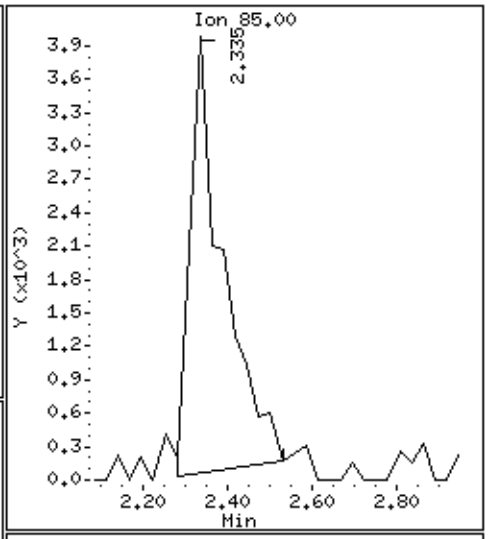
Column phase: RTx-624

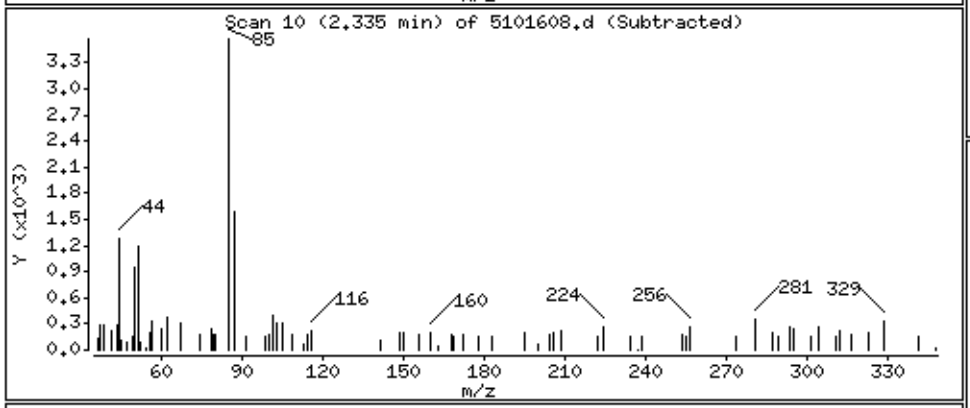
Column diameter: 0.53

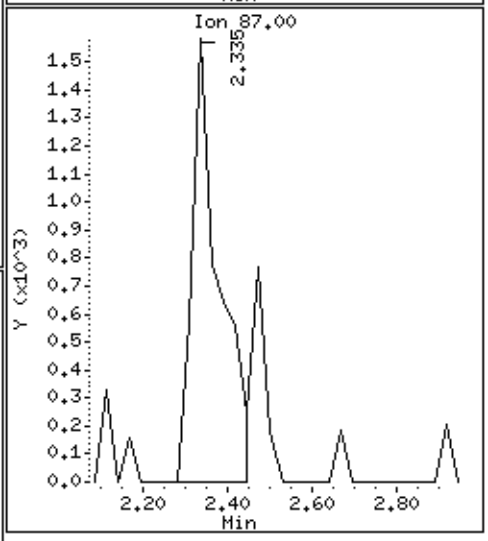
8 Dichlorodifluoromethane/Fr12

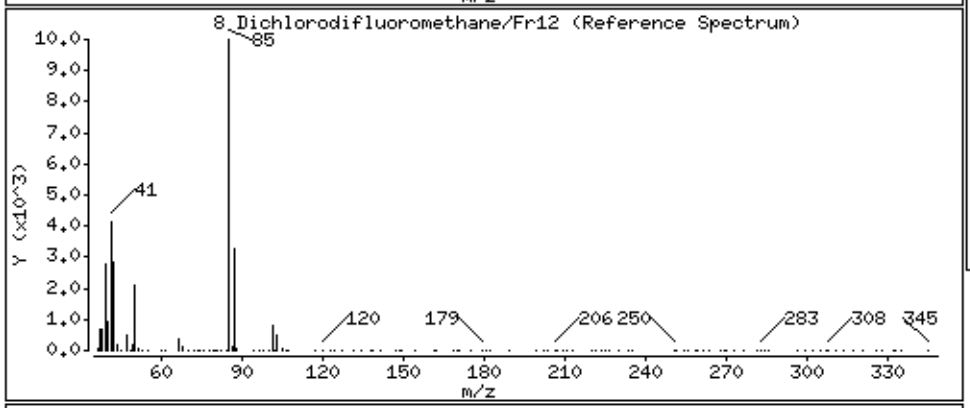
Concentration: 0.7250 PPBV

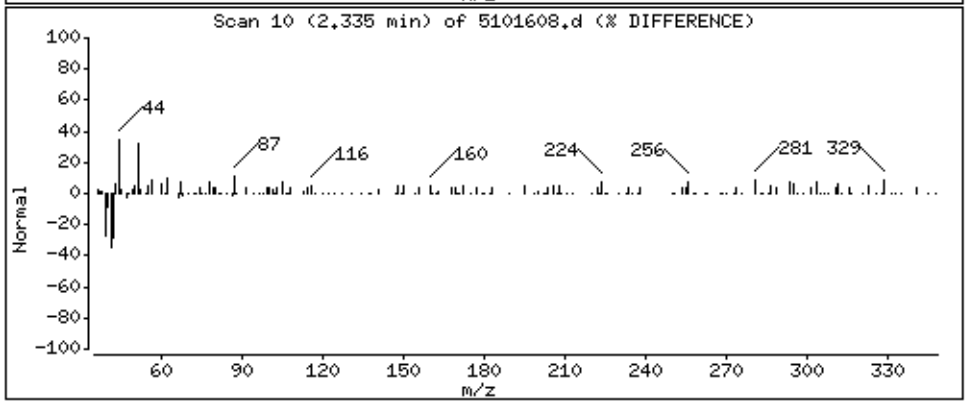












Data File: /chem/msd5.i/5-16oct.b/5101608.d

Date : 16-OCT-2007 19:16

Client ID:

Instrument: msd5.i

Sample Info: 200mL #10769

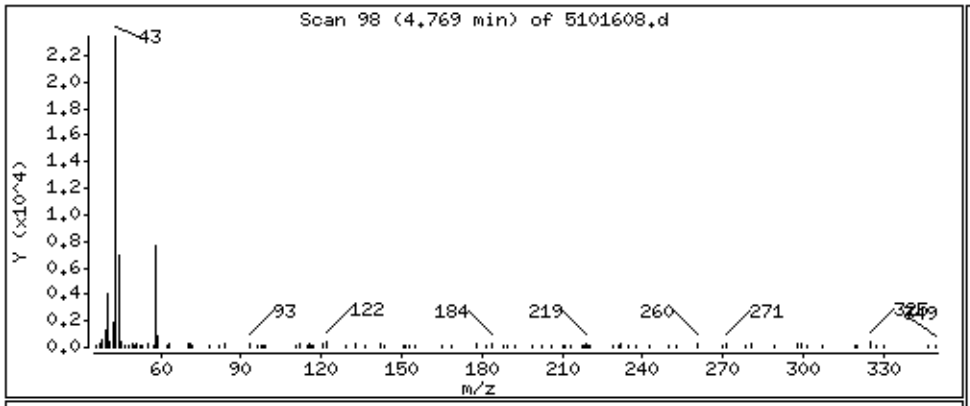
Operator: kr

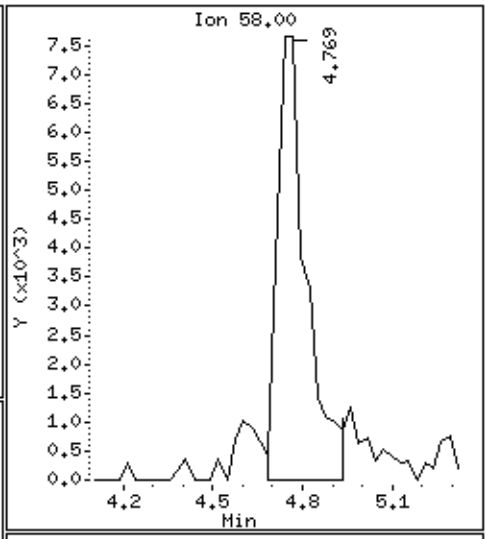
Column phase: RTx-624

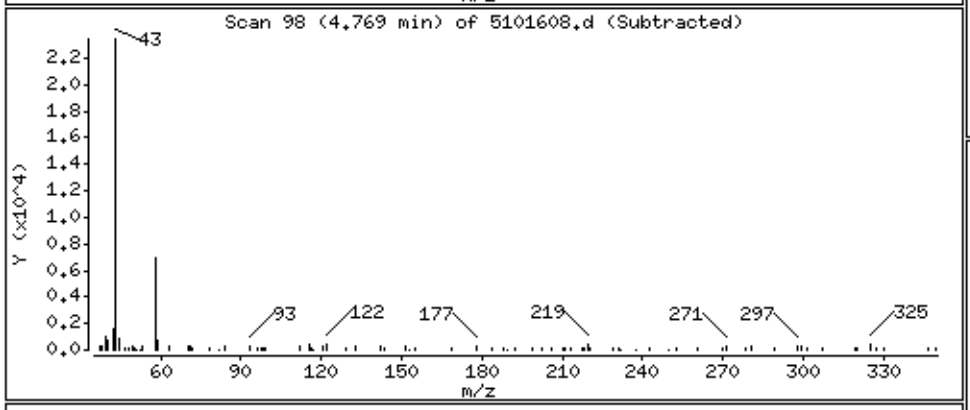
Column diameter: 0.53

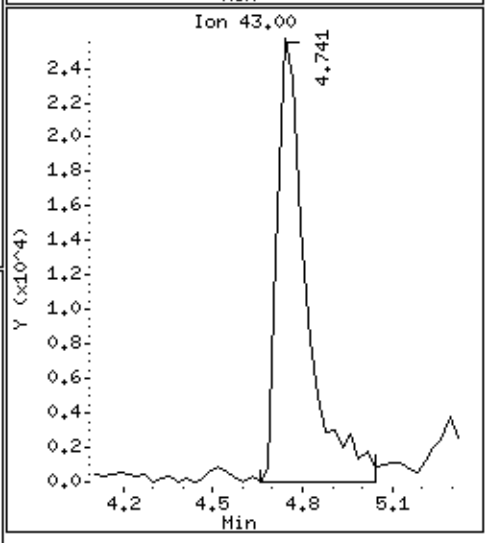
32 Acetone

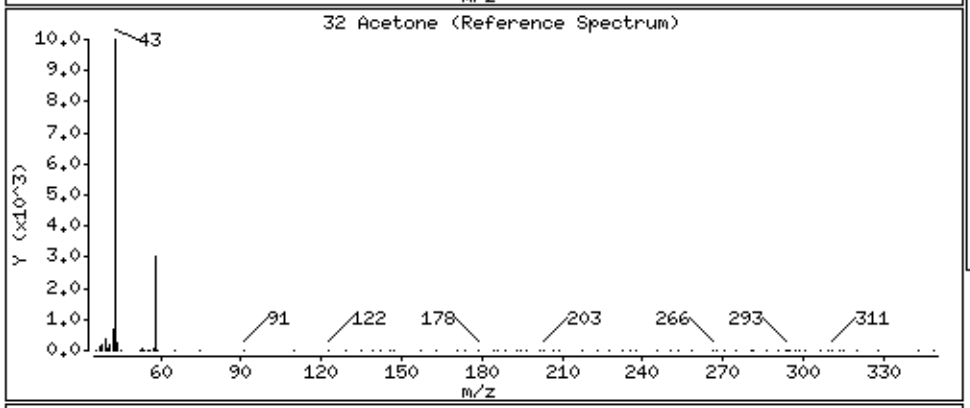
Concentration: 4.963 PPBV

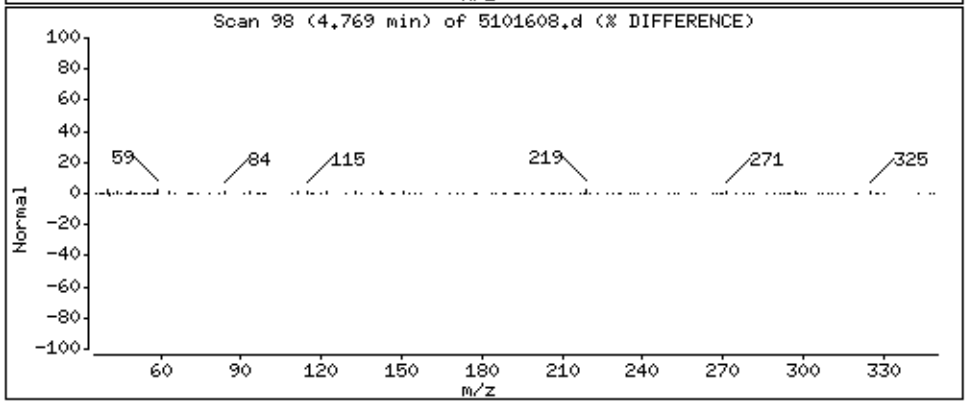












Data File: /chem/msd5.i/5-16oct.b/5101608.d

Date : 16-OCT-2007 19:16

Client ID:

Instrument: msd5.i

Sample Info: 200mL #10769

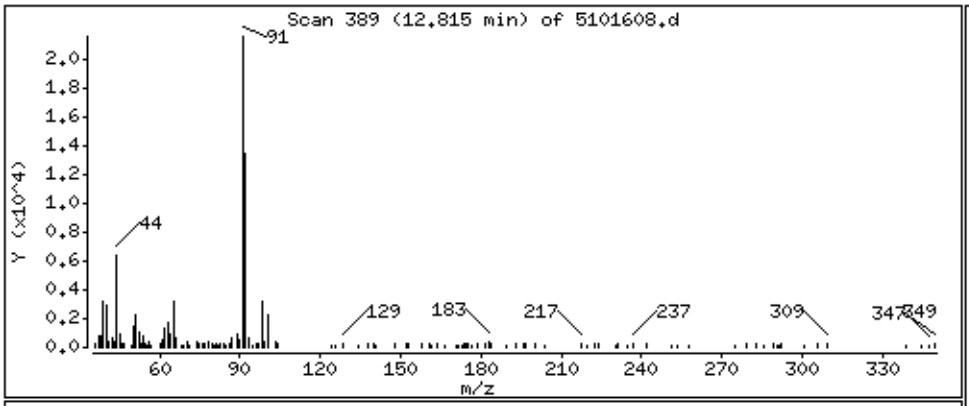
Operator: kr

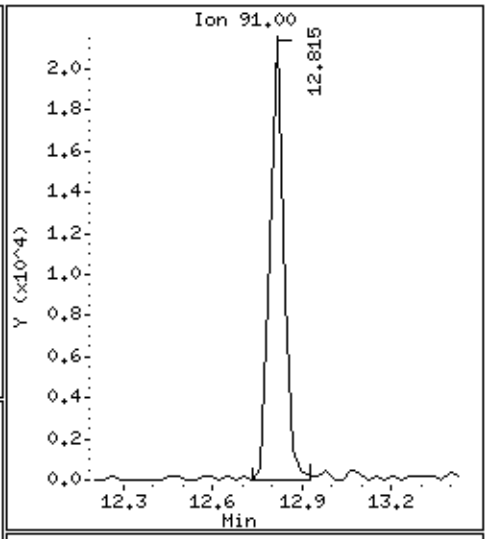
Column phase: RTx-624

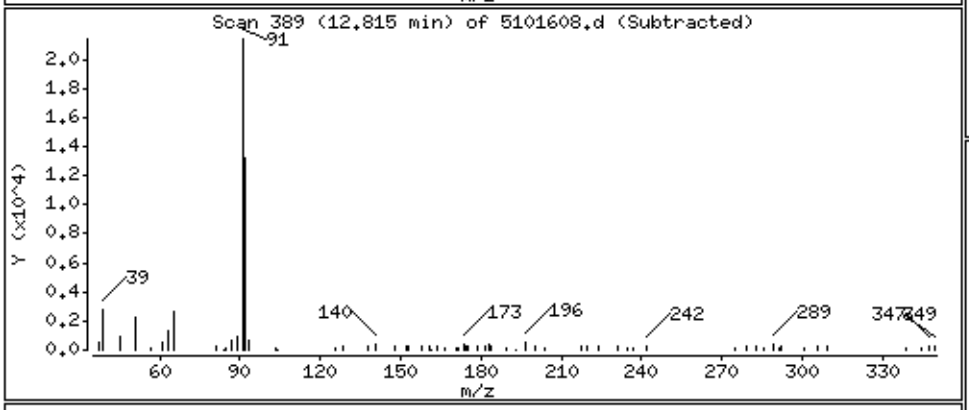
Column diameter: 0.53

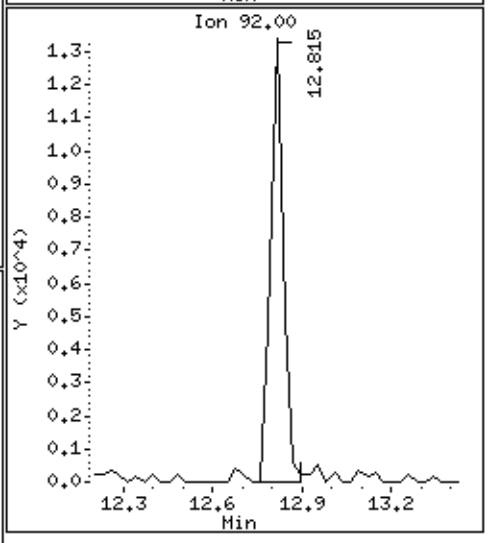
108 Toluene

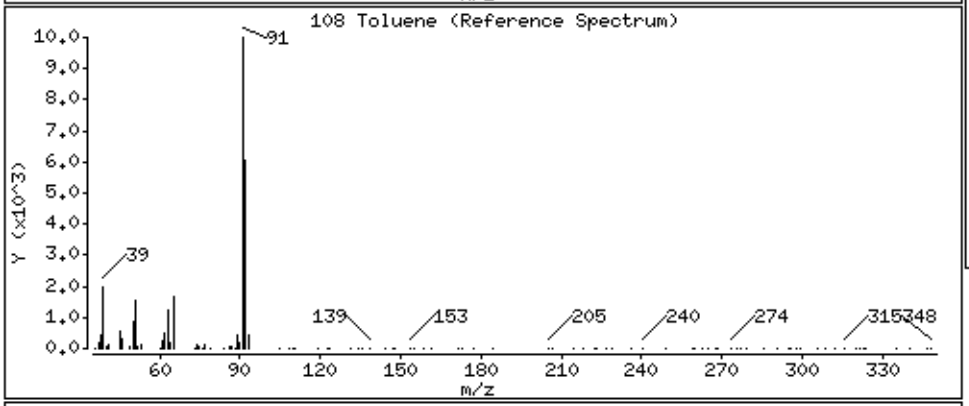
Concentration: 1.721 PPBV

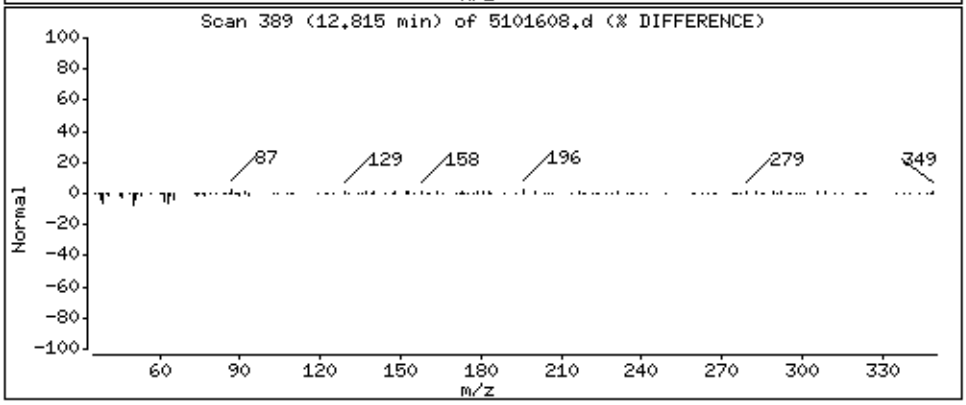












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS 4 UW

Lab ID#: 0710188-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.92	3.4	3.4	13

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 4 UW

Lab ID#: 0710188-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101609**	**Date of Collection:**	**10/4/07**
Dil. Factor:	**1.83**	**Date of Analysis:**	**10/16/07 07:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected
Bromomethane	0.92	Not Detected	3.6	Not Detected
Chloroethane	0.92	Not Detected	2.4	Not Detected
Freon 11	0.92	Not Detected	5.1	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Freon 113	0.92	Not Detected	7.0	Not Detected
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
Benzene	0.92	Not Detected	2.9	Not Detected
1,2-Dichloroethane	0.92	Not Detected	3.7	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
Toluene	0.92	3.4	3.4	13
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
1,2-Dibromoethane (EDB)	0.92	Not Detected	7.0	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	0.92	Not Detected	4.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.92	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.92	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
Cyclohexane	0.92	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 4 UW

Lab ID#: 0710188-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101609**	**Date of Collection: 10/4/07**	
Dil. Factor:	**1.83**	**Date of Analysis: 10/16/07 07:48 PM**	

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	87	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101609.d
Lab Smp Id: 0710188-02A
Inj Date : 16-OCT-2007 19:48
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #25316
Misc Info : 8.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.d
Als bottle: 1
Dil Factor: 1.83000
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	384523	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	292081			50.36- 110.36	75.96
8.059	8.059 (1.000)	49	800134			183.36- 243.36	208.08
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1458371	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	249177			0.00- 46.92	17.09
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1180548	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	690394			0.00- 30.00	58.48
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	550133	22.6521	22.652	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	276866			28.76- 88.76	50.33
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1278050	24.8258	24.826	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	133303			0.00- 39.82	10.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	804059			40.57- 100.57	62.91
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	519268	21.8479	21.848	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	875840			137.35- 197.35	168.67
16.575	16.575 (1.105)	176	508612			67.43- 127.43	97.95
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	104117	1.83207	3.353	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	59433			28.99- 88.99	57.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101609.d
Lab Smp Id: 0710188-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 8.0"Hg -> 5psi

Calibration Date: 16-OCT-2007
Calibration Time: 14:49

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432048	259229	604867	384523	-11.00
92 1,4-Difluorobenze	1679925	1007955	2351895	1458371	-13.19
125 Chlorobenzene-d5	1316846	790108	1843584	1180548	-10.35

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-16oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0710188-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 8.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	22.652	90.61	70-130
$ 107 Toluene-d8	25.000	24.826	99.30	70-130
$ 138 Bromofluorobenzene	25.000	21.848	87.39	70-130

Data File: /chem/msd5.i/5-16oct.b/5101609.d

Date : 16-OCT-2007 19:48

Client ID:

Sample Info: 200mL #25316

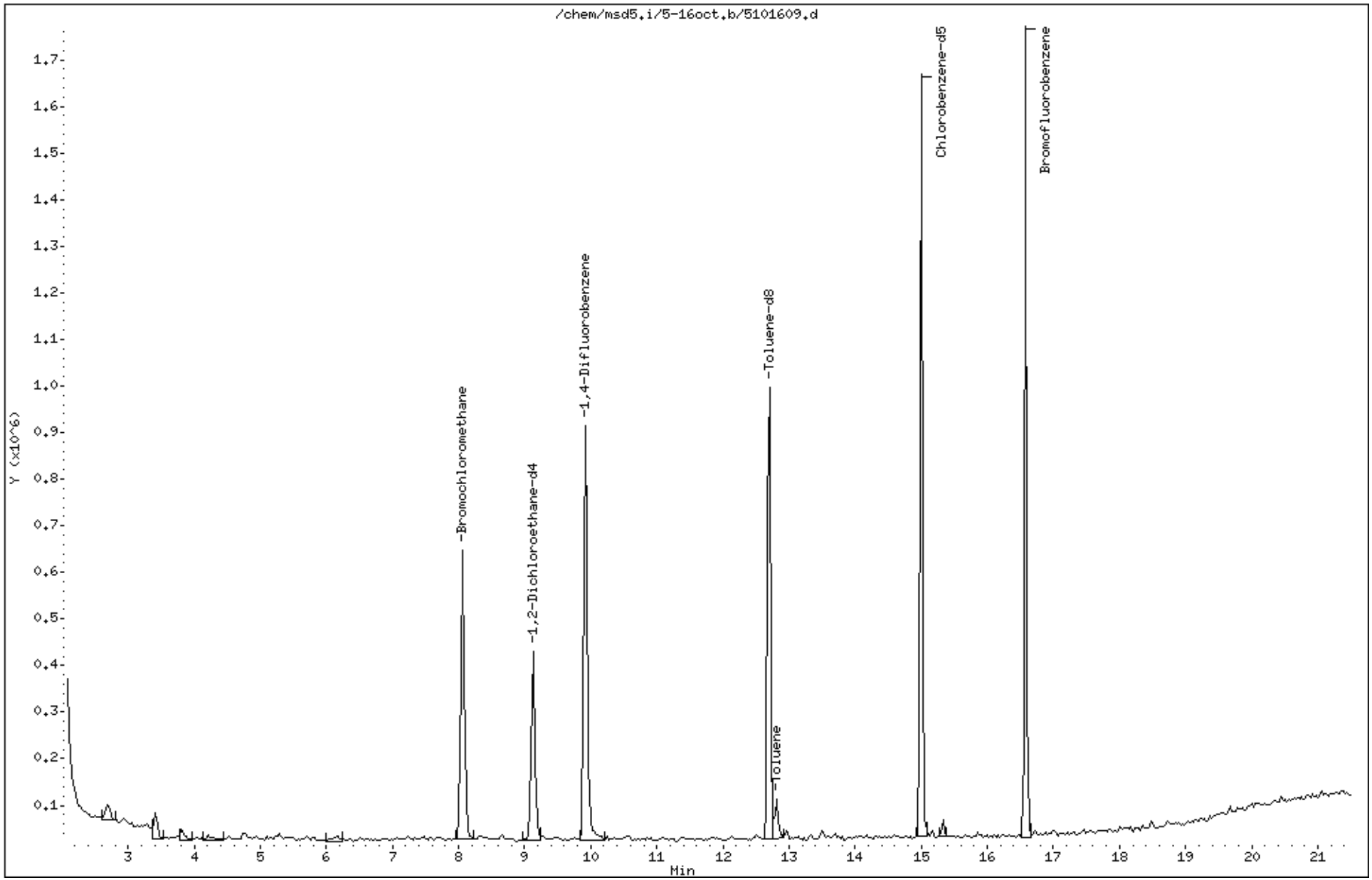
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0024



Data File: /chem/msd5.i/5-16oct.b/5101609.d

Date : 16-OCT-2007 19:48

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25316

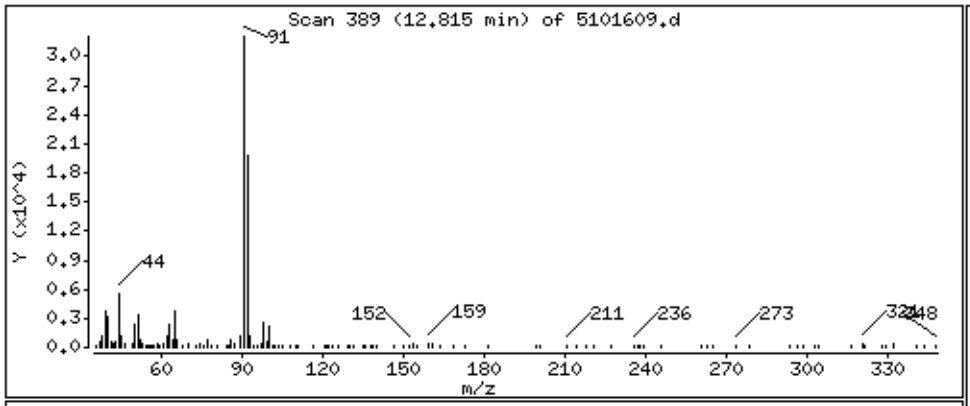
Operator: kr

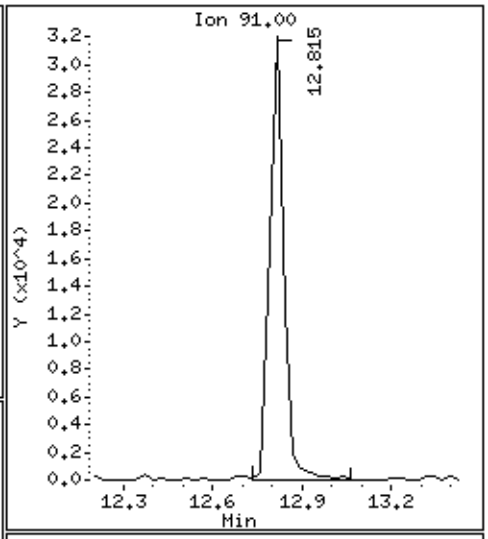
Column phase: RTx-624

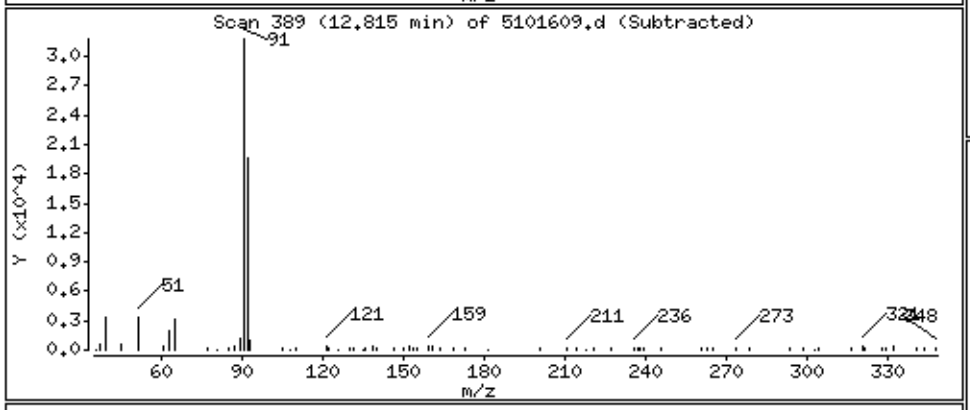
Column diameter: 0.53

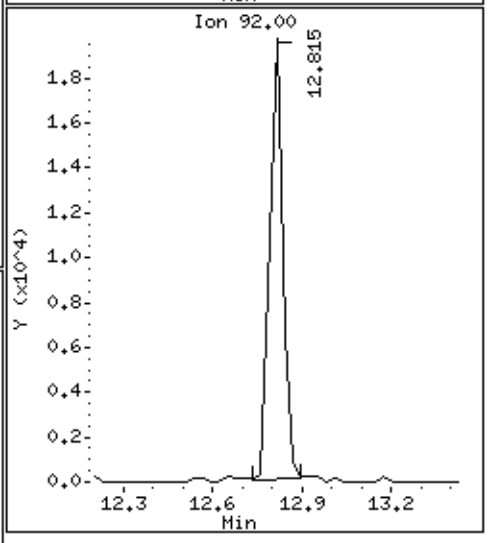
108 Toluene

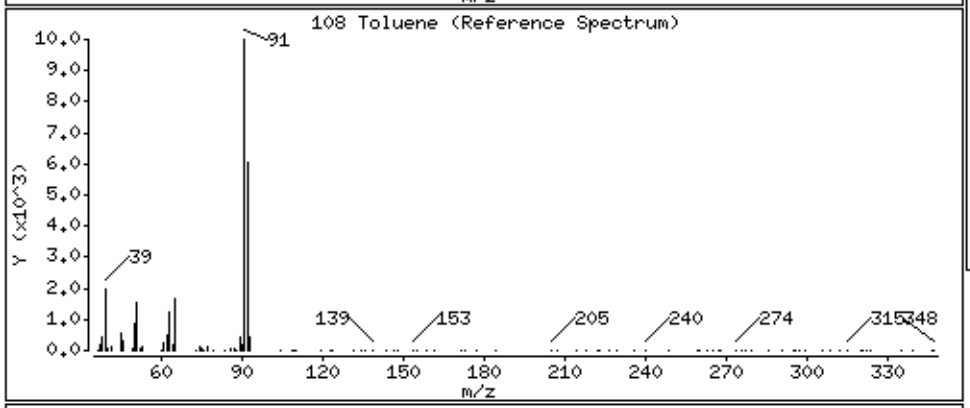
Concentration: 3.353 PPBV

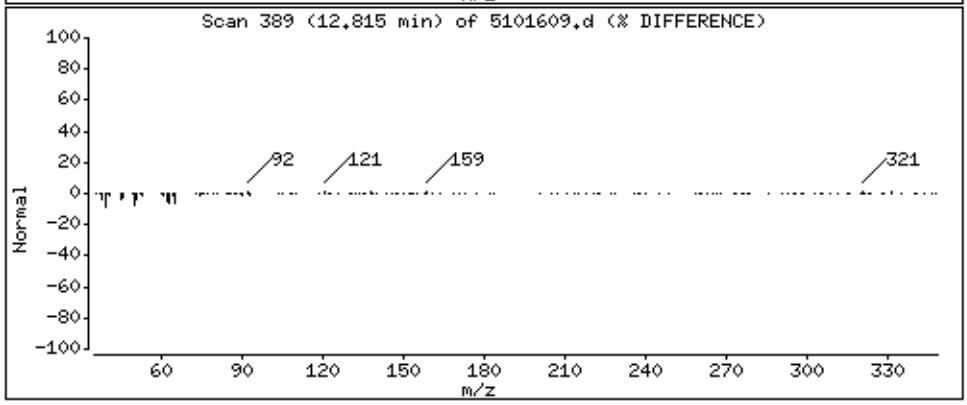












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS 4 UW Lab Duplicate

Lab ID#: 0710188-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.92	3.4	3.4	13

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 4 UW Lab Duplicate

Lab ID#: 0710188-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101610**	**Date of Collection:**	**10/4/07**
Dil. Factor:	**1.83**	**Date of Analysis:**	**10/16/07 08:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.92	Not Detected	4.5	Not Detected
Freon 114	0.92	Not Detected	6.4	Not Detected
Vinyl Chloride	0.92	Not Detected	2.3	Not Detected
Bromomethane	0.92	Not Detected	3.6	Not Detected
Chloroethane	0.92	Not Detected	2.4	Not Detected
Freon 11	0.92	Not Detected	5.1	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Freon 113	0.92	Not Detected	7.0	Not Detected
Methylene Chloride	0.92	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Chloroform	0.92	Not Detected	4.5	Not Detected
1,1,1-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Carbon Tetrachloride	0.92	Not Detected	5.8	Not Detected
Benzene	0.92	Not Detected	2.9	Not Detected
1,2-Dichloroethane	0.92	Not Detected	3.7	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2-Dichloropropane	0.92	Not Detected	4.2	Not Detected
cis-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
Toluene	0.92	3.4	3.4	13
trans-1,3-Dichloropropene	0.92	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.92	Not Detected	5.0	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
1,2-Dibromoethane (EDB)	0.92	Not Detected	7.0	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	0.92	Not Detected	4.0	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
Styrene	0.92	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.92	Not Detected	6.3	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,2,4-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
1,3-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
alpha-Chlorotoluene	0.92	Not Detected	4.7	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,3-Butadiene	0.92	Not Detected	2.0	Not Detected
Hexane	0.92	Not Detected	3.2	Not Detected
Cyclohexane	0.92	Not Detected	3.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 4 UW Lab Duplicate

Lab ID#: 0710188-02AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101610**	**Date of Collection: 10/4/07**	
Dil. Factor:	**1.83**	**Date of Analysis: 10/16/07 08:20 PM**	

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	86	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101610.d
Lab Smp Id: 0710188-02AA
Inj Date : 16-OCT-2007 20:20
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #25316
Misc Info : 8.0"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.d
Als bottle: 1
Dil Factor: 1.83000
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	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	378875	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	298746			50.36- 110.36	78.85
8.059	8.059 (1.000)	49	805054			183.36- 243.36	212.49
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1435393	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	237480			0.00- 46.92	16.54
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1188510	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	672945			0.00- 30.00	56.62
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	530319	22.1618	22.162	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	262593			28.76- 88.76	49.52
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1258815	24.8436	24.844	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	121863			0.00- 39.82	9.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	792806			40.57- 100.57	62.98
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	511696	21.3851	21.385	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	863079			137.35- 197.35	168.67
16.575	16.575 (1.105)	176	503898			67.43- 127.43	98.48
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	103676	1.85351	3.392	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	58224			28.99- 88.99	56.16

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101610.d
Lab Smp Id: 0710188-02AA
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 8.0"Hg -> 5psi

Calibration Date: 16-OCT-2007
Calibration Time: 14:49

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432048	259229	604867	378875	-12.31
92 1,4-Difluorobenze	1679925	1007955	2351895	1435393	-14.56
125 Chlorobenzene-d5	1316846	790108	1843584	1188510	-9.75

