
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 #: 0809069

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	9/19/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0809069

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140 - 8 - 1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	09/04/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	09/16/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS 5	Modified TO-15	7.5 "Hg	5 psi
02A	DW AMS 3	Modified TO-15	8.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 09/17/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0809069

Two 6 Liter Summa Canister samples were received on September 04, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS 5	0809069-01A	9/ 3/2008	9/ 4/2008	NA	12	9/15/2008	NA	Good
DW AMS 3	0809069-02A	9/ 3/2008	9/ 4/2008	NA	12	9/15/2008	NA	Good
Lab Blank	0809069-03A	NA	NA	NA	NA	9/15/2008	NA	Good
CCV	0809069-04A	NA	NA	NA	NA	9/15/2008	NA	Good
LCS	0809069-05A	NA	NA	NA	NA	9/15/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS 5

Lab ID#: 0809069-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.6	17	8.5	41
2-Butanone (Methyl Ethyl Ketone)	0.90	3.4	2.6	10

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Client Sample ID: UW AMS 5

Lab ID#: 0809069-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091515**	**Date of Collection: 9/3/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 9/15/08 07:18 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS 5

Lab ID#: 0809069-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091515**	**Date of Collection: 9/3/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 9/15/08 07:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	17	8.5	41
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	3.4	2.6	10
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	Not Detected	6.7	Not Detected
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	108	70-130

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AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-15sep.b/5091515.d
Lab Smp Id: 0809069-01A
Inj Date : 15-SEP-2008 19:18
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #5550
Misc Info : 7.5"Hg-5psi GEI
Comment :
Method : /chem/msd5.i/5-15sep.b/t14q808c.m
Meth Date : 15-Sep-2008 12:30 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	81 Bromochloromethane					CAS #: 74-97-5		
	14.197	14.169 (1.000)	130	419375	25.0000		80.00- 120.00	100.00
	14.170	14.169 (1.000)	128	331997			27.44- 127.44	79.16
	14.170	14.169 (1.000)	49	1075737			223.25- 323.25	256.51
*	97 1,4-Difluorobenzene					CAS #: 540-36-3		
	15.635	15.635 (1.000)	114	1716726	25.0000		80.00- 120.00	100.00
	15.635	15.635 (1.000)	88	268837			0.00- 65.98	15.66
*	126 Chlorobenzene-d5					CAS #: 3114-55-4		
	19.921	19.921 (1.000)	117	2282589	25.0000		80.00- 120.00	100.00
	19.921	19.921 (1.000)	82	1336546			13.23- 113.23	58.55
$	90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	15.054	15.054 (1.060)	65	737622	25.2842	25.284	80.00- 120.00	100.00
	15.054	15.054 (1.060)	67	350395			0.80- 100.80	47.50
$	113 Toluene-d8					CAS #: 2037-26-5		
	17.902	17.902 (1.145)	98	1996287	25.0113	25.011	80.00- 120.00	100.00
	17.875	17.902 (1.143)	70	222040			0.00- 61.26	11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1325613			16.23- 116.23	66.40
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1457450	26.9700	26.970	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2149647			99.71- 199.71	147.49
21.414	21.414 (1.075)	176	1413389			46.91- 146.91	96.98
45 Acetone					CAS #: 67-64-1		
10.796	10.796 (0.760)	58	152231	9.72802	17.413	80.00- 120.00	100.00
10.796	10.796 (0.760)	43	752317			308.33- 408.33	494.19
75 2-Butanone					CAS #: 78-93-3		
13.866	13.838 (0.977)	72	25361	1.92232	3.441	80.00- 120.00	100.00
13.866	13.838 (0.977)	43	194309			773.74- 873.74	766.17
13.866	13.838 (0.977)	57	11513			5.66- 105.66	45.40

Report Date: 17-Sep-2008 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091515.d
Lab Smp Id: 0809069-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 7.5"Hg-5psi GEI

Calibration Date: 15-SEP-2008
Calibration Time: 10:47
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	386445	231867	541023	419375	8.52
97 1,4-Difluorobenze	1749130	1049478	2448782	1716726	-1.85
126 Chlorobenzene-d5	2322558	1393535	3251581	2282589	-1.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.64	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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: 17-Sep-2008 09:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0809069-01A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 7.5"Hg-5psi GEI

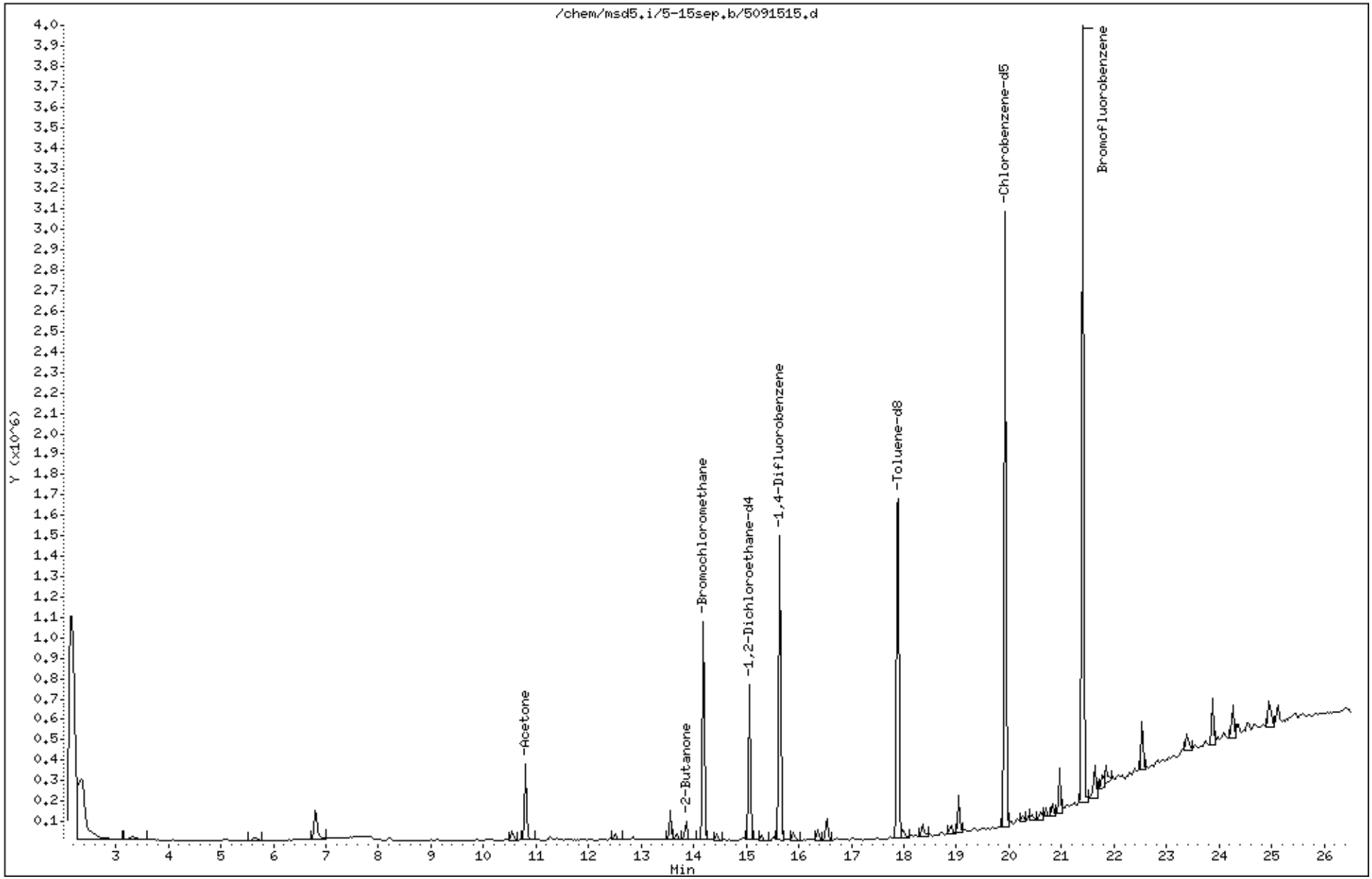
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.284	101.14	70-130
$ 113 Toluene-d8	25.000	25.011	100.05	70-130
$ 137 Bromofluorobenzene	25.000	26.970	107.88	70-130

0013

Data File: /chem/msd5.i/5-15sep.b/5091515.d
Date : 15-SEP-2008 19:18
Client ID:
Sample Info: 200mL #5550

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

Column phase: RTx-624



Data File: /chem/msd5.i/5-15sep.b/5091515.d

Date : 15-SEP-2008 19:18

Client ID:

Instrument: msd5.i

Sample Info: 200mL #5550

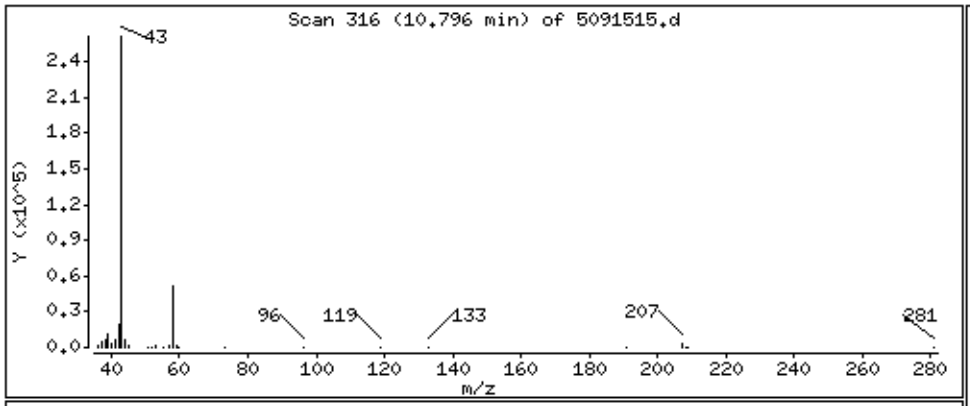
Operator: smd

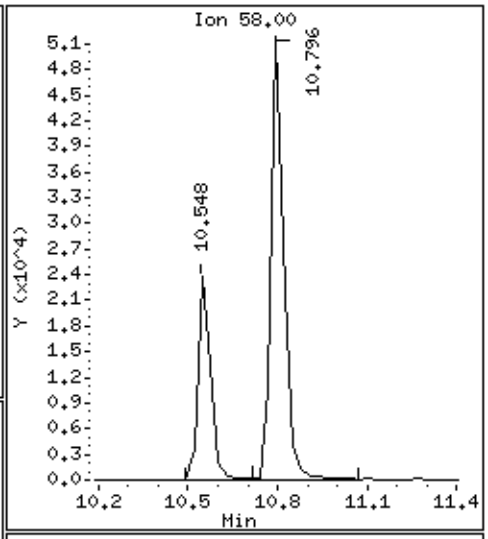
Column phase: RTx-624

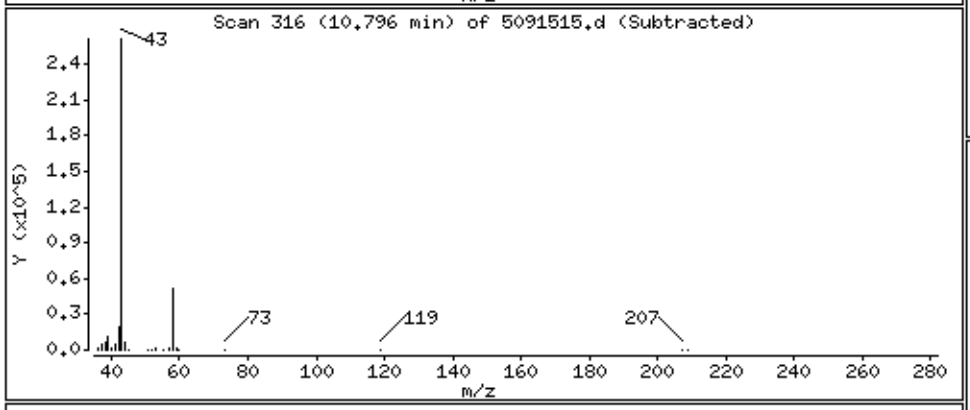
Column diameter: 0.53

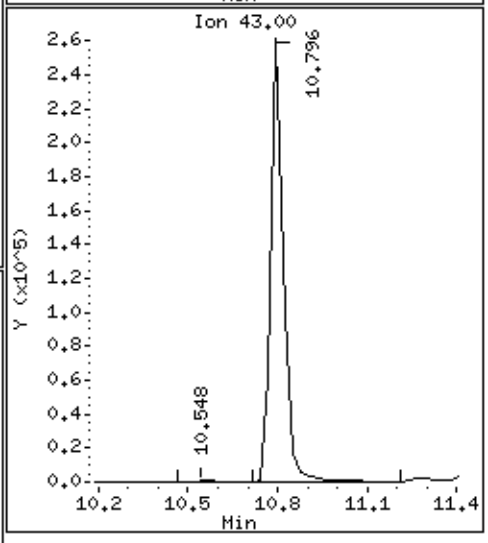
45 Acetone

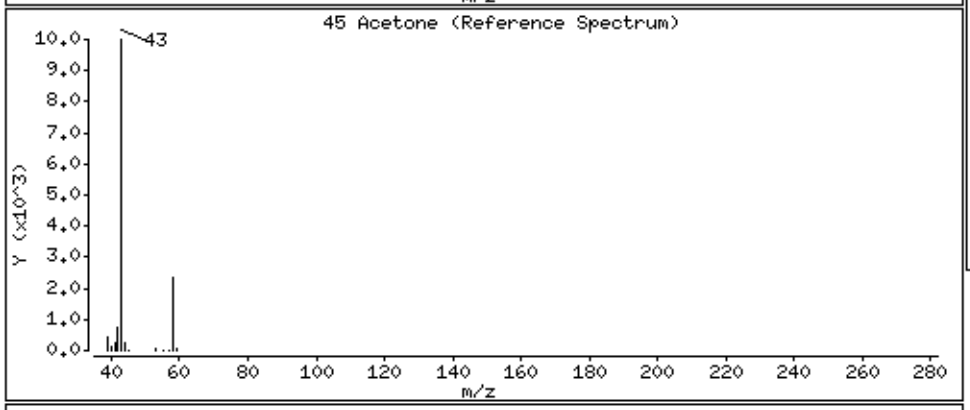
Concentration: 17.413 PPBV

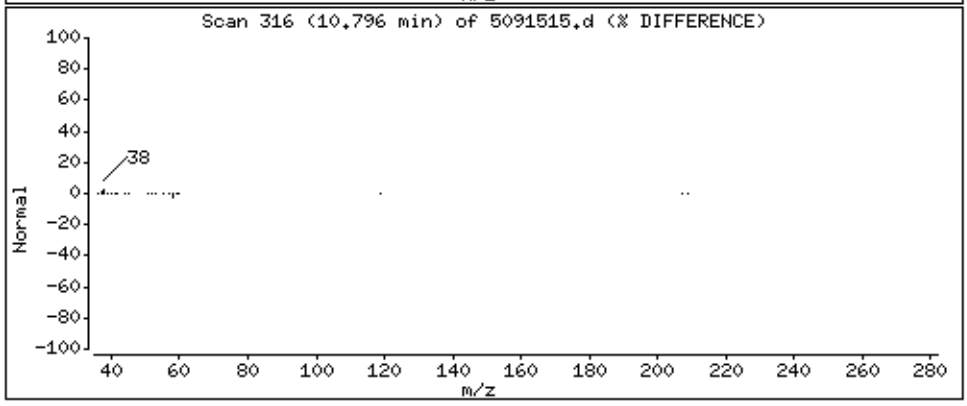












Data File: /chem/msd5.i/5-15sep.b/5091515.d

Date : 15-SEP-2008 19:18

Client ID:

Instrument: msd5.i

Sample Info: 200mL #5550

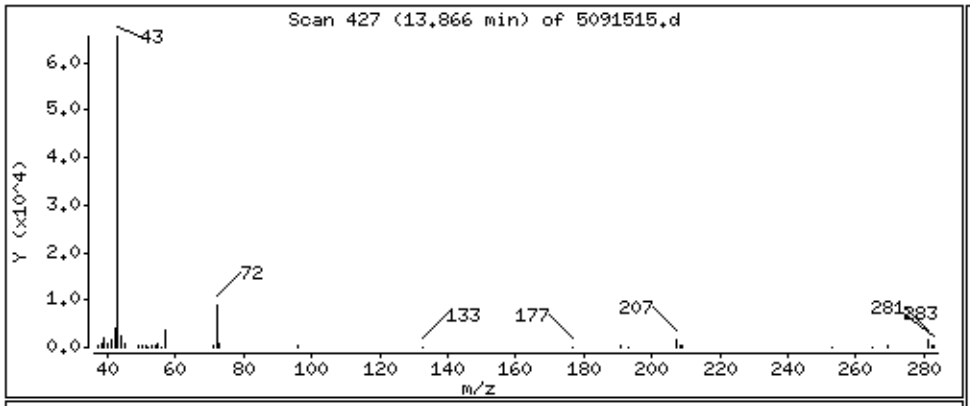
Operator: smd

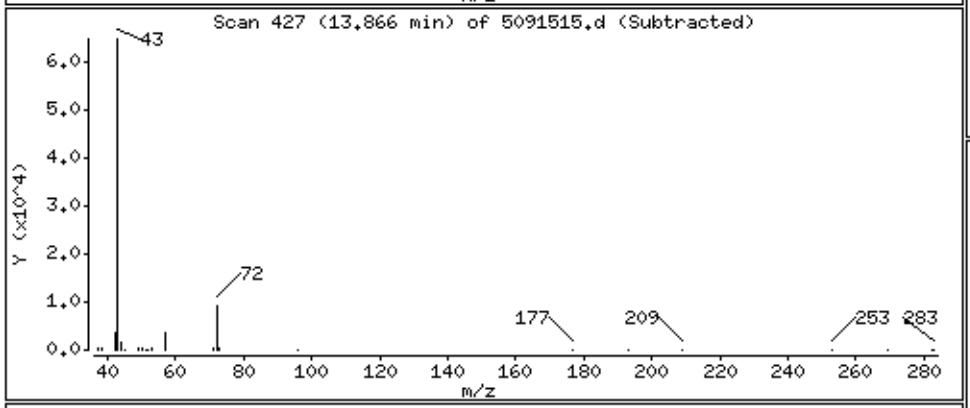
Column phase: RTx-624

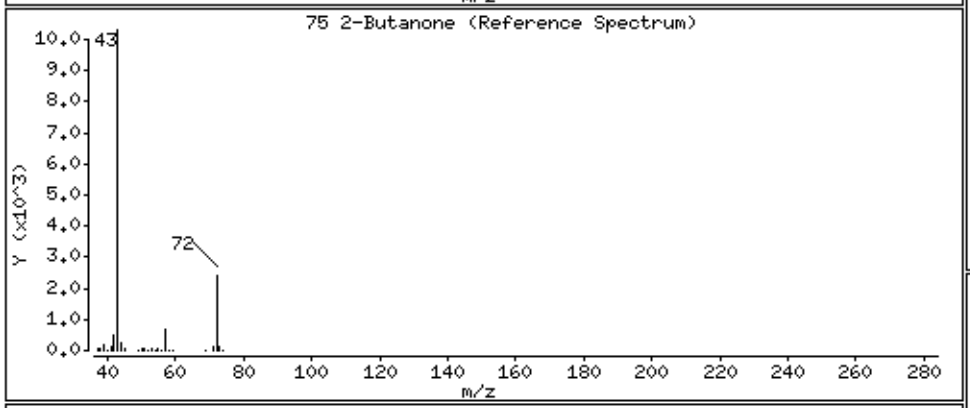
Column diameter: 0.53

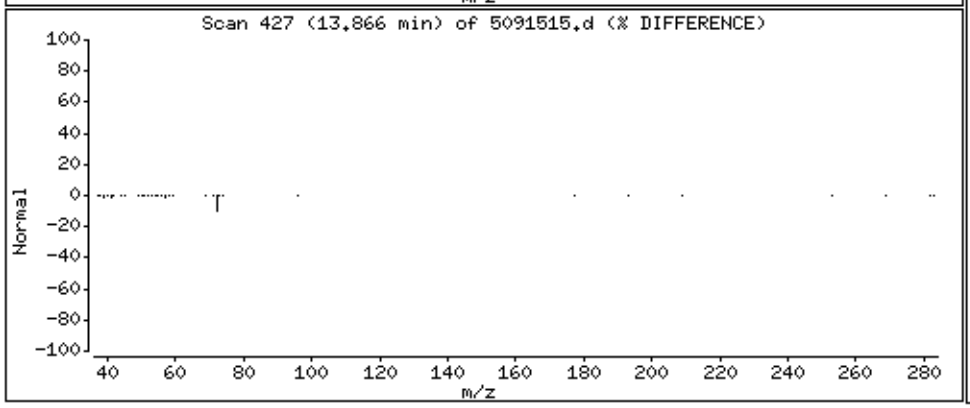
75 2-Butanone

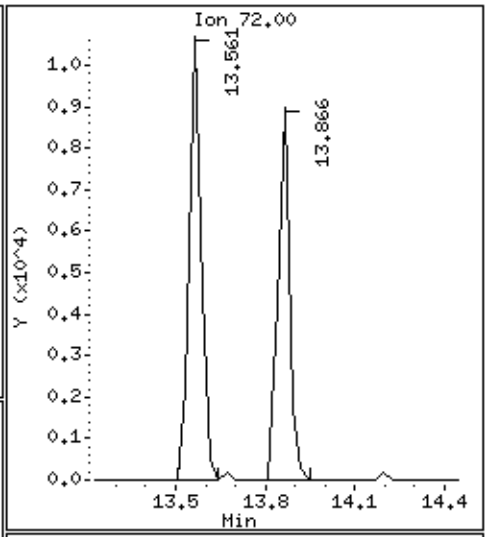
Concentration: 3.441 PPBV

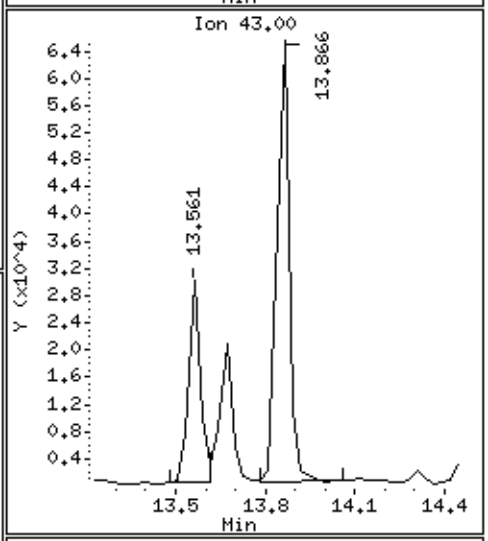


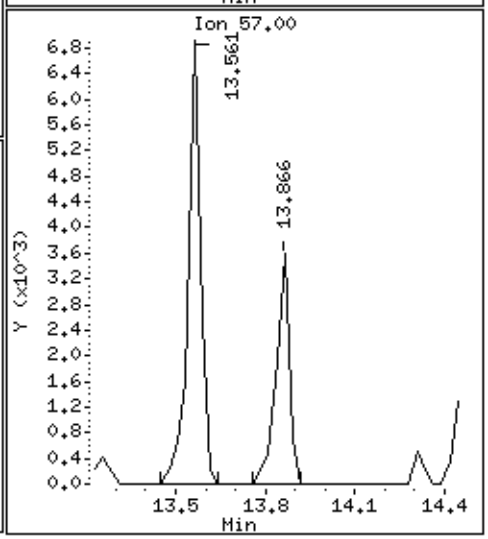












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS 3

Lab ID#: 0809069-02A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS 3

Lab ID#: 0809069-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091514**	**Date of Collection: 9/3/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 9/15/08 06:36 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	Not Detected	3.4	Not Detected
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: DW AMS 3

Lab ID#: 0809069-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091514**	**Date of Collection: 9/3/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 9/15/08 06:36 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	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-15sep.b/5091514.d
Lab Smp Id: 0809069-02A
Inj Date : 15-SEP-2008 18:36
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #12011
Misc Info : 8.0"Hg-5psi GEI
Comment :
Method : /chem/msd5.i/5-15sep.b/t14q808c.m
Meth Date : 15-Sep-2008 12:30 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
*	81 Bromochloromethane					CAS #: 74-97-5		
	14.197	14.169 (1.000)	130	409714	25.0000		80.00- 120.00	100.00
	14.197	14.169 (1.000)	128	320331			27.44- 127.44	78.18
	14.170	14.169 (1.000)	49	1056987			223.25- 323.25	257.98
*	97 1,4-Difluorobenzene					CAS #: 540-36-3		
	15.635	15.635 (1.000)	114	1704055	25.0000		80.00- 120.00	100.00
	15.635	15.635 (1.000)	88	274141			0.00- 65.98	16.09
*	126 Chlorobenzene-d5					CAS #: 3114-55-4		
	19.921	19.921 (1.000)	117	2265669	25.0000		80.00- 120.00	100.00
	19.921	19.921 (1.000)	82	1330554			13.23- 113.23	58.73
$	90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	15.054	15.054 (1.060)	65	724279	25.4123	25.412	80.00- 120.00	100.00
	15.054	15.054 (1.060)	67	345762			0.80- 100.80	47.74
$	113 Toluene-d8					CAS #: 2037-26-5		
	17.902	17.902 (1.145)	98	1985547	25.0617	25.062	80.00- 120.00	100.00
	17.875	17.902 (1.143)	70	218473			0.00- 61.26	11.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1310221			16.23- 116.23	65.99
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1431259	26.6832	26.683	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2160291			99.71- 199.71	150.94
21.414	21.414 (1.075)	176	1389034			46.91- 146.91	97.05

Report Date: 17-Sep-2008 09:19

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091514.d
Lab Smp Id: 0809069-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 8.0"Hg-5psi GEI