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-16oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0710188-02AA
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 8.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	22.162	88.65	70-130
$ 107 Toluene-d8	25.000	24.844	99.37	70-130
$ 138 Bromofluorobenzene	25.000	21.385	85.54	70-130

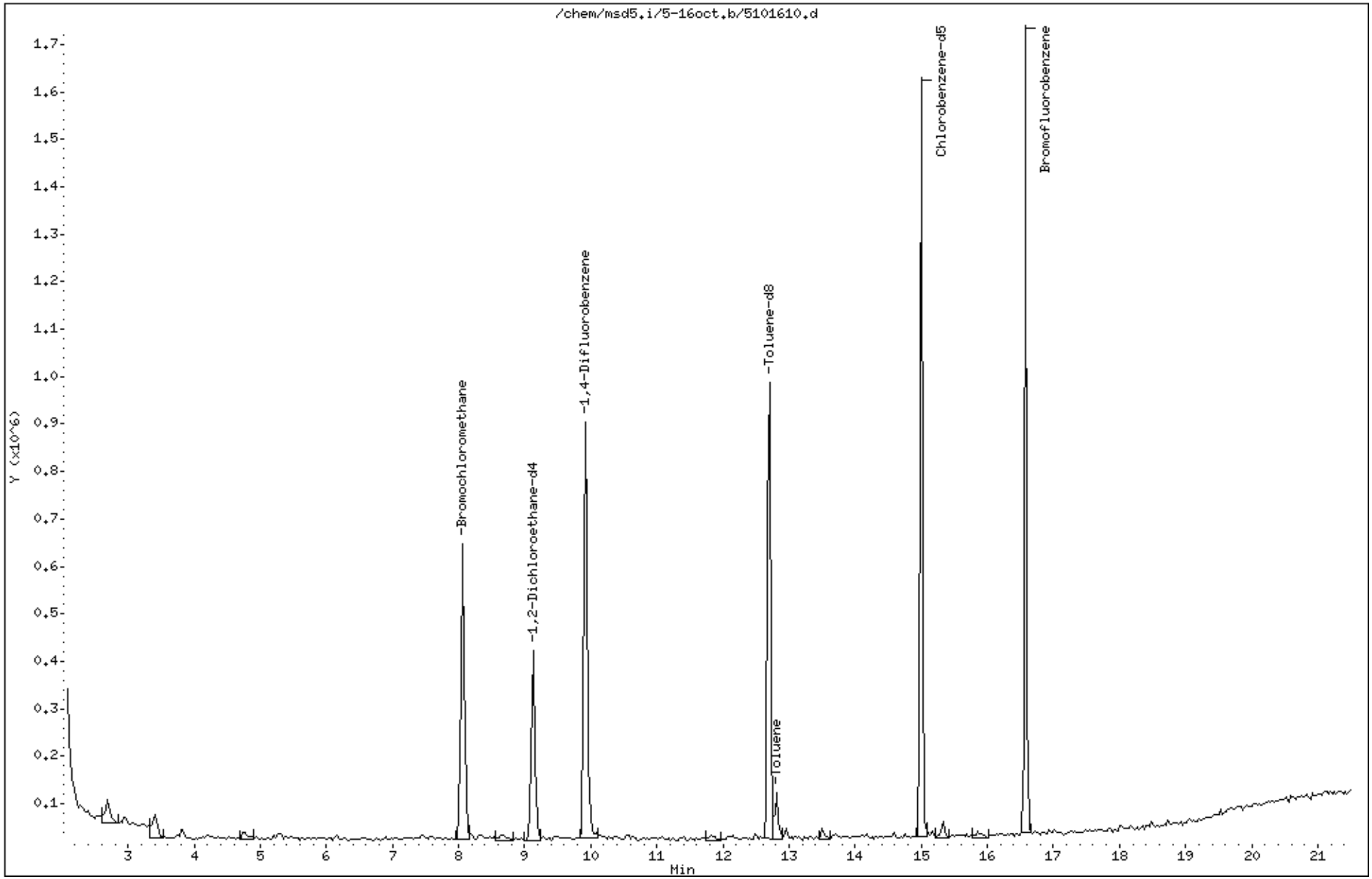
0033

Data File: /chem/msd5.i/5-16oct.b/5101610.d
Date : 16-OCT-2007 20:20
Client ID:
Sample Info: 200mL #25316

Column phase: RTx-624

Instrument: msd5.i

Operator: kr
Column diameter: 0.53



Data File: /chem/msd5.i/5-16oct.b/5101610.d

Date : 16-OCT-2007 20:20

Client ID:

Instrument: msd5.i

Sample Info: 200mL #25316

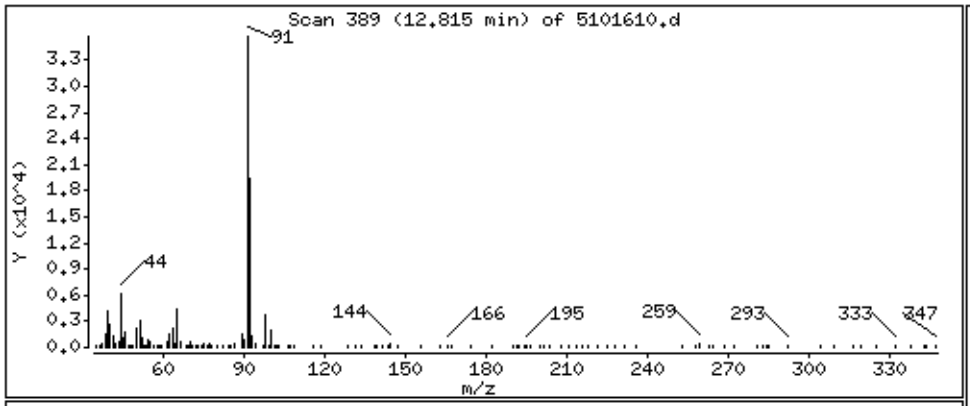
Operator: kr

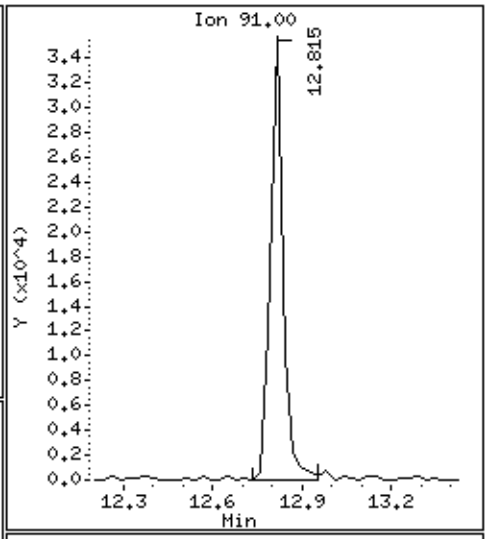
Column phase: RTx-624

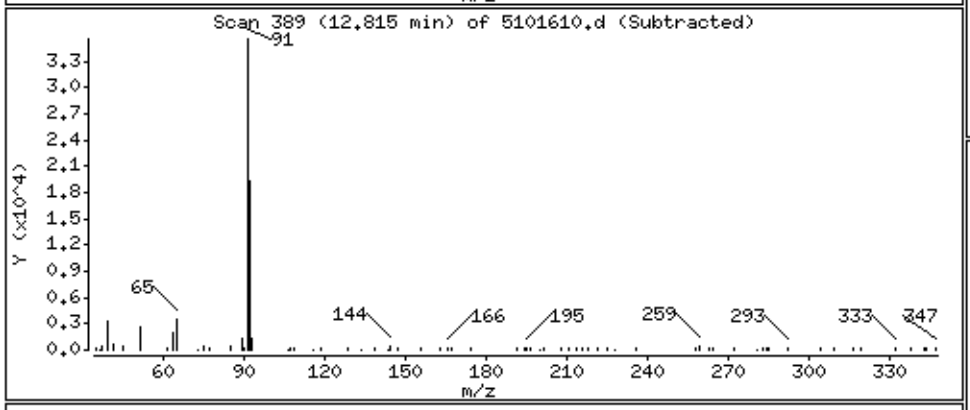
Column diameter: 0.53

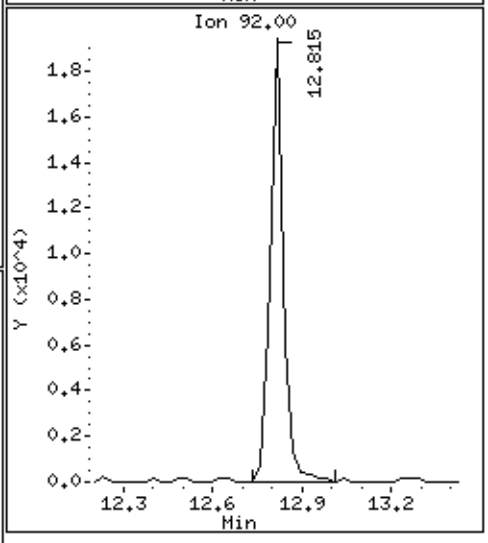
108 Toluene

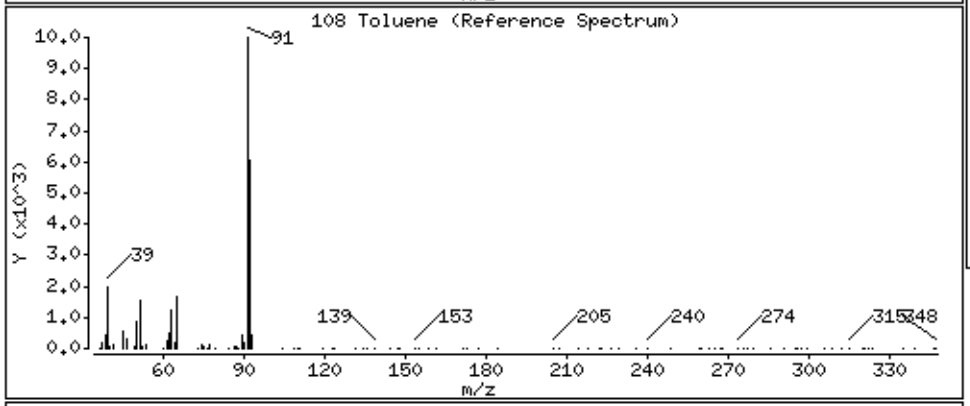
Concentration: 3.392 PPBV

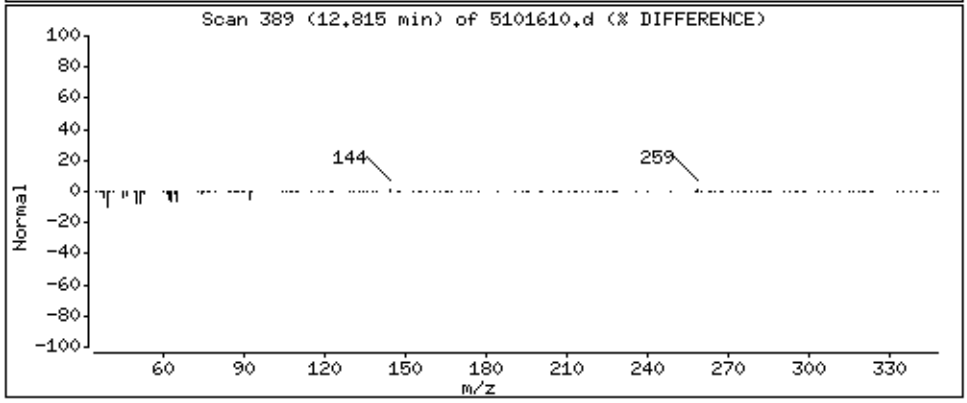












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0710188-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 04:18 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0710188-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101605**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 04:18 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	88	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101605.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 16-OCT-2007 16:18
Operator : lmr Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.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 ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	419154	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	319738			50.36- 110.36	76.28
8.059	8.059 (1.000)	49	874599			183.36- 243.36	208.66
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1582268	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	263306			0.00- 46.92	16.64
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1261520	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	725409			0.00- 30.00	57.50
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	570005	21.5312	21.531	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	291453			28.76- 88.76	51.13
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1374665	24.6116	24.612	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	139087			0.00- 39.82	10.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	899481			40.57- 100.57	65.43
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	557589	21.9544	21.954	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	932978			137.35- 197.35	167.32
16.575	16.575 (1.105)	176	552460			67.43- 127.43	99.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101605.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: Humid

Calibration Date: 16-OCT-2007
Calibration Time: 14:49
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432048	259229	604867	419154	-2.98
92 1,4-Difluorobenze	1679925	1007955	2351895	1582268	-5.81
125 Chlorobenzene-d5	1316846	790108	1843584	1261520	-4.20

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

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

Report Date: 16-Oct-2007 16:26

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-16oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	21.531	86.12	70-130
$ 107 Toluene-d8	25.000	24.612	98.45	70-130
$ 138 Bromofluorobenzene	25.000	21.954	87.82	70-130

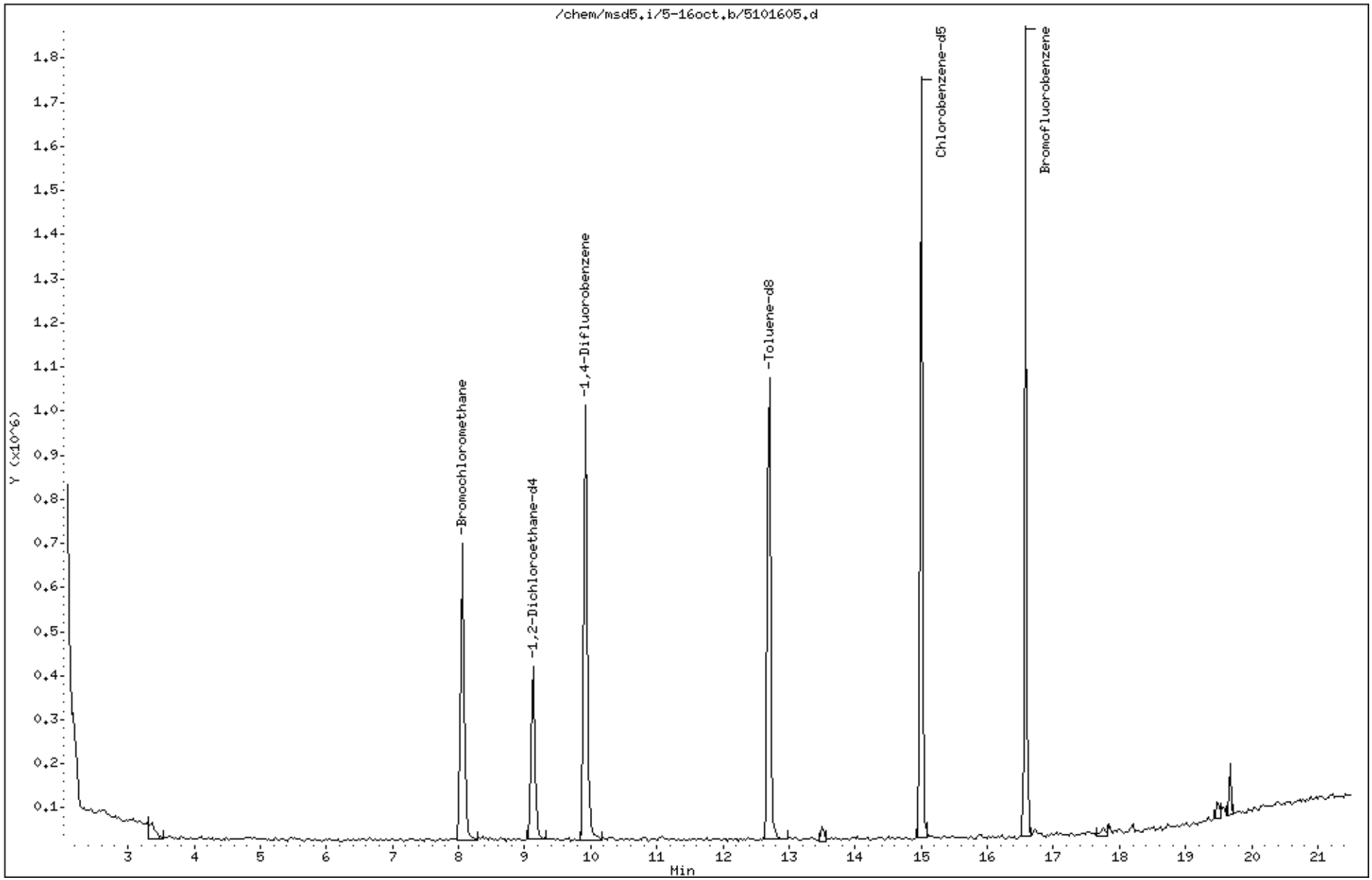
0042

Data File: /chem/msd5.i/5-16oct.b/5101605.d
Date : 16-OCT-2007 16:18
Client ID: Lab Blank
Sample Info: 200mL #12941

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0710188

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS 3 DW	88		98		87				0
02	AMS 4 UW	91		99		87				0
03	AMS 4 UW Lab Duplicate	89		99		86				0
04	Lab Blank	86		98		88				0
05	CCV	90		103		93				0
06	LCS	90		105		96				0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0710188

Lab File ID: 5101604.d | Date Analyzed: 10/16/2007

Instrument ID: msd5.i | Time Analyzed: 02:49 PM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1316846		15		1679925		9.91		432048		8.06	
	UPPER LIMIT	1843584		15.33		2351895		10.24		604867		08.39	
	LOWER LIMIT	790108		14.67		1007955		09.58		259229		07.73	
	CLIENT SAMPLE NO												
01	AMS 3 DW	1207325		15		1521732		9.91		400393		8.06	
02	AMS 4 UW	1180548		15		1458371		9.91		384523		8.06	
03	AMS 4 UW Lab Duplicate	1188510		15		1435393		9.91		378875		8.06	
04	Lab Blank	1261520		15		1582268		9.91		419154		8.06	
05	CCV	1316846		15		1679925		9.91		432048		8.06	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd. Lab File ID: 5101610.d & 5101609.d

Lab Sample ID: 02A & 02AA Dilution: 1.83 & 1.83

Client Sample ID: & Date Analyzed: 10/16/07 & 10/16/07

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

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

SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: 5101610.d & 5101609.d
Lab Sample ID: 02A & 02AA
Dilution: 1.83 & 1.83
Client Sample ID: &
Date Analyzed: 10/16/07 & 10/16/07

		Original		Duplicate		
CAS Number	Compound	Amount	Flags	Amount	Flags	RPD
142-82-5	Heptane	ND	U	ND	U	0
87-68-3	Hexachlorobutadiene	ND	U	ND	U	0
110-54-3	Hexane	ND	U	ND	U	0
108-38-3	m,p-Xylene	ND	U	ND	U	0
1634-04-4	Methyl tert-butyl ether	ND	U	ND	U	0
75-09-2	Methylene Chloride	ND	U	ND	U	0
91-20-3	Naphthalene	ND	U	ND	U	0
95-47-6	o-Xylene	ND	U	ND	U	0
103-65-1	Propylbenzene	ND	U	ND	U	0
100-42-5	Styrene	ND	U	ND	U	0
127-18-4	Tetrachloroethene	ND	U	ND	U	0
109-99-9	Tetrahydrofuran	ND	U	ND	U	0
108-88-3	Toluene	3.353		3.392		1.2
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 : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-28sep.b/5092805.d
Level 2: /chem/msd5.i/5-28sep.b/5092806.d
Level 3: /chem/msd5.i/5-05oct.b/5100504.d
Level 4: /chem/msd5.i/5-28sep.b/5092808.d
Level 5: /chem/msd5.i/5-05oct.b/5100505.d
Level 6: /chem/msd5.i/5-28sep.b/5092810.d
Level 7: /chem/msd5.i/5-05oct.b/5100506.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Propylene	+++++	+++++	1.44708	1.98761	1.86774	1.75386	1.70670	1.75260	11.551
7 Isobutane	+++++	+++++	4.41248	+++++	4.82597	+++++	4.15140	4.46328	7.621

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.12872	2.18335	3.37429	3.14239	2.87311	2.65088	2.72546	18.507
9 Freon 114	+++++	2.68289	2.45757	3.14628	3.03260	2.73751	2.55059	2.76791	9.760
10 Chloromethane	+++++	+++++	2.10713	2.69117	2.60163	2.38401	2.06693	2.37017	11.895
11 Butane	+++++	+++++	0.40503	0.58953	0.54266	0.52365	0.51163	0.51450	13.217
12 1,3-Butadiene	+++++	1.51513	1.54266	2.12090	2.07198	1.98144	1.88488	1.85283	14.233
13 Vinyl Chloride	+++++	1.69860	1.53103	2.20665	2.12274	2.04442	1.95991	1.92723	13.538
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	0.96132	0.99721	1.49429	1.46532	1.43244	1.38170	1.28871	18.846
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.64789	3.47793	3.43156	3.31542	3.21009	3.21658	10.401

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Pentane	+++++	+++++	3.99905	+++++	5.12749	+++++	4.64008	4.58887	12.333
19 Chloroethane	+++++	1.06077	1.01357	1.15172	1.10379	1.02702	1.01327	1.06169	5.285
20 Trichlorofluoromethane/Fr11	+++++	2.79294	2.49157	3.61151	3.45988	3.33088	3.14740	3.13903	13.531
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	0.50023	+++++	0.62489	+++++	0.55860	0.56124	11.114
26 Ethanol	+++++	+++++	0.52546	0.70989	0.70300	0.59721	0.63476	0.63406	12.128
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.95926	1.69961	2.31816	2.22648	2.10718	2.00922	2.05332	10.646
31 1,1-Dichloroethene	+++++	2.48794	1.97213	2.82457	2.76306	2.66605	2.61919	2.55549	12.082
32 Acetone	+++++	+++++	0.78148	0.99893	0.99029	1.00349	0.95484	0.94581	9.920
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	3.49359	3.57594	4.70472	4.57321	4.34572	4.23657	4.15496	12.238
36 2-Propanol	+++++	+++++	2.37188	3.55381	3.66249	3.66733	3.56802	3.36470	16.568
37 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
38 3-Chloropropene	+++++	+++++	0.41794	0.75416	0.70312	0.69904	0.67788	0.65043	20.440	
39 Acrylonitrile	+++++	+++++	1.43720	+++++	2.02577	+++++	1.85757	1.77352	17.093	
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 1-Pentene	+++++	+++++	1.73509	+++++	2.06224	+++++	1.90395	1.90043	8.609	
43 Methylene Chloride	+++++	2.13429	2.14085	2.53648	2.47386	2.36432	2.24002	2.31497	7.365	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 MTBE	+++++	1.86986	1.35831	1.13254	0.96525	0.83784	0.66045	1.13737	37.963	<-
47 trans-1,2-Dichloroethene	+++++	1.67544	1.30368	1.78284	1.70065	1.64080	1.58033	1.61396	10.291	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Hexane	+++++	2.60516	2.64582	3.49099	3.44377	3.36931		
	3.35229						3.15123	13.027
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 1,1-Dichloroethane	+++++	2.81376	2.30075	3.00288	3.00357	2.85491		
	2.83609						2.80199	9.256
56 Vinyl Acetate	+++++	+++++	0.20162	0.34167	0.36562	0.37676		
	0.38051						0.33324	22.543
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 1-Hexene	+++++	+++++	1.08571	+++++	1.51690	+++++	1.43066	1.34442	16.971
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	0.28394	+++++	0.35944	+++++	0.34431	0.32923	12.134
62 Methyl Acrylate	+++++	+++++	2.43310	+++++	3.54777	+++++	3.38924	3.12337	19.307
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.46720	1.62219	2.26274	2.24411	2.13687	2.13275	1.97764	17.349
67 2-Butanone	+++++	0.31703	0.45498	0.61855	0.64822	0.64831	0.65515	0.55704	25.142

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	2.57536	2.19530	2.54592	2.53789	2.49845	2.48928	2.47370	5.660
72 Chloroform	2.74254	2.08492	2.26675	2.59645	2.62763	2.44421	2.42211	2.45495	9.200
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.23131	1.43757	1.91630	1.92555	1.83198	1.82571	1.69474	17.086
75 1,1,1-Trichloroethane	+++++	2.30267	1.97094	2.69531	2.62429	2.55200	2.52576	2.44516	10.940
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	1.56934	1.72842	2.29234	2.24774	2.23569	2.16979	2.04055	15.193
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
80 2,2,4-Trimethylpentane	+++++	5.90398	6.27249	9.07707	9.21105	9.00347	9.08947	8.09292	19.259
81 Benzene	1.57101	0.94646	0.76464	1.09607	1.04884	1.00306	0.98187	1.05885	23.517
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
85 1,2-Dichloroethane	+++++	0.54286	0.44534	0.60277	0.57377	0.54754	0.52905	0.54022	9.874
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.09609	0.07462	0.13026	0.12578	0.12467	0.12271	0.11236	19.696
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.42426	0.36799	0.46010	0.44791	0.42322	0.41636	0.42331	7.521
94 Methyl Cyclohexane	+++++	0.45630	0.42415	0.63189	0.62001	0.59623	0.59322	0.55363	16.186
95 Dibromomethane	+++++	+++++	0.24411	+++++	0.32900	+++++	0.28844	0.28719	14.785
96 Methyl Methacrylate	+++++	+++++	0.48402	+++++	0.75955	+++++	0.73201	0.65853	23.045
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.42186	0.31978	0.42069	0.40698	0.38769	0.38279	0.38997	9.754
99 1,4-Dioxane	+++++	+++++	0.17270	0.22595	0.23532	0.22997	0.22181	0.21715	11.672
100 Bromodichloromethane	+++++	0.60163	0.46926	0.67665	0.65367	0.63530	0.62411	0.61010	12.060

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
103 cis-1,3-Dichloropropene	+++++	0.29749	0.28151	0.45519	0.45640	0.44524	0.45058	0.39773	21.140	
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
106 4-Methyl-2-pentanone	+++++	0.24449	0.23457	0.37977	0.36794	0.36554	0.37967	0.32866	21.104	
108 Toluene	+++++	0.82023	0.80021	1.11330	1.07052	1.01872	1.02227	0.97421	13.532	
109 trans-1,4-dichloro-2-butene	+++++	+++++	0.10793	+++++	0.17601	+++++	0.20632	0.16342	30.835	<-
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.46773	0.31950	0.57375	0.57464	0.59810	0.60758	0.52355	21.355
114 1,1,2-Trichloroethane	+++++	0.46564	0.35127	0.47573	0.45392	0.43730	0.42592	0.43496	10.310
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Tetrachloroethene	+++++	0.54872	0.47316	0.58746	0.53527	0.52060	0.50774	0.52883	7.317
117 Bis(2-chloroethyl) ether	+++++	+++++	0.74573	+++++	0.98154	+++++	0.99892	0.90873	15.564
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 2-Hexanone	+++++	+++++	0.37361	0.58237	0.60854	0.61896	0.64816	0.56633	19.473
120 Dibromochloromethane	+++++	0.49847	0.50268	0.71099	0.68453	0.68951	0.69785	0.63067	16.043
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 1,2-Dibromoethane	+++++	0.54695	0.49982	0.70822	0.68451	0.66877	0.67956	0.63131	13.605
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.37644	+++++	0.53445	+++++	0.49386	0.46825	17.525
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.98318	0.84449	1.07095	1.01742	0.98446	1.00061	0.98352	7.665
127 Nonane	+++++	+++++	1.01516	+++++	1.59438	+++++	1.56428	1.39127	23.437
128 Ethyl Benzene	+++++	0.50778	0.41548	0.56980	0.55856	0.54531	0.54707	0.52400	10.903
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.57674	0.47591	0.72001	0.70217	0.69266	0.70303	0.64508	15.154
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.36379	0.42765	0.66111	0.65092	0.63592	0.63300	0.56207	23.276

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Styrene	0.96054	0.69741	0.61205	1.04335	1.03169	1.04083	1.04778	0.91909	20.093
134 Bromoform	+++++	0.50930	0.40433	0.63702	0.61398	0.60648	0.61820	0.56489	16.041
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Cumene	2.08068	1.50782	1.22451	2.05413	2.02094	2.00791	1.98533	1.84019	18.227
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.88273	0.78970	0.96395	0.92323	0.90199	0.91564	0.89621	6.555
142 Propylbenzene	+++++	1.83586	1.75335	2.43096	2.34207	2.37656	2.36466	2.18391	13.924
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 4-Ethyltoluene	+++++	1.28733	1.39332	2.07364	2.02520	2.00345	2.02682	1.80163	19.961
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.56353	1.32522	1.96575	1.89324	1.84144	1.83598	1.73753	14.029
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	0.90896	1.07350	1.65485	1.61129	1.64575	1.68051	1.42914	24.062
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
155 1,3-Dichlorobenzene	+++++	0.88634	0.94175	1.16321	1.11639	1.10148	1.07587	1.04751	10.371	
156 1,4-Dichlorobenzene	+++++	1.08896	0.98194	1.33405	1.29660	1.24848	1.20536	1.19256	11.202	
157 alpha-Chlorotoluene	+++++	1.01493	0.84510	1.64562	1.87452	2.01773	1.84206	1.53999	31.826	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
159 1,2-Dichlorobenzene	+++++	1.13415	1.06982	1.22363	1.16525	1.13873	1.10153	1.13885	4.657	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.82509	0.81604	0.81156	0.81789	0.79711	0.81354	1.278	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-05oct.b/t14q928b.m
Cal Date : 05-Oct-2007 13:54 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.60567	0.63649	0.62336	0.59660		
	0.56838						0.60610	4.314
165 Naphthalene	+++++	+++++	2.67644	2.63804	2.86661	2.84275		
	1.99522						2.60381	13.619
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.57317	1.55281	1.49776	1.55205	1.59769		
	1.70041						1.57898	4.308
$ 107 Toluene-d8	+++++	0.84623	0.84825	0.88695	0.92612	0.87940		
	0.90808						0.88250	3.610
$ 138 Bromofluorobenzene	+++++	0.50037	0.48641	0.51460	0.50571	0.50350		
	0.50930						0.50331	1.913

Calibration History

Method : /chem/msd5.i/5-05oct.b/t14q928b.m
Start Cal Date: 28-SEP-2007 11:16
End Cal Date : 05-OCT-2007 11:18

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
28-SEP-2007 11:16	AFCEElow	/chem/msd5.i/5-28sep.b/5092805.d
Cal Level: 2 , Cal Amount: 0.50000		
28-SEP-2007 11:44	AT04Low+ENSR	/chem/msd5.i/5-28sep.b/5092806.d
Cal Level: 3 , Cal Amount: 2.00000		
05-OCT-2007 10:19	sp18b	/chem/msd5.i/5-05oct.b/5100504.d
28-SEP-2007 12:12	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092807.d
Cal Level: 4 , Cal Amount: 25.00000		
28-SEP-2007 12:40	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092808.d
Cal Level: 5 , Cal Amount: 50.00000		
05-OCT-2007 10:46	sp18b	/chem/msd5.i/5-05oct.b/5100505.d
28-SEP-2007 13:07	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092809.d
Cal Level: 6 , Cal Amount: 100.00000		
28-SEP-2007 13:36	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092810.d
Cal Level: 7 , Cal Amount: 200.00000		
05-OCT-2007 11:18	sp18b	/chem/msd5.i/5-05oct.b/5100506.d
28-SEP-2007 14:08	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092811.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000		
05-OCT-2007 09:07	AT04ENSR	/chem/msd5.i/5-05oct.b/5100502.d
Ccal Level: 8 , Ccal Amount: 50.000		
05-OCT-2007 10:46	sp18bCCV	/chem/msd5.i/5-05oct.b/5100505a.d

MSD-5

@ Air Toxics Ltd.

Logbook #: 1586

9900

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.74
75	30.0 – 60.0% of mass 95	49.23
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.48
173	Less than 2.0% of mass 174	(0.82)[1]
174	Greater than 50.0% of mass 95	58.94
175	5.0 – 9.0% of mass 174	(7.02)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.85)[1]
177	5.0 – 9.0% of mass 176	(6.76)[2]

[1] - *value in parenthesis is % mass 174*

[2] - *value in parenthesis is % mass 176*

BFB Injection Date: 9/28/07

BFB Injection Time: 0958

BFB File ID: 5092804

Tekmar Purge Flow: 16.5mL/min

Vacuum: 3.22×10^{-6}

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 2888887	
1,4-DFB 1067015	
CB-d5 987636	

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

Verify 176/174 m/z Ratio: 10-1-07 cp

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

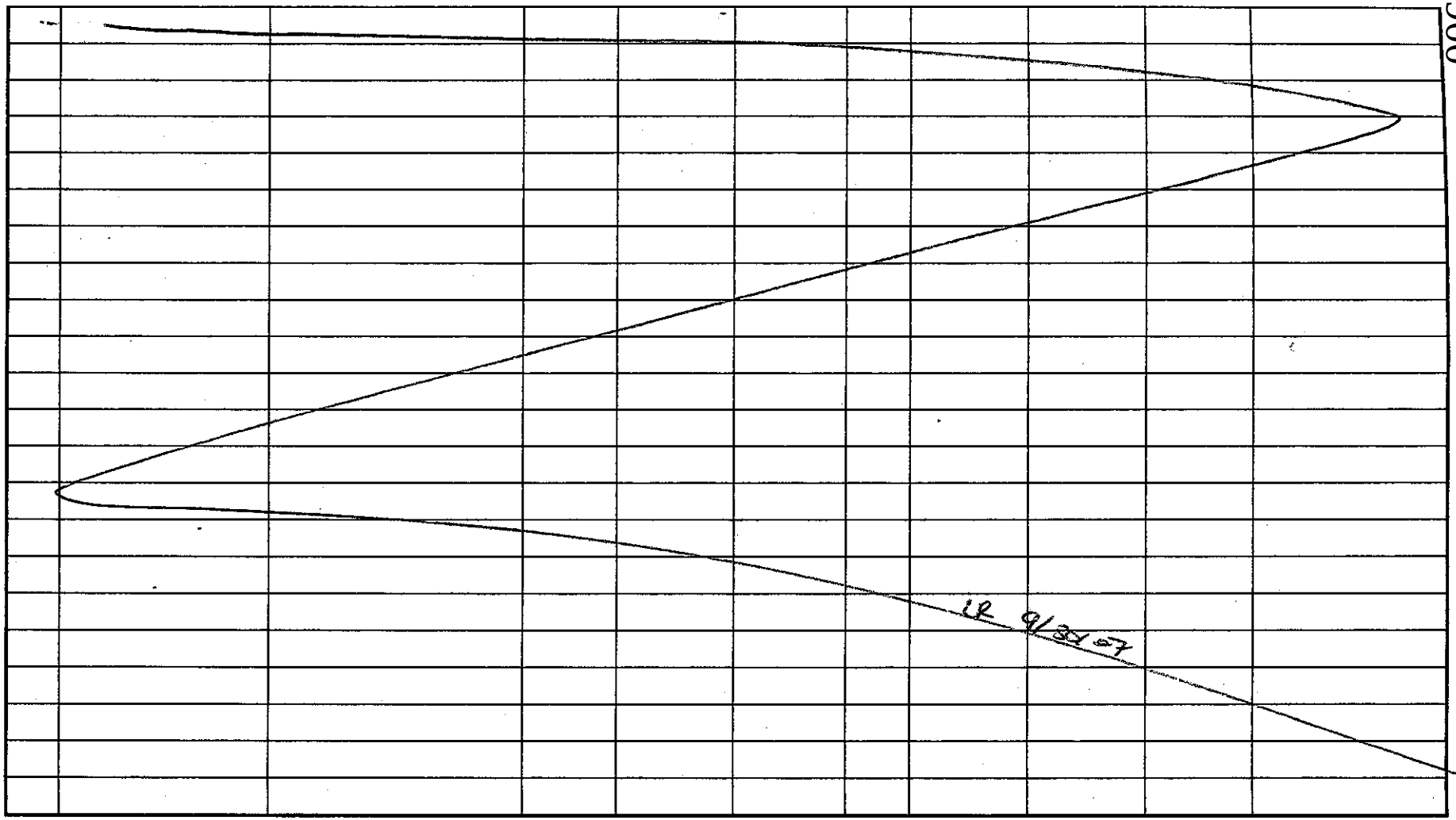
File ID:	5092809
Compound:	To1-08
Initials:	LR

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 988185\ )}{(\ 1067015\ )} \times \frac{(\ 25\ )}{(\ 0.8825\ )} = 26.236$$

Reported Result 26.236

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5092804	BFB Tunecheck	643-2981	50ng	2µl	1.00	9/28/07	0958	LR	
2	✓	05	ICAL Lvl 1	1576-18	0.3ppbv	0.3mL			1116	LR	
3	✓	06	2		0.5ppbv	0.5mL			1144	LR	
4	✓	07	3		2.0ppbv	2.0mL			1212	LR	
5	✓	08	4		25ppbv	25mL			1240	LR	±14%9289
6	✓	09	5		50ppbv	50mL			1307	LR	
7	✓	10	6		100ppbv	100mL			1336	LR	
8	✓	11	7		200ppbv	200mL			1408	LR	
9	✓	12	System Blank	12941	Humid	200mL			1737	LR	
10	✓	13	1443-295A 100ppbv	LCS	50ppbv	100mL			1805	LR	ICAL LCS



Comments: Real 24.9 ml/min Nom: 22.6 ml/min NIST Flow Meter SN: 1-18512 exp ~~Jul~~ 09/25/07 Jun 11, 2008

Signature

9/30/07
Date

MSD-5

@ Air Toxics Ltd.

Logbook #: 1586

8908

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.79
75	30.0 – 60.0% of mass 95	47.55
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.37
173	Less than 2.0% of mass 174	(0.97)[1]
174	Greater than 50.0% of mass 95	61.71
175	5.0 – 9.0% of mass 174	(7.17)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.36)[1] ✓
177	5.0 – 9.0% of mass 176	(7.08)[2]

[1] - *value in parenthesis is % mass 174*

[2] - *value in parenthesis is % mass 176*

Verify 176/174 m/z Ratio: 985088/1022336 x100 = 96.36

BFB Injection Date: 10/5/07

BFB Injection Time: 0845

BFB File ID: 5100501

Tekmar Purge Flow: 11.8ml/min

Vacuum: 3.20×10^{-4}

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 395825	
1,4-DFB 1475345	
CB-d5 1167882	

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

NOAH Cart #: 7 **File #:** 8100400

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1295989)}{(1475345)} \times \frac{(25)}{(0.8825)} = 24.885$

Reported Result 24.885

File ID: 5100502	
Compound: Tol-d8	
Initials: UR	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5100501	BFB Tune Check	1476-6S	50ng	2ML	1.00	10/5/07	0845	UR	
2	✓	02	CCV-1 (200ppbv)	1576-25	50ppbv	50mL			0907	UR	
3	✓	03	LCS-1 (200ppbv)	1443-346	↓	↓			0935	UR	
4	✓	04	ICAL Lvl 3	1443-354	2.0ppbv	2.0mL			1019	UR	±14g9286
5	✓	05	↓ 5	↓	50ppbv	50mL			1046	UR	sp18bCCV
6	✓	06	↓ 7	↓	200ppbv	200mL			1118	UR	
7	✓	07	Lab Blank	12941	humid				1330	UR	
8	✓	08	Cart Cert+FF10, leg3	↓	↓		↓		1439	UR	
9		09	07100424A-004	30852	8.8"Hg → 5psi		1.83				
10	✓	10	↓ -07A	14004	10.5"Hg ↓	↓	2.06	↓			

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-5 on Sep, 28, 2007.

The following compounds used 0.3 ppbv as the lowest calibration concentration: Chloroform, Benzene, Cumene and Styrene.

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092813.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 28-SEP-2007 18:05
Operator : lmr Inst ID: msd5.i
Smp Info : 100mL #1443-295A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 30-Sep-2007 09:00 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.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 ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	308638	25.0000			80.00- 120.00	100.00
8.059	8.059 (1.000)	128	246939				49.43- 109.43	80.01
8.059	8.059 (1.000)	49	713648				190.13- 250.13	231.22
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1182971	25.0000			80.00- 120.00	100.00
9.912	9.912 (1.000)	88	201213				0.00- 47.82	17.01
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	968431	25.0000			80.00- 120.00	100.00
14.999	14.999 (1.000)	82	573702				28.84- 88.84	59.24
$ 84 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	471897	24.2081	24.208		80.00- 120.00	100.00
9.137	9.137 (1.134)	67	248752				28.76- 88.76	52.71
$ 107 Toluene-d8						CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1044685	25.0169	25.017		80.00- 120.00	100.00
12.676	12.704 (1.279)	70	118406				0.00- 39.82	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	675395			40.57- 100.57	64.65
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	486470	24.9511	24.951	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	755269			127.13- 187.13	155.26
16.575	16.575 (1.105)	176	466623			69.27- 129.27	95.92
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1159133	53.5724	53.572	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	798845			37.78- 97.78	68.92
2.280	2.280 (0.283)	39	760182			36.38- 96.38	65.58
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1757665	52.2381	52.238	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	570917			2.15- 62.15	32.48
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1710311	50.0512	50.051	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	535842			2.55- 62.55	31.33
10 Chloromethane					CAS #: 74-87-3		
2.640	2.612 (0.328)	50	1478474	50.5271	50.527	80.00- 120.00	100.00
2.640	2.584 (0.328)	52	436973			0.00- 59.05	29.56
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1265405	53.1848	53.185	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	375876			0.94- 60.94	29.70
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.750 (0.345)	54	1197174	52.3374	52.337	80.00- 120.00	100.00
2.778	2.750 (0.345)	39	1304244			76.94- 136.94	108.94
15 Bromomethane					CAS #: 74-83-9		
3.303	3.276 (0.410)	94	856256	53.8193	53.819	80.00- 120.00	100.00
3.303	3.276 (0.410)	96	804825			66.08- 126.08	93.99
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	615928	46.9919	46.992	80.00- 120.00	100.00
3.442	3.414 (0.427)	49	177972			0.00- 59.42	28.89
3.442	3.414 (0.427)	66	157170			0.00- 59.02	25.52
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.718 (0.465)	101	1988683	51.3170	51.317	80.00- 120.00	100.00
3.746	3.718 (0.465)	103	1282808			34.66- 94.66	64.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.078 (0.506)	45	381040	48.6775	48.677	80.00- 120.00	100.00
4.105	4.078 (0.509)	43	68642			0.00- 48.45	18.01
4.105	4.078 (0.509)	46	155280			13.44- 73.44	40.75
30 Freon 113					CAS #: 76-13-1		
4.548	4.520 (0.564)	151	1445306	57.0156	57.016	80.00- 120.00	100.00
4.548	4.520 (0.564)	153	903439			32.72- 92.72	62.51
4.520	4.520 (0.561)	101	1900560			99.74- 159.74	131.50
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1827920	57.9393	57.939	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1018948			26.18- 86.18	55.74
4.575	4.575 (0.568)	98	667850			6.71- 66.71	36.54
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	628620	53.8365	53.836	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1956074			280.82- 340.82	311.17
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2271255	54.6776	54.678	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	512743			0.00- 51.03	22.58
4.935	4.935 (0.612)	59	77065			0.00- 33.25	3.39
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2701497	52.6657	52.666	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.184 (0.643)	76	423743	52.7708	52.771	80.00- 120.00	100.00
5.183	5.184 (0.643)	41	1836064			398.31- 458.31	433.30
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.432 (0.677)	49	1578104	55.2180	55.218	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	846633			22.80- 82.80	53.65
5.460	5.432 (0.677)	51	476648			0.41- 60.41	30.20
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	456233	32.4918	32.492	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	148822			4.56- 64.56	32.62
5.764	5.764 (0.715)	41	168423			7.35- 67.35	36.92
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1002347	50.3057	50.306	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1634224			130.15- 190.15	163.04
5.819	5.819 (0.722)	98	647476			33.25- 93.25	64.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2115624	54.3813	54.381	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1498787			43.10- 103.10	70.84
6.179	6.179 (0.767)	86	287765			0.00- 43.40	13.60
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1843771	53.3004	53.300	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	546001			0.18- 60.18	29.61
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	394410	57.3526	57.353	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2573973			625.71- 685.71	652.61
7.672	7.672 (0.952)	57	176044			13.65- 73.65	44.63
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1373046	56.2377	56.238	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	912279			34.80- 94.80	66.44
7.617	7.617 (0.945)	98	565083			11.24- 71.24	41.16
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1522665	49.8595	49.859	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	352939			0.00- 52.63	23.18
8.031	8.059 (0.997)	72	392915			0.00- 55.26	25.80
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1574145	51.9390	51.939	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1020610			32.92- 92.92	64.84
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1589637	52.6600	52.660	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1009061			35.49- 95.49	63.48
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1178331	56.3191	56.319	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1947901			133.76- 193.76	165.31
8.418	8.418 (1.045)	41	1152908			68.20- 128.20	97.84
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.649 (0.828)	86	213523	51.9020	51.902	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3230905			1380.92-1440.92	1513.14
6.649	6.649 (0.825)	42	236695			74.35- 134.35	110.85
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1356795	53.8588	53.859	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1397303			75.99- 135.99	102.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	5637389	56.4239	56.424	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1825510			2.94- 62.94	32.38
9.110	9.110 (1.130)	41	1531968			0.00- 58.32	27.18
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2367723	47.2566	47.256	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	567567			0.00- 53.11	23.97
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1292351	50.5563	50.556	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	398991			1.72- 61.72	30.87
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	278980	52.4738	52.474	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2433540			796.32- 856.32	872.30
9.497	9.469 (0.958)	71	825944			255.07- 315.07	296.06
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1002791	50.0636	50.064	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	949673			65.07- 125.07	94.70
10.326	10.326 (1.042)	97	638980			32.61- 92.61	63.72
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	928261	50.3048	50.305	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	665398			40.08- 100.08	71.68
10.852	10.852 (1.095)	41	712180			53.54- 113.54	76.72
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	533793	51.9498	51.950	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	517624			67.29- 127.29	96.97
11.073	11.073 (1.117)	57	164302			1.20- 61.20	30.78
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1488434	51.5575	51.557	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	950209			34.28- 94.28	63.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1045889	55.5723	55.572	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	329649			2.42- 62.42	31.52
12.317	12.317 (1.243)	39	849792			52.17- 112.17	81.25
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	857759	55.1544	55.154	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2535448			271.12- 331.12	295.59
12.594	12.594 (1.271)	85	288163			3.14- 63.14	33.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2528450	54.8490	54.849	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1494629			30.02- 90.02	59.11
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1083614	53.4302	53.430	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	341485			1.40- 61.40	31.51
13.368	13.368 (0.891)	39	814544			47.09- 107.09	75.17
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	828517	49.1724	49.172	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	527032			30.01- 90.01	63.61
13.644	13.644 (0.910)	83	685092			49.69- 109.69	82.69
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	999987	48.8148	48.815	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	816251			53.41- 113.41	81.63
13.700	13.700 (0.913)	131	783766			50.17- 110.17	78.38
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1147465	52.3048	52.305	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2471297			185.06- 245.06	215.37
14.031	14.031 (0.935)	100	168685			0.00- 45.43	14.70
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1289749	52.7928	52.793	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	990811			47.68- 107.68	76.82
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1260133	51.5286	51.528	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1185831			64.06- 124.06	94.10
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1909263	50.1134	50.113	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	599721			2.07- 62.07	31.41
15.027	15.027 (1.002)	77	1191553			33.42- 93.42	62.41
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1008521	49.6849	49.685	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3482791			309.29- 369.29	345.34
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1277959	51.1413	51.141	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2815045			189.13- 249.13	220.28
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1204570	55.3244	55.324	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2793624			201.36- 261.36	231.92
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	1879306	52.7849	52.785	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	1025437			25.71- 85.71	54.56
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1116750	51.0349	51.035	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	582569			21.21- 81.21	52.17
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1724706	49.6796	49.680	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1097926			33.47- 93.47	63.66
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3734753	53.5141	53.514	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1094384			0.00- 59.08	29.30
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3409080	50.6498	50.650	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1598293			16.12- 76.12	46.88
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3035804	54.8365	54.836	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1387750			15.53- 75.53	45.71
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1975105	48.6749	48.675	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1269773			33.90- 93.90	64.29
17.764	17.764 (1.184)	111	835686			10.87- 70.87	42.31
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2333574	50.5140	50.514	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1466807			33.48- 93.48	62.86
17.847	17.847 (1.190)	111	1012983			14.34- 74.34	43.41
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3528591	59.1499	59.150	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	645933			0.00- 48.72	18.31
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2048309	46.4301	46.430	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1325056			32.08- 92.08	64.69
18.206	18.206 (1.214)	111	847700			10.94- 70.94	41.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1469033	46.6149	46.615	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1394509			65.87- 125.87	94.93
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1123020	47.8315	47.832	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	679198			32.02- 92.02	60.48
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4467021	52.8025	52.802	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	982197			0.00- 51.88	21.99
16.824	16.852 (1.122)	105	156938			0.00- 33.52	3.51
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3758258	52.7224	52.722	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1021648			0.00- 55.75	27.18
16.326	16.326 (1.088)	51	581540			0.00- 45.19	15.47
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4593835	45.5446	45.544	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	596743			0.00- 42.58	12.99
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1994519	50.2267	50.227	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1227820			30.45- 90.45	61.56
3.414	3.414 (0.424)	72	108963			0.00- 35.68	5.46
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	336742	53.0155	53.015	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	2677403			767.20- 827.20	795.09
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1403695	53.5817	53.582	80.00- 120.00	100.00
10.575	10.547 (1.067)	98	733033			21.00- 81.00	52.22
10.547	10.547 (1.064)	55	1674728			91.46- 151.46	119.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092813.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	308638	6.84
92 1,4-Difluorobenze	1067015	640209	1493821	1182971	10.87
125 Chlorobenzene-d5	887636	532582	1242690	968431	9.10

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

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

Report Date: 30-Sep-2007 09:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-28sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.238	104.48	70-130
9 Freon 114	50.000	50.051	100.10	70-130
10 Chloromethane	50.000	50.527	101.05	70-130
13 Vinyl Chloride	50.000	53.185	106.37	70-130
12 1,3-Butadiene	50.000	52.337	104.67	60-140
15 Bromomethane	50.000	53.819	107.64	70-130
19 Chloroethane	50.000	46.992	93.98	70-130
20 Trichlorofluoromet	50.000	51.317	102.63	70-130
26 Ethanol	50.000	48.677	97.35	60-140
30 Freon 113	50.000	57.016	114.03	70-130
31 1,1-Dichloroethene	50.000	57.939	115.88	70-130
35 Carbon Disulfide	50.000	52.666	105.33	60-140
32 Acetone	50.000	53.836	107.67	60-140
36 2-Propanol	50.000	54.678	109.36	60-140
38 3-Chloropropene	50.000	52.771	105.54	60-140
43 Methylene Chloride	50.000	55.218	110.44	70-130
46 MTBE	50.000	32.492	64.98	60-140
47 trans-1,2-Dichloro	50.000	50.306	100.61	60-140
51 Hexane	50.000	54.381	108.76	60-140
55 1,1-Dichloroethane	50.000	53.300	106.60	70-130
66 cis-1,2-Dichloroet	50.000	56.238	112.48	70-130
67 2-Butanone	50.000	57.353	114.71	60-140
70 Tetrahydrofuran	50.000	49.859	99.72	60-140
72 Chloroform	50.000	51.939	103.88	70-130
74 Cyclohexane	50.000	56.319	112.64	60-140
75 1,1,1-Trichloroeth	50.000	52.660	105.32	70-130
56 Vinyl Acetate	50.000	51.902	103.80	60-140
77 Carbon Tetrachlori	50.000	53.859	107.72	70-130
80 2,2,4-Trimethylpen	50.000	56.424	112.85	60-140
81 Benzene	50.000	47.256	94.51	70-130
85 1,2-Dichloroethane	50.000	50.556	101.11	70-130
90 Heptane	50.000	52.474	104.95	60-140
93 Trichloroethene	50.000	50.064	100.13	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	50.305	100.61	70-130
99 1,4-Dioxane	50.000	51.950	103.90	60-140
100 Bromodichlorometha	50.000	51.557	103.11	60-140
103 cis-1,3-Dichloropr	50.000	55.572	111.14	70-130
106 4-Methyl-2-pentano	50.000	55.154	110.31	60-140
108 Toluene	50.000	54.849	109.70	70-130
113 trans-1,3-Dichloro	50.000	53.430	106.86	70-130
114 1,1,2-Trichloroeth	50.000	49.172	98.34	70-130
116 Tetrachloroethene	50.000	48.815	97.63	70-130
119 2-Hexanone	50.000	52.305	104.61	60-140
120 Dibromochlorometha	50.000	52.793	105.59	60-140
122 1,2-Dibromoethane	50.000	51.528	103.06	70-130
126 Chlorobenzene	50.000	50.113	100.23	70-130
128 Ethyl Benzene	50.000	49.685	99.37	70-130
130 m,p-Xylene	50.000	51.141	102.28	70-130
132 o-Xylene	50.000	55.324	110.65	70-130
133 Styrene	50.000	52.785	105.57	70-130
134 Bromoform	50.000	51.035	102.07	60-140
136 Cumene	50.000	52.722	105.44	60-140
141 1,1,2,2-Tetrachlor	50.000	49.680	99.36	70-130
142 Propylbenzene	50.000	52.802	105.61	60-140
144 4-Ethyltoluene	50.000	53.514	107.03	60-140
147 1,3,5-Trimethylben	50.000	50.650	101.30	70-130
152 1,2,4-Trimethylben	50.000	54.836	109.67	70-130
155 1,3-Dichlorobenzen	50.000	48.675	97.35	70-130
156 1,4-Dichlorobenzen	50.000	50.514	101.03	70-130
157 alpha-Chlorotoluen	50.000	59.150	118.30	70-130
159 1,2-Dichlorobenzen	50.000	46.430	92.86	70-130
163 1,2,4-Trichloroben	50.000	46.615	93.23	70-130
164 Hexachlorobutadien	50.000	47.832	95.66	70-130
6 Propylene	50.000	53.572	107.14	70-130
165 Naphthalene	50.000	45.544	91.09	60-140
11 Butane	50.000	53.015	106.03	70-130
17 Isopentane	50.000	50.227	100.45	70-130
94 Methyl Cyclohexane	50.000	53.582	107.16	70-130

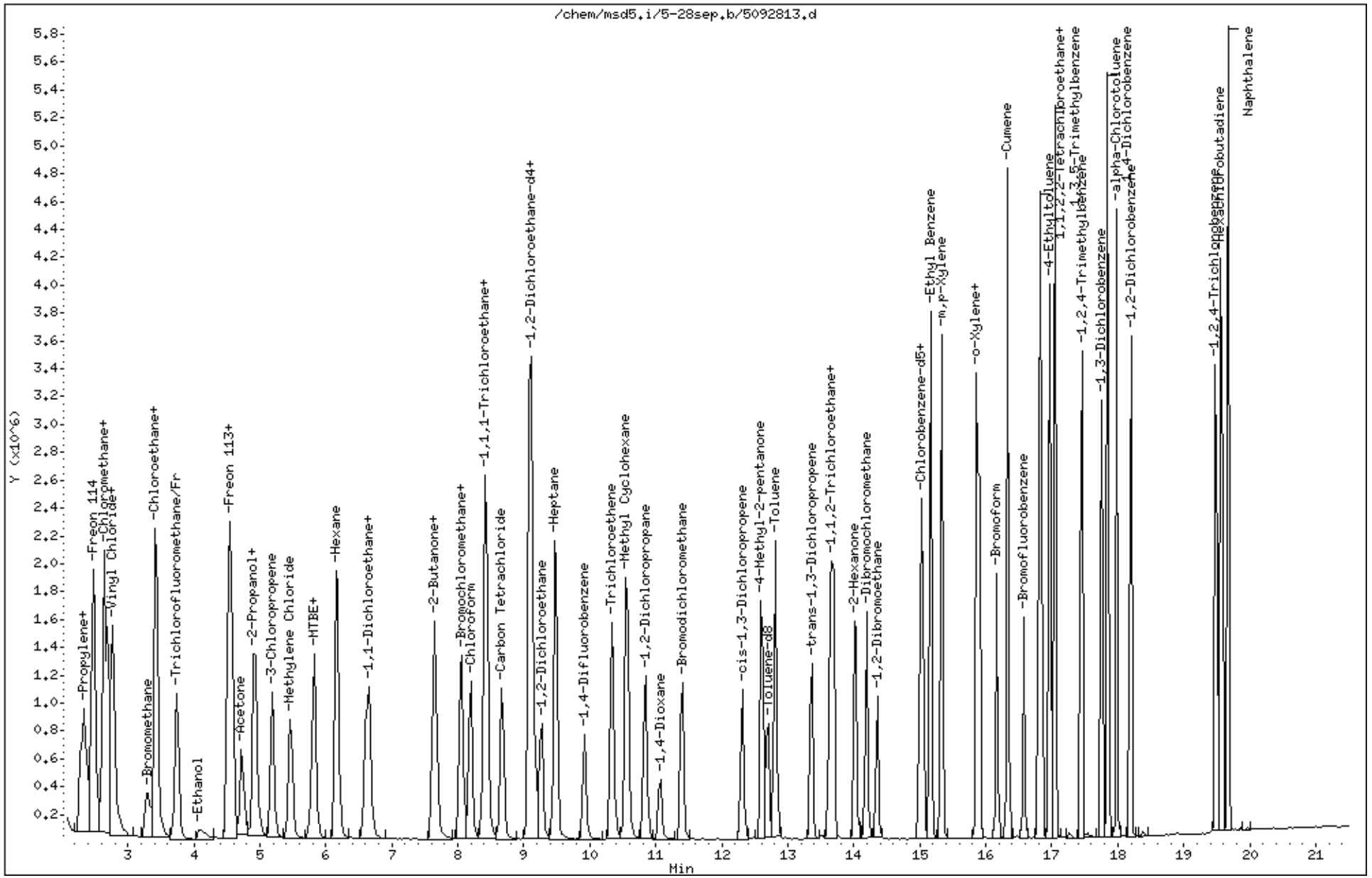
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.208	96.83	70-130
$ 107 Toluene-d8	25.000	25.017	100.07	70-130
$ 138 Bromofluorobenzene	25.000	24.951	99.80	70-130

0082

Data File: /chem/msd5.i/5-28sep.b/5092813.d
Date : 28-SEP-2007 18:05
Client ID: LCS
Sample Info: 100mL #1443-295A

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092805.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 28-SEP-2007 11:16
Operator : lmr Inst ID: msd5.i
Smp Info : 0.3mL #1576-18
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:28 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 11:16 Cal File: 5092805.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	354720	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	279339			49.43- 109.43		78.75
8.059	8.059 (1.000)	49	794578			190.13- 250.13		224.00
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.939	9.939 (1.000)	114	1264899	25.0000		70.00- 130.00		100.00
9.939	9.939 (1.000)	88	205042			0.00- 47.82		16.21
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	993543	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	591494			0.00- 30.00		59.53
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	539231	25.0000	24.069	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	247919			0.00- 30.00		45.98
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.278)	98	1090458	25.0000	24.422	70.00- 130.00		100.00
12.704	12.704 (1.278)	70	111677			0.00- 30.00		10.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	697414			0.00- 30.00	63.96
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	475547	25.0000	23.774	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	761826			127.13- 187.13	160.20
16.575	16.575 (1.105)	176	455929			69.27- 129.27	95.87
72 Chloroform						CAS #: 67-66-3	
8.197	8.197 (1.017)	83	11674	0.30000	0.3351	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	6501			32.92- 92.92	55.69
81 Benzene						CAS #: 71-43-2	
9.110	9.110 (0.917)	78	23846	0.30000	0.4451	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	6096			0.00- 30.00	25.56
133 Styrene						CAS #: 100-42-5	
15.912	15.912 (1.061)	104	11452	0.30000	0.3135	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	7550			25.71- 85.71	65.93
136 Cumene						CAS #: 98-82-8	
16.326	16.326 (1.088)	105	24807	0.30000	0.3392	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	7287			0.00- 30.00	29.37
16.326	16.326 (1.088)	51	3397			0.00- 30.00	13.69

Report Date: 01-Oct-2007 08:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092805.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	354720	22.79
92 1,4-Difluorobenze	1067015	640209	1493821	1264899	18.55
125 Chlorobenzene-d5	887636	532582	1242690	993543	11.93

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

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

Data File: /chem/msd5.i/5-28sep.b/5092805.d

Date : 28-SEP-2007 11:16

Client ID: Level 1

Sample Info: 0.3mL #1576-18

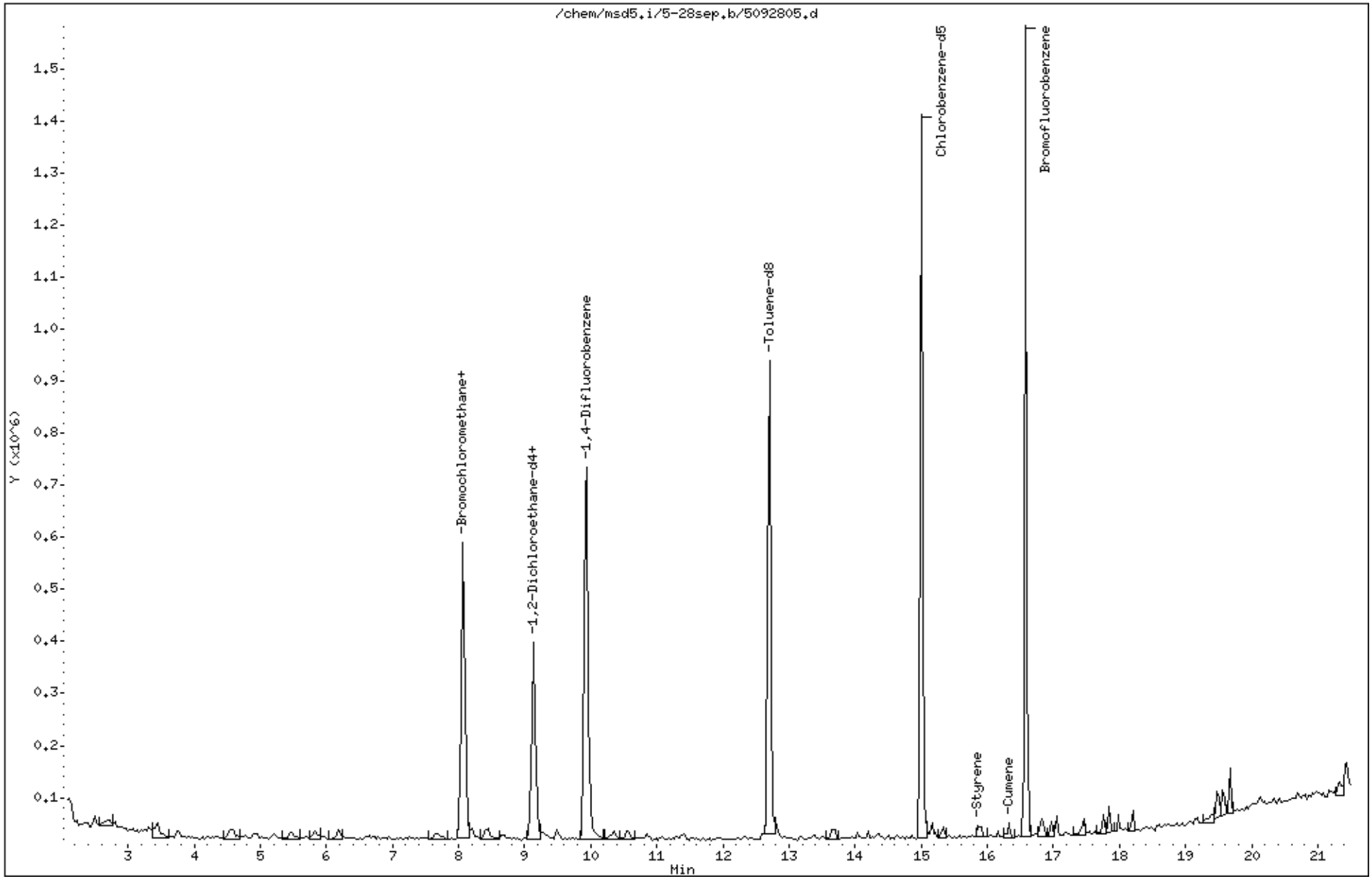
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0086



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092806.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 28-SEP-2007 11:44
Operator : lmr Inst ID: msd5.i
Smp Info : 0.5mL #1576-18
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:28 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 11:44 Cal File: 5092806.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	278524	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	213581			49.43- 109.43	76.68
8.059	8.059 (1.000)	49	633448			190.13- 250.13	227.43
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1023554	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	177262			0.00- 47.82	17.32
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	788920	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	479492			0.00- 30.00	60.78
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	438165	25.0000	24.908	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	198414			0.00- 30.00	45.28
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	866161	25.0000	23.972	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	87573			0.00- 30.00	10.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	536122			0.00- 30.00	61.90
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	394749	25.0000	24.854	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	623871			127.13- 187.13	158.04
16.575	16.575 (1.105)	176	386115			69.27- 129.27	97.81
8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.336	2.336 (0.290)	85	11858	0.50000	0.3905	70.00- 130.00	100.00(a)
2.336	2.336 (0.290)	87	3994			0.00- 30.00	33.68
9 Freon 114						CAS #: 76-14-2	
2.474	2.474 (0.307)	135	14945	0.50000	0.4846	70.00- 130.00	100.00(a)
2.474	2.474 (0.307)	137	3535			2.55- 62.55	23.65
13 Vinyl Chloride						CAS #: 75-01-4	
2.778	2.778 (0.345)	62	9462	0.50000	0.4407	70.00- 130.00	100.00(a)
2.833	2.833 (0.352)	64	4867			0.00- 30.00	51.44
12 1,3-Butadiene						CAS #: 106-99-0	
2.750	2.750 (0.341)	54	8440	0.50000	0.4089	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	12752			0.00- 30.00	151.09
15 Bromomethane						CAS #: 74-83-9	
3.276	3.276 (0.406)	94	5355	0.50000	0.3730	70.00- 130.00	100.00(a)
3.303	3.303 (0.410)	96	5738			66.08- 126.08	107.15
19 Chloroethane						CAS #: 75-00-3	
3.414	3.414 (0.424)	64	5909	0.50000	0.4996	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	49	2652			0.00- 30.00	44.88
3.718	3.718 (0.461)	66	3392			0.00- 30.00	57.40
20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.746	3.746 (0.465)	101	15558	0.50000	0.4449	70.00- 130.00	100.00(a)
3.746	3.746 (0.465)	103	9914			34.66- 94.66	63.72
30 Freon 113						CAS #: 76-13-1	
4.520	4.520 (0.561)	151	10914	0.50000	0.4771	70.00- 130.00	100.00(a)
4.548	4.548 (0.564)	153	7296			32.72- 92.72	66.85
4.520	4.520 (0.561)	101	10951			99.74- 159.74	100.34
31 1,1-Dichloroethene						CAS #: 75-35-4	
4.575	4.575 (0.568)	61	13859	0.50000	0.4868	70.00- 130.00	100.00(a)
4.575	4.575 (0.568)	96	8032			26.18- 86.18	57.96
4.575	4.575 (0.568)	98	4947			6.71- 66.71	35.70

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	19461	0.50000	0.4204	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	11889	0.50000	0.4610	70.00- 130.00	100.00(a)
5.432	5.432 (0.674)	84	7638			22.80- 82.80	64.24
5.432	5.432 (0.674)	51	4635			0.00- 30.00	38.99
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	10416	0.50000	0.8220	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	2480			4.56- 64.56	23.81
5.792	5.792 (0.719)	41	9409			0.00- 30.00	90.33
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	9333	0.50000	0.5190	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	11420			130.15- 190.15	122.36
5.819	5.819 (0.722)	98	4149			0.00- 30.00	44.46
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	14512	0.50000	0.4134	70.00- 130.00	100.00(a)
6.179	6.179 (0.767)	43	12651			0.00- 30.00	87.18
6.179	6.179 (0.767)	86	1237			0.00- 30.00	8.52
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	15674	0.50000	0.5021	70.00- 130.00	100.00
6.621	6.621 (0.822)	65	4641			0.18- 60.18	29.61
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	1766	0.50000	0.2846	70.00- 130.00	100.00(Ta)
7.672	7.672 (0.952)	43	16495			625.71- 685.71	934.03
0.000	1.000 (0.000)	57	0			0.00- 30.00	0.00
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	8173	0.50000	0.3709	70.00- 130.00	100.00(a)
7.617	7.617 (0.945)	96	7460			34.80- 94.80	91.28
7.617	7.617 (0.945)	98	7064			11.24- 71.24	86.43
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	14346	0.50000	0.5205	70.00- 130.00	100.00
8.087	8.087 (1.003)	71	3102			0.00- 52.63	21.62
8.059	8.059 (1.000)	72	4450			0.00- 30.00	31.02
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	11614	0.50000	0.4246	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	7852			32.92- 92.92	67.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	12827	0.50000	0.4709	70.00- 130.00	100.00(a)
8.446	8.446 (1.048)	99	8167			35.49- 95.49	63.67
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	6859	0.50000	0.3633	70.00- 130.00	100.00(a)
8.391	8.391 (1.041)	56	13950			133.76- 193.76	203.38
8.391	8.391 (1.041)	41	10582			68.20- 128.20	154.28
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8742	0.50000	0.3845	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	11442			75.99- 135.99	130.89
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	32888	0.50000	0.3648	70.00- 130.00	100.00(a)
9.110	9.110 (1.130)	56	10848			0.00- 30.00	32.98
9.082	9.082 (1.127)	41	12024			0.00- 30.00	36.56
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	19375	0.50000	0.4469	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4134			0.00- 30.00	21.34
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	11113	0.50000	0.5024	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	3981			0.00- 30.00	35.82
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1967	0.50000	0.4276	70.00- 130.00	100.00(a)
9.469	9.469 (0.955)	43	16017			0.00- 30.00	814.29
9.469	9.469 (0.955)	71	6068			0.00- 30.00	308.49
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	8685	0.50000	0.5011	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	7437			65.07- 125.07	85.63
10.326	10.326 (1.042)	97	5381			32.61- 92.61	61.96
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	8636	0.50000	0.5409	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	4213			40.08- 100.08	48.78
10.852	10.852 (1.095)	41	8117			53.54- 113.54	93.99
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	12316	0.50000	0.4930	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	6974			34.28- 94.28	56.63
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6090	0.50000	0.3740	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.289	12.289 (1.240)	77	2596			2.42- 62.42	42.63
12.317	12.317 (1.243)	39	7503			52.17- 112.17	123.20
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5005	0.50000	0.3719	70.00- 130.00	100.00(a)
12.594	12.594 (1.271)	43	14186			0.00- 30.00	283.44
12.649	12.649 (1.276)	85	1959			0.00- 30.00	39.14
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	16791	0.50000	0.4210	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	11593			30.02- 90.02	69.04
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	7380	0.50000	0.4467	70.00- 130.00	100.00(a)
13.368	13.368 (0.891)	77	2375			1.40- 61.40	32.18
13.368	13.368 (0.891)	39	6206			47.09- 107.09	84.09
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	7347	0.50000	0.5353	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	4321			30.01- 90.01	58.81
13.644	13.644 (0.910)	83	5317			49.69- 109.69	72.37
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	8658	0.50000	0.5188	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	6872			53.41- 113.41	79.37
13.672	13.672 (0.912)	131	6533			50.17- 110.17	75.46
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7865	0.50000	0.3952	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	6692			0.00- 30.00	85.09
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	8630	0.50000	0.4332	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	7107			64.06- 124.06	82.35
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	15513	0.50000	0.4998	70.00- 130.00	100.00(a)
15.027	15.027 (1.002)	114	6946			2.07- 62.07	44.78
15.027	15.027 (1.002)	77	13972			33.42- 93.42	90.07
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	8012	0.50000	0.4845	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	23969			0.00- 30.00	299.16
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	9100	0.50000	0.4470	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	18870			0.00- 30.00	207.36
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5740	0.50000	0.3236	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	15276			201.36- 261.36	266.13
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	11004	0.50000	0.3794	70.00- 130.00	100.00(a)
15.911	15.911 (1.061)	78	4398			25.71- 85.71	39.97
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	8036	0.50000	0.4508	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	3228			21.21- 81.21	40.17
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	13928	0.50000	0.4925	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	8834			33.47- 93.47	63.43
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	20312	0.50000	0.3573	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	7716			0.00- 59.08	37.99
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	24670	0.50000	0.4499	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	8955			0.00- 30.00	36.30
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	14342	0.50000	0.3180	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	8421			15.53- 75.53	58.72
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	13985	0.50000	0.4231	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	9477			0.00- 30.00	67.77
17.764	17.764 (1.184)	111	7180			0.00- 30.00	51.34
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	17182	0.50000	0.4566	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	11191			0.00- 30.00	65.13
17.847	17.847 (1.190)	111	7910			0.00- 30.00	46.04
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	16014	0.50000	0.3295	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	3040			0.00- 30.00	18.98
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	17895	0.50000	0.4979	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	9501			32.08- 92.08	53.09
18.206	18.206 (1.214)	111	9353			10.94- 70.94	52.27
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	28967	0.50000	0.4203	70.00- 130.00	100.00(a)
16.852	16.852 (1.123)	120	6967			0.00- 30.00	24.05
16.824	16.824 (1.122)	105	1881			0.00- 30.00	6.49
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	23791	0.50000	0.4097	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	4734			0.00- 30.00	19.90
16.326	16.326 (1.088)	51	4502			0.00- 30.00	18.92
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	9341	0.50000	0.4121	70.00- 130.00	100.00(a)
10.547	10.547 (1.064)	98	4801			0.00- 30.00	51.40
10.547	10.547 (1.064)	55	13008			0.00- 30.00	139.26