Calibration Date: 15-SEP-2008
Calibration Time: 10:47

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	386445	231867	541023	409714	6.02
97 1,4-Difluorobenze	1749130	1049478	2448782	1704055	-2.58
126 Chlorobenzene-d5	2322558	1393535	3251581	2265669	-2.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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: 17-Sep-2008 09:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0809069-02A
Level: LOW Operator: smd
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 8.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.412	101.65	70-130
$ 113 Toluene-d8	25.000	25.062	100.25	70-130
$ 137 Bromofluorobenzene	25.000	26.683	106.73	70-130

Data File: /chem/msd5.i/5-15sep.b/5091514.d

Page 1

Date : 15-SEP-2008 18:36

Client ID:

Instrument: msd5.i

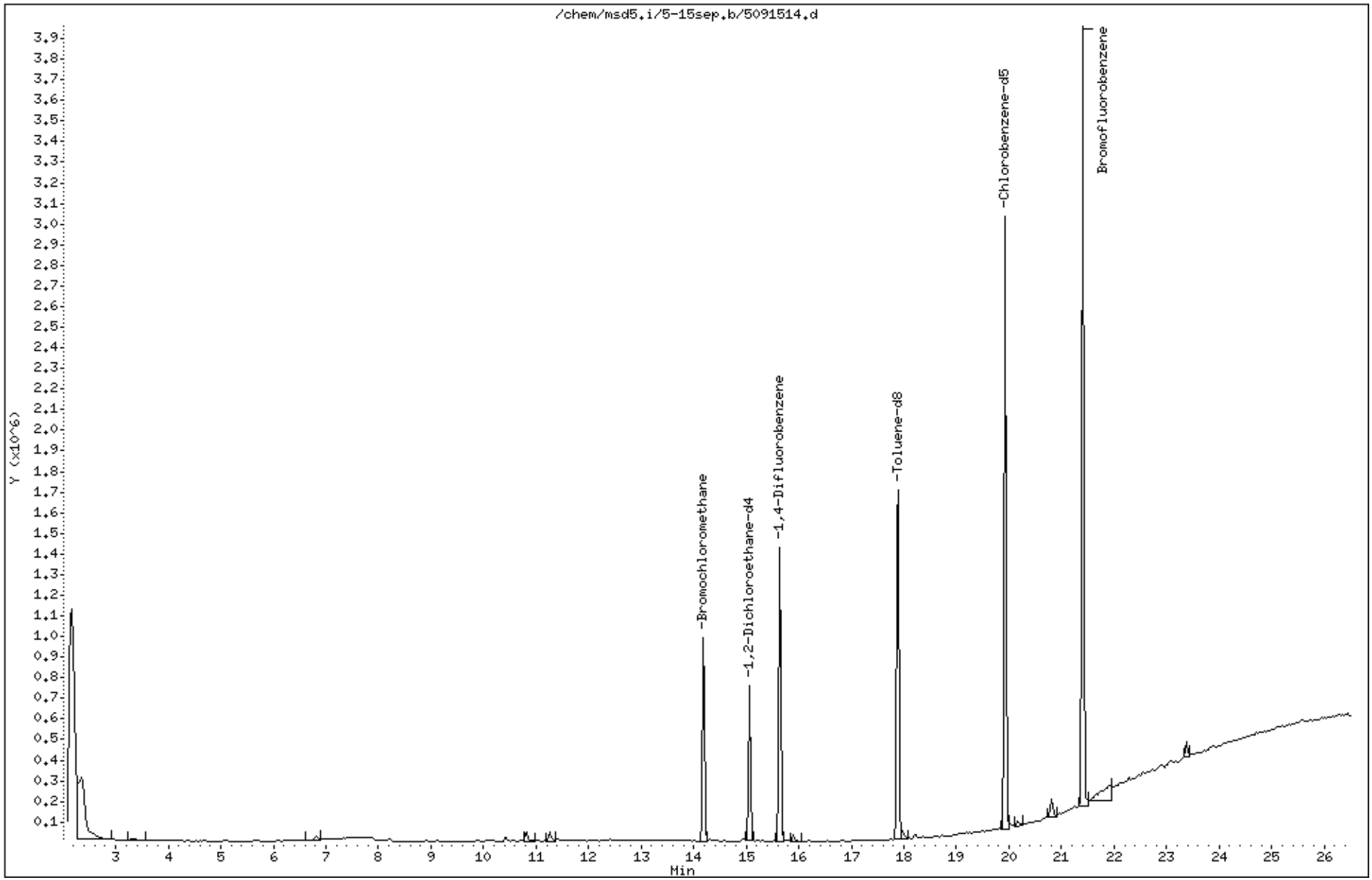
Sample Info: 200mL #12011

Operator: smd

Column phase: RTx-624

Column diameter: 0.53

0023



QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0809069-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 12:56 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#: 0809069-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 12:56 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	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-15sep.b/5091506.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 15-SEP-2008 12:56
Operator : ra Inst ID: msd5.i
Smp Info : 200mL #12941
Misc Info : Humid
Comment :
Method : /chem/msd5.i/5-15sep.b/t14q808c.m
Meth Date : 15-Sep-2008 12:30 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.169	14.169 (1.000)	130	421307	25.0000		80.00- 120.00	100.00
14.169	14.169 (1.000)	128	330857			27.44- 127.44	78.53
14.169	14.169 (1.000)	49	1085716			223.25- 323.25	257.70
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.635 (1.000)	114	1733127	25.0000		80.00- 120.00	100.00
15.635	15.635 (1.000)	88	277510			0.00- 65.98	16.01
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2308783	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1352667			13.23- 113.23	58.59
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.062)	65	741831	25.3119	25.312	80.00- 120.00	100.00
15.054	15.054 (1.062)	67	351535			0.80- 100.80	47.39
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.145)	98	2017974	25.0437	25.044	80.00- 120.00	100.00
17.875	17.902 (1.143)	70	222169			0.00- 61.26	11.01

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1331976			16.23- 116.23	66.01
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1462444	26.7554	26.755	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2199256			99.71- 199.71	150.38
21.414	21.414 (1.075)	176	1412639			46.91- 146.91	96.59

Report Date: 15-Sep-2008 13:04

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091506.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ra
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: Humid

Calibration Date: 15-SEP-2008
Calibration Time: 10:47
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	386445	231867	541023	421307	9.02
97 1,4-Difluorobenze	1749130	1049478	2448782	1733127	-0.91
126 Chlorobenzene-d5	2322558	1393535	3251581	2308783	-0.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.17	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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: 15-Sep-2008 13:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ra
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.312	101.25	70-130
$ 113 Toluene-d8	25.000	25.044	100.17	70-130
$ 137 Bromofluorobenzene	25.000	26.755	107.02	70-130