QC Flag Legend

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

Report Date: 01-Oct-2007 08:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092806.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	278524	-3.59
92 1,4-Difluorobenze	1067015	640209	1493821	1023554	-4.07
125 Chlorobenzene-d5	887636	532582	1242690	788920	-11.12

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

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

Data File: /chem/msd5.i/5-28sep.b/5092806.d

Date : 28-SEP-2007 11:44

Client ID: Level 2

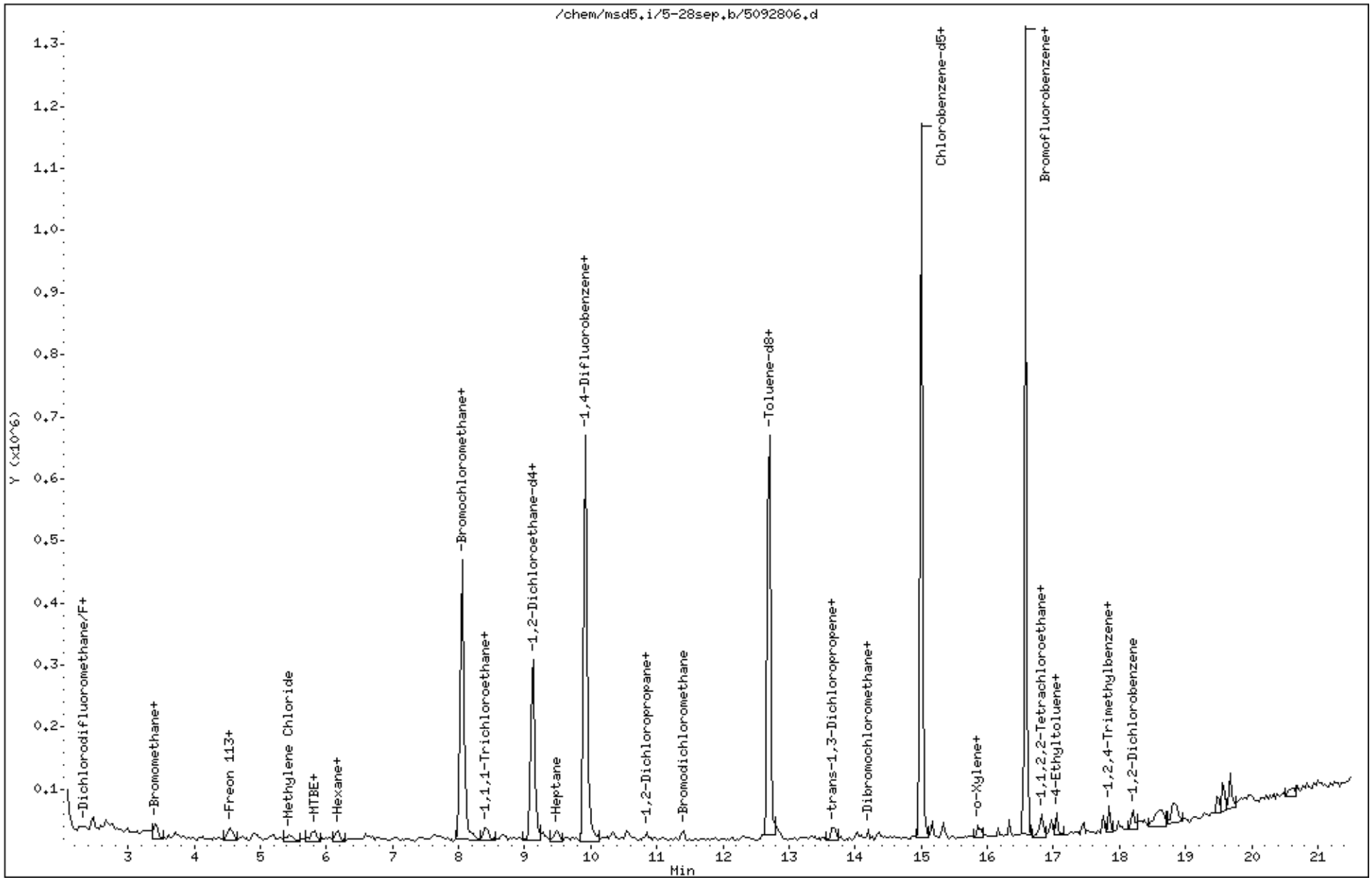
Sample Info: 0.5mL #1576-18

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-05oct.b/5100504.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 05-OCT-2007 10:19
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0ml #1443-354
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-05oct.b/t14q928b.m
Meth Date : 05-Oct-2007 12:18 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 10:19 Cal File: 5100504.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp18b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane						CAS #: 74-97-5		
8.059	8.059 (1.000)	130	293817	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	240180			45.95- 105.95		81.74
8.059	8.059 (1.000)	49	694262			191.62- 251.62		236.29
* 92 1,4-Difluorobenzene						CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1117675	25.0000		70.00- 130.00		100.00
9.911	9.911 (1.000)	88	192815			0.00- 47.74		17.25
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	897261	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	541447			0.00- 30.00		60.34
7 Isobutane						CAS #: 75-28-5		
2.529	2.529 (0.314)	43	103717	2.00000	2.000	70.00- 130.00		100.00
2.529	2.529 (0.314)	42	42339			0.00- 30.00		40.82
2.529	2.529 (0.314)	58	4301			0.00- 30.00		4.15
18 Pentane						CAS #: 109-66-0		
3.801	3.801 (0.472)	43	93999	2.00000	2.000	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.472)	57	13112			0.00- 30.00	13.95
3.801	3.801 (0.472)	72	7641			0.00- 30.00	8.13
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	11758	2.00000	2.000	70.00- 130.00	100.00
4.492	4.492 (0.557)	56	13074			0.00- 30.00	111.19
39 Acrylonitrile					CAS #: 107-13-1		
5.985	5.985 (0.743)	53	33782	2.00000	2.000	70.00- 130.00	100.00
5.958	5.958 (0.739)	52	29110			0.00- 30.00	86.17
42 1-Pentene					CAS #: 109-67-1		
5.405	5.405 (0.671)	55	40784	2.00000	2.000	70.00- 130.00	100.00(T)
5.405	5.405 (0.671)	42	109819			0.00- 30.00	269.27
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.750)	55	25520	2.00000	2.000	70.00- 130.00	100.00
6.041	6.041 (0.750)	41	42291			0.00- 30.00	165.72
6.068	6.068 (0.753)	84	12142			0.00- 30.00	47.58
61 Ethyl Acetate					CAS #: 141-78-6		
7.755	7.755 (0.962)	70	6674	2.00000	2.000	70.00- 130.00	100.00
7.727	7.727 (0.959)	43	78333			0.00- 30.00	1173.70
7.727	7.727 (0.959)	61	8650			0.00- 30.00	129.61
62 Methyl Acrylate					CAS #: 96-33-3		
7.810	7.810 (0.969)	55	57191	2.00000	2.000	70.00- 130.00	100.00
7.838	7.838 (0.973)	85	7438			0.00- 30.00	13.01
7.838	7.838 (0.973)	58	5940			0.00- 30.00	10.39
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	21827	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.117)	93	23675			0.00- 30.00	108.47
11.073	11.073 (1.117)	95	20928			0.00- 30.00	95.88
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	43278	2.00000	2.000	70.00- 130.00	100.00
11.073	11.073 (1.117)	69	18242			0.00- 30.00	42.15
11.100	11.100 (1.120)	100	7057			0.00- 30.00	16.31
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	7747	2.00000		70.00- 130.00	100.00(a)
16.879	16.879 (1.125)	53	18942			0.00- 30.00	244.51
16.879	16.879 (1.125)	124	2656			0.00- 30.00	34.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.736	17.736 (1.182)	93	53529	2.00000	2.000	70.00- 130.00	100.00
17.736	17.736 (1.182)	95	17993			0.00- 30.00	33.61
17.709	17.709 (1.181)	63	45595			0.00- 30.00	85.18
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	72869	2.00000	2.000	70.00- 130.00	100.00
15.331	15.331 (1.022)	57	55755			0.00- 30.00	76.51
15.331	15.331 (1.022)	85	18270			0.00- 30.00	25.07
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.192	15.192 (1.013)	131	27021	2.00000	2.000	70.00- 130.00	100.00
15.192	15.192 (1.013)	117	16526			0.00- 30.00	61.16
15.192	15.192 (1.013)	95	13091			0.00- 30.00	48.45

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100504.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-05oct.b/t14q928b.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 05-OCT-2007
Calibration Time: 10:46
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300745	180447	421043	293817	-2.30
92 1,4-Difluorobenze	1105903	663542	1548264	1117675	1.06
125 Chlorobenzene-d5	910245	546147	1274343	897261	-1.43

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

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

Data File: /chem/msd5.i/5-05oct.b/5100504.d

Date : 05-OCT-2007 10:19

Client ID: Level 3

Sample Info: 2.0ml #1443-354

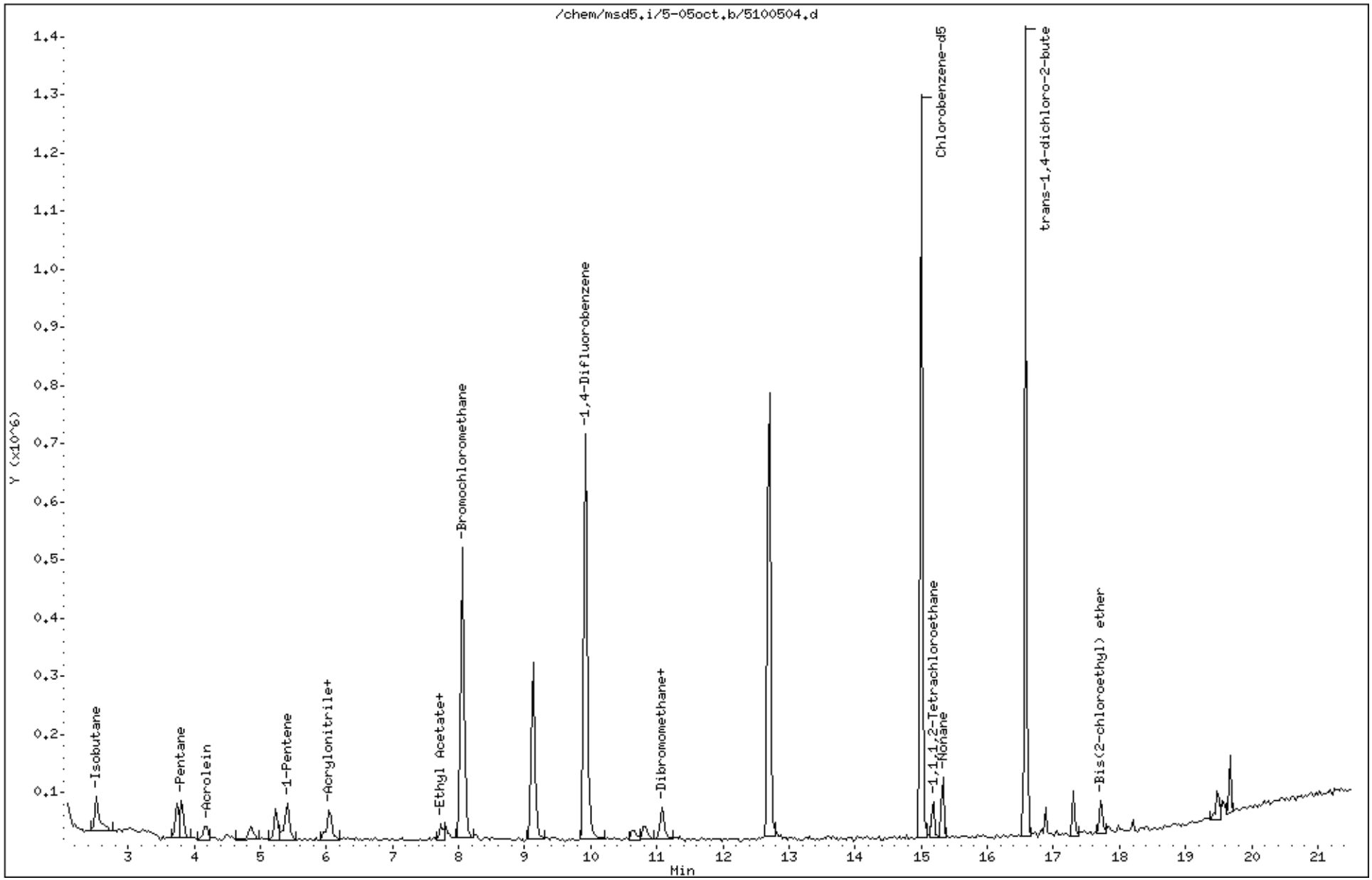
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0100



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092807.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 28-SEP-2007 12:12
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0mL #1576-18
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 12:12 Cal File: 5092807.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	272047	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	211018			49.43- 109.43	77.57
8.059	8.059 (1.000)	49	623962			190.13- 250.13	229.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1002411	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	169801			0.00- 47.82	16.94
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	822847	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	493869			0.00- 30.00	60.02
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	422438	25.0000	24.586	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	205997			0.00- 30.00	48.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	850293	25.0000	24.030	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	88442			0.00- 30.00	10.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	550431			0.00- 30.00	64.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	400237	25.0000	24.160	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	651709			127.13- 187.13	162.83
16.575	16.575 (1.105)	176	383700			69.27- 129.27	95.87
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	31494	2.00000	1.651	70.00- 130.00	100.00(a)
2.308	2.308 (0.286)	42	22675			0.00- 30.00	72.00
2.280	2.280 (0.283)	39	24606			0.00- 30.00	78.13
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	47518	2.00000	1.602	70.00- 130.00	100.00
2.363	2.363 (0.293)	87	15679			0.00- 30.00	33.00
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	53486	2.00000	1.776	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	16130			2.55- 62.55	30.16
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	45859	2.00000	1.778	70.00- 130.00	100.00(a)
2.640	2.640 (0.328)	52	15326			0.00- 30.00	33.42
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	33321	2.00000	1.589	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	14590			0.00- 30.00	43.79
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	33574	2.00000	1.665	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	38190			0.00- 30.00	113.75
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	21703	2.00000	1.548	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	23994			66.08- 126.08	110.56
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	22059	2.00000	1.909	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	7843			0.00- 30.00	35.55
3.386	3.386 (0.420)	66	7040			0.00- 30.00	31.91
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	54226	2.00000	1.587	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	35534			34.66- 94.66	65.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	11436	2.00000	1.657	70.00- 130.00	100.00(a)
4.078	4.078 (0.506)	43	3515			0.00- 30.00	30.74
4.105	4.105 (0.509)	46	5704			0.00- 30.00	49.88
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	36990	2.00000	1.655	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	25641			32.72- 92.72	69.32
4.520	4.520 (0.561)	101	51100			99.74- 159.74	138.15
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	42921	2.00000	1.543	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	26598			26.18- 86.18	61.97
4.575	4.575 (0.568)	98	16571			6.71- 66.71	38.61
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	17008	2.00000	1.652	70.00- 130.00	100.00(a)
4.741	4.741 (0.588)	43	55445			0.00- 30.00	325.99
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	51621	2.00000	1.410	70.00- 130.00	100.00(a)
4.935	4.935 (0.612)	43	14778			0.00- 30.00	28.63
4.935	4.935 (0.612)	59	2161			0.00- 30.00	4.19
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	77826	2.00000	1.721	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	9096	2.00000	1.285	70.00- 130.00	100.00(a)
5.184	5.184 (0.643)	41	50675			0.00- 30.00	557.11
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	46593	2.00000	1.850	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	23534			22.80- 82.80	50.51
5.460	5.460 (0.678)	51	14564			0.00- 30.00	31.26
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	29562	2.00000	2.388	70.00- 130.00	100.00
5.792	5.792 (0.719)	57	9831			4.56- 64.56	33.26
5.764	5.764 (0.715)	41	15442			0.00- 30.00	52.24
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	28373	2.00000	1.616	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	48624			130.15- 190.15	171.37
5.820	5.820 (0.722)	98	18715			0.00- 30.00	65.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	57583	2.00000	1.679	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	45040			0.00- 30.00	78.22
6.179	6.179 (0.767)	86	7090			0.00- 30.00	12.31
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	50073	2.00000	1.642	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	14393			0.18- 60.18	28.74
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	9902	2.00000	1.634	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	55478			625.71- 685.71	560.27
7.672	7.672 (0.952)	57	4353			0.00- 30.00	43.96
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	35305	2.00000	1.640	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	27760			34.80- 94.80	78.63
7.617	7.617 (0.945)	98	16332			11.24- 71.24	46.26
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	47778	2.00000	1.775	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	11827			0.00- 52.63	24.75
8.059	8.059 (1.000)	72	13953			0.00- 30.00	29.20
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	49333	2.00000	1.847	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	27437			32.92- 92.92	55.62
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	42895	2.00000	1.612	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	28561			35.49- 95.49	66.58
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	31287	2.00000	1.696	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	50781			133.76- 193.76	162.31
8.419	8.419 (1.045)	41	36076			68.20- 128.20	115.31
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	4388	2.00000	1.210	70.00- 130.00	100.00(a)
6.677	6.677 (0.828)	43	50690			0.00- 30.00	1155.20
6.677	6.677 (0.828)	42	5438			0.00- 30.00	123.93
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	37617	2.00000	1.694	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	36310			75.99- 135.99	96.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	136513	2.00000	1.550	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	49368			0.00- 30.00	36.16
9.110	9.110 (1.130)	41	42684			0.00- 30.00	31.27
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	61319	2.00000	1.444	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	15876			0.00- 30.00	25.89
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	35713	2.00000	1.649	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	11579			0.00- 30.00	32.42
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	5984	2.00000	1.328	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	52761			0.00- 30.00	881.70
9.469	9.469 (0.955)	71	20002			0.00- 30.00	334.26
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	29510	2.00000	1.739	70.00- 130.00	100.00
10.354	10.354 (1.045)	130	29339			65.07- 125.07	99.42
10.326	10.326 (1.042)	97	15591			32.61- 92.61	52.83
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	25644	2.00000	1.640	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	17416			40.08- 100.08	67.91
10.852	10.852 (1.095)	41	20932			53.54- 113.54	81.63
99 1,4-Dioxane					CAS #: 123-91-1		
11.101	11.101 (1.120)	88	13849	2.00000	1.590	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	11171			67.29- 127.29	80.66
11.073	11.073 (1.117)	57	4404			0.00- 30.00	31.80
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	37631	2.00000	1.538	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	24057			34.28- 94.28	63.93
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	22575	2.00000	1.416	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	6910			2.42- 62.42	30.61
12.317	12.317 (1.243)	39	24666			52.17- 112.17	109.26
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	18811	2.00000	1.427	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	75681			0.00- 30.00	402.32
12.594	12.594 (1.271)	85	7054			0.00- 30.00	37.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	64171	2.00000	1.643	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	39895			30.02- 90.02	62.17
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	21032	2.00000	1.220	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	6350			1.40- 61.40	30.19
13.368	13.368 (0.891)	39	15597			47.09- 107.09	74.16
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	23123	2.00000	1.615	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	15339			30.01- 90.01	66.34
13.644	13.644 (0.910)	83	20195			49.69- 109.69	87.34
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	31147	2.00000	1.789	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	24881			53.41- 113.41	79.88
13.672	13.672 (0.912)	131	21447			50.17- 110.17	68.86
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	24594	2.00000	1.319	70.00- 130.00	100.00(a)
14.031	14.031 (0.935)	43	51296			185.06- 245.06	208.57
14.031	14.031 (0.935)	100	3579			0.00- 30.00	14.55
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	33090	2.00000	1.594	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	26562			0.00- 30.00	80.27
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	32902	2.00000	1.583	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	29908			64.06- 124.06	90.90
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	55591	2.00000	1.717	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	16531			2.07- 62.07	29.74
15.027	15.027 (1.002)	77	37519			33.42- 93.42	67.49
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	27350	2.00000	1.586	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	92521			0.00- 30.00	338.29
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	31328	2.00000	1.475	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	68657			0.00- 30.00	219.16
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	28151	2.00000	1.522	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	68355			201.36- 261.36	242.82
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	40290	2.00000	1.332	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	23539			25.71- 85.71	58.42
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	26616	2.00000	1.432	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	12984			21.21- 81.21	48.78
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	51984	2.00000	1.762	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	31111			33.47- 93.47	59.85
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	91719	2.00000	1.547	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	29458			0.00- 59.08	32.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	87236	2.00000	1.525	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	41183			0.00- 30.00	47.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	70666	2.00000	1.502	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	32461			15.53- 75.53	45.94
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	61993	2.00000	1.798	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	41048			0.00- 30.00	66.21
17.764	17.764 (1.184)	111	26437			0.00- 30.00	42.65
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	64639	2.00000	1.647	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	38138			0.00- 30.00	59.00
17.847	17.847 (1.190)	111	28770			0.00- 30.00	44.51
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	55631	2.00000	1.098	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	11543			0.00- 30.00	20.75
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	70424	2.00000	1.879	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	41835			32.08- 92.08	59.40
18.206	18.206 (1.214)	111	27773			10.94- 70.94	39.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	54314	2.00000	2.028	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	55795			65.87- 125.87	102.73
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	39870	2.00000	1.998	70.00- 130.00	100.00(a)
19.589	19.589 (1.306)	223	24359			32.02- 92.02	61.10
142 Propylbenzene					CAS #: 103-65-1		
16.852	16.852 (1.123)	91	115419	2.00000	1.606	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	25885			0.00- 30.00	22.43
16.824	16.824 (1.122)	105	4553			0.00- 30.00	3.94
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	80607	2.00000	1.331	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	24234			0.00- 30.00	30.06
16.326	16.326 (1.088)	51	17646			0.00- 30.00	21.89
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	176184	2.00000	2.056	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	21140			0.00- 30.00	12.00
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	57628	2.00000	1.646	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	33277			0.00- 30.00	57.74
3.414	3.414 (0.424)	72	3651			0.00- 30.00	6.34
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	8815	2.00000	1.574	70.00- 130.00	100.00(a)
2.695	2.695 (0.334)	43	81065			0.00- 30.00	919.63
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	34014	2.00000	1.532	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	16835			0.00- 30.00	49.49
10.548	10.548 (1.064)	55	40486			0.00- 30.00	119.03

QC Flag Legend

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

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092807.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	272047	-5.83
92 1,4-Difluorobenze	1067015	640209	1493821	1002411	-6.05
125 Chlorobenzene-d5	887636	532582	1242690	822847	-7.30

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

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

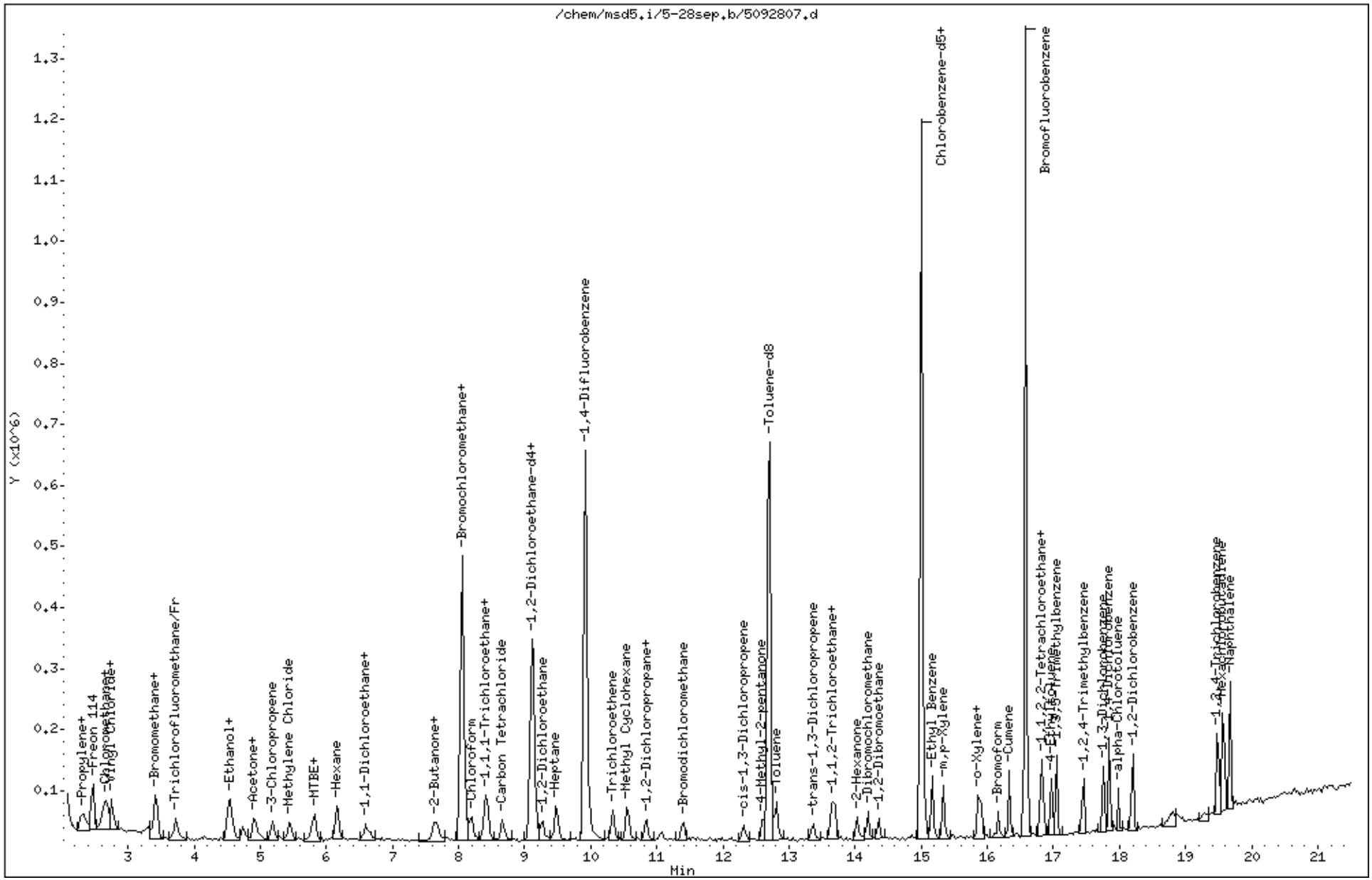
0110

Data File: /chem/msd5.i/5-28sep.b/5092807.d
Date : 28-SEP-2007 12:12
Client ID: Level 3
Sample Info: 2.0mL #1576-18

Instrument: msd5.i

Operator: lmr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092808.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 28-SEP-2007 12:40
Operator : lmr Inst ID: msd5.i
Smp Info : 25ml #1576-18
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 12:40 Cal File: 5092808.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				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 71 Bromochloromethane					CAS #: 74-97-5			
8.059	8.059 (1.000)	130	286270	25.0000		70.00- 130.00		100.00
8.059	8.059 (1.000)	128	225017			49.43- 109.43		78.60
8.059	8.059 (1.000)	49	623024			190.13- 250.13		217.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3			
9.912	9.912 (1.000)	114	1031508	25.0000		70.00- 130.00		100.00
9.912	9.912 (1.000)	88	177460			0.00- 47.82		17.20
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.999	14.999 (1.000)	117	855863	25.0000		70.00- 130.00		100.00
14.999	14.999 (1.000)	82	490661			0.00- 30.00		57.33
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.137	9.137 (1.134)	65	428763	25.0000	23.714	70.00- 130.00		100.00
9.137	9.137 (1.134)	67	216749			0.00- 30.00		50.55
$ 107 Toluene-d8					CAS #: 2037-26-5			
12.704	12.704 (1.282)	98	914897	25.0000	25.126	70.00- 130.00		100.00
12.677	12.677 (1.279)	70	97597			0.00- 30.00		10.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	586332			0.00- 30.00	64.09
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	440423	25.0000	25.560	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	678580			127.13- 187.13	154.07
16.575	16.575 (1.105)	176	422986			69.27- 129.27	96.04
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	568994	25.0000	28.352	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	383486			0.00- 30.00	67.40
2.280	2.280 (0.283)	39	365319			0.00- 30.00	64.20
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	965957	25.0000	30.952	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	302036			0.00- 30.00	31.27
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	900685	25.0000	28.417	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	287104			2.55- 62.55	31.88
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	770401	25.0000	28.386	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	210921			0.00- 30.00	27.38
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	631699	25.0000	28.625	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	193588			0.00- 30.00	30.65
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	607150	25.0000	28.617	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	699079			0.00- 30.00	115.14
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	427771	25.0000	28.988	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	420238			66.08- 126.08	98.24
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	329704	25.0000	27.120	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	100994			0.00- 30.00	30.63
3.414	3.414 (0.424)	66	98370			0.00- 30.00	29.84
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1033866	25.0000	28.763	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	654244			34.66- 94.66	63.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	203221	25.0000	27.990	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	39899			0.00- 30.00	19.63
4.078	4.078 (0.506)	46	89233			0.00- 30.00	43.91
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	663621	25.0000	28.224	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	422840			32.72- 92.72	63.72
4.520	4.520 (0.561)	101	864315			99.74- 159.74	130.24
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	808589	25.0000	27.632	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	468287			26.18- 86.18	57.91
4.575	4.575 (0.568)	98	295383			6.71- 66.71	36.53
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	285963	25.0000	26.404	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	926913			0.00- 30.00	324.14
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1017350	25.0000	26.405	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	229534			0.00- 30.00	22.56
4.935	4.935 (0.612)	59	35227			0.00- 30.00	3.46
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1346820	25.0000	28.308	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	215892	25.0000	28.987	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	899416			0.00- 30.00	416.60
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	726118	25.0000	27.392	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	377828			22.80- 82.80	52.03
5.432	5.432 (0.674)	51	216827			0.00- 30.00	29.86
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	324211	25.0000	24.894	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	100556			4.56- 64.56	31.02
5.764	5.764 (0.715)	41	127512			0.00- 30.00	39.33
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	510373	25.0000	27.616	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	816907			130.15- 190.15	160.06
5.819	5.819 (0.722)	98	303525			0.00- 30.00	59.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	999366	25.0000	27.696	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	730029			0.00- 30.00	73.05
6.151	6.151 (0.763)	86	140830			0.00- 30.00	14.09
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	859634	25.0000	26.792	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	270753			0.18- 60.18	31.50
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	177073	25.0000	27.761	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1183815			625.71- 685.71	668.55
7.672	7.672 (0.952)	57	76771			0.00- 30.00	43.36
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	647756	25.0000	28.604	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	430269			34.80- 94.80	66.42
7.617	7.617 (0.945)	98	268821			11.24- 71.24	41.50
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	728821	25.0000	25.730	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	159654			0.00- 52.63	21.91
8.059	8.059 (1.000)	72	185484			0.00- 30.00	25.45
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	743286	25.0000	26.441	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	488225			32.92- 92.92	65.68
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	771585	25.0000	27.558	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	486966			35.49- 95.49	63.11
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	548578	25.0000	28.268	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	904928			133.76- 193.76	164.96
8.418	8.418 (1.045)	41	563995			68.20- 128.20	102.81
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	97809	25.0000	25.632	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1375695			0.00- 30.00	1406.51
6.649	6.649 (0.825)	42	107091			0.00- 30.00	109.49
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	656227	25.0000	28.085	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	685825			75.99- 135.99	104.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	2598494	25.0000	28.040	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	839882			0.00- 30.00	32.32
9.110	9.110 (1.130)	41	745625			0.00- 30.00	28.69
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1130607	25.0000	25.879	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	267832			0.00- 30.00	23.69
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	621760	25.0000	27.894	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	194015			0.00- 30.00	31.20
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	134367	25.0000	28.984	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1106655			0.00- 30.00	823.61
9.469	9.469 (0.955)	71	389765			0.00- 30.00	290.07
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	474593	25.0000	27.173	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	454546			65.07- 125.07	95.78
10.326	10.326 (1.042)	97	312195			32.61- 92.61	65.78
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	433949	25.0000	26.970	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	296488			40.08- 100.08	68.32
10.852	10.852 (1.095)	41	375966			53.54- 113.54	86.64
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	233072	25.0000	26.014	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	237968			67.29- 127.29	102.10
11.073	11.073 (1.117)	57	82951			0.00- 30.00	35.59
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	697974	25.0000	27.727	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	452550			34.28- 94.28	64.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	469533	25.0000	28.611	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	147016			2.42- 62.42	31.31
12.317	12.317 (1.243)	39	393841			52.17- 112.17	83.88
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	391731	25.0000	28.887	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1158896			0.00- 30.00	295.84
12.621	12.621 (1.273)	85	123781			0.00- 30.00	31.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1148378	25.0000	28.569	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	685682			30.02- 90.02	59.71
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	491054	25.0000	27.397	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	158052			1.40- 61.40	32.19
13.368	13.368 (0.891)	39	364785			47.09- 107.09	74.29
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	407163	25.0000	27.343	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	249828			30.01- 90.01	61.36
13.644	13.644 (0.910)	83	313725			49.69- 109.69	77.05
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	502789	25.0000	27.772	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	409741			53.41- 113.41	81.49
13.700	13.700 (0.913)	131	385058			50.17- 110.17	76.58
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	498431	25.0000	25.708	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	1081183			185.06- 245.06	216.92
14.031	14.031 (0.935)	100	76041			0.00- 30.00	15.26
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	608507	25.0000	28.184	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	495160			0.00- 30.00	81.37
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	606143	25.0000	28.046	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	590881			64.06- 124.06	97.48
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	916590	25.0000	27.222	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	299557			2.07- 62.07	32.68
15.027	15.027 (1.002)	77	573469			33.42- 93.42	62.57
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	487673	25.0000	27.185	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	1657978			0.00- 30.00	339.98
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	616227	25.0000	27.904	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1329721			0.00- 30.00	215.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	565821	25.0000	29.405	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1315689			201.36- 261.36	232.53
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	892961	25.0000	28.380	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	500424			25.71- 85.71	56.04
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	545200	25.0000	28.192	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	274250			21.21- 81.21	50.30
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	825009	25.0000	26.890	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	536047			33.47- 93.47	64.97
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	1774750	25.0000	28.774	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	520312			0.00- 59.08	29.32
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	1682410	25.0000	28.284	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	768232			0.00- 30.00	45.66
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1416323	25.0000	28.948	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	657760			15.53- 75.53	46.44
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	995545	25.0000	27.761	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	620349			0.00- 30.00	62.31
17.764	17.764 (1.184)	111	396578			0.00- 30.00	39.84
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1141766	25.0000	27.966	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	721937			0.00- 30.00	63.23
17.847	17.847 (1.190)	111	506907			0.00- 30.00	44.40
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1408427	25.0000	26.715	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	268082			0.00- 30.00	19.03
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1047258	25.0000	26.861	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	662899			32.08- 92.08	63.30
18.206	18.206 (1.214)	111	414389			10.94- 70.94	39.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	698419	25.0000	25.077	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	650933			65.87- 125.87	93.20
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	544749	25.0000	26.254	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	338260			32.02- 92.02	62.09
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2080566	25.0000	27.828	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	445687			0.00- 30.00	21.42
16.824	16.824 (1.122)	105	76071			0.00- 30.00	3.66
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	1758057	25.0000	27.906	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	469034			0.00- 30.00	26.68
16.326	16.326 (1.088)	51	287564			0.00- 30.00	16.36
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2257805	25.0000	25.329	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	278527			0.00- 30.00	12.34
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	995628	25.0000	27.031	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	626033			0.00- 30.00	62.88
3.414	3.414 (0.424)	72	54353			0.00- 30.00	5.46
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	168765	25.0000	28.646	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1313767			0.00- 30.00	778.46
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	651798	25.0000	28.534	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	310768			0.00- 30.00	47.68
10.548	10.548 (1.064)	55	789172			0.00- 30.00	121.08

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092808.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	286270	-0.91
92 1,4-Difluorobenze	1067015	640209	1493821	1031508	-3.33
125 Chlorobenzene-d5	887636	532582	1242690	855863	-3.58

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

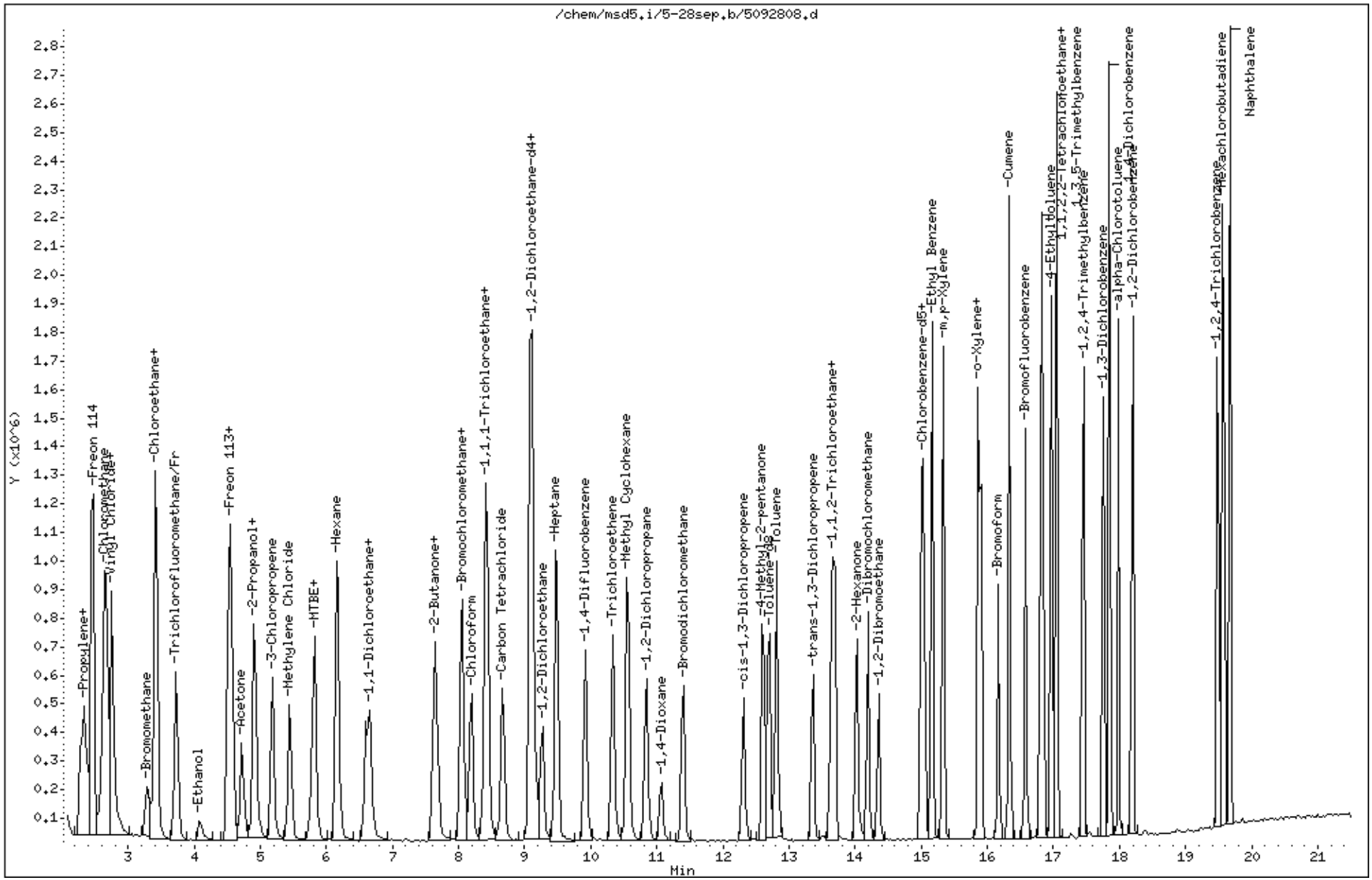
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0120

Data File: /chem/msd5.i/5-28sep.b/5092808.d
Date : 28-SEP-2007 12:40
Client ID: Level 4
Sample Info: 25ml #1576-18

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-05oct.b/5100505.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 05-OCT-2007 10:46
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1443-354
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-05oct.b/t14q928b.m
Meth Date : 05-Oct-2007 12:18 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 10:46 Cal File: 5100505.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp18b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	300745	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	228412			45.95- 105.95	75.95
8.059	8.059 (1.000)	49	666509			191.62- 251.62	221.62
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1105903	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	196219			0.00- 47.74	17.74
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	910245	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	534841			0.00- 30.00	58.76
7 Isobutane					CAS #: 75-28-5		
2.474	2.474 (0.307)	43	2902775	50.0000	52.238	70.00- 130.00	100.00
2.474	2.474 (0.307)	42	972319			0.00- 30.00	33.50
2.474	2.474 (0.307)	58	84400			0.00- 30.00	2.91
18 Pentane					CAS #: 109-66-0		
3.801	3.801 (0.472)	43	3084134	50.0000	56.182	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.801	3.801 (0.472)	57	427345			0.00- 30.00	13.86
3.801	3.801 (0.472)	72	235355			0.00- 30.00	7.63
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	375868	50.0000	55.540	70.00- 130.00	100.00
4.492	4.492 (0.557)	56	538216			0.00- 30.00	143.19
39 Acrylonitrile					CAS #: 107-13-1		
5.958	5.958 (0.739)	53	1218482	50.0000	58.498	70.00- 130.00	100.00
5.930	5.930 (0.736)	52	914790			0.00- 30.00	75.08
42 1-Pentene					CAS #: 109-67-1		
5.405	5.405 (0.671)	55	1240417	50.0000	54.308	70.00- 130.00	100.00(T)
5.405	5.405 (0.671)	42	3227461			0.00- 30.00	260.19
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.750)	55	912401	50.0000	58.284	70.00- 130.00	100.00
6.041	6.041 (0.750)	41	1440653			0.00- 30.00	157.90
6.041	6.041 (0.750)	84	299515			0.00- 30.00	32.83
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	216200	50.0000	55.868	70.00- 130.00	100.00
7.700	7.700 (0.955)	43	3075968			0.00- 30.00	1422.74
7.700	7.700 (0.955)	61	339574			0.00- 30.00	157.06
62 Methyl Acrylate					CAS #: 96-33-3		
7.783	7.783 (0.966)	55	2133950	50.0000	59.319	70.00- 130.00	100.00
7.783	7.783 (0.966)	85	253749			0.00- 30.00	11.89
7.783	7.783 (0.966)	58	193540			0.00- 30.00	9.07
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	727693	50.0000	57.406	70.00- 130.00	100.00
11.073	11.073 (1.117)	93	793114			0.00- 30.00	108.99
11.073	11.073 (1.117)	95	671591			0.00- 30.00	92.29
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	1679979	50.0000	61.078	70.00- 130.00	100.00
11.073	11.073 (1.117)	69	783759			0.00- 30.00	46.65
11.073	11.073 (1.117)	100	321907			0.00- 30.00	19.16
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	320419	50.0000		70.00- 130.00	100.00(a)
16.879	16.879 (1.125)	53	749649			0.00- 30.00	233.96
16.879	16.879 (1.125)	124	113561			0.00- 30.00	35.44

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	1786888	50.0000	56.826	70.00- 130.00	100.00
17.709	17.709 (1.181)	95	567714			0.00- 30.00	31.77
17.709	17.709 (1.181)	63	1479731			0.00- 30.00	82.81
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	2902546	50.0000	61.098	70.00- 130.00	100.00
15.331	15.331 (1.022)	57	2217532			0.00- 30.00	76.40
15.331	15.331 (1.022)	85	647720			0.00- 30.00	22.32
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	972962	50.0000	58.674	70.00- 130.00	100.00
15.193	15.193 (1.013)	117	661508			0.00- 30.00	67.99
15.165	15.165 (1.011)	95	422437			0.00- 30.00	43.42

QC Flag Legend

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

Report Date: 05-Oct-2007 12:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100505.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-05oct.b/t14q928b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 05-OCT-2007
Calibration Time: 10:46
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300745	180447	421043	300745	0.00
92 1,4-Difluorobenze	1105903	663542	1548264	1105903	0.00
125 Chlorobenzene-d5	910245	546147	1274343	910245	0.00

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

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

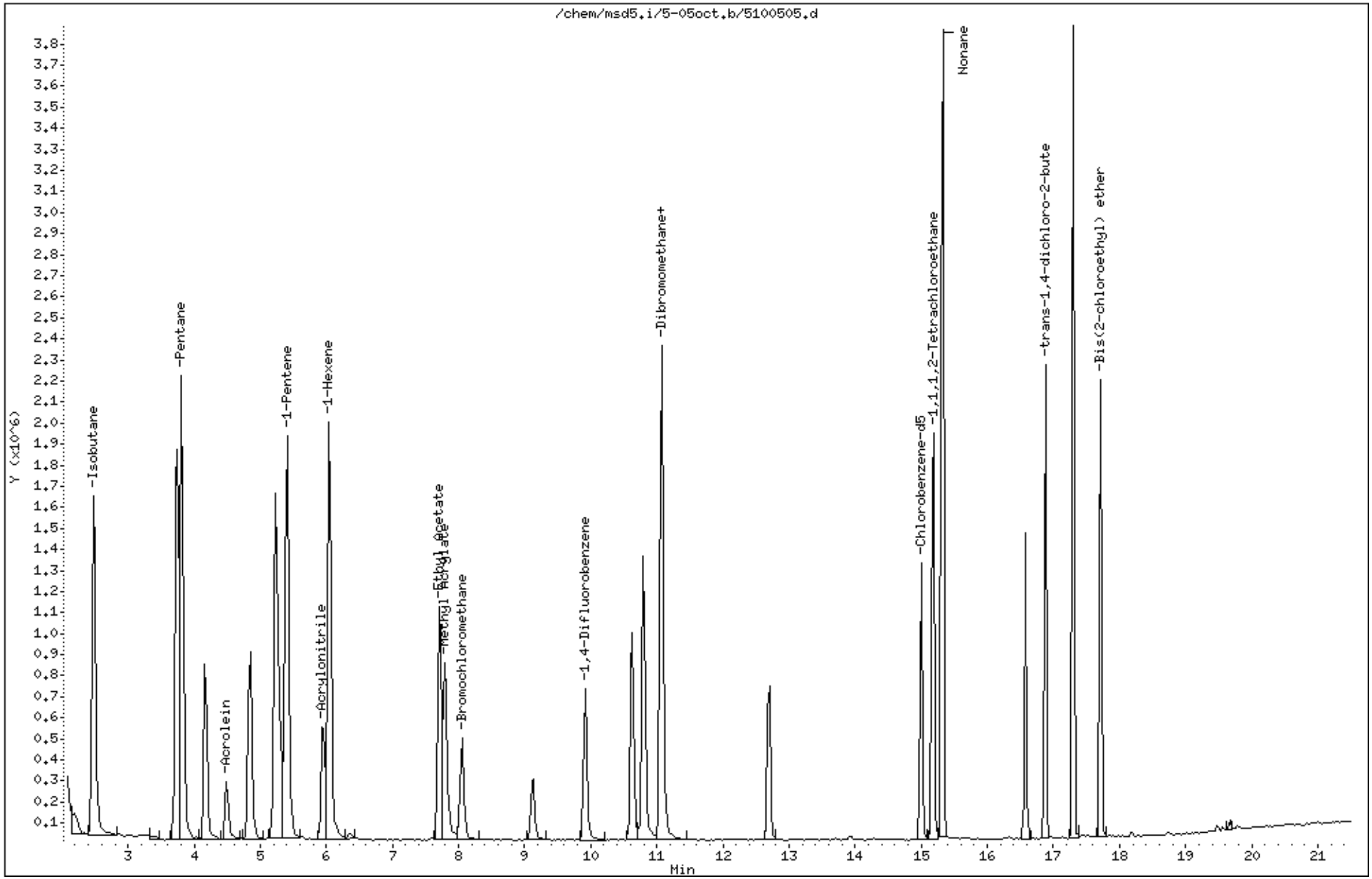
0125

Data File: /chem/msd5.i/5-05oct.b/5100505.d
Date : 05-OCT-2007 10:46
Client ID: Level 5
Sample Info: 50ml #1443-354

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092809.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 28-SEP-2007 13:07
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1576-18
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 13:07 Cal File: 5092809.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	288887	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	229476			49.43- 109.43	79.43
8.059	8.059 (1.000)	49	635927			190.13- 250.13	220.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1067015	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	190113			0.00- 47.82	17.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	887636	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	520927			0.00- 30.00	58.69
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	448367	25.0000	24.574	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	247336			0.00- 30.00	55.16
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	988185	25.0000	26.236	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	97699			0.00- 30.00	9.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	660095			0.00- 30.00	66.80
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	448885	25.0000	25.119	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	705333			127.13- 187.13	157.13
16.575	16.575 (1.105)	176	445630			69.27- 129.27	99.27
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1079131	50.0000	53.285	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	728667			0.00- 30.00	67.52
2.280	2.280 (0.283)	39	723346			0.00- 30.00	67.03
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1815594	50.0000	57.649	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	580654			0.00- 30.00	31.98
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1752156	50.0000	54.781	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	570301			2.55- 62.55	32.55
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1503156	50.0000	54.883	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	443453			0.00- 30.00	29.50
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1226466	50.0000	55.072	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	383377			0.00- 30.00	31.26
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1197139	50.0000	55.914	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	1383248			0.00- 30.00	115.55
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	846625	50.0000	56.852	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	813447			66.08- 126.08	96.08
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	637739	50.0000	51.982	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	188659			0.00- 30.00	29.58
3.414	3.414 (0.424)	66	186951			0.00- 30.00	29.31
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1999027	50.0000	55.111	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	1292547			34.66- 94.66	64.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	406174	50.0000	55.436	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	77966			0.00- 30.00	19.20
4.078	4.078 (0.506)	46	173138			0.00- 30.00	42.63
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1286404	50.0000	54.217	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	806826			32.72- 92.72	62.72
4.520	4.520 (0.561)	101	1668930			99.74- 159.74	129.74
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1596426	50.0000	54.061	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	896860			26.18- 86.18	56.18
4.575	4.575 (0.568)	98	585979			6.71- 66.71	36.71
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	572165	50.0000	52.352	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	1853767			0.00- 30.00	323.99
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2116089	50.0000	54.425	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	488738			0.00- 30.00	23.10
4.935	4.935 (0.612)	59	70318			0.00- 30.00	3.32
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2642282	50.0000	55.033	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	406245	50.0000	54.051	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	1794047			0.00- 30.00	441.62
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1429331	50.0000	53.432	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	754717			22.80- 82.80	52.80
5.432	5.432 (0.674)	51	423411			0.00- 30.00	29.62
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	557694	50.0000	42.433	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	192740			4.56- 64.56	34.56
5.764	5.764 (0.715)	41	217823			0.00- 30.00	39.06
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	982590	50.0000	52.686	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	1573644			130.15- 190.15	160.15
5.819	5.819 (0.722)	98	614911			0.00- 30.00	62.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1989723	50.0000	54.642	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	1435673			0.00- 30.00	72.15
6.179	6.179 (0.767)	86	277283			0.00- 30.00	13.94
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1735386	50.0000	53.597	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	523721			0.18- 60.18	30.18
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	374524	50.0000	58.184	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	2455798			625.71- 685.71	655.71
7.672	7.672 (0.952)	57	174262			0.00- 30.00	46.53
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1296588	50.0000	56.737	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	840240			34.80- 94.80	64.80
7.617	7.617 (0.945)	98	534664			11.24- 71.24	41.24
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1466328	50.0000	51.297	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	331852			0.00- 52.63	22.63
8.059	8.059 (1.000)	72	369210			0.00- 30.00	25.18
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1518179	50.0000	53.517	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	955306			32.92- 92.92	62.92
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1516246	50.0000	53.663	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	992989			35.49- 95.49	65.49
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1112533	50.0000	56.810	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1821889			133.76- 193.76	163.76
8.418	8.418 (1.045)	41	1092502			68.20- 128.20	98.20
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	211247	50.0000	54.859	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	2998370			0.00- 30.00	1419.37
6.649	6.649 (0.825)	42	231191			0.00- 30.00	109.44
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1298686	50.0000	55.077	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1376479			75.99- 135.99	105.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	5321904	50.0000	56.908	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	1724601			0.00- 30.00	32.41
9.110	9.110 (1.130)	41	1501350			0.00- 30.00	28.21
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2238257	50.0000	49.527	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	529099			0.00- 30.00	23.64
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1224434	50.0000	53.105	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	382150			0.00- 30.00	31.21
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	268426	50.0000	55.975	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	2287781			0.00- 30.00	852.29
9.469	9.469 (0.955)	71	790281			0.00- 30.00	294.41
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	955852	50.0000	52.906	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	908681			65.07- 125.07	95.07
10.326	10.326 (1.042)	97	598479			32.61- 92.61	62.61
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	868511	50.0000	52.182	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	608630			40.08- 100.08	70.08
10.852	10.852 (1.095)	41	725593			53.54- 113.54	83.54
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	502172	50.0000	54.183	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	488552			67.29- 127.29	97.29
11.073	11.073 (1.117)	57	155548			0.00- 30.00	30.98
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1394955	50.0000	53.570	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	896684			34.28- 94.28	64.28
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	973965	50.0000	57.374	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	315724			2.42- 62.42	32.42
12.317	12.317 (1.243)	39	800344			52.17- 112.17	82.17
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	785201	50.0000	55.976	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	2392002			0.00- 30.00	304.64
12.594	12.594 (1.271)	85	263940			0.00- 30.00	33.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2284522	50.0000	54.943	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	1371083			30.02- 90.02	60.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1020140	50.0000	54.879	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	320274			1.40- 61.40	31.40
13.368	13.368 (0.891)	39	786397			47.09- 107.09	77.09
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	805828	50.0000	52.179	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	483561			30.01- 90.01	60.01
13.644	13.644 (0.910)	83	642198			49.69- 109.69	79.69
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	950257	50.0000	50.610	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	792654			53.41- 113.41	83.41
13.700	13.700 (0.913)	131	761857			50.17- 110.17	80.17
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1080329	50.0000	53.727	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	2323404			185.06- 245.06	215.06
14.031	14.031 (0.935)	100	168552			0.00- 30.00	15.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1215222	50.0000	54.270	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	977950			0.00- 30.00	80.48
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1215187	50.0000	54.214	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	1142960			64.06- 124.06	94.06
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1806196	50.0000	51.723	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	579253			2.07- 62.07	32.07
15.027	15.027 (1.002)	77	1145489			33.42- 93.42	63.42
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	991600	50.0000	53.298	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	3309668			0.00- 30.00	333.77
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1246548	50.0000	54.425	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	2762789			0.00- 30.00	221.64
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1155568	50.0000	57.905	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2673503			201.36- 261.36	231.36
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	1831532	50.0000	56.126	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	1020309			25.71- 85.71	55.71
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1089989	50.0000	54.346	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	558139			21.21- 81.21	51.21
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1638987	50.0000	51.508	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1040261			33.47- 93.47	63.47
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3595277	50.0000	56.205	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	1045677			0.00- 59.08	29.08
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3361021	50.0000	54.481	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1553409			0.00- 30.00	46.22
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2860474	50.0000	56.372	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	1302319			15.53- 75.53	45.53
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1981897	50.0000	53.288	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	1273403			0.00- 30.00	64.25
17.764	17.764 (1.184)	111	828643			0.00- 30.00	41.81
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2301811	50.0000	54.362	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	1466587			0.00- 30.00	63.71
17.847	17.847 (1.190)	111	1011422			0.00- 30.00	43.94
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3327788	50.0000	60.861	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	610188			0.00- 30.00	18.34
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2068638	50.0000	51.159	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	1284150			32.08- 92.08	62.08
18.206	18.206 (1.214)	111	846819			10.94- 70.94	40.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1440737	50.0000	49.878	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	1381270			65.87- 125.87	95.87
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1106642	50.0000	51.424	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	686311			32.02- 92.02	62.02
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4157810	50.0000	53.621	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	919027			0.00- 30.00	22.10
16.852	16.852 (1.123)	105	152837			0.00- 30.00	3.68
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3587713	50.0000	54.911	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	942977			0.00- 30.00	26.28
16.326	16.326 (1.088)	51	556655			0.00- 30.00	15.52
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5089017	50.0000	55.046	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	642913			0.00- 30.00	12.63
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1982669	50.0000	53.342	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1198605			0.00- 30.00	60.45
3.414	3.414 (0.424)	72	107652			0.00- 30.00	5.43
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	313534	50.0000	52.736	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	2507905			0.00- 30.00	799.88
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1323123	50.0000	55.995	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	673285			0.00- 30.00	50.89
10.547	10.547 (1.064)	55	1596264			0.00- 30.00	120.64

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092809.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	288887	0.00
92 1,4-Difluorobenze	1067015	640209	1493821	1067015	0.00
125 Chlorobenzene-d5	887636	532582	1242690	887636	0.00

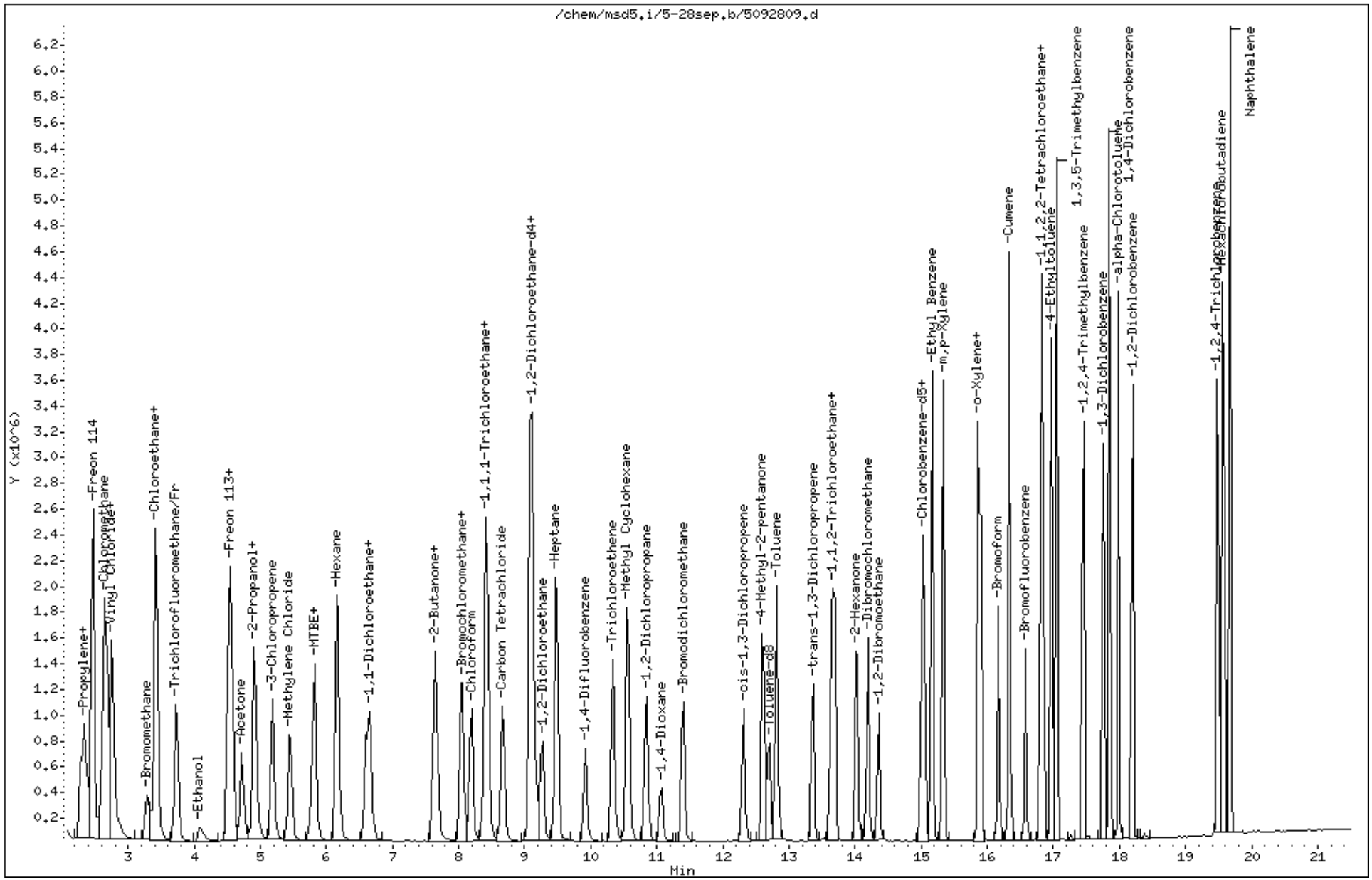
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-28sep.b/5092809.d
Date : 28-SEP-2007 13:07
Client ID: Level 5
Sample Info: 50ml #1576-18

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092810.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 28-SEP-2007 13:36
Operator : lmr Inst ID: msd5.i
Smp Info : 100ml #1576-18
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 13:36 Cal File: 5092810.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	307314	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	241052			48.44- 108.44	78.44
8.059	8.059 (1.000)	49	671236			188.42- 248.42	218.42
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1155924	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	202243			0.00- 47.50	17.50
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	940434	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	553324			28.84- 88.84	58.84
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	490991	25.0000	25.296	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	288503			28.76- 88.76	58.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1016519	25.0000	24.912	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	99840			0.00- 39.82	9.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	717368			40.57- 100.57	70.57
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	473513	25.0000	25.010	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	767796			132.15- 192.15	162.15
16.575	16.575 (1.105)	176	456599			66.43- 126.43	96.43
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2155943	100.000	100.07	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1461205			37.78- 97.78	67.78
2.280	2.280 (0.283)	39	1431083			36.38- 96.38	66.38
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.335 (0.290)	85	3531789	100.000	105.42	70.00- 130.00	100.00
2.335	2.335 (0.290)	87	1135397			2.15- 62.15	32.15
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3365103	100.000	98.902	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1079924			2.09- 62.09	32.09
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	2930557	100.000	100.58	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	851266			0.00- 59.05	29.05
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	2513113	100.000	106.08	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	777460			0.94- 60.94	30.94
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	2435698	100.000	106.94	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	2604784			76.94- 136.94	106.94
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	1760834	100.000	111.15	70.00- 130.00	100.00
3.303	3.303 (0.410)	96	1657540			64.13- 124.13	94.13
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1262474	100.000	96.735	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	371465			0.00- 59.42	29.42
3.414	3.414 (0.424)	66	366360			0.00- 59.02	29.02
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	4094499	100.000	106.11	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	2588243			33.21- 93.21	63.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	734124	100.000	94.188	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	135430			0.00- 48.45	18.45
4.105	4.105 (0.509)	46	318871			13.44- 73.44	43.44
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	2590265	100.000	102.62	70.00- 130.00	100.00
4.547	4.547 (0.564)	153	1605282			31.97- 91.97	61.97
4.520	4.520 (0.561)	101	3381550			100.55- 160.55	130.55
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3277263	100.000	104.33	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1839055			26.12- 86.12	56.12
4.575	4.575 (0.568)	98	1171527			5.75- 65.75	35.75
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1233542	100.000	106.10	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	3834073			280.82- 340.82	310.82
36 2-Propanol					CAS #: 67-63-0		
4.934	4.934 (0.612)	45	4508083	100.000	108.99	70.00- 130.00	100.00
4.934	4.934 (0.612)	43	947933			0.00- 51.03	21.03
4.934	4.934 (0.612)	59	146506			0.00- 33.25	3.25
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	5342008	100.000	104.59	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	859303	100.000	107.47	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	3680510			398.31- 458.31	428.31
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	2906357	100.000	102.13	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	1527989			22.57- 82.57	52.57
5.460	5.460 (0.677)	51	883885			0.41- 60.41	30.41
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1029924	100.000	73.665	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	348429			3.83- 63.83	33.83
5.764	5.764 (0.715)	41	384662			7.35- 67.35	37.35
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	2016959	100.000	101.66	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	3231652			130.22- 190.22	160.22
5.819	5.819 (0.722)	98	1275739			33.25- 93.25	63.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	4141749	100.000	106.92	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3027583			43.10- 103.10	73.10
6.179	6.179 (0.767)	86	554826			0.00- 43.40	13.40
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	3509413	100.000	101.89	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	1074467			0.62- 60.62	30.62
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	796938	100.000	116.38	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	5075377			606.86- 666.86	636.86
7.672	7.672 (0.952)	57	347884			13.65- 73.65	43.65
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2626758	100.000	108.05	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1741361			36.29- 96.29	66.29
7.617	7.617 (0.945)	98	1112056			12.34- 72.34	42.34
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3071237	100.000	101.00	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	701423			0.00- 52.84	22.84
8.031	8.031 (0.997)	72	775929			0.00- 55.26	25.26
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3004560	100.000	99.563	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1956408			35.11- 95.11	65.11
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3137060	100.000	104.37	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2012992			34.17- 94.17	64.17
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2251968	100.000	108.10	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	3807711			139.08- 199.08	169.08
8.418	8.418 (1.045)	41	2253175			70.05- 130.05	100.05
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	463132	100.000	113.06	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	6534436			1380.92-1440.92	1410.92
6.649	6.649 (0.825)	42	483262			74.35- 134.35	104.35
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2748240	100.000	109.56	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	2833344			73.10- 133.10	103.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	11067575	100.000	111.25	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	3645413			2.94- 62.94	32.94
9.110	9.110 (1.130)	41	3134381			0.00- 58.32	28.32
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	4637844	100.000	94.731	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1071705			0.00- 53.11	23.11
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	2531660	100.000	101.35	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	803113			1.72- 61.72	31.72
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	576449	100.000	110.96	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	4763338			796.32- 856.32	826.32
9.497	9.497 (0.958)	71	1643268			255.07- 315.07	285.07
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1956853	100.000	99.980	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1900160			67.10- 127.10	97.10
10.326	10.326 (1.042)	97	1259602			34.37- 94.37	64.37
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	1792545	100.000	99.416	70.00- 130.00	100.00
10.851	10.851 (1.095)	62	1280948			41.46- 101.46	71.46
10.851	10.851 (1.095)	41	1457363			51.30- 111.30	81.30
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1063293	100.000	105.90	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1033681			67.22- 127.22	97.22
11.073	11.073 (1.117)	57	331696			1.20- 61.20	31.20
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	2937427	100.000	104.13	70.00- 130.00	100.00
11.404	11.404 (1.151)	85	1870691			33.68- 93.68	63.68
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2058649	100.000	111.94	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	656723			1.90- 61.90	31.90
12.317	12.317 (1.243)	39	1730139			54.04- 114.04	84.04
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	1690156	100.000	111.22	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	5089362			271.12- 331.12	301.12
12.593	12.593 (1.271)	85	560186			3.14- 63.14	33.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	4710232	100.000	104.57	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2786893			29.17- 89.17	59.17
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2249904	100.000	114.24	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	695530			0.91- 60.91	30.91
13.368	13.368 (0.891)	39	1681471			44.74- 104.74	74.74
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1644998	100.000	100.54	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1014464			31.67- 91.67	61.67
13.644	13.644 (0.910)	83	1311408			49.72- 109.72	79.72
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1958368	100.000	98.445	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	1609596			52.19- 112.19	82.19
13.699	13.699 (0.913)	131	1528522			48.05- 108.05	78.05
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2328363	100.000	109.29	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	5012487			185.28- 245.28	215.28
14.031	14.031 (0.935)	100	359244			0.00- 45.43	15.43
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2593758	100.000	109.33	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2014784			47.68- 107.68	77.68
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2515737	100.000	105.93	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	2385361			64.82- 124.82	94.82
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	3703276	100.000	100.10	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	1184756			1.99- 61.99	31.99
15.027	15.027 (1.002)	77	2355416			33.60- 93.60	63.60
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2051310	100.000	104.07	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	6959958			309.29- 369.29	339.29
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2605592	100.000	107.37	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	5709689			189.13- 249.13	219.13
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2392166	100.000	113.14	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	5504245			200.09- 260.09	230.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	3915341	100.000	113.24	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	2190176			25.94- 85.94	55.94
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2281426	100.000	107.36	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1166970			21.15- 81.15	51.15
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3393063	100.000	100.64	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	2186772			34.45- 94.45	64.45
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	7536456	100.000	111.20	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2209859			0.00- 59.32	29.32
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	6927002	100.000	105.98	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	3194546			16.12- 76.12	46.12
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	6190860	100.000	115.16	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	2795368			15.15- 75.15	45.15
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4143477	100.000	105.15	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	2647584			33.90- 93.90	63.90
17.764	17.764 (1.184)	111	1693293			10.87- 70.87	40.87
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	4696434	100.000	104.69	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2981070			33.48- 93.48	63.48
17.847	17.847 (1.190)	111	2082354			14.34- 74.34	44.34
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	7590152	100.000	131.02	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1420799			0.00- 48.72	18.72
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	4283612	100.000	99.990	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	2686456			32.71- 92.71	62.71
18.206	18.206 (1.214)	111	1756978			11.02- 71.02	41.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	3076700	100.000	100.54	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	2890226			63.94- 123.94	93.94
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2244240	100.000	98.432	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1411570			32.90- 92.90	62.90
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	8939998	100.000	108.82	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	1955776			0.00- 51.88	21.88
16.824	16.824 (1.122)	105	314340			0.00- 33.52	3.52
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	7553236	100.000	109.11	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1945056			0.00- 55.75	25.75
16.326	16.326 (1.088)	51	1147215			0.00- 45.19	15.19
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	10693686	100.000	109.18	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1345377			0.00- 42.58	12.58
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4075497	100.000	103.07	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2463771			30.45- 90.45	60.45
3.414	3.414 (0.424)	72	231349			0.00- 35.68	5.68
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	643700	100.000	101.78	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	5131597			767.20- 827.20	797.20
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	2756775	100.000	107.69	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	1406075			21.00- 81.00	51.00
10.547	10.547 (1.064)	55	3348431			91.46- 151.46	121.46

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092810.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	307314	6.38
92 1,4-Difluorobenze	1067015	640209	1493821	1155924	8.33
125 Chlorobenzene-d5	887636	532582	1242690	940434	5.95

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

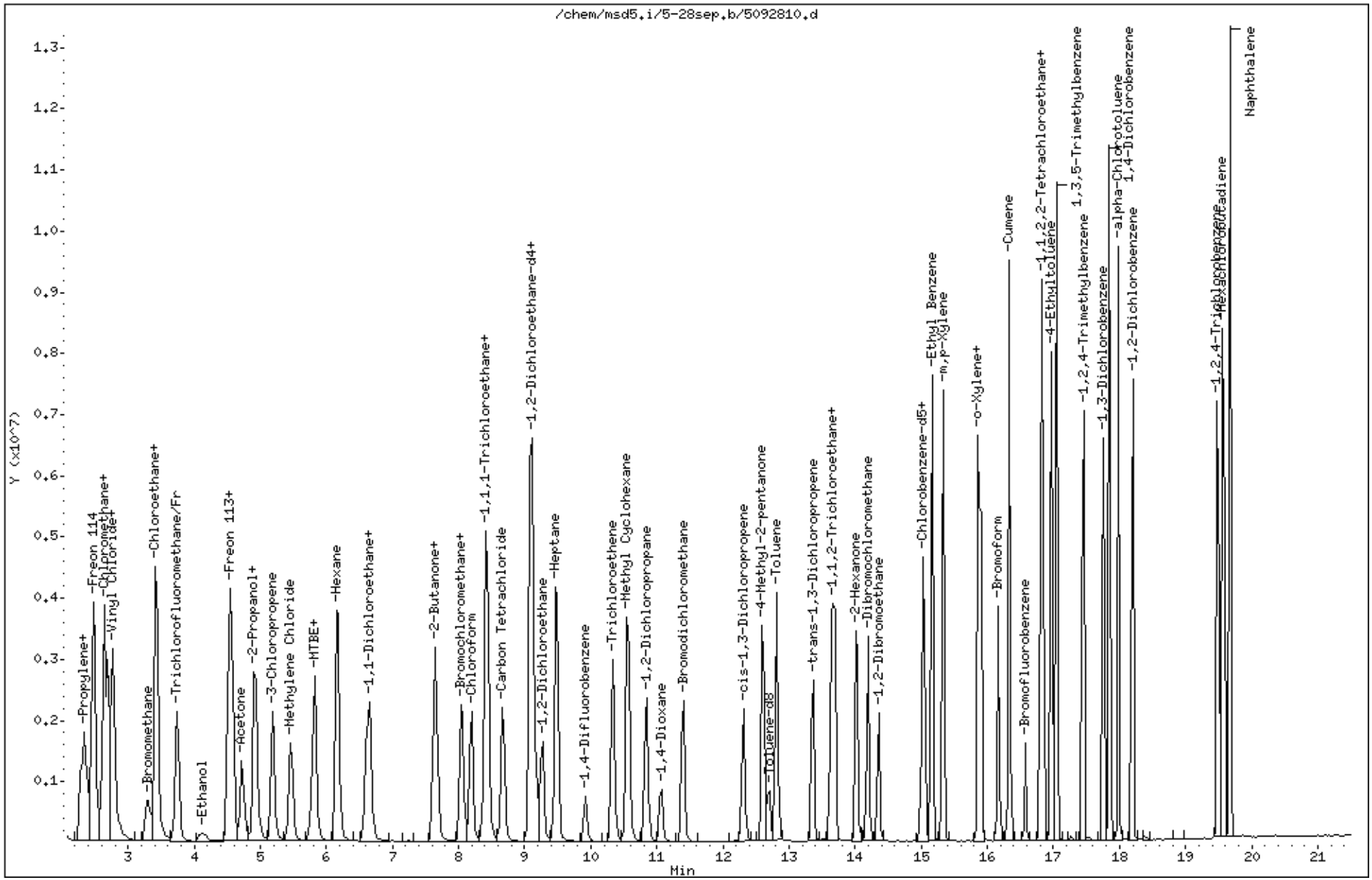
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0145