Data File: /chem/msd5.i/5-15sep.b/5091506.d

Page 1

Date : 15-SEP-2008 12:56

Client ID: Lab Blank

Instrument: msd5.i

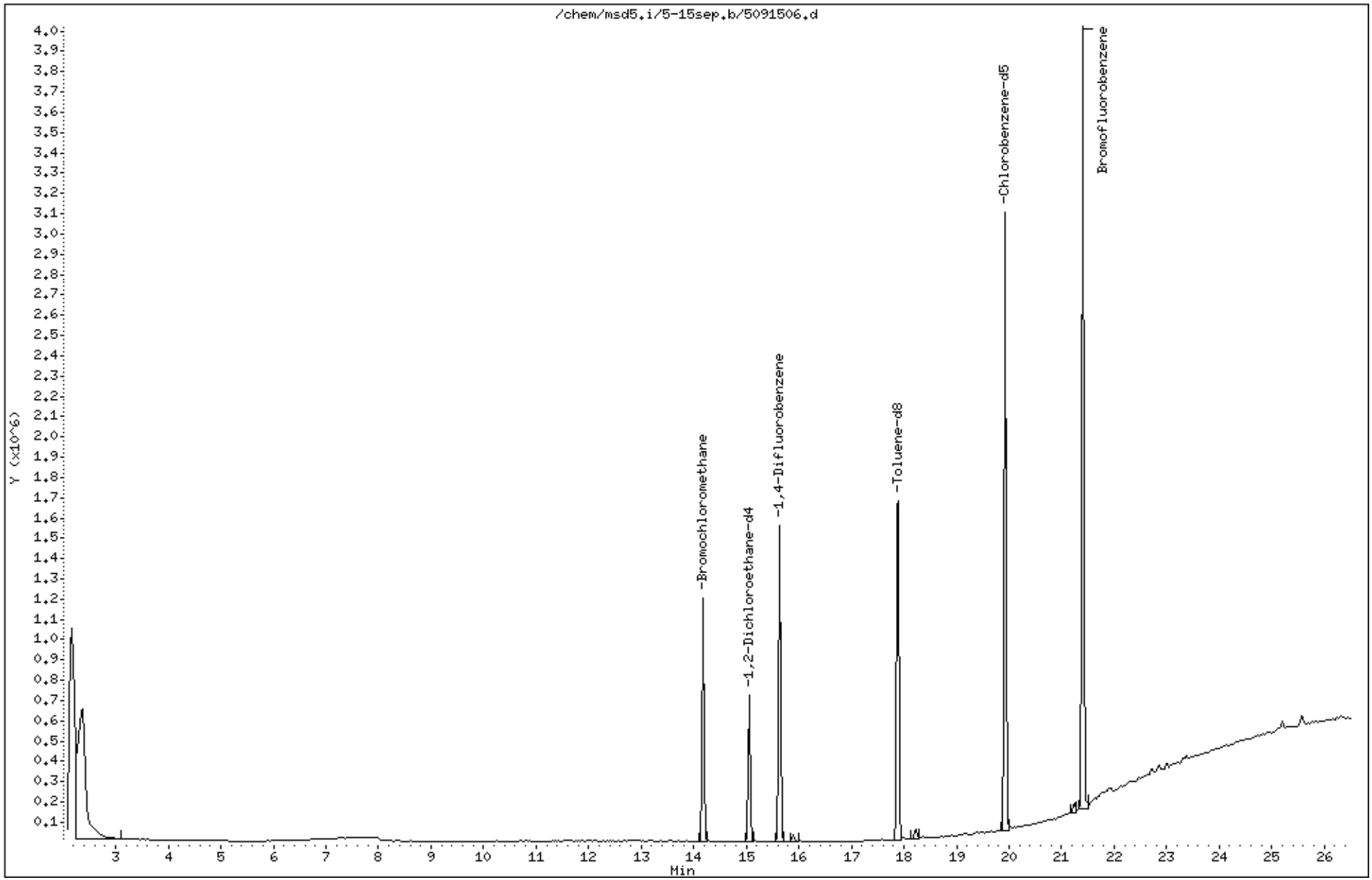
Sample Info: 200mL #12941

Operator: ra

Column phase: RTx-624

Column diameter: 0.53

0031



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0809069

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS 5	101		100		108				0
02	DW AMS 3	102		100		107				0
03	Lab Blank	101		100		107				0
04	CCV	107		102		111				0
05	LCS	109		103		112				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0809069

Lab File ID: 5091504.d | Date Analyzed: 09/15/2008

Instrument ID: msd5.i | Time Analyzed: 10:47 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	2322558		19.92		1749130		15.63		386445		14.17	
	UPPER LIMIT	3251581		20.25		2448782		15.96		541023		14.50	
	LOWER LIMIT	1393535		19.59		1049478		15.30		231867		13.84	
	CLIENT SAMPLE NO												
01	UW AMS 5	2282589		19.92		1716726		15.64		419375		14.2	
02	DW AMS 3	2265669		19.92		1704055		15.63		409714		14.2	
03	Lab Blank	2308783		19.92		1733127		15.63		421307		14.17	
04	CCV	2322558		19.92		1749130		15.63		386445		14.17	
05	LCS	2335391		19.92		1752146		15.64		388110		14.2	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-08aug.b/5080806.d
Level 2: /chem/msd5.i/5-08aug.b/5080807.d
Level 3: /chem/msd5.i/5-02sep.b/5090202.d
Level 4: /chem/msd5.i/5-08aug.b/5080809.d
Level 5: /chem/msd5.i/5-02sep.b/5090203.d
Level 6: /chem/msd5.i/5-08aug.b/5080811.d
Level 7: /chem/msd5.i/5-02sep.b/5090204.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 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 143a	+++++	+++++	0.36391	+++++	0.30838	+++++	0.27556	0.31595	14.135
6 Freon142b	+++++	+++++	1.66680	+++++	2.03413	+++++	1.81086	1.83727	10.074
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11 Propylene	+++++	+++++	1.22573	1.45682	1.37233	1.31163	1.15489	1.30428	9.107
12 Dichlorodifluoromethane/Fr12	+++++	2.08662	2.05842	2.78599	2.56796	2.43297	2.09538	2.33789	13.014
13 Freon 134a	+++++	+++++	0.71689	+++++	0.80812	+++++	0.71017	0.74506	7.344
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 152a	+++++	+++++	0.58915	+++++	0.62639	+++++	0.55716	0.59090	5.863
16 Freon 114	+++++	1.24936	1.22793	1.61527	1.56945	1.50605	1.35256	1.42010	11.717
17 Freon 22	+++++	+++++	1.97078	+++++	2.30944	+++++	2.07275	2.11766	8.204

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Chloromethane	+++++	+++++	1.36714	1.74695	1.61333	1.53298	1.40989	1.53406	10.040
19 Butane	+++++	+++++	0.23512	0.32534	0.31181	0.30592	0.29683	0.29500	11.877
20 Vinyl Chloride	+++++	1.16385	1.19957	1.62912	1.50840	1.43289	1.34823	1.38034	13.025
21 Isobutane	+++++	+++++	3.66185	+++++	4.14225	+++++	3.53379	3.77930	8.488
22 1,3-Butadiene	2.39129	1.42372	1.17217	1.43470	1.37536	1.33995	1.31636	1.49336	27.153
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Bromomethane	+++++	0.49147	0.48382	0.73041	0.70242	0.68093	0.65413	0.62386	17.388
26 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Chloroethane	+++++	0.59193	0.64593	0.85973	0.82953	0.77765	0.74667	0.74191	14.081

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Isopentane	+++++	+++++	2.19366	2.96297	2.78079	2.64214	2.51650	2.61921	11.073
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Trichlorofluoromethane/Fr11	+++++	2.13412	2.03581	2.87025	2.75271	2.64457	2.52238	2.49331	13.559
32 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane/Fr21	+++++	+++++	1.76986	+++++	2.07913	+++++	1.93215	1.92705	8.028
35 1-Pentene	+++++	+++++	1.77158	+++++	2.20904	+++++	1.98467	1.98843	11.001
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	+++++	4.50644	+++++	5.29096	+++++	4.78841	4.86193	8.174

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 Ethanol	+++++	+++++	0.78209	0.93060	0.93261	0.91310	0.83766	0.87921	7.587
39 Ethyl Ether	+++++	+++++	0.56864	+++++	0.71403	+++++	0.62145	0.63471	11.595
40 Freon123a	+++++	+++++	0.73908	+++++	0.90135	+++++	0.82288	0.82110	9.883
41 Freon123	+++++	+++++	1.49746	+++++	1.85576	+++++	1.66754	1.67358	10.709
42 Freon 113	+++++	1.32393	1.30563	1.78810	1.65633	1.54195	1.39379	1.50162	12.956
43 1,1-Dichloroethene	+++++	2.20923	2.10386	2.70151	2.54457	2.44632	2.29597	2.38358	9.330
44 Acrolein	+++++	+++++	0.52849	+++++	0.70994	+++++	0.68684	0.64176	15.391
45 Acetone	+++++	+++++	0.77391	1.02567	0.98240	0.94256	0.93975	0.93286	10.236
46 2-Propanol	+++++	+++++	3.35804	4.52844	4.32035	4.17591	4.03698	4.08394	10.889
47 Carbon Disulfide	+++++	2.95591	2.91634	4.15238	3.98438	3.85446	3.74048	3.60066	14.798

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
48 Ethyl acrylate	+++++	+++++	0.04035	+++++	0.06056	+++++	0.05510	0.05200	20.107
49 Iodomethane	+++++	+++++	2.32996	+++++	3.33702	+++++	2.52395	2.73031	19.569
50 Methyl Methacrylate	+++++	+++++	0.74226	+++++	1.07147	+++++	1.08633	0.96669	20.120
51 3-Chloropropene	+++++	+++++	0.31980	0.62117	0.60219	0.59469	0.57233	0.54204	23.146
52 Acetonitrile	+++++	+++++	1.77194	+++++	2.03802	+++++	1.71562	1.84186	9.349
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Methylene Chloride	+++++	2.42868	2.13737	2.78209	2.64290	2.59070	2.52716	2.51815	8.765
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Cyclopentane	+++++	+++++	0.83460	+++++	1.02874	+++++	0.87803	0.91379	11.150
57 tert-Butyl-Alcohol	+++++	2.28006	2.02816	1.60479	1.24339	0.94443	+++++	1.62017	33.817

Air Toxics Ltd.