Data File: /chem/msd5.i/5-28sep.b/5092810.d
Date : 28-SEP-2007 13:36
Client ID: Level 6
Sample Info: 100ml #1576-18

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-05oct.b/5100506.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 05-OCT-2007 11:18
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1443-354
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-05oct.b/t14q928b.m
Meth Date : 05-Oct-2007 12:18 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp18b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	327813	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	258098			45.95- 105.95	78.73
8.059	8.059 (1.000)	49	721600			191.62- 251.62	220.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1171292	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	188656			0.00- 47.74	16.11
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	938224	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	560358			0.00- 30.00	59.73
7 Isobutane					CAS #: 75-28-5		
2.529	2.529 (0.314)	43	10887054	200.000	186.02	70.00- 130.00	100.00
2.529	2.529 (0.314)	42	3594767			0.00- 30.00	33.02
2.529	2.529 (0.314)	58	320908			0.00- 30.00	2.95
18 Pentane					CAS #: 109-66-0		
3.829	3.829 (0.475)	43	12168623	200.000	202.23	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
18 Pentane (continued)							
3.829	3.829 (0.475)	57	1639327			0.00- 30.00	13.47
3.829	3.829 (0.475)	72	937603			0.00- 30.00	7.71
25 Acrolein					CAS #: 107-02-8		
4.492	4.492 (0.557)	55	1464937	200.000	199.06	70.00- 130.00	100.00
4.492	4.492 (0.557)	56	2117179			0.00- 30.00	144.52
39 Acrylonitrile					CAS #: 107-13-1		
5.958	5.958 (0.739)	53	4871483	200.000	209.48	70.00- 130.00	100.00(A)
5.958	5.958 (0.739)	52	3692394			0.00- 30.00	75.80
42 1-Pentene					CAS #: 109-67-1		
5.405	5.405 (0.671)	55	4993118	200.000	200.37	70.00- 130.00	100.00(TA)
5.405	5.405 (0.671)	42	12857440			0.00- 30.00	257.50
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
58 1-Hexene					CAS #: 592-41-6		
6.041	6.041 (0.750)	55	3751917	200.000	212.83	70.00- 130.00	100.00(A)
6.041	6.041 (0.750)	41	6039788			0.00- 30.00	160.98
6.041	6.041 (0.750)	84	1176128			0.00- 30.00	31.35
61 Ethyl Acetate					CAS #: 141-78-6		
7.700	7.700 (0.955)	70	902955	200.000	209.16	70.00- 130.00	100.00(A)
7.700	7.700 (0.955)	43	12261922			0.00- 30.00	1357.98
7.700	7.700 (0.955)	61	1365282			0.00- 30.00	151.20
62 Methyl Acrylate					CAS #: 96-33-3		
7.783	7.783 (0.966)	55	8888296	200.000	217.02	70.00- 130.00	100.00(A)
7.783	7.783 (0.966)	85	1077308			0.00- 30.00	12.12
7.783	7.783 (0.966)	58	782036			0.00- 30.00	8.80
95 Dibromomethane					CAS #: 74-95-3		
11.073	11.073 (1.117)	174	2702784	200.000	200.87	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	93	3114960			0.00- 30.00	115.25
11.073	11.073 (1.117)	95	2587187			0.00- 30.00	95.72
96 Methyl Methacrylate					CAS #: 80-62-6		
11.073	11.073 (1.117)	41	6859208	200.000	222.32	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	69	3178458			0.00- 30.00	46.34
11.073	11.073 (1.117)	100	1245341			0.00- 30.00	18.16
109 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.879	16.879 (1.125)	89	1548577	200.000		70.00- 130.00	100.00(a)
16.879	16.879 (1.125)	53	3494735			0.00- 30.00	225.67
16.879	16.879 (1.125)	124	504333			0.00- 30.00	32.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.709	17.709 (1.181)	93	7497717	200.000	219.85	70.00- 130.00	100.00(A)
17.709	17.709 (1.181)	95	2399908			0.00- 30.00	32.01
17.709	17.709 (1.181)	63	6182452			0.00- 30.00	82.46
127 Nonane					CAS #: 111-84-2		
15.331	15.331 (1.022)	43	11741148	200.000	224.87	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	57	9126808			0.00- 30.00	77.73
15.331	15.331 (1.022)	85	2546851			0.00- 30.00	21.69
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
15.193	15.193 (1.013)	131	3706838	200.000	210.94	70.00- 130.00	100.00(A)
15.193	15.193 (1.013)	117	2481820			0.00- 30.00	66.95
15.193	15.193 (1.013)	95	1609477			0.00- 30.00	43.42

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100506.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-05oct.b/t14q928b.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 05-OCT-2007
Calibration Time: 10:46
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	300745	180447	421043	327813	9.00
92 1,4-Difluorobenze	1105903	663542	1548264	1171292	5.91
125 Chlorobenzene-d5	910245	546147	1274343	938224	3.07

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

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

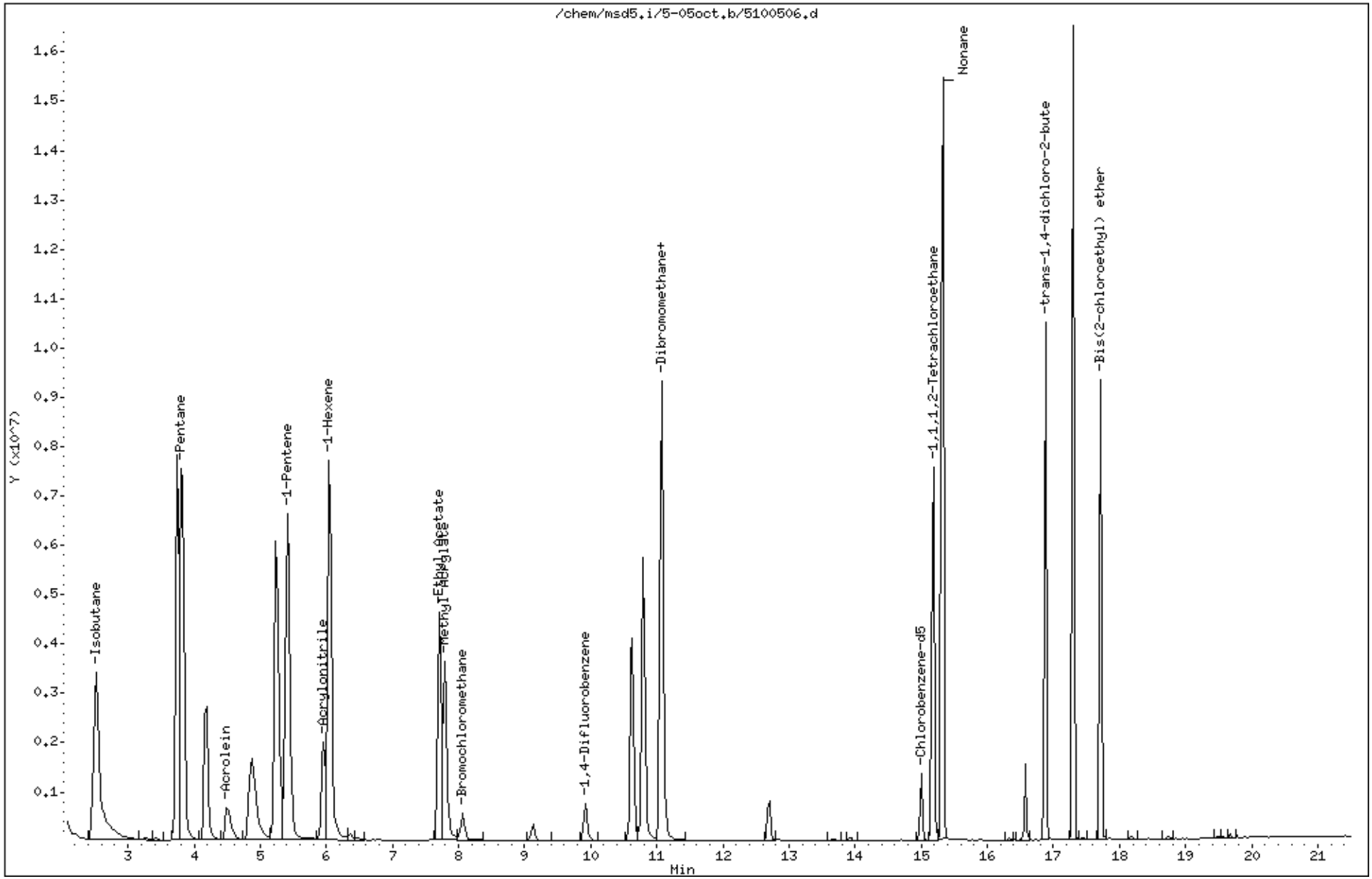
0150

Data File: /chem/msd5.i/5-05oct.b/5100506.d
Date : 05-OCT-2007 11:18
Client ID: Level 7
Sample Info: 200ml #1443-354

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092811.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 28-SEP-2007 14:08
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1576-18
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	330751	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	251559			48.44- 108.44	76.06
8.059	8.059 (1.000)	49	797058			188.42- 248.42	240.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1250692	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	218098			0.00- 47.50	17.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	996151	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	612059			28.84- 88.84	61.44
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	562412	25.0000	26.922	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	364702			28.76- 88.76	64.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1135727	25.0000	25.724	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	124488			0.00- 39.82	10.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	789585			40.57- 100.57	69.52
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	507335	25.0000	25.297	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	845715			132.15- 192.15	166.70
16.575	16.575 (1.105)	176	498151			66.43- 126.43	98.19
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	4515950	200.000	194.76	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	3031727			37.78- 97.78	67.13
2.280	2.280 (0.283)	39	3039603			36.38- 96.38	67.31
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	7014237	200.000	194.53	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	2272317			2.15- 62.15	32.40
9 Freon 114					CAS #: 76-14-2		
2.529	2.529 (0.314)	135	6748892	200.000	184.30	70.00- 130.00	100.00
2.529	2.529 (0.314)	137	2162078			2.09- 62.09	32.04
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	5469101	200.000	174.41	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	1564607			0.00- 59.05	28.61
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	5185944	200.000	203.39	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	64	1559962			0.94- 60.94	30.08
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	4987395	200.000	203.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	6086620			76.94- 136.94	122.04
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	3655999	200.000	214.43	70.00- 130.00	100.00(A)
3.303	3.303 (0.410)	96	3466232			64.13- 124.13	94.81
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	2681125	200.000	190.88	70.00- 130.00	100.00
3.441	3.441 (0.427)	49	669174			0.00- 59.42	24.96
3.441	3.441 (0.427)	66	612106			0.00- 59.02	22.83
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	8328053	200.000	200.53	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	5370334			33.21- 93.21	64.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.160	4.160 (0.516)	45	1679578	200.000	200.22	70.00- 130.00	100.00(A)
4.160	4.160 (0.516)	43	293800			0.00- 48.45	17.49
4.160	4.160 (0.516)	46	694422			13.44- 73.44	41.35
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	5316415	200.000	195.70	70.00- 130.00	100.00
4.547	4.547 (0.564)	153	3324412			31.97- 91.97	62.53
4.547	4.547 (0.564)	101	6938418			100.55- 160.55	130.51
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.571)	61	6930397	200.000	204.98	70.00- 130.00	100.00(A)
4.603	4.603 (0.571)	96	3836831			26.12- 86.12	55.36
4.603	4.603 (0.571)	98	2444607			5.75- 65.75	35.27
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	2526522	200.000	201.91	70.00- 130.00	100.00(A)
4.713	4.713 (0.585)	43	7956358			280.82- 340.82	314.91
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	9441005	200.000	212.08	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2053755			0.00- 51.03	21.75
4.935	4.935 (0.612)	59	311181			0.00- 33.25	3.30
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	11210004	200.000	203.93	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	1793677	200.000	208.44	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	41	7528284			398.31- 458.31	419.71
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	5927101	200.000	193.52	70.00- 130.00	100.00
5.488	5.488 (0.681)	84	3160553			22.57- 82.57	53.32
5.460	5.460 (0.677)	51	1859875			0.41- 60.41	31.38
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1747545	200.000	116.14	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	567256			3.83- 63.83	32.46
5.764	5.764 (0.715)	41	657543			7.35- 67.35	37.63
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4181565	200.000	195.83	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	6849602			130.22- 190.22	163.80
5.819	5.819 (0.722)	98	2635296			33.25- 93.25	63.02

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	8870194	200.000	212.76	70.00- 130.00	100.00(A)
6.179	6.179 (0.767)	43	6358382			43.10- 103.10	71.68
6.179	6.179 (0.767)	86	1187552			0.00- 43.40	13.39
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	7504315	200.000	202.43	70.00- 130.00	100.00(A)
6.621	6.621 (0.822)	65	2218446			0.62- 60.62	29.56
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	1733522	200.000	235.22	70.00- 130.00	100.00(A)
7.672	7.672 (0.952)	43	10869887			606.86- 666.86	627.04
7.672	7.672 (0.952)	57	766320			13.65- 73.65	44.21
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	5643264	200.000	215.68	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	3661021			36.29- 96.29	64.87
7.644	7.644 (0.949)	98	2338156			12.34- 72.34	41.43
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	6586666	200.000	201.26	70.00- 130.00	100.00(A)
8.031	8.031 (0.997)	71	1505595			0.00- 52.84	22.86
8.031	8.031 (0.997)	72	1648973			0.00- 55.26	25.04
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	6408931	200.000	197.32	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	4137587			35.11- 95.11	64.56
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	6683177	200.000	206.59	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	4237163			34.17- 94.17	63.40
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	4830838	200.000	215.46	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	8085344			139.08- 199.08	167.37
8.418	8.418 (1.045)	41	4697151			70.05- 130.05	97.23
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	1006835	200.000	228.37	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	14367127			1380.92-1440.92	1426.96
6.649	6.649 (0.825)	42	1044297			74.35- 134.35	103.72
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	5741277	200.000	212.67	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	6067940			73.10- 133.10	105.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	24050814	200.000	224.63	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	7770191			2.94- 62.94	32.31
9.110	9.110 (1.130)	41	6590641			0.00- 58.32	27.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	9824120	200.000	185.46	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	2237310			0.00- 53.11	22.77
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	5293385	200.000	195.86	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1646059			1.72- 61.72	31.10
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1227779	200.000	218.43	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	10172224			796.32- 856.32	828.51
9.497	9.497 (0.958)	71	3509436			255.07- 315.07	285.84
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	4165918	200.000	196.72	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	3949845			67.10- 127.10	94.81
10.326	10.326 (1.042)	97	2640350			34.37- 94.37	63.38
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	3830026	200.000	196.32	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	2750388			41.46- 101.46	71.81
10.852	10.852 (1.095)	41	2976854			51.30- 111.30	77.72
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	2219300	200.000	204.29	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	58	2200718			67.22- 127.22	99.16
11.073	11.073 (1.117)	57	702199			1.20- 61.20	31.64
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	6244602	200.000	204.59	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	3985737			33.68- 93.68	63.83
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	4508279	200.000	226.57	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1404913			1.90- 61.90	31.16
12.317	12.317 (1.243)	39	3633208			54.04- 114.04	80.59
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	3798768	200.000	231.04	70.00- 130.00	100.00(A)
12.593	12.593 (1.271)	43	11115889			271.12- 331.12	292.62
12.593	12.593 (1.271)	85	1226998			3.14- 63.14	32.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	10228359	200.000	209.87	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	6010389			29.17- 89.17	58.76
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	4841944	200.000	232.10	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1530368			0.91- 60.91	31.61
13.368	13.368 (0.891)	39	3634978			44.74- 104.74	75.07
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	3394265	200.000	195.84	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	2130514			31.67- 91.67	62.77
13.644	13.644 (0.910)	83	2778751			49.72- 109.72	81.87
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	4046272	200.000	192.02	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	3351579			52.19- 112.19	82.83
13.699	13.699 (0.913)	131	3181175			48.05- 108.05	78.62
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	5165349	200.000	228.90	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	10970842			185.28- 245.28	212.39
14.031	14.031 (0.935)	100	778651			0.00- 45.43	15.07
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	5561334	200.000	221.30	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	4318398			47.68- 107.68	77.65
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	5415573	200.000	215.29	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	5103360			64.82- 124.82	94.23
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	7974081	200.000	203.48	70.00- 130.00	100.00(A)
15.054	15.054 (1.004)	114	2517763			1.99- 61.99	31.57
15.027	15.027 (1.002)	77	5005003			33.60- 93.60	62.77
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	4359719	200.000	208.80	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	14889055			309.29- 369.29	341.51
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	5602554	200.000	217.96	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	12329439			189.13- 249.13	220.07
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5044522	200.000	225.24	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	11888060			200.09- 260.09	235.66
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	8349974	200.000	228.00	70.00- 130.00	100.00(A)
15.911	15.911 (1.061)	78	4661483			25.94- 85.94	55.83
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	4926534	200.000	218.87	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	2514793			21.15- 81.15	51.05
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	7296938	200.000	204.34	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	4659215			34.45- 94.45	63.85
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	16152156	200.000	225.00	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	4672060			0.00- 59.32	28.93
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	14631284	200.000	211.33	70.00- 130.00	100.00(A)
17.045	17.045 (1.136)	120	6662641			16.12- 76.12	45.54
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	13392302	200.000	235.18	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	5893020			15.15- 75.15	44.00
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	8573848	200.000	205.42	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	5381557			33.90- 93.90	62.77
17.764	17.764 (1.184)	111	3551618			10.87- 70.87	41.42
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	9605751	200.000	202.14	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	6003852			33.48- 93.48	62.50
17.847	17.847 (1.190)	111	4258369			14.34- 74.34	44.33
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14679769	200.000	239.23	70.00- 130.00	100.00(A)
17.985	17.985 (1.199)	126	3032053			0.00- 48.72	20.65
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	8778317	200.000	193.44	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	5567918			32.71- 92.71	63.43
18.206	18.206 (1.214)	111	3633553			11.02- 71.02	41.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	6352316	200.000	195.96	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	5974830			63.94- 123.94	94.06
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	4529519	200.000	187.55	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	2832959			32.90- 92.90	62.54
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	18844468	200.000	216.55	70.00- 130.00	100.00(A)
16.851	16.851 (1.123)	120	4076509			0.00- 51.88	21.63
16.851	16.851 (1.123)	105	637058			0.00- 33.52	3.38
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	15821494	200.000	215.77	70.00- 130.00	100.00(A)
16.326	16.326 (1.088)	120	4070182			0.00- 55.75	25.73
16.326	16.326 (1.088)	51	2429797			0.00- 45.19	15.36
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15900340	200.000	153.25	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2740722			0.00- 42.58	17.24
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.427)	43	8493921	200.000	199.60	70.00- 130.00	100.00
3.441	3.441 (0.427)	57	5141844			30.45- 90.45	60.54
3.441	3.441 (0.427)	72	467650			0.00- 35.68	5.51
11 Butane					CAS #: 106-97-8		
2.750	2.750 (0.341)	58	1353775	200.000	198.88	70.00- 130.00	100.00
2.750	2.750 (0.341)	43	10539342			767.20- 827.20	778.52
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	5935437	200.000	214.30	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	2989773			21.00- 81.00	50.37
10.547	10.547 (1.064)	55	7098894			91.46- 151.46	119.60

QC Flag Legend

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

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	330751	14.49
92 1,4-Difluorobenze	1067015	640209	1493821	1250692	17.21
125 Chlorobenzene-d5	887636	532582	1242690	996151	12.23

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

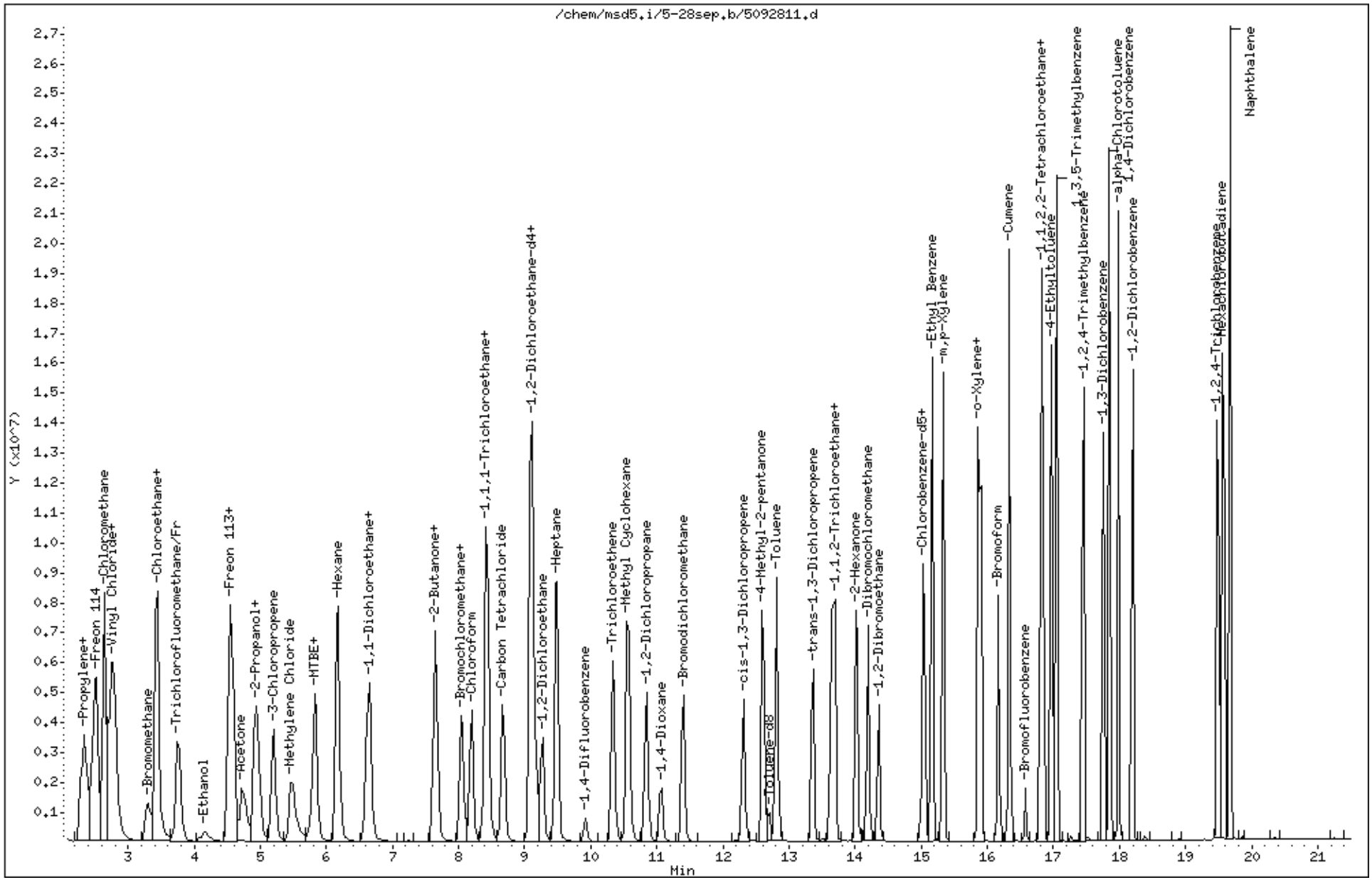
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0160

Data File: /chem/msd5.i/5-28sep.b/5092811.d
Date : 28-SEP-2007 14:08
Client ID: Level 7
Sample Info: 200ml #1576-18

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0710188-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 02:49 PM**	

Compound	%Recovery
Freon 12	118
Freon 114	96
Vinyl Chloride	111
Bromomethane	108
Chloroethane	95
Freon 11	102
1,1-Dichloroethene	103
Freon 113	96
Methylene Chloride	93
1,1-Dichloroethane	104
cis-1,2-Dichloroethene	108
Chloroform	99
1,1,1-Trichloroethane	96
Carbon Tetrachloride	98
Benzene	99
1,2-Dichloroethane	86
Trichloroethene	97
1,2-Dichloropropane	102
cis-1,3-Dichloropropene	110
Toluene	105
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	105
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	108
m,p-Xylene	109
o-Xylene	112
Styrene	104
1,1,2,2-Tetrachloroethane	108
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	97
1,3-Butadiene	100
Hexane	106
Cyclohexane	119

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0710188-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 02:49 PM**	

Compound	%Recovery
Heptane	109
Bromodichloromethane	93
Dibromochloromethane	101
Cumene	105
Propylbenzene	107
Chloromethane	95
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	91
Acetone	103
Carbon Disulfide	112
2-Propanol	94
trans-1,2-Dichloroethene	102
2-Butanone (Methyl Ethyl Ketone)	127
Tetrahydrofuran	93
1,4-Dioxane	102
4-Methyl-2-pentanone	100
2-Hexanone	95
Bromoform	97
4-Ethyltoluene	107
Ethanol	85
Methyl tert-butyl ether	72
3-Chloropropene	108
2,2,4-Trimethylpentane	111
Naphthalene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 16-OCT-2007 14:49
Lab File ID: 5101604.d Init. Cal. Date(s): 28-SEP-2007 05-OCT-2007
Analysis Type: AIR Init. Cal. Times: 11:16 11:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-16oct.b/t14q928b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 84 1,2-Dichloroethane-d4	1.57898	1.42334	0.010	9.85704	30.00000	Averaged
$ 107 Toluene-d8	0.88250	0.90651	0.010	-2.72037	30.00000	Averaged
$ 138 Bromofluorobenzene	0.50331	0.46668	0.010	7.27884	30.00000	Averaged
6 Propylene	1.75260	1.69364	0.010	3.36431	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.72546	3.22858	0.010	-18.45995	30.00000	Averaged
9 Freon 114	2.76791	2.66813	0.010	3.60491	30.00000	Averaged
10 Chloromethane	2.37017	2.24329	0.010	5.35316	30.00000	Averaged
13 Vinyl Chloride	1.92723	2.14194	0.010	-11.14134	30.00000	Averaged
12 1,3-Butadiene	1.85283	1.85495	0.010	-0.11443	30.00000	Averaged
15 Bromomethane	1.28871	1.38633	0.010	-7.57433	30.00000	Averaged
19 Chloroethane	1.06169	1.01175	0.010	4.70428	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.13903	3.20440	0.010	-2.08238	30.00000	Averaged
26 Ethanol	0.63406	0.53981	0.010	14.86557	30.00000	Averaged
30 Freon 113	2.05332	1.97090	0.010	4.01376	30.00000	Averaged
31 1,1-Dichloroethene	2.55549	2.62435	0.010	-2.69456	30.00000	Averaged
32 Acetone	0.94581	0.97105	0.010	-2.66883	30.00000	Averaged
36 2-Propanol	3.36470	3.14773	0.010	6.44857	30.00000	Averaged
35 Carbon Disulfide	4.15496	4.65489	0.010	-12.03205	30.00000	Averaged
38 3-Chloropropene	0.65043	0.70012	0.010	-7.63931	30.00000	Averaged
43 Methylene Chloride	2.31497	2.14815	0.010	7.20610	30.00000	Averaged
46 MTBE	1.13737	0.81842	0.010	28.04293	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.61396	1.64869	0.010	-2.15219	30.00000	Averaged
51 Hexane	3.15123	3.32519	0.010	-5.52041	30.00000	Averaged
55 1,1-Dichloroethane	2.80199	2.92042	0.010	-4.22654	30.00000	Averaged
67 2-Butanone	0.55704	0.70828	0.010	-27.15182	30.00000	Averaged
66 cis-1,2-Dichloroethene	1.97764	2.12703	0.010	-7.55359	30.00000	Averaged
70 Tetrahydrofuran	2.47370	2.30946	0.010	6.63958	30.00000	Averaged
72 Chloroform	2.45495	2.43423	0.010	0.84365	30.00000	Averaged
75 1,1,1-Trichloroethane	2.44516	2.34934	0.010	3.91898	30.00000	Averaged
74 Cyclohexane	1.69474	2.01125	0.010	-18.67616	30.00000	Averaged
56 Vinyl Acetate	0.33324	0.37117	0.010	-11.38281	30.00000	Averaged
77 Carbon Tetrachloride	2.04055	2.00210	0.010	1.88460	30.00000	Averaged
80 2,2,4-Trimethylpentane	8.09292	8.96600	0.010	-10.78817	30.00000	Averaged
81 Benzene	1.05885	1.05227	0.010	0.62121	30.00000	Averaged
85 1,2-Dichloroethane	0.54022	0.46555	0.010	13.82249	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 16-OCT-2007 14:49
Lab File ID: 5101604.d Init. Cal. Date(s): 28-SEP-2007 05-OCT-2007
Analysis Type: AIR Init. Cal. Times: 11:16 11:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-16oct.b/t14q928b.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
90 Heptane	0.11236	0.12264	0.010	-9.14989	30.00000	Averaged
93 Trichloroethene	0.42331	0.41199	0.010	2.67393	30.00000	Averaged
98 1,2-Dichloropropane	0.38997	0.39654	0.010	-1.68614	30.00000	Averaged
99 1,4-Dioxane	0.21715	0.22062	0.010	-1.59823	30.00000	Averaged
100 Bromodichloromethane	0.61010	0.56972	0.010	6.62002	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.39773	0.43835	0.010	-10.21118	30.00000	Averaged
106 4-Methyl-2-pentanone	0.32866	0.33009	0.010	-0.43372	30.00000	Averaged
108 Toluene	0.97421	1.02203	0.010	-4.90883	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.52355	0.54276	0.010	-3.66906	30.00000	Averaged
114 1,1,2-Trichloroethane	0.43496	0.45778	0.010	-5.24604	30.00000	Averaged
116 Tetrachloroethene	0.52883	0.50475	0.010	4.55329	30.00000	Averaged
119 2-Hexanone	0.56633	0.53915	0.010	4.79905	30.00000	Averaged
120 Dibromochloromethane	0.63067	0.63993	0.010	-1.46906	30.00000	Averaged
122 1,2-Dibromoethane	0.63131	0.66688	0.010	-5.63501	30.00000	Averaged
126 Chlorobenzene	0.98352	1.01871	0.010	-3.57807	30.00000	Averaged
128 Ethyl Benzene	0.52400	0.56566	0.010	-7.95074	30.00000	Averaged
130 m,p-Xylene	0.64508	0.70343	0.010	-9.04519	30.00000	Averaged
132 o-Xylene	0.56207	0.63215	0.010	-12.46892	30.00000	Averaged
133 Styrene	0.91909	0.95619	0.010	-4.03663	30.00000	Averaged
134 Bromoform	0.56489	0.54826	0.010	2.94287	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.89621	0.96806	0.010	-8.01725	30.00000	Averaged
144 4-Ethyltoluene	1.80163	1.93194	0.010	-7.23337	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.73753	1.74861	0.010	-0.63786	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.42914	1.49498	0.010	-4.60699	30.00000	Averaged
155 1,3-Dichlorobenzene	1.04751	1.05909	0.010	-1.10636	30.00000	Averaged
156 1,4-Dichlorobenzene	1.19256	1.18901	0.010	0.29774	30.00000	Averaged
157 alpha-Chlorotoluene	1.53999	1.77022	0.010	-14.94993	30.00000	Averaged
159 1,2-Dichlorobenzene	1.13885	1.10993	0.010	2.53913	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.81354	0.78735	0.010	3.21930	30.00000	Averaged
164 Hexachlorobutadiene	0.60610	0.55156	0.010	8.99901	30.00000	Averaged
142 Propylbenzene	2.18391	2.33454	0.010	-6.89711	30.00000	Averaged
136 Cumene	1.84019	1.93489	0.010	-5.14642	30.00000	Averaged
165 Naphthalene	2.60381	2.55333	0.010	1.93874	30.00000	Averaged
17 Isopentane	3.21658	3.02797	0.010	5.86356	30.00000	Averaged
11 Butane	0.51450	0.53190	0.010	-3.38268	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 16-OCT-2007 14:49
Lab File ID: 5101604.d Init. Cal. Date(s): 28-SEP-2007 05-OCT-2007
Analysis Type: AIR Init. Cal. Times: 11:16 11:18
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-16oct.b/t14q928b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.55363	0.60246	0.010	-8.81971	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101604.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 16-OCT-2007 14:49
Operator : lmr Inst ID: msd5.i
Smp Info : 100ml #1576-18A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.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			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	432048	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	347213			50.36- 110.36	80.36
8.059	8.059 (1.000)	49	921833			183.36- 243.36	213.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1679925	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	284326			0.00- 46.92	16.92
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1316846	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	791633			0.00- 30.00	60.12
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	614951	25.0000	22.536	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	342561			28.76- 88.76	55.71
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1522872	25.0000	25.680	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	139376			0.00- 39.82	9.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	977524			40.57- 100.57	64.19
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	614542	25.0000	23.180	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1028459			137.35- 197.35	167.35
16.575	16.575 (1.105)	176	598743			67.43- 127.43	97.43
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1463465	50.0000	48.318	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	1000956			37.78- 97.78	68.40
2.280	2.280 (0.283)	39	1002225			36.38- 96.38	68.48
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2789799	50.0000	59.230	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	896854			2.15- 62.15	32.15
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2305518	50.0000	48.198	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	737655			2.00- 62.00	32.00
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1938421	50.0000	47.323	80.00- 120.00	100.00
2.612	2.612 (0.324)	52	594828			0.00- 59.05	30.69
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1850846	50.0000	55.571	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	569280			0.94- 60.94	30.76
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1602856	50.0000	50.057	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1664940			76.94- 136.94	103.87
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1197918	50.0000	53.787	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	1116787			63.23- 123.23	93.23
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	874245	50.0000	47.648	80.00- 120.00	100.00
3.414	3.414 (0.424)	49	219328			0.00- 59.42	25.09
3.414	3.414 (0.424)	66	258601			0.00- 59.02	29.58
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2768905	50.0000	51.041	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1782188			34.36- 94.36	64.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.077 (0.506)	45	466445	50.0000	42.567	80.00- 120.00	100.00
4.133	4.133 (0.513)	43	78275			0.00- 48.45	16.78
4.105	4.105 (0.509)	46	204067			13.44- 73.44	43.75
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1703051	50.0000	47.993	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1051441			31.74- 91.74	61.74
4.520	4.520 (0.561)	101	2353165			108.17- 168.17	138.17
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2267690	50.0000	51.347	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1304914			27.54- 87.54	57.54
4.575	4.575 (0.568)	98	833325			6.75- 66.75	36.75
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	839079	50.0000	51.334	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2581760			280.82- 340.82	307.69
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2719940	50.0000	46.776	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	600263			0.00- 51.03	22.07
4.935	4.935 (0.612)	59	109447			0.00- 33.25	4.02
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4022270	50.0000	56.016	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	604968	50.0000	53.820	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	2290384			398.31- 458.31	378.60
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1856208	50.0000	46.397	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	1135225			31.16- 91.16	61.16
5.460	5.460 (0.677)	51	562718			0.41- 60.41	30.32
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	707194	50.0000	35.978	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	212793			0.09- 60.09	30.09
5.764	5.764 (0.715)	41	242089			7.35- 67.35	34.23
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1424627	50.0000	51.076	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	2243471			127.48- 187.48	157.48
5.819	5.819 (0.722)	98	907362			33.25- 93.25	63.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2873280	50.0000	52.760	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1981214			43.10- 103.10	68.95
6.179	6.179 (0.767)	86	404494			0.00- 43.40	14.08
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2523524	50.0000	52.113	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	761310			0.17- 60.17	30.17
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	612026	50.0000	63.576	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	3276545			505.36- 565.36	535.36
7.672	7.672 (0.952)	57	223451			13.65- 73.65	36.51
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1837955	50.0000	53.777	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1303093			40.90- 100.90	70.90
7.617	7.617 (0.945)	98	805471			13.82- 73.82	43.82
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1995594	50.0000	46.680	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	547632			0.00- 57.44	27.44
8.031	8.031 (0.997)	72	585973			0.00- 55.26	29.36
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2103412	50.0000	49.578	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1372090			35.23- 95.23	65.23
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	2030051	50.0000	48.040	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1294923			33.79- 93.79	63.79
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1737911	50.0000	59.338	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2674494			123.89- 183.89	153.89
8.418	8.418 (1.045)	41	1457469			53.86- 113.86	83.86
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	320724	50.0000	55.691	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3918425			1380.92-1440.92	1221.74
6.649	6.649 (0.825)	42	276437			74.35- 134.35	86.19
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1730005	50.0000	49.058	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1810803			74.67- 134.67	104.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	7747486	50.0000	55.394	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2520964			2.94- 62.94	32.54
9.110	9.110 (1.130)	41	1976651			0.00- 58.32	25.51
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3535477	50.0000	49.689	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	822578			0.00- 53.11	23.27
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1564173	50.0000	43.089	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	500005			1.72- 61.72	31.97
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	412040	50.0000	54.575	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	3132472			796.32- 856.32	760.23
9.497	9.497 (0.958)	71	1251388			255.07- 315.07	303.71
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1384214	50.0000	48.663	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1311877			64.77- 124.77	94.77
10.326	10.326 (1.042)	97	892223			34.46- 94.46	64.46
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1332319	50.0000	50.843	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	935604			40.22- 100.22	70.22
10.852	10.852 (1.095)	41	899527			37.52- 97.52	67.52
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	741244	50.0000	50.799	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	669151			60.27- 120.27	90.27
11.073	11.073 (1.117)	57	202212			1.20- 61.20	27.28
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1914157	50.0000	46.690	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1236087			34.58- 94.58	64.58
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1472783	50.0000	55.106	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	457193			1.04- 61.04	31.04
12.317	12.317 (1.243)	39	1005954			38.30- 98.30	68.30
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1109049	50.0000	50.217	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3160806			271.12- 331.12	285.00
12.594	12.594 (1.271)	85	366645			3.14- 63.14	33.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3433866	50.0000	52.454	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2025670			28.99- 88.99	58.99
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1429463	50.0000	51.834	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	453816			1.75- 61.75	31.75
13.368	13.368 (0.891)	39	971577			37.97- 97.97	67.97
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1205653	50.0000	52.623	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	745939			31.87- 91.87	61.87
13.644	13.644 (0.910)	83	1013106			54.03- 114.03	84.03
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1329351	50.0000	47.723	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	1072097			50.65- 110.65	80.65
13.700	13.700 (0.913)	131	1025700			47.16- 107.16	77.16
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1419959	50.0000	47.600	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2798135			167.06- 227.06	197.06
14.031	14.031 (0.935)	100	221680			0.00- 45.43	15.61
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1685391	50.0000	50.734	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1307082			47.68- 107.68	77.55
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1756356	50.0000	52.818	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1684120			65.89- 125.89	95.89
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2682969	50.0000	51.789	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	860606			2.08- 62.08	32.08
15.027	15.027 (1.002)	77	1661028			31.91- 91.91	61.91
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1489782	50.0000	53.975	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	4940654			309.29- 369.29	331.64
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1852628	50.0000	54.522	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3874504			189.13- 249.13	209.14
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1664886	50.0000	56.234	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3830179			200.06- 260.06	230.06
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	2518317	50.0000	52.018	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1295743			21.45- 81.45	51.45
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1443952	50.0000	48.528	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	762244			22.79- 82.79	52.79
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2549566	50.0000	54.009	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1641394			34.38- 94.38	64.38
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5088146	50.0000	53.617	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1513053			0.00- 59.74	29.74
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4605295	50.0000	50.319	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2135529			16.12- 76.12	46.37
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3937322	50.0000	52.303	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1817424			16.16- 76.16	46.16
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2789329	50.0000	50.553	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1758179			33.90- 93.90	63.03
17.764	17.764 (1.184)	111	1089939			10.87- 70.87	39.08
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3131493	50.0000	49.851	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1937458			33.48- 93.48	61.87
17.847	17.847 (1.190)	111	1383148			14.34- 74.34	44.17
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4662219	50.0000	57.475	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	846876			0.00- 48.72	18.16
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2923226	50.0000	48.730	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1838500			32.89- 92.89	62.89
18.206	18.206 (1.214)	111	1162818			9.78- 69.78	39.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	2073633	50.0000	48.390	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1963945			64.71- 124.71	94.71
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1452632	50.0000	45.500	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	920980			33.40- 93.40	63.40
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6148451	50.0000	53.448	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	1310402			0.00- 51.88	21.31
16.824	16.824 (1.122)	105	213913			0.00- 33.52	3.48
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5095915	50.0000	52.573	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1374554			0.00- 55.75	26.97
16.326	16.326 (1.088)	51	714380			0.00- 45.19	14.02
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6724693	50.0000	49.031	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	841807			0.00- 42.58	12.52
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2616459	50.0000	47.068	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1687321			30.45- 90.45	64.49
3.414	3.414 (0.424)	72	173979			0.00- 35.68	6.65
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	459616	50.0000	51.691	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	3266934			767.20- 827.20	710.80
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	2024181	50.0000	54.410	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	995585			21.00- 81.00	49.18
10.547	10.547 (1.064)	55	2247686			91.46- 151.46	111.04

Report Date: 16-Oct-2007 15:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101604.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 16-OCT-2007
Calibration Time: 13:36
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	528265	316959	739571	432048	-18.21
92 1,4-Difluorobenze	2048855	1229313	2868397	1679925	-18.01
125 Chlorobenzene-d5	1575261	945157	2205365	1316846	-16.40

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

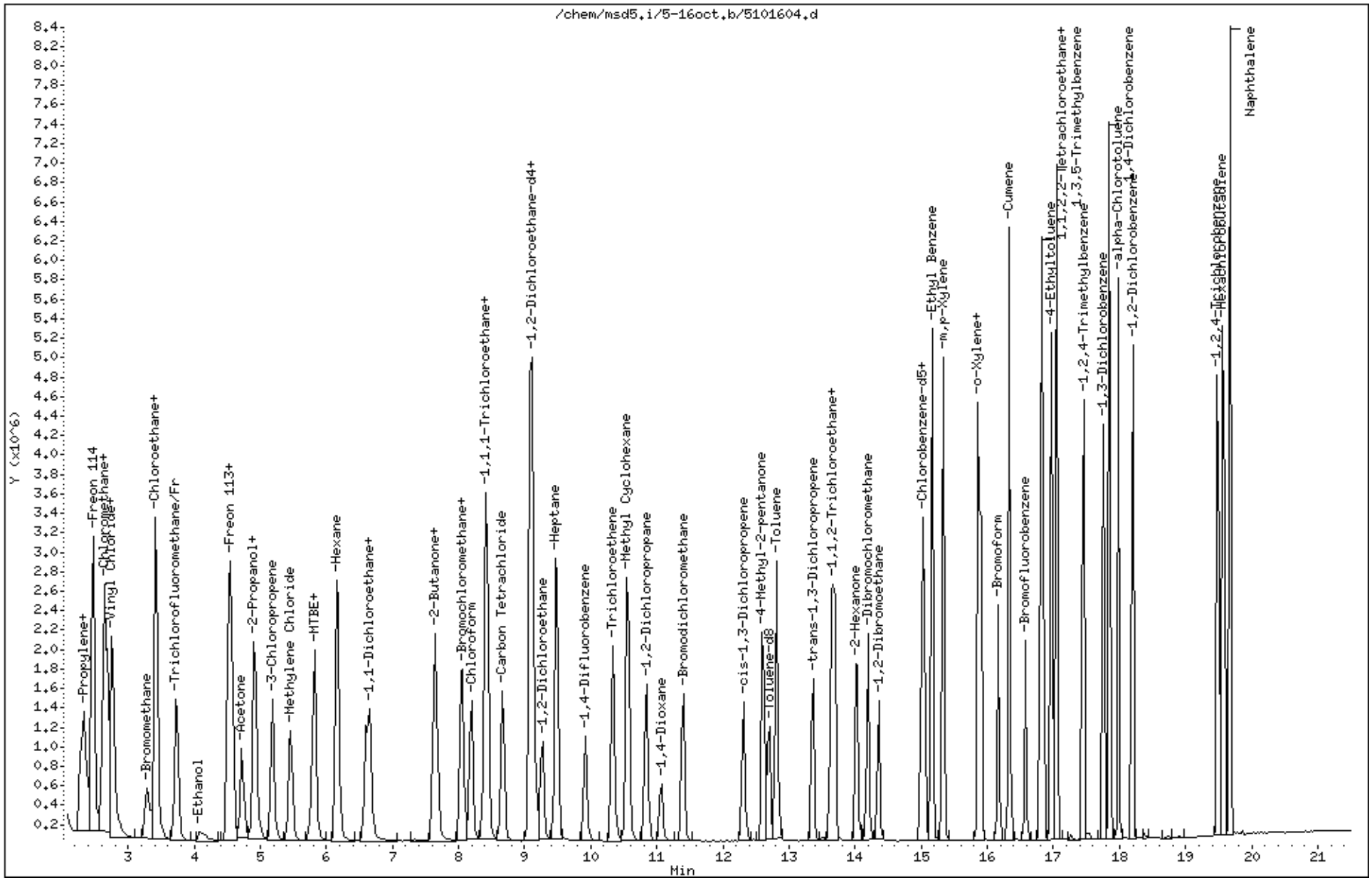
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0175

Data File: /chem/msd5.i/5-16oct.b/5101604.d
Date : 16-OCT-2007 14:49
Client ID: CCV-1
Sample Info: 100ml #1576-18A

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0710188-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 02:04 PM**	

Compound	%Recovery
Freon 12	113
Freon 114	106
Vinyl Chloride	120
Bromomethane	117
Chloroethane	109
Freon 11	111
1,1-Dichloroethene	127
Freon 113	118
Methylene Chloride	111
1,1-Dichloroethane	120
cis-1,2-Dichloroethene	121
Chloroform	114
1,1,1-Trichloroethane	109
Carbon Tetrachloride	108
Benzene	111
1,2-Dichloroethane	96
Trichloroethene	106
1,2-Dichloropropane	112
cis-1,3-Dichloropropene	118
Toluene	123
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	111
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	112
Chlorobenzene	110
Ethyl Benzene	114
m,p-Xylene	116
o-Xylene	126
Styrene	117
1,1,2,2-Tetrachloroethane	116
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	96
1,3-Butadiene	109
Hexane	118
Cyclohexane	132

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0710188-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5101603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/16/07 02:04 PM**	

Compound	%Recovery
Heptane	122
Bromodichloromethane	105
Dibromochloromethane	110
Cumene	116
Propylbenzene	119
Chloromethane	98
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	84
Acetone	116
Carbon Disulfide	125
2-Propanol	113
trans-1,2-Dichloroethene	116
2-Butanone (Methyl Ethyl Ketone)	143 Q
Tetrahydrofuran	104
1,4-Dioxane	116
4-Methyl-2-pentanone	117
2-Hexanone	115
Bromoform	106
4-Ethyltoluene	119
Ethanol	133
Methyl tert-butyl ether	112
3-Chloropropene	129
2,2,4-Trimethylpentane	124
Naphthalene	89

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	96	70-130

Report Date: 16-Oct-2007 15:10

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-16oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	56.445	112.89	70-130
9 Freon 114	50.000	53.095	106.19	70-130
10 Chloromethane	50.000	49.248	98.50	70-130
13 Vinyl Chloride	50.000	60.293	120.59	70-130
12 1,3-Butadiene	50.000	54.373	108.75	60-140
15 Bromomethane	50.000	58.401	116.80	70-130
19 Chloroethane	50.000	54.335	108.67	70-130
20 Trichlorofluoromet	50.000	55.386	110.77	70-130
26 Ethanol	50.000	66.371	132.74	60-140
30 Freon 113	50.000	58.877	117.75	70-130
31 1,1-Dichloroethene	50.000	63.690	127.38	70-130
35 Carbon Disulfide	50.000	62.677	125.35	60-140
32 Acetone	50.000	57.864	115.73	60-140
36 2-Propanol	50.000	56.334	112.67	60-140
38 3-Chloropropene	50.000	64.618	129.24	60-140
43 Methylene Chloride	50.000	55.647	111.29	70-130
46 MTBE	50.000	55.963	111.93	60-140
47 trans-1,2-Dichloro	50.000	58.118	116.24	60-140
51 Hexane	50.000	58.862	117.73	60-140
55 1,1-Dichloroethane	50.000	59.933	119.87	70-130
66 cis-1,2-Dichloroet	50.000	60.690	121.38	70-130
67 2-Butanone	50.000	71.646	143.29*	60-140
70 Tetrahydrofuran	50.000	52.011	104.02	60-140
72 Chloroform	50.000	56.770	113.54	70-130
74 Cyclohexane	50.000	66.211	132.42	60-140
75 1,1,1-Trichloroeth	50.000	54.511	109.02	70-130
56 Vinyl Acetate	50.000	60.800	121.60	60-140
77 Carbon Tetrachlori	50.000	54.209	108.42	70-130
80 2,2,4-Trimethylpen	50.000	61.812	123.63	60-140
81 Benzene	50.000	55.589	111.18	70-130
85 1,2-Dichloroethane	50.000	48.271	96.54	70-130
90 Heptane	50.000	61.216	122.43	60-140
93 Trichloroethene	50.000	53.173	106.35	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	55.998	112.00	70-130
99 1,4-Dioxane	50.000	57.825	115.65	60-140
100 Bromodichlorometha	50.000	52.566	105.13	60-140
103 cis-1,3-Dichloropr	50.000	58.913	117.83	70-130
106 4-Methyl-2-pentano	50.000	58.715	117.43	60-140
108 Toluene	50.000	61.500	123.00	70-130
113 trans-1,3-Dichloro	50.000	55.776	111.55	70-130
114 1,1,2-Trichloroeth	50.000	55.559	111.12	70-130
116 Tetrachloroethene	50.000	53.235	106.47	70-130
119 2-Hexanone	50.000	57.325	114.65	60-140
120 Dibromochlorometha	50.000	54.983	109.97	60-140
122 1,2-Dibromoethane	50.000	56.251	112.50	70-130
126 Chlorobenzene	50.000	55.234	110.47	70-130
128 Ethyl Benzene	50.000	57.099	114.20	70-130
130 m,p-Xylene	50.000	57.758	115.52	70-130
132 o-Xylene	50.000	62.911	125.82	70-130
133 Styrene	50.000	58.516	117.03	70-130
134 Bromoform	50.000	52.990	105.98	60-140
136 Cumene	50.000	58.222	116.45	60-140
141 1,1,2,2-Tetrachlor	50.000	57.940	115.88	70-130
142 Propylbenzene	50.000	59.376	118.75	60-140
144 4-Ethyltoluene	50.000	59.600	119.20	60-140
147 1,3,5-Trimethylben	50.000	55.086	110.17	70-130
152 1,2,4-Trimethylben	50.000	55.316	110.63	70-130
155 1,3-Dichlorobenzen	50.000	51.403	102.81	70-130
156 1,4-Dichlorobenzen	50.000	53.313	106.63	70-130
157 alpha-Chlorotoluen	50.000	61.736	123.47	70-130
159 1,2-Dichlorobenzen	50.000	47.923	95.85	70-130
163 1,2,4-Trichloroben	50.000	42.452	84.90	70-130
164 Hexachlorobutadien	50.000	42.222	84.44	70-130
6 Propylene	50.000	54.040	108.08	70-130
165 Naphthalene	50.000	44.573	89.15	60-140
11 Butane	50.000	57.702	115.40	70-130
17 Isopentane	50.000	50.166	100.33	70-130
94 Methyl Cyclohexane	50.000	61.529	123.06	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	22.477	89.91	70-130
$ 107 Toluene-d8	25.000	26.249	105.00	70-130
$ 138 Bromofluorobenzene	25.000	23.918	95.67	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-16oct.b/5101603.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 16-OCT-2007 14:04
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1443-350
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-16oct.b/t14q928b.m
Meth Date : 16-Oct-2007 15:09 lrandolp Quant Type: ISTD
Cal Date : 05-OCT-2007 11:18 Cal File: 5100506.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 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	412015	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	331307			50.36- 110.36	80.41
8.059	8.059 (1.000)	49	871724			183.36- 243.36	211.58
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1627308	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	273303			0.00- 46.92	16.79
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1293268	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	767011			0.00- 30.00	59.31
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	584913	22.4772	22.477	80.00- 120.00	100.00
9.110	9.137 (1.130)	67	331771			28.76- 88.76	56.72
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1507850	26.2489	26.249	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	146833			0.00- 39.82	9.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	981424			40.57- 100.57	65.09
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	622752	23.9182	23.918	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	1011318			137.35- 197.35	162.39
16.575	16.575 (1.105)	176	604781			67.43- 127.43	97.11
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1560876	54.0397	54.040	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	1078889			37.78- 97.78	69.12
2.280	2.280 (0.283)	39	1081495			36.38- 96.38	69.29
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	2535353	56.4451	56.445	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	832462			2.15- 62.15	32.83
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	2422017	53.0949	53.095	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	761474			2.00- 62.00	31.44
10 Chloromethane					CAS #: 74-87-3		
2.585	2.612 (0.321)	50	1923705	49.2476	49.248	80.00- 120.00	100.00
2.585	2.612 (0.321)	52	585729			0.00- 59.05	30.45
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1915021	60.2931	60.293	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	603161			0.94- 60.94	31.50
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1660332	54.3733	54.373	80.00- 120.00	100.00
2.750	2.750 (0.341)	39	1805858			76.94- 136.94	108.76
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	1240375	58.4014	58.401	80.00- 120.00	100.00
3.276	3.276 (0.406)	96	1190882			63.23- 123.23	96.01
19 Chloroethane					CAS #: 75-00-3		
3.386	3.414 (0.420)	64	950724	54.3355	54.335	80.00- 120.00	100.00
3.386	3.414 (0.420)	49	251168			0.00- 59.42	26.42
3.386	3.414 (0.420)	66	277452			0.00- 59.02	29.18
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	2865283	55.3859	55.386	80.00- 120.00	100.00
3.718	3.718 (0.461)	103	1873664			34.36- 94.36	65.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.077 (0.506)	45	693563	66.3712	66.371	80.00- 120.00	100.00
4.078	4.133 (0.506)	43	130989			0.00- 48.45	18.89
4.078	4.105 (0.506)	46	277688			13.44- 73.44	40.04
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1992399	58.8771	58.877	80.00- 120.00	100.00
4.520	4.520 (0.561)	153	1256765			31.74- 91.74	63.08
4.520	4.520 (0.561)	101	2763339			108.17- 168.17	138.69
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2682372	63.6901	63.690	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1547553			27.54- 87.54	57.69
4.575	4.575 (0.568)	98	986824			6.75- 66.75	36.79
32 Acetone					CAS #: 67-64-1		
4.714	4.713 (0.585)	58	901953	57.8640	57.864	80.00- 120.00	100.00
4.714	4.713 (0.585)	43	2697139			280.82- 340.82	299.03
36 2-Propanol					CAS #: 67-63-0		
4.907	4.935 (0.609)	45	3123880	56.3345	56.334	80.00- 120.00	100.00
4.907	4.935 (0.609)	43	644256			0.00- 51.03	20.62
4.907	4.935 (0.609)	59	111088			0.00- 33.25	3.56
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	4291866	62.6767	62.677	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.183 (0.643)	76	692674	64.6184	64.618	80.00- 120.00	100.00
5.184	5.183 (0.643)	41	2573081			398.31- 458.31	371.47
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.460 (0.674)	49	2123044	55.6469	55.647	80.00- 120.00	100.00
5.432	5.460 (0.674)	84	1299497			31.16- 91.16	61.21
5.432	5.460 (0.674)	51	643683			0.41- 60.41	30.32
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1049000	55.9628	55.963	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	330318			0.09- 60.09	31.49
5.764	5.764 (0.715)	41	358755			7.35- 67.35	34.20
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.819 (0.722)	96	1545875	58.1179	58.118	80.00- 120.00	100.00
5.820	5.819 (0.722)	61	2396571			127.48- 187.48	155.03
5.820	5.819 (0.722)	98	968109			33.25- 93.25	62.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	3056974	58.8626	58.862	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	2117449			43.10- 103.10	69.27
6.151	6.179 (0.763)	86	452233			0.00- 43.40	14.79
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2767619	59.9330	59.933	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	838735			0.17- 60.17	30.31
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	657736	71.6462	71.646	80.00- 120.00	100.00(R)
7.644	7.672 (0.949)	43	3535528			505.36- 565.36	537.53
7.672	7.672 (0.952)	57	259796			13.65- 73.65	39.50
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1978070	60.6905	60.690	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	1378606			40.90- 100.90	69.69
7.617	7.617 (0.945)	98	892402			13.82- 73.82	45.11
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	2120409	52.0115	52.011	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	561097			0.00- 57.44	26.46
8.031	8.031 (0.997)	72	633309			0.00- 55.26	29.87
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	2296870	56.7704	56.770	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1505866			35.23- 95.23	65.56
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.419	8.446 (1.045)	97	2196661	54.5108	54.511	80.00- 120.00	100.00
8.419	8.446 (1.045)	99	1396543			33.79- 93.79	63.58
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.418 (1.045)	84	1849293	66.2111	66.211	80.00- 120.00	100.00
8.419	8.418 (1.045)	56	2828940			123.89- 183.89	152.97
8.391	8.418 (1.041)	41	1562533			53.86- 113.86	84.49
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.677 (0.825)	86	333909	60.8000	60.800	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	4277147			1380.92-1440.92	1280.93
6.649	6.649 (0.825)	42	318632			74.35- 134.35	95.42
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1823012	54.2086	54.209	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1948570			74.67- 134.67	106.89

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	8244322	61.8125	61.812	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2683672			2.94- 62.94	32.55
9.110	9.110 (1.130)	41	2098778			0.00- 58.32	25.46
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	3831347	55.5888	55.589	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	881562			0.00- 53.11	23.01
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1697412	48.2710	48.271	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	544898			1.72- 61.72	32.10
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	447701	61.2156	61.216	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	3332639			796.32- 856.32	744.39
9.469	9.497 (0.955)	71	1325647			255.07- 315.07	296.10
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1465122	53.1728	53.173	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1416762			64.77- 124.77	96.70
10.326	10.326 (1.042)	97	978534			34.46- 94.46	66.79
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1421454	55.9985	55.998	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	989411			40.22- 100.22	69.61
10.824	10.852 (1.092)	41	963593			37.52- 97.52	67.79
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	817342	57.8254	57.825	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	756456			60.27- 120.27	92.55
11.073	11.073 (1.117)	57	231576			1.20- 61.20	28.33
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	2087544	52.5656	52.566	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1312317			34.58- 94.58	62.86
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1525219	58.9127	58.913	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	477198			1.04- 61.04	31.29
12.317	12.317 (1.243)	39	1096026			38.30- 98.30	71.86
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	1256116	58.7150	58.715	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	3522351			271.12- 331.12	280.42
12.594	12.594 (1.271)	85	426891			3.14- 63.14	33.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	3899944	61.5003	61.500	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	2300707			28.99- 88.99	58.99
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1510628	55.7764	55.776	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	470398			1.75- 61.75	31.14
13.368	13.368 (0.891)	39	1007344			37.97- 97.97	66.68
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1250139	55.5595	55.559	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	795870			31.87- 91.87	63.66
13.644	13.644 (0.910)	83	1069555			54.03- 114.03	85.55
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	1456339	53.2354	53.235	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	1165382			50.65- 110.65	80.02
13.700	13.700 (0.913)	131	1122520			47.16- 107.16	77.08
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.031 (0.934)	58	1679437	57.3252	57.325	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	3336520			167.06- 227.06	198.67
14.031	14.031 (0.935)	100	259666			0.00- 45.43	15.46
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1793825	54.9831	54.983	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1373900			47.68- 107.68	76.59
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1837040	56.2510	56.251	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1741935			65.89- 125.89	94.82
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.054 (1.002)	112	2810231	55.2345	55.234	80.00- 120.00	100.00
15.027	15.054 (1.002)	114	893087			2.08- 62.08	31.78
15.027	15.027 (1.002)	77	1760633			31.91- 91.91	62.65
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1547792	57.0995	57.099	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	5127899			309.29- 369.29	331.30
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1927444	57.7586	57.758	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	4107033			189.13- 249.13	213.08
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1829200	62.9109	62.911	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	4094077			200.06- 260.06	223.82
133 Styrene					CAS #: 100-42-5		
15.912	15.911 (1.061)	104	2782139	58.5155	58.516	80.00- 120.00	100.00
15.912	15.911 (1.061)	78	1444576			21.45- 81.45	51.92
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1548477	52.9902	52.990	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	817953			22.79- 82.79	52.82
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	2686174	57.9399	57.940	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1726245			34.38- 94.38	64.26
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	5554716	59.6003	59.600	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1600203			0.00- 59.74	28.81
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	4951307	55.0859	55.086	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	2303207			16.12- 76.12	46.52
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	4089529	55.3158	55.316	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1901841			16.16- 76.16	46.51
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2785437	51.4030	51.403	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1794351			33.90- 93.90	64.42
17.764	17.764 (1.184)	111	1141504			10.87- 70.87	40.98
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	3289016	53.3134	53.313	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	2048647			33.48- 93.48	62.29
17.847	17.847 (1.190)	111	1420644			14.34- 74.34	43.19
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	4918191	61.7359	61.736	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	928062			0.00- 48.72	18.87
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2823312	47.9229	47.923	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1788508			32.89- 92.89	63.35
18.206	18.206 (1.214)	111	1143308			9.78- 69.78	40.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1786582	42.4518	42.452	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1675346			64.71- 124.71	93.77
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1323838	42.2223	42.222	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	845172			33.40- 93.40	63.84
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	6707969	59.3756	59.376	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	1396367			0.00- 51.88	20.82
16.824	16.824 (1.122)	105	223828			0.00- 33.52	3.34
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	5542460	58.2226	58.222	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1495450			0.00- 55.75	26.98
16.326	16.326 (1.088)	51	763601			0.00- 45.19	13.78
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	6003828	44.5728	44.573	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	735467			0.00- 42.58	12.25
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2659346	50.1658	50.166	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1707838			30.45- 90.45	64.22
3.414	3.414 (0.424)	72	163482			0.00- 35.68	6.15
11 Butane					CAS #: 106-97-8		
2.668	2.695 (0.331)	58	489272	57.7021	57.702	80.00- 120.00	100.00
2.668	2.695 (0.331)	43	3444614			767.20- 827.20	704.03
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.547 (1.064)	83	2217333	61.5289	61.529	80.00- 120.00	100.00
10.548	10.547 (1.064)	98	1078323			21.00- 81.00	48.63
10.548	10.547 (1.064)	55	2390056			91.46- 151.46	107.79

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5101603.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-16oct.b/t14q928b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 16-OCT-2007
Calibration Time: 14:49
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	432048	259229	604867	412015	-4.64
92 1,4-Difluorobenze	1679925	1007955	2351895	1627308	-3.13
125 Chlorobenzene-d5	1316846	790108	1843584	1293268	-1.79

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

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

Data File: /chem/msd5.i/5-16oct.b/5101603.d

Date : 16-OCT-2007 14:04

Client ID: LCS-1

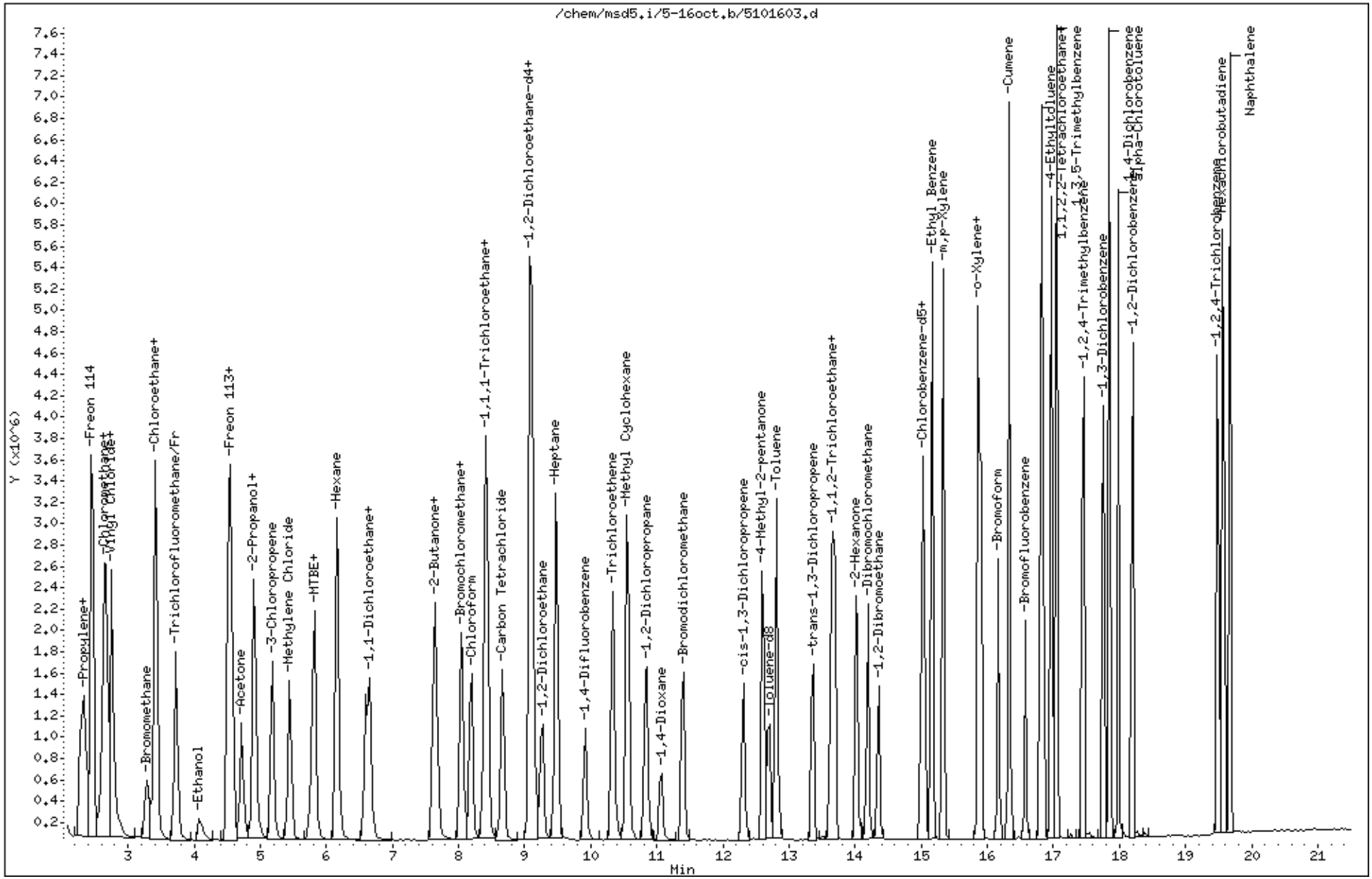
Sample Info: 50ml #1443-350

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53



@ Air Toxics Ltd.

MSD-5

Logbook #: 1586

0190

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.55
75	30.0 – 60.0% of mass 95	46.72
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.42
173	Less than 2.0% of mass 174	(0.75)[1]
174	Greater than 50.0% of mass 95	55.43
175	5.0 – 9.0% of mass 174	(7.18)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.67)[1] ✓
177	5.0 – 9.0% of mass 176	(6.39)[2]

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

Verify 176/174 m/z Ratio: 120424/122060 x 100 = 98.66

BFB Injection Date: 10/16/07
BFB Injection Time: 1309
BFB File ID: 5101601
Tekmar Purge Flow: 12.4 ml/min
Vacuum: 3.20 x 10^-6

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 432048	
1,4-DFB 1679925	
CB-d5 1316846	

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

NOAH Cart #: 14 File #: 5101604

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1522872\ )}{(\ 1679925\ )} \times \frac{(\ 25\ )}{(\ 0.8825\ )} = 25.680$

File ID:	5101604
Compound:	Tol-d8
Initials:	UR

Reported Result 25.680

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5101601	BFB Tune Check	14716-65	50ng	2µl	1.00	10/16/07	1304	UR	
2	X	02	CCV-1 (200ppbv)	15716-47	50ppbv	50mL			1336	UR	
3	✓	03	LCS-1 (200ppbv)	1443-350	↓	↓			1404	UR	
4	✓	04	CCV-1 (200ppbv)	15716-1015	↓	100mL			1449	UR	
5	✓	05	Lab Blank	12941	humid	200mL			1618	GS	
6	✓	06	Cart#14 Cart/Leg#1	12944	Humid	200mL			1701	GS	
7	✓	07	Cart#1 Cart/Leg#1	↓	↓	↓			1751	GS	
8	✓	08	07L0988-014	07L03	2.5-5psi	200mL	1.46		1916	GS	
9	✓	09	↓ 02A	25316	8.0psi	↓	1.55		1948	GS	
10	✓	10	↓ 02AA	↓	↓	↓	↓	↓	2020	GS	

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-28sep.b/5092804.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 28-SEP-2007 09:58
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-28sep.b/bfb30.m
Meth Date : 28-Sep-2007 09:50 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.803	3.900	-0.097	95	2293930			100.00- 100.00	100.00
3.803	3.900	-0.097	50	682265			15.00- 40.00	29.74
3.803	3.900	-0.097	75	1129344			30.00- 60.00	49.23
3.803	3.900	-0.097	96	148605			5.00- 9.00	6.48
3.803	3.900	-0.097	173	11143			0.00- 2.00	0.82
3.803	3.900	-0.097	174	1352021			50.00- 100.00	58.94
3.803	3.900	-0.097	175	94903			5.00- 9.00	7.02
3.803	3.900	-0.097	176	1295872			95.00- 101.00	95.85
3.803	3.900	-0.097	177	87544			5.00- 9.00	6.76

Data File: /chem/msd5.i/5-28sep.b/5092804.d

Date : 28-SEP-2007 09:58

Client ID: BFB

Instrument: msd5.i

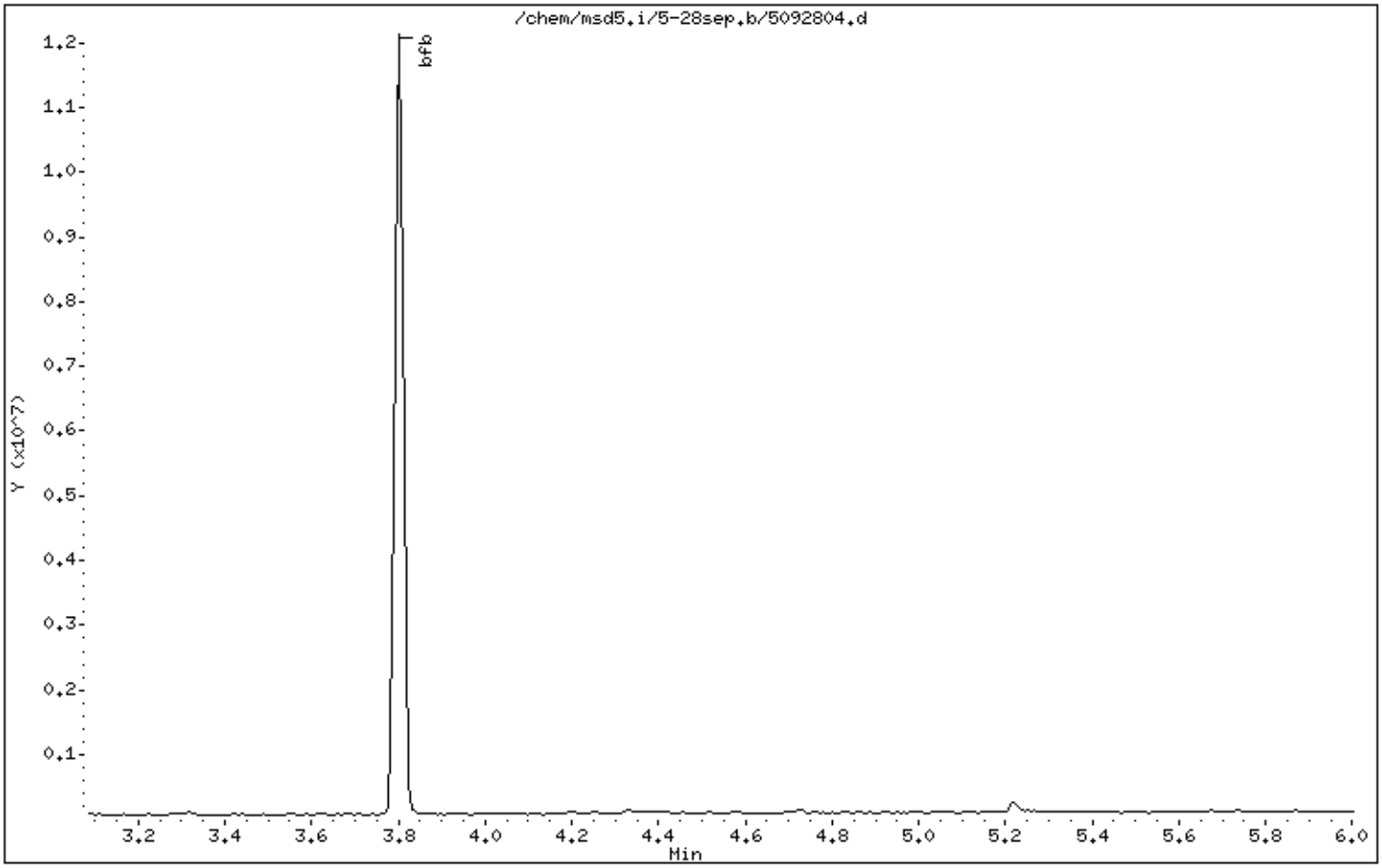
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-28sep.b/5092804.d