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
58 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	1.80900	1.48234	1.46765	1.15493	0.88915		1.36061	25.774
61 trans-1,2-Dichloroethene	+++++	1.23842	1.13123	1.55736	1.44547	1.37330	1.28806	1.33897	11.379
62 Acrylonitrile	+++++	+++++	1.46775	+++++	2.03181	+++++	1.89391	1.79783	16.356
63 2-Pentanone	+++++	+++++	1.46042	+++++	1.94626	+++++	1.59809	1.66825	15.010
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	3.70566	3.25043	4.36543	4.08373	3.84599	3.54211	3.79889	10.395
66 1-Hexene	+++++	+++++	1.49484	+++++	1.97130	+++++	1.68002	1.71538	14.002
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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 Isopropyl ether	+++++	+++++	7.88219	+++++	10.00792	+++++	7.65011	8.51340	15.264
69 Vinyl Acetate	+++++	+++++	0.25819	0.40499	0.39410	0.37314	0.35389	0.35686	16.407
70 1,1-Dichloroethane	+++++	2.49605	2.55235	3.64464	3.42970	3.27432	3.11870	3.08596	15.196
71 1-Propanol	+++++	+++++	0.33766	+++++	0.48719	+++++	0.46114	0.42866	18.635
72 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 t-Butylethyl Ether	+++++	+++++	3.85191	+++++	4.07141	+++++	2.38423	3.43585	26.698
74 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 2-Butanone	+++++	0.55551	0.68464	0.94863	0.89992	0.84166	0.78841	0.78646	18.507
76 cis-1,2-Dichloroethene	+++++	2.30234	2.27471	3.02512	2.83945	2.70082	2.57440	2.61947	11.338
77 Ethyl Acetate	+++++	+++++	0.35526	+++++	0.42782	+++++	0.36009	0.38106	10.646

Air Toxics Ltd.

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
78 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
79 Methyl Acrylate	+++++	+++++	3.52653	+++++	5.08576	+++++		
	4.56624						4.39284	18.074
80 Tetrahydrofuran	+++++	3.30317	3.26771	4.12812	3.88961	3.72791		
	3.55221						3.64479	9.247
82 Chloroform	4.03259	2.71404	2.49048	3.27490	3.06183	2.88549		
	2.72576						3.02644	16.905
83 1,1,1-Trichloroethane	+++++	2.56302	2.37815	3.39109	3.17666	2.99772		
	2.76216						2.87813	13.269
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 Cyclohexane	+++++	2.11864	2.13921	2.86187	2.66622	2.48799		
	2.25873						2.42211	12.470
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 Carbon Tetrachloride	+++++	2.10423	2.21432	3.04252	2.87314	2.70985		
	2.50485						2.57482	14.347
88 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
89 2,2,4-Trimethylpentane	+++++	11.95556	11.79387	15.90087	14.84486	14.02760		
	10.84495						13.22795	15.026
91 Benzene	1.63484	0.94706	0.96874	1.28684	1.21539	1.16480		
	1.12371						1.19162	19.407
92 tert-amyl-Methyl Ether	+++++	+++++	3.23539	+++++	3.55397	+++++		
	2.20241						2.99726	23.573
93 1,2-Dichloroethane	+++++	0.45309	0.45083	0.60282	0.56936	0.54760		
	0.53507						0.52646	11.800
94 Heptane	+++++	0.40737	0.37997	0.51803	0.47731	0.44614		
	0.41331						0.44036	11.534
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 2-Heptanone	+++++	+++++	5.93684	+++++	6.28945	+++++		
	5.28551						5.83727	8.725
98 1-Butanol	+++++	+++++	0.46163	+++++	0.48850	+++++		
	0.48879						0.47964	3.252
99 Isobutanol	+++++	+++++	0.06165	+++++	0.07163	+++++		
	0.06531						0.06620	7.622
100 trans-1,4-dichloro-2-butene	+++++	+++++	0.18272	+++++	0.21559	+++++		
	0.21276						0.20369	8.942

Air Toxics Ltd.

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 Trichloroethene	+++++	0.37706	0.36666	0.49779	0.46277	0.43401	0.41088	0.42486	11.866
102 Methyl Cyclohexane	+++++	3.15001	3.12416	4.14482	3.85496	3.59718	3.30176	3.52882	11.679
103 Alphamethylstyrene	+++++	+++++	0.99400	+++++	1.12752	+++++	0.95503	1.02552	8.821
104 1,2-Dichloropropane	+++++	0.45448	0.45569	0.59963	0.57020	0.54131	0.52352	0.52414	11.337
105 Dibromomethane	+++++	+++++	0.28813	+++++	0.35433	+++++	0.32025	0.32090	10.316
106 1,4-Dioxane	+++++	+++++	0.23841	0.30492	0.28937	0.28012	0.27283	0.27713	8.928
107 Bromodichloromethane	+++++	0.52888	0.54567	0.78798	0.75145	0.72075	0.69333	0.67134	16.186
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.52316	0.52909	0.73398	0.69155	0.66027	0.63315	0.62853	13.707

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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							
111 4-Methyl-2-pentanone	+++++	0.45325	0.49313	0.62754	0.60590	0.59146		
	0.57200						0.55721	12.335
112 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
114 Toluene	+++++	1.29391	1.24171	1.61018	1.49957	1.43114		
	1.33703						1.40226	9.846
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 trans-1,3-Dichloropropene	+++++	0.50258	0.49547	0.68955	0.65657	0.64152		
	0.62210						0.60130	13.681
117 1,1,2-Trichloroethane	+++++	0.47837	0.38921	0.48510	0.46043	0.44400		
	0.41856						0.44594	8.250
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Butyl Acetate	+++++	+++++	0.73303	+++++	0.82960	+++++		
	0.79641						0.78635	6.240
120 Tetrachloroethene	+++++	0.44397	0.44152	0.56849	0.52722	0.49723		
	0.44627						0.48745	10.832
121 2-Hexanone	+++++	+++++	0.64216	0.80949	0.78679	0.79031		
	0.78624						0.76300	8.941

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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							
122 Dibromochloromethane	+++++	0.50805	0.49990	0.71293	0.67755	0.65984		
	0.61523						0.61225	14.637
123 1,2-Dibromoethane	0.92134	0.54109	0.53737	0.73693	0.70018	0.68399		
	0.64727						0.68117	19.199
124 Nonane	+++++	+++++	1.90451	+++++	2.33644	+++++		
	1.45525						1.89873	23.206
125 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
127 Chlorobenzene	+++++	0.98738	0.96816	1.22625	1.16230	1.11077		
	1.03926						1.08235	9.406
128 Ethyl Benzene	+++++	0.55446	0.53284	0.68869	0.64779	0.62661		
	0.57228						0.60378	9.972
129 m,p-Xylene	+++++	0.71374	0.67737	0.87202	0.82575	0.79157		
	0.74113						0.77026	9.462
130 o-Xylene	+++++	0.65314	0.65629	0.83264	0.77491	0.73534		
	0.66773						0.72001	10.244
131 Styrene	1.68865	1.00325	1.06520	1.35226	1.28535	1.23646		
	1.13169						1.25184	18.254
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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 Bromoform	+++++	0.48120	0.48468	0.66363	0.63761	0.61831	0.55602	0.57357	13.718
134 Cumene	3.09190	1.86077	1.96484	2.44029	2.30379	2.19836	1.51234	2.19604	22.822
135 Cyclohexanone	+++++	+++++	0.92943	+++++	0.89466	+++++	0.89798	0.90736	2.114
136 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 1,1,2,2-Tetrachloroethane	+++++	1.08351	1.13647	1.30996	1.23766	1.18542	1.08070	1.17229	7.720
141 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Propylbenzene	+++++	2.61021	2.61229	3.16456	2.96918	2.53117	1.62816	2.58593	20.487
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
145 4-Ethyltoluene	+++++	2.29769	2.32743	2.83317	2.68815	2.53942	1.78034	2.41103	15.397
146 Diisobutyl Ketone	+++++	+++++	2.65104	+++++	2.14410	+++++	1.35648	2.05054	31.813
147 1,3,5-Trimethylbenzene	2.85872	1.80994	1.90145	2.29486	2.17240	2.09570	1.69202	2.11787	18.355
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 1,2,4-Trimethylbenzene	2.92697	1.77969	1.83261	2.16876	2.05197	1.95340	1.53746	2.03584	21.729
151 bis(2-chloroethyl)ether	+++++	+++++	1.37720	+++++	1.34662	+++++	1.16853	1.29745	8.685
152 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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	+++++	1.28523	1.15169	1.22977	1.18019	1.12544	1.01888	1.16520	7.863
156 1,4-Dichlorobenzene	+++++	1.24704	1.10276	1.23838	1.19125	1.14099	1.03651	1.15949	7.068
157 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
159 alpha-Chlorotoluene	+++++	2.15967	1.91607	2.17564	2.13805	2.11210	1.80908	2.05177	7.404
160 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dichlorobenzene	+++++	1.32658	1.15498	1.15058	1.09933	1.01945	0.96451	1.11924	11.270
162 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 1,2,4-Trichlorobenzene	+++++	+++++	1.07100	0.87485	0.88977	0.83413		
	0.78656						0.89126	12.137
166 Hexachlorobutadiene	+++++	+++++	0.70622	0.65534	0.62802	0.56785		
	0.48810						0.60911	13.803
167 Naphthalene	+++++	+++++	2.65797	2.02529	2.17207	2.10619		
	1.97437						2.18718	12.520
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
201 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-02sep.b/t14q808c.m
Cal Date : 02-Sep-2008 15:07 sdisher
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
202 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
203 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Propylene Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
205 Freon 141b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
206 1-Bromopropane	+++++	+++++	0.25723	+++++	0.37884	+++++	0.30279	0.31295	19.631
$ 90 1,2-Dichloroethane-d4	1.73068	1.74134	1.74029	1.74485	1.75593	1.72154	1.73899	1.73909	0.622
$ 113 Toluene-d8	1.16226	1.16335	1.17124	1.15268	1.15998	1.15895	1.16778	1.16232	0.521
$ 137 Bromofluorobenzene	0.58290	0.58526	0.59171	0.59867	0.59247	0.59953	0.59254	0.59187	1.046

Calibration History

Method : /chem/msd5.i/5-02sep.b/t14q808c.m
Start Cal Date: 08-AUG-2008 11:33
End Cal Date : 02-SEP-2008 12:55

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
08-AUG-2008 11:33	AFCEElow	/chem/msd5.i/5-08aug.b/5080806.d
Cal Level: 2 , Cal Amount: 0.50000		
08-AUG-2008 12:09	AT08lowtba	/chem/msd5.i/5-08aug.b/5080807.d
Cal Level: 3 , Cal Amount: 2.00000		
02-SEP-2008 11:25	sp19c	/chem/msd5.i/5-02sep.b/5090202.d
25-AUG-2008 09:36	sp1b	/chem/msd5.i/5-25aug.b/5082502.d
11-AUG-2008 09:53	sp21a	/chem/msd5.i/5-11aug.b/5081102.d
08-AUG-2008 12:44	AT08mdl	/chem/msd5.i/5-08aug.b/5080808.d
Cal Level: 4 , Cal Amount: 25.00000		
08-AUG-2008 13:20	AT08	/chem/msd5.i/5-08aug.b/5080809.d
Cal Level: 5 , Cal Amount: 50.00000		
02-SEP-2008 12:10	sp19c	/chem/msd5.i/5-02sep.b/5090203.d
25-AUG-2008 10:13	sp1b	/chem/msd5.i/5-25aug.b/5082503.d
11-AUG-2008 10:30	sp21a	/chem/msd5.i/5-11aug.b/5081103.d
08-AUG-2008 13:56	AT08	/chem/msd5.i/5-08aug.b/5080810.d
Cal Level: 6 , Cal Amount: 100.00000		
08-AUG-2008 14:33	AT08	/chem/msd5.i/5-08aug.b/5080811.d
Cal Level: 7 , Cal Amount: 200.00000		
02-SEP-2008 12:55	sp19c	/chem/msd5.i/5-02sep.b/5090204.d

25-AUG-2008 10:54	sp1b	/chem/msd5.i/5-25aug.b/5082504.d
11-AUG-2008 11:11	sp21a	/chem/msd5.i/5-11aug.b/5081104.d
08-AUG-2008 15:15	AT08	/chem/msd5.i/5-08aug.b/5080812.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
02-SEP-2008 12:10	sp19c	/chem/msd5.i/5-02sep.b/5090203.d
Ccal Level: 5 , Ccal Amount: 50.000		
02-SEP-2008 12:10	sp19cCCV	/chem/msd5.i/5-02sep.b/5090203a.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.75
75	30.0 – 60.0% of mass 95	45.37
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(1.13)[1]
174	Greater than 50.0% of mass 95	62.05
175	5.0 – 9.0% of mass 174	(7.50)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.08)[1]
177	5.0 – 9.0% of mass 176	(6.47)[2]

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

BFB Injection Date: 8-08-08

BFB Injection Time: 1047

BFB File ID: 5080805

Tekmar Purge Flow: 12.2mL/min

Vacuum: 4.05×10^{-6}

IS/S Std.#: 1612-70	Exp. Date: 10-15-08
BCM	
1,4-DFB	
CB-d5	

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

Verify 176/174 m/z Ratio: 469184 / 488320 x 100 = 96.08

NOAH Cart #: _____ **File #:** _____

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\quad)}{(\quad)} \times \frac{(25)}{(\quad)} =$ _____

m2 8-11-08

File ID:
Compound:
Initials:

Reported Result _____

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5080805	BFB Tune Check	1476-435	50ng	2µL	1.00	8-8-08	1047	m2/CS	
2	✓	5080806	ICAL Level 1	1612-95	0.3ppbv	0.3 mL	1.00	8-8-08	1133	/CS	TIq 808a
3	✓	07	ICAL Level 2		0.5ppbv	0.5mL			1209	/CS	
4	✓	08	ICAL Level 3		2.0ppbv	20mL			1244	/CS	
5	✓	09	ICAL Level 4		25 ppbv	25mL			1320	/CS	
6	✓	10	ICAL Level 5		50 ppbv	50 mL			1356	/CS	CCV
7	✓	11	ICAL Level 6		100 ppbv	100 mL			1433	/CS	
8	✓	12	ICAL Level 7		200 ppbv	200 mL			1515	/CS	
9	✓	5080813	System Blank	12941	Humid	200mL	1.00	8-8-08	16:07	m2	

Signature

8-11-08
Date

0054

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

10	5080814	Freon 14/b	1612-100	25ppbv	25mL	1.0	8-8-08	1701	hc	Test
11	15	LCS 1612-71	20ppbv	50ppbv	50mL	1.0	1	1749	CT	ICAL LCS
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31									hc	8-11-08
32										

0055

Comments: Flow Controller #AA9203108 Nominal 21.9 mL/min

Mist Flow Meter # 0503623372 Exp 1-24-09 Actual 24.5 mL/min

Signature

8-11-08
Date

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.56
75	30.0 – 60.0% of mass 95	45.86
95	Base peak, 100.00% relative abundance	100.00 ~~6.39~~
96	5.0 – 9.0% of mass 95	6.89 ~~0.92~~ 8-11-08
173	Less than 2.0% of mass 174	0.92 (~~59.77~~)[1]
174	Greater than 50.0% of mass 95	59.77 ~~7.25~~
175	5.0 – 9.0% of mass 174	7.25 (~~95~~)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	95.26 ( )[1]
177	5.0 – 9.0% of mass 176	6.63 ( )[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 8-11-08

BFB Injection Time: 0831

BFB File ID: 5081101

Tekmar Purge Flow: ——— hz 8-11-08

Vacuum: 1.35*10^-5

IS/S Std.#:	1612-70	Exp. Date: 10-15-08
BCM	4482.00	
1,4-DFB	2085719	
CB-d5	2349482	

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

Verify 176/174 m/z Ratio: 446080/468288 *100 = 95.26 ✓

NOAH Cart #: 8 **File #:** 8081107

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 2446895\ )}{(\ 2085719\ )} \times \frac{(\ 25\ )}{(\ 1.16232\ )} = 25.233$

File ID:	5081106
Compound:	Toluene-d8
Initials:	hz

Reported Result 25.233

T149808a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5081101	BFB Tune Check	14762	50ng	2µL	1.00	8-11-08	0831	hz/	
2	✓	5081102	ICAL Level 3	1612-62	2ppbv	2.0mL			0953	hz/	sp21a
3	✓	03	ICAL Level 5		50ppbv	50mL			1030	hz/	
4	✓	04	ICAL Level 7		200ppbv	200mL			1111	hz/	
5	✓	5081105	System Blank	12941	Humid	200mL	1.00	8-11-08	1303	hz/	
6	✓	06	1612-95 200ppbv	CCV-1	50ppbv	~~200~~ 50mL			1342	hz/	Don't
7	✓	07	1612-71 200ppbv	LCS 1	50ppbv	50mL			1420		Don't
8	X	08	Lab Blank	4214	Humid	200mL			1525		Cart#7/Leg#2
9	✓	09	Lab Blank	4214	Humid	200mL	↓	↓	1621	↓	

Signature

8/12/08

Date

0059

@ Air Toxics Ltd.