Date : 28-SEP-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

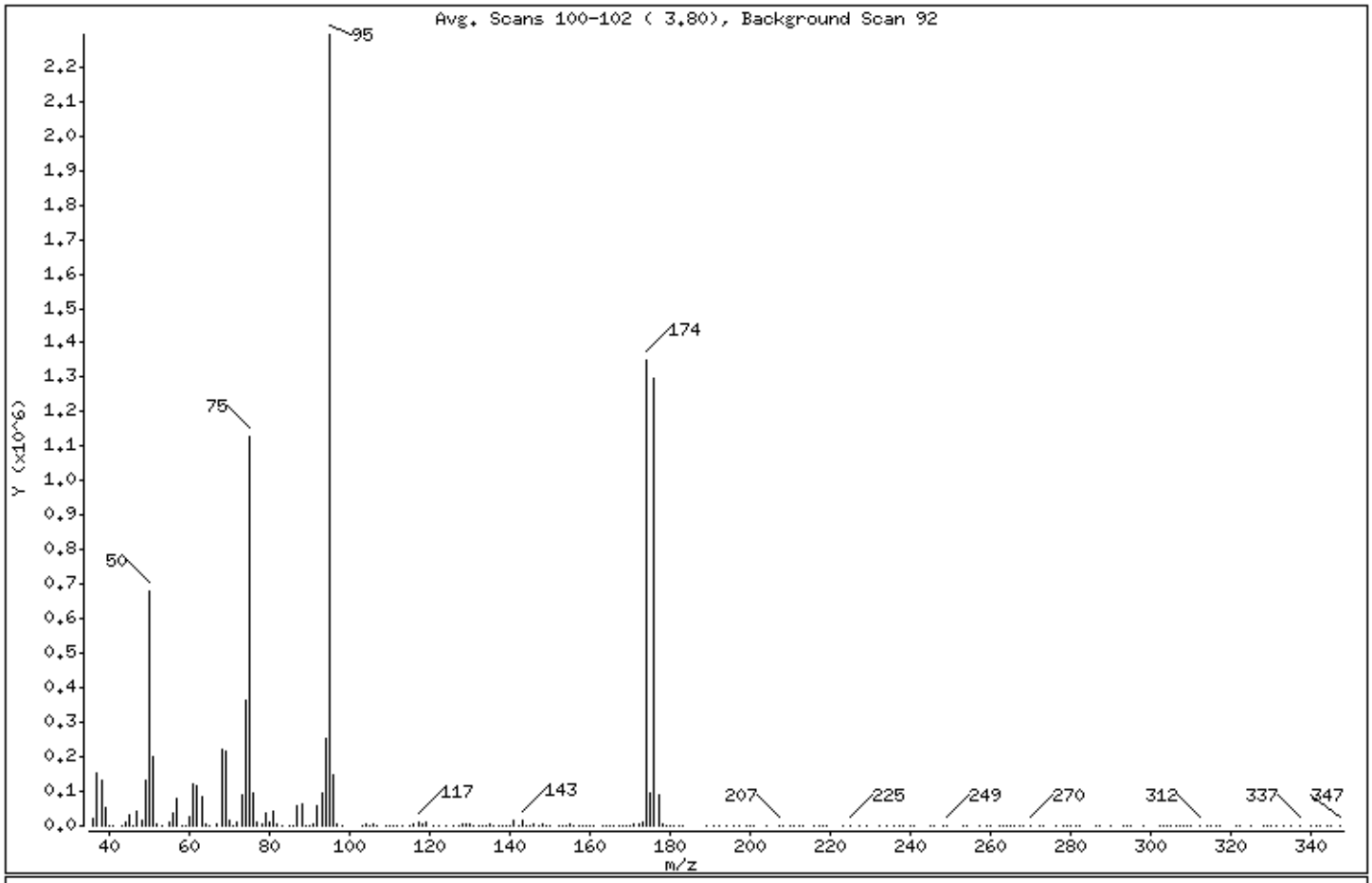
Volume Injected (uL): 1.0

Operator: lmr

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	29.74
75	30.00 - 60.00% of mass 95	49.23
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.49 (0.82)
174	50.00 - 100.00% of mass 95	58.94
175	5.00 - 9.00% of mass 174	4.14 (7.02)
176	95.00 - 101.00% of mass 174	56.49 (95.85)
177	5.00 - 9.00% of mass 176	3.82 (6.76)

Date : 28-SEP-2007 09:58

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5092804.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	22440	97.00	3062	165.00	342	259.00	242
37.00	151488	98.00	366	166.00	390	260.00	333
38.00	132288	103.00	457	167.00	400	262.00	135
39.00	51216	104.00	6981	168.00	272	263.00	144
40.00	464	105.00	1741	169.00	1698	264.00	96
41.00	71	106.00	5217	170.00	702	265.00	44
43.00	769	107.00	1567	171.00	3229	266.00	264
44.00	12866	109.00	50	172.00	2679	267.00	38
45.00	29720	110.00	630	173.00	11143	268.00	146
46.00	752	111.00	74	174.00	1351680	270.00	843
47.00	40272	112.00	732	175.00	94896	272.00	161
48.00	16364	113.00	1338	176.00	1295872	273.00	130
49.00	131200	115.00	2126	177.00	87544	276.00	128
50.00	682240	116.00	6185	178.00	3027	278.00	67
51.00	201280	117.00	9248	179.00	302	279.00	223
52.00	7768	118.00	5087	180.00	55	280.00	68
53.00	637	119.00	8962	181.00	285	281.00	15
55.00	8042	121.00	94	182.00	134	282.00	243
56.00	36536	122.00	150	183.00	680	286.00	67
57.00	78528	124.00	1064	189.00	2	287.00	466
58.00	2381	126.00	844	191.00	194	290.00	204
59.00	397	127.00	694	192.00	61	293.00	76
60.00	25368	128.00	5749	194.00	260	294.00	137
61.00	121072	129.00	3059	196.00	94	295.00	53
62.00	116760	130.00	6872	197.00	316	298.00	131
63.00	84992	131.00	2560	199.00	81	302.00	207
64.00	7904	132.00	64	200.00	144	303.00	53
65.00	1258	133.00	229	201.00	221	304.00	202
67.00	4041	134.00	162	204.00	96	305.00	137
68.00	222208	135.00	3596	207.00	832	306.00	67
69.00	214208	136.00	367	208.00	292	307.00	125
70.00	15398	137.00	2180	210.00	211	308.00	188
71.00	976	138.00	61	211.00	172	309.00	149
72.00	11125	139.00	794	212.00	197	310.00	97
73.00	87904	140.00	1119	213.00	71	312.00	337

Date : 28-SEP-2007 09:58

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5092804.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	363008	141.00	16362	216.00	223	314.00	124
75.00	1128960	142.00	1569	217.00	103	315.00	144
76.00	96968	143.00	17856	218.00	54	316.00	183
77.00	8818	144.00	442	219.00	220	317.00	56
78.00	6162	145.00	304	223.00	66	321.00	141
79.00	35928	146.00	2749	225.00	278	322.00	53
80.00	12345	147.00	386	227.00	89	325.00	88
81.00	40960	148.00	4156	229.00	106	328.00	89
82.00	7685	149.00	1316	232.00	147	329.00	135
83.00	482	150.00	1991	234.00	163	330.00	125
85.00	574	152.00	1024	236.00	168	331.00	108
86.00	1681	153.00	1070	237.00	261	333.00	165
87.00	56040	154.00	783	238.00	121	335.00	130
88.00	62992	155.00	4757	240.00	118	337.00	323
89.00	1174	156.00	839	241.00	54	340.00	77
90.00	576	157.00	2438	245.00	85	341.00	188
91.00	6231	158.00	413	246.00	179	342.00	33
92.00	57544	159.00	1520	248.00	71	344.00	184
93.00	93216	160.00	116	249.00	360	345.00	51
94.00	254208	161.00	2281	253.00	190	347.00	59
95.00	2293760	163.00	280	254.00	248		
96.00	148544	164.00	203	257.00	198		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-05oct.b/5100501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 05-OCT-2007 08:45
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65;50 ng
Comment :
Method : /var/chem/msd5.i/5-05oct.b/bfb30.m
Meth Date : 05-Oct-2007 08:36 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.803	3.900	-0.097	95	1656591			100.00- 100.00	100.00
3.803	3.900	-0.097	50	460288			15.00- 40.00	27.79
3.803	3.900	-0.097	75	787648			30.00- 60.00	47.55
3.803	3.900	-0.097	96	105595			5.00- 9.00	6.37
3.803	3.900	-0.097	173	9902			0.00- 2.00	0.97
3.803	3.900	-0.097	174	1022336			50.00- 100.00	61.71
3.803	3.900	-0.097	175	73306			5.00- 9.00	7.17
3.803	3.900	-0.097	176	985092			95.00- 101.00	96.36
3.803	3.900	-0.097	177	69719			5.00- 9.00	7.08

Data File: /chem/msd5.i/5-05oct.b/5100501.d

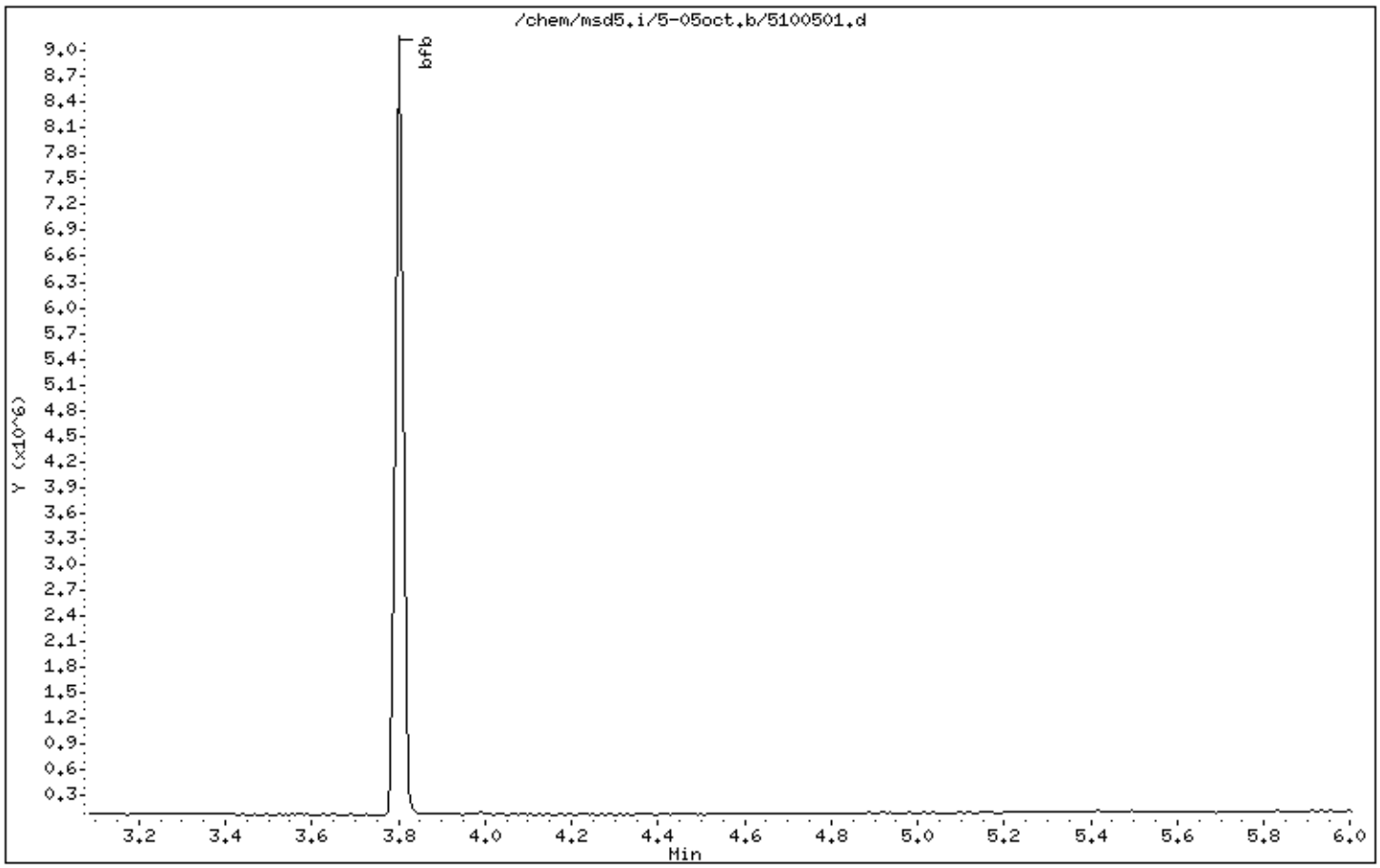
Date : 05-OCT-2007 08:45

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msd5.i/5-05oct.b/5100501.d

Date : 05-OCT-2007 08:45

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

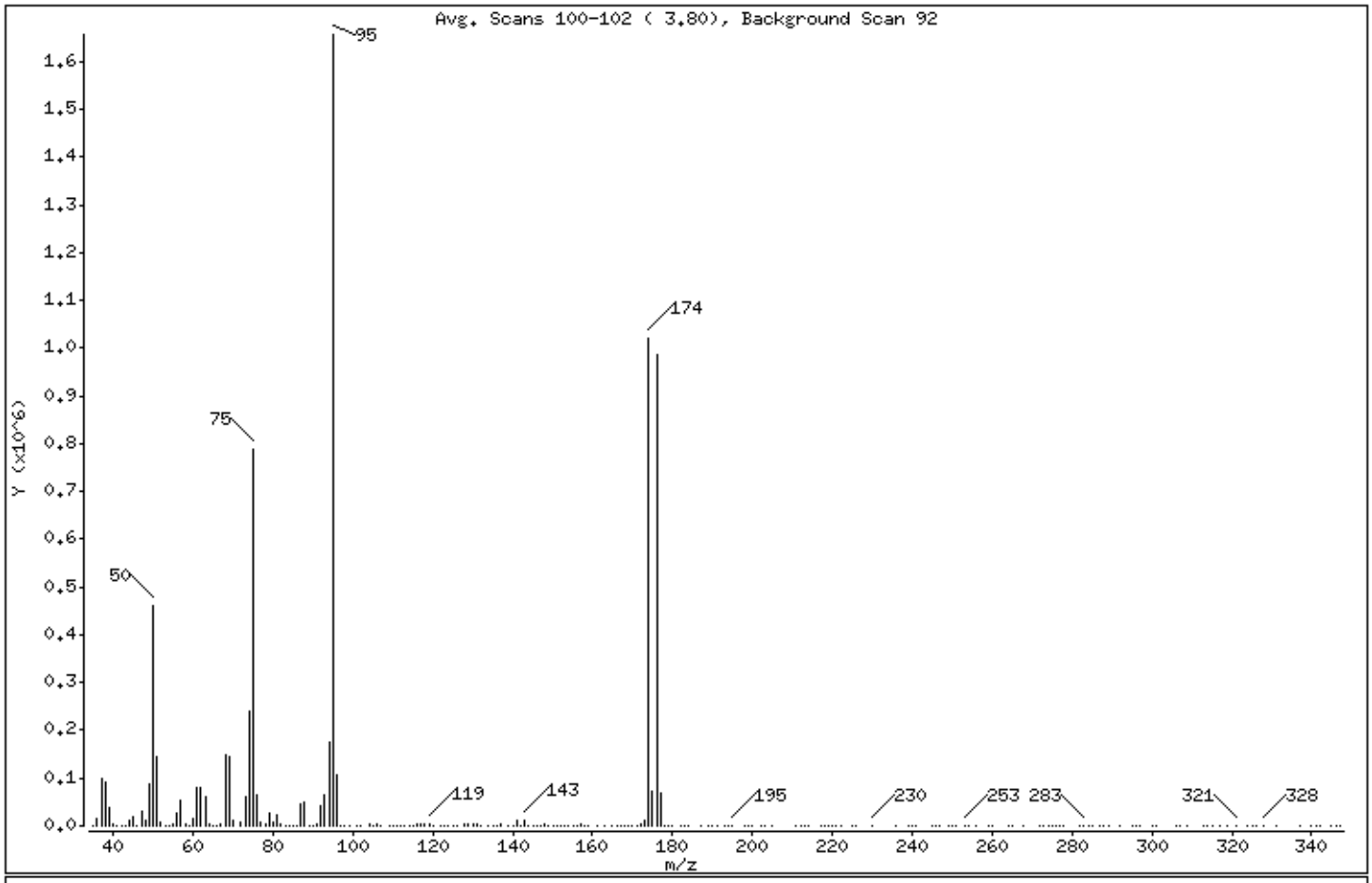
Volume Injected (uL): 1.0

Operator: lmr

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	27.79
75	30.00 - 60.00% of mass 95	47.55
96	5.00 - 9.00% of mass 95	6.37
173	Less than 2.00% of mass 174	0.60 (0.97)
174	50.00 - 100.00% of mass 95	61.71
175	5.00 - 9.00% of mass 174	4.43 (7.17)
176	95.00 - 101.00% of mass 174	59.47 (96.36)
177	5.00 - 9.00% of mass 176	4.21 (7.08)

Date : 05-OCT-2007 08:45

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5100501.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	69	92.00	42720	155.00	1673	245.00	75
36.00	16904	93.00	63856	156.00	355	246.00	179
37.00	97696	94.00	174528	157.00	2280	247.00	172
38.00	91096	95.00	1656320	158.00	123	249.00	159
39.00	38136	96.00	105592	159.00	1604	250.00	122
40.00	2547	97.00	1850	161.00	812	251.00	117
41.00	880	98.00	105	163.00	205	253.00	392
42.00	321	99.00	124	165.00	23	254.00	86
43.00	219	101.00	421	166.00	767	256.00	146
44.00	13176	102.00	443	167.00	79	259.00	201
45.00	20352	104.00	4046	168.00	312	260.00	62
46.00	1382	105.00	1548	169.00	876	264.00	38
47.00	29944	106.00	5581	170.00	771	265.00	129
48.00	12679	107.00	614	171.00	1733	268.00	175
49.00	89440	109.00	186	172.00	2689	272.00	101
50.00	460288	110.00	56	173.00	9902	273.00	376
51.00	143488	111.00	806	174.00	1022336	274.00	307
52.00	5732	112.00	467	175.00	73304	275.00	182
53.00	475	113.00	842	176.00	985088	276.00	100
54.00	355	114.00	192	177.00	69712	277.00	82
55.00	3658	115.00	1091	178.00	1562	278.00	81
56.00	26488	116.00	3191	179.00	265	282.00	176
57.00	53672	117.00	5148	180.00	71	283.00	488
58.00	2388	118.00	2499	182.00	427	284.00	53
59.00	195	119.00	5706	183.00	153	285.00	263
60.00	16920	120.00	116	184.00	178	287.00	306
61.00	81312	122.00	562	187.00	132	288.00	125
62.00	80680	123.00	483	189.00	23	289.00	104
63.00	60296	124.00	856	190.00	197	292.00	224
64.00	5410	125.00	282	191.00	114	295.00	119
65.00	604	126.00	703	193.00	349	296.00	312
66.00	106	128.00	3420	194.00	184	297.00	291
67.00	3581	129.00	2122	195.00	692	300.00	302
68.00	149504	130.00	4291	198.00	135	301.00	268
69.00	144384	131.00	2067	199.00	271	306.00	286

Data File: /chem/msd5.i/5-05oct.b/5100501.d

Date : 05-OCT-2007 08:45

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5100501.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 223

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	10794	132.00	329	200.00	141	307.00	147
72.00	7505	134.00	125	202.00	95	309.00	64
73.00	60136	135.00	1365	203.00	110	313.00	316
74.00	241152	136.00	49	205.00	73	314.00	62
75.00	787648	137.00	2376	211.00	313	315.00	62
76.00	65248	139.00	461	212.00	136	317.00	84
77.00	7616	140.00	105	213.00	141	319.00	61
78.00	5544	141.00	9562	214.00	331	321.00	461
79.00	25744	142.00	1323	217.00	201	324.00	73
80.00	8661	143.00	11129	218.00	51	325.00	218
81.00	23592	144.00	862	219.00	60	326.00	54
82.00	3911	145.00	875	220.00	261	328.00	351
83.00	1039	146.00	1812	221.00	133	331.00	249
84.00	247	147.00	1133	222.00	50	337.00	180
85.00	229	148.00	2349	225.00	82	340.00	182
86.00	1446	149.00	676	226.00	281	341.00	336
87.00	44768	150.00	921	230.00	304	342.00	114
88.00	50752	151.00	316	236.00	133	345.00	91
89.00	364	152.00	1005	239.00	51	346.00	103
90.00	297	153.00	1354	240.00	56	347.00	210
91.00	4092	154.00	1126	241.00	172		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-16oct.b/5101601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 16-OCT-2007 13:09
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #1476-65;50 ng
Comment :
Method : /var/chem/msd5.i/5-16oct.b/bfb30.m
Meth Date : 16-Oct-2007 13:00 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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.796	3.900	-0.104	95	2202518			100.00- 100.00	100.00
3.796	3.900	-0.104	50	606886			15.00- 40.00	27.55
3.796	3.900	-0.104	75	1029074			30.00- 60.00	46.72
3.796	3.900	-0.104	96	141432			5.00- 9.00	6.42
3.796	3.900	-0.104	173	9162			0.00- 2.00	0.75
3.796	3.900	-0.104	174	1220868			50.00- 100.00	55.43
3.796	3.900	-0.104	175	87678			5.00- 9.00	7.18
3.796	3.900	-0.104	176	1204603			95.00- 101.00	98.67
3.796	3.900	-0.104	177	76941			5.00- 9.00	6.39

Data File: /var/chem/msd5.i/5-16oct.b/5101601.d

Date : 16-OCT-2007 13:09

Client ID: BFB

Instrument: msd5.i

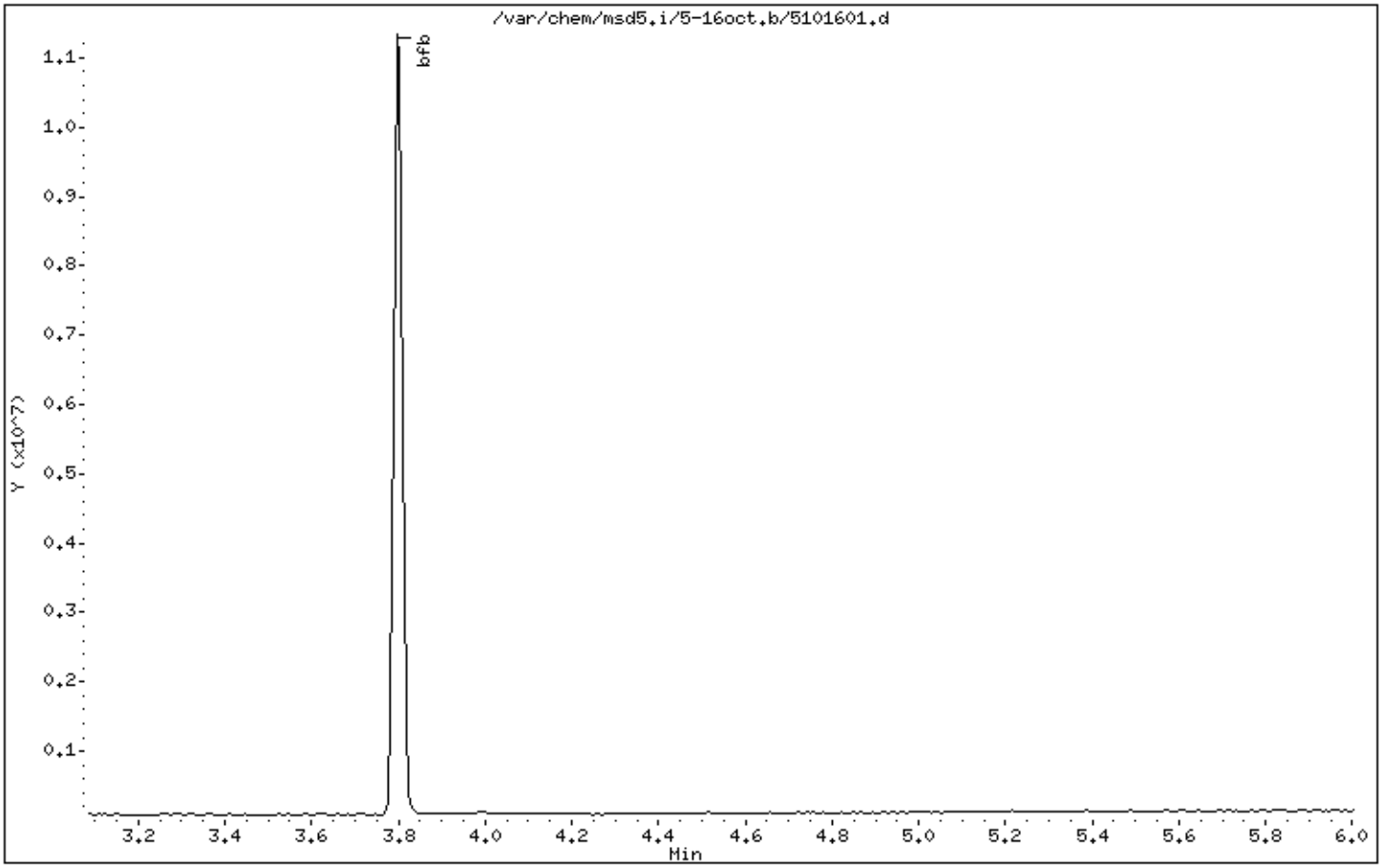
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-16oct.b/5101601.d

Date : 16-OCT-2007 13:09

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

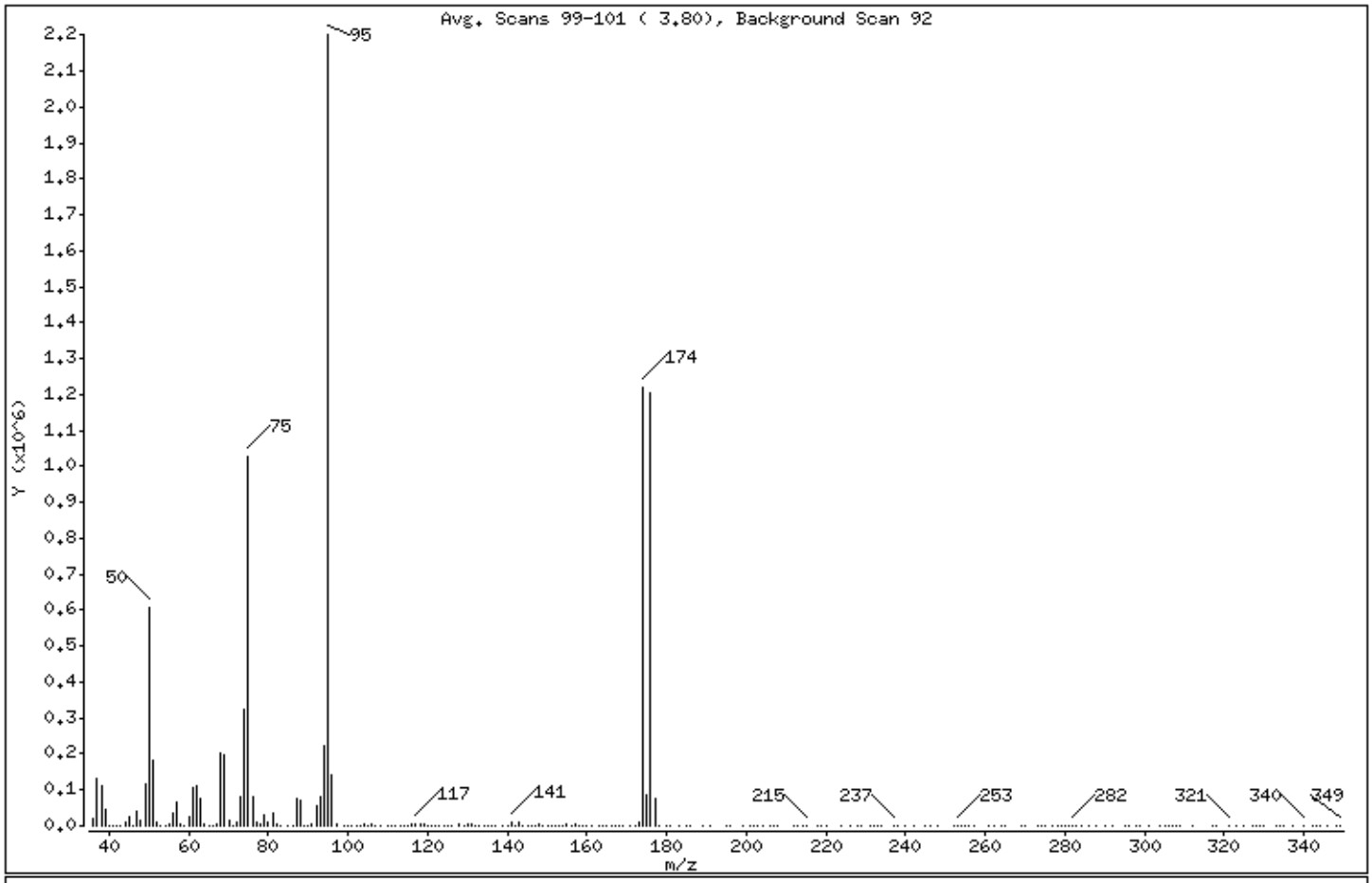
Volume Injected (uL): 1.0

Operator: lmr

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	27.55
75	30.00 - 60.00% of mass 95	46.72
96	5.00 - 9.00% of mass 95	6.42
173	Less than 2.00% of mass 174	0.42 (0.75)
174	50.00 - 100.00% of mass 95	55.43
175	5.00 - 9.00% of mass 174	3.98 (7.18)
176	95.00 - 101.00% of mass 174	54.69 (98.67)
177	5.00 - 9.00% of mass 176	3.49 (6.39)

Date : 16-OCT-2007 13:09

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5101601.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	22560	96.00	141376	159.00	1131	254.00	419
37.00	129392	97.00	4883	160.00	60	255.00	355
38.00	109992	99.00	87	161.00	1089	256.00	78
39.00	44664	100.00	177	163.00	372	257.00	589
40.00	1199	101.00	68	164.00	404	261.00	137
41.00	268	102.00	82	165.00	171	262.00	54
42.00	403	103.00	920	166.00	178	264.00	123
43.00	1014	104.00	4999	167.00	118	265.00	54
44.00	11114	105.00	1640	168.00	987	269.00	235
45.00	26312	106.00	5032	169.00	1030	270.00	171
46.00	1769	107.00	1236	171.00	1801	273.00	123
47.00	39584	108.00	76	172.00	2120	274.00	56
48.00	16472	110.00	648	173.00	9162	275.00	51
49.00	115096	111.00	977	174.00	1220608	277.00	175
50.00	606848	112.00	1090	175.00	87672	278.00	65
51.00	184064	113.00	820	176.00	1204224	279.00	134
52.00	8189	114.00	264	177.00	76936	280.00	69
53.00	514	115.00	1704	178.00	1950	281.00	88
54.00	66	116.00	4508	180.00	275	282.00	406
55.00	6611	117.00	7248	181.00	195	283.00	137
56.00	34848	118.00	5212	183.00	15	284.00	72
57.00	63720	119.00	6118	185.00	187	286.00	126
58.00	2736	120.00	1	186.00	65	288.00	167
59.00	432	121.00	480	189.00	200	290.00	132
60.00	23352	122.00	368	191.00	401	292.00	111
61.00	105552	123.00	495	195.00	199	295.00	153
62.00	109560	124.00	518	196.00	117	296.00	117
63.00	76536	125.00	665	199.00	184	298.00	312
64.00	5967	126.00	1187	201.00	78	299.00	80
65.00	1308	128.00	5818	202.00	220	301.00	117
66.00	280	129.00	2504	203.00	360	304.00	280
67.00	4738	130.00	5440	204.00	145	305.00	81
68.00	200832	131.00	2704	206.00	243	306.00	220
69.00	198720	132.00	179	207.00	99	307.00	216
70.00	13834	133.00	224	208.00	422	308.00	167

Date : 16-OCT-2007 13:09

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5101601.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 234

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	1093	134.00	994	212.00	236	309.00	82
72.00	10928	135.00	1864	213.00	109	312.00	341
73.00	79776	136.00	745	214.00	207	317.00	362
74.00	321984	137.00	1841	215.00	436	318.00	80
75.00	1029056	139.00	397	218.00	230	321.00	504
76.00	82216	140.00	1400	219.00	189	323.00	71
77.00	9974	141.00	12567	220.00	199	325.00	115
78.00	5667	142.00	875	224.00	280	327.00	64
79.00	30024	143.00	12385	226.00	127	328.00	119
80.00	9096	144.00	726	228.00	303	329.00	189
81.00	33184	145.00	1038	229.00	335	330.00	247
82.00	6111	146.00	2053	231.00	69	333.00	176
83.00	1001	147.00	639	232.00	56	334.00	184
85.00	109	148.00	4320	233.00	134	335.00	215
86.00	2043	149.00	1782	234.00	113	337.00	93
87.00	74728	150.00	862	237.00	430	340.00	527
88.00	73272	151.00	204	238.00	351	342.00	161
89.00	453	152.00	626	240.00	100	343.00	175
90.00	240	153.00	1157	242.00	402	344.00	34
91.00	4270	154.00	1051	245.00	304	346.00	63
92.00	56048	155.00	3023	246.00	93	348.00	69
93.00	78592	156.00	996	248.00	212	349.00	111
94.00	223488	157.00	2544	252.00	173		
95.00	2202112	158.00	694	253.00	799		

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 #: 0710188
# of pages (Including Cover): 1

10/22/2007

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 any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

0208

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

Project Info:

P.O. #

Project # 061140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

[X] Normal

[ ] Rush

Specify

Lab I.D.	Field Sample I.D.	CAN #	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS 3 DW	10769	10/4/02 0611 1333	TO-15 + Naphthalene	-29.5	-2	2.5
02A	AMS 4 DW	25316	10/4/02 0617 1329	TO-15 + Naphthalene	-30	-8	8.0

Relinquished By: (Signature) Date/Time 10/4/02 1349

Received By: (Signature) Date/Time 10/4/02 0830

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: used flow controllers included

Initial and final can pressures in inches Hg\

Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	9629 1704 5685		NA	Good	Yes No None	0710188

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0710188

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 10/19/07
Date Completed: 10/18/07
Date Received: 10/5/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS 3 DW	Modified TO-15	10/4/2007	2.5 "Hg	$225.00
02A	AMS 4 UW	Modified TO-15	10/4/2007	8.0 "Hg	$225.00
02AA	AMS 4 UW Lab Duplicate	Modified TO-15	10/4/2007	8.0 "Hg	$0.00
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
	Blue Body Flow Controller (2) @ $35.00 each.	$70.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0710188

A	R	T	M	Q	
☑	☐	☐	☐	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
	☐	☐	☐	☐	The final report has the correct reporting list, special units, and header info.
	☐	☐	☐	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
NA	☐	☐	NA	☐	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 (14day)
	☐	☐	☐	☐ Appropriate data qualifier flags are applied
	☐	☐	☐	☐ Manual integrations for samples and QC are properly documented
☑	☐	☐		☐ Samples analyzed within the project or method specific clock (24hr)
	☐	☐		Retention times have been verified
☑	☐	☐		☐ Appropriate ICAL(s) included
	☐	☐	☐	☐ At least one result per sample is verified against the target quant sheets/raw data

☑	☑	☐		☐ Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐		TICs resemble reference spectra
	☐	☐		TICs between duplicate samples are consistent
NA	☐	☐	☑	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐	Special units for all samples in the final report are correctly calculated
	☐	☐	☐	Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☐	TPH/NMOC (verify calculations and correct reference compound used)
	☐			Chain of Custody scanned correctly
			☐	Verify sample id's vs. chain of custody
☐	☑			Samples pressurized w/ appropriate gas (N_2 or He) ☐ Tedlar Bag only
☐	☑			Final pressure consistent with canister size (6L vs. 1L)
☐	☑			Verify receipt pressures against logbook and Target
☑	☑			Verify canister ID #'s
	☑		☑	Extra printed copies are provided per client profile
	☐		☑	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	☐	☐ Client LUMEN report reviewed for accuracy and completeness

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

A/R: Qmt in CCV + 1 out in LCS (2-Butanone)
Dup on RA

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
CA 10/17/07	R: TJS 10-18-07	10/18/07	

T:

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

Not Applicable