MSD-5

Logbook #: 1637

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.96
75	30.0 – 60.0% of mass 95	46.32
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	(0.83)[1]
174	Greater than 50.0% of mass 95	57.45
175	5.0 – 9.0% of mass 174	(7.32)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.88)[1]
177	5.0 – 9.0% of mass 176	(6.40)[2]

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

BFB Injection Date: 8-25-08

BFB Injection Time: 0825

BFB File ID: 5082501

Tekmar Purge Flow: 12.2mL/min

Vacuum: 9.4×10^{-6}

IS/S Std.#:	1612-70	Exp. Date: 10-15-08
BCM	458420	
1,4-DFB	2103349	
CB-d5	2392102	

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

Verify 176/174 m/z Ratio: 588928/607872 *100 = 96.88 ✓

NOAH Cart #: 7 **File #:** 8082504

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 2467873\ )}{(\ 2103349\ )} \times \frac{(\ 25\ )}{(\ 1.16232\ )} =$ 25.236

File ID:	5082501
Compound:	Toluene-d8
Initials:	MR

Reported Result 25.236

TH98086

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5082501	BFB Tune Check	1476-435	50ng	2µL	1.00	8-25-08	0825	MR/GT	
2	✓	5082502	ICAL Level 3 (200ppbv)	1612-118	200ppbv	2.0mL	↓	8-25-08	0936	MR/	spl b 1-bromo propane
3	✓	↓ 03	ICAL Level 5	↓	50ppbv	50mL	↓	↓	1013	MR/	TH98086
4	✓	↓ 04	ICAL Level 7	↓	200ppbv	200mL	↓	↓	1054	MR/	
5	✓	5082505	CCV-1 50ppbv (200ppbv)	1612-95	50ppbv	50mL	1.00	8-25-08	1226	MR/GT	mTBE ↓
6	✓	↓ 06	LCS-1 50ppbv (100ppbv)	1612-76A	↓	100mL	↓	↓	1317	MR/GT	TBA↓ skipped
7	X	5082507 ~~08~~	Lab Blank	12941	Humid	200mL	1.00	8-25-08	1436	MR	File # 5082503 no 5082507 run
8	✓	5082509	↓	↓	↓	↓	↓	↓	1601	MR/	
9											

MR 8-25-08

Signature

8-25-08
Date

0057

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MSD-5

Logbook #: 1713

0058

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	28.57
75	30.0 – 60.0% of mass 95	46.11
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.65
173	Less than 2.0% of mass 174	(0.88)[1]
174	Greater than 50.0% of mass 95	60.77
175	5.0 – 9.0% of mass 174	(7.26)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.40)[1]
177	5.0 – 9.0% of mass 176	(6.42)[2]

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

BFB Injection Date: 9-2-08
BFB Injection Time: 0917
BFB File ID: 5090201
Tekmar Purge Flow: 12.3mL/min
Vacuum: 3.22×10^{-5}

IS/S Std.#: 1612-70	Exp. Date: 10-15-08
BCM 449737	
1,4-DFB 2037716	
CB-d5 2460820	

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

Verify 176/174 m/z Ratio: 656704/681280 *100 = 96.39 ✓

NOAH Cart #: 7/11 **File #:** 8082907/8082905

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 2409825\ )}{(\ 2037716\ )} \times \frac{(\ 25\ )}{(\ 1.16232\ )} = 25.436$

Reported Result 25.436 ✓

File ID:	5090206
Compound:	Tol-d8
Initials:	MR

Method: TI4g808c

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init	Comments
1	✓	5090201	BFB Tune Check	1476-435	50ng	2µL	1.00	9-02-08	0917	MR/CT	
2	✓	5090202	ICAL Level 3 (200ppbv)	1541-242	2.0ppbv	2.0mL	1.00	9-02-08	1125	MR/CT	TI4g808b spike AT spec
3	✓	03	Level 5		50ppbv	50mL	↓	↓	1210	MR/CT	
4	✓	04	Level 7	↓	200ppbv	200mL	↓	↓	1255	MR/CT	
5	✓	5090205	CCVsp 50ppbv (200ppbv)	1612-62	50ppbv	50mL	1.00	9-02-08	1346	MR/CT	ϕ out
6	✓	06	CCV-1 50ppbv (100ppbv)	1612-95A	SP 50 ppbv 9-2-08	100mL	1.00	↓	1429	MR/CT	ϕ out
7	✓	07	LCS-1 50ppbv (200ppbv)	1612-122	50ppbv	50mL	1.00	↓	1521	MR/CT	
8	X	08	Lab Blank	12941	Humid	200mL	1.00	9-2-08	1640	KR	

MR
Signature

9-2-08
Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 08/08/2008 and 08/11/2008.

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

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 TO14

Data file : /chem/msd5.i/5-08aug.b/5080815.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 08-AUG-2008 17:49
Operator : smd Inst ID: msd5.i
Smp Info : 50ml #1612-71
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:54 ctaylor Quant Type: ISTD
Cal Date : 08-AUG-2008 15:15 Cal File: 5080812.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	392710	25.0000		80.00- 120.00	100.00
14.197	14.197 (1.000)	128	302974			27.85- 127.85	77.15
14.169	14.197 (1.000)	49	1069484			221.82- 321.82	272.33
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.662	15.663 (1.000)	114	1855667	25.0000		80.00- 120.00	100.00
15.635	15.663 (1.000)	88	308264			0.00- 66.48	16.61
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2053223	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1317068			13.82- 113.82	64.15
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	698908	25.5839	25.584	80.00- 120.00	100.00
15.054	15.054 (1.060)	67	354951			0.80- 100.80	50.79
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.143)	98	2147155	24.8873	24.887	80.00- 120.00	100.00
17.902	17.902 (1.143)	70	242485			0.00- 61.26	11.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1425612			16.23- 116.23	66.40
$ 137 Bromofluorobenzene						CAS #: 460-00-4	
21.414	21.414 (1.075)	174	1176085	24.1946	24.194	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2008764			116.90- 216.90	170.80
21.414	21.414 (1.075)	176	1134190			45.85- 145.85	96.44
11 Propylene						CAS #: 115-07-1	
3.303	3.331 (0.233)	41	1120901	54.7098	54.710	80.00- 120.00	100.00
3.331	3.331 (0.235)	42	746025			16.73- 116.73	66.56
3.331	3.331 (0.235)	39	802631			25.62- 125.62	71.61
12 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
3.663	3.663 (0.258)	85	1929972	52.5527	52.553	80.00- 120.00	100.00
3.663	3.663 (0.258)	87	625569			0.00- 80.95	32.41
16 Freon 114						CAS #: 76-14-2	
4.769	4.796 (0.336)	135	1149556	51.5321	51.532	80.00- 120.00	100.00
4.769	4.796 (0.336)	137	359938			0.00- 81.46	31.31
18 Chloromethane						CAS #: 74-87-3	
5.073	5.101 (0.357)	50	1235055	51.2522	51.252	80.00- 120.00	100.00
5.073	5.101 (0.357)	52	383074			0.00- 82.33	31.02
20 Vinyl Chloride						CAS #: 75-01-4	
5.847	5.902 (0.412)	62	1107970	51.0986	51.099	80.00- 120.00	100.00
5.847	5.902 (0.412)	64	318852			0.00- 79.12	28.78
22 1,3-Butadiene						CAS #: 106-99-0	
6.068	6.096 (0.427)	54	1010194	43.0633	43.063	80.00- 120.00	100.00
6.068	6.096 (0.427)	39	1078607			54.34- 154.34	106.77
25 Bromomethane						CAS #: 74-83-9	
7.561	7.589 (0.533)	94	444451	45.3526	45.353	80.00- 120.00	100.00
7.561	7.589 (0.533)	96	408613			42.32- 142.32	91.94
27 Chloroethane						CAS #: 75-00-3	
8.087	8.114 (0.570)	64	605584	51.9629	51.963	80.00- 120.00	100.00
8.059	8.114 (0.568)	49	220258			0.00- 86.14	36.37
8.087	8.114 (0.570)	66	178077			0.00- 80.35	29.41
31 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
8.888	8.916 (0.626)	101	2055028	52.4699	52.470	80.00- 120.00	100.00
8.888	8.916 (0.626)	103	1328022			14.68- 114.68	64.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.077	10.105 (0.710)	45	677150	49.0298	49.030	80.00- 120.00	100.00
10.077	10.105 (0.710)	43	130550			0.00- 68.79	19.28
10.077	10.105 (0.710)	46	265245			0.00- 87.61	39.17
42 Freon 113					CAS #: 76-13-1		
10.409	10.437 (0.733)	151	1360005	57.6564	57.656	80.00- 120.00	100.00
10.409	10.437 (0.733)	153	852160			13.77- 113.77	62.66
10.409	10.437 (0.733)	101	1844028			86.28- 186.28	135.59
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.381	10.409 (0.731)	61	2103884	56.1902	56.190	80.00- 120.00	100.00
10.381	10.409 (0.731)	96	916383			0.00- 93.71	43.56
10.381	10.409 (0.731)	98	586013			0.00- 77.81	27.85
45 Acetone					CAS #: 67-64-1		
10.796	10.824 (0.760)	58	729893	49.8094	49.809	80.00- 120.00	100.00
10.796	10.824 (0.760)	43	2688105			308.33- 408.33	368.29
46 2-Propanol					CAS #: 67-63-0		
11.239	11.266 (0.792)	45	3232354	50.3857	50.386	80.00- 120.00	100.00
11.239	11.266 (0.792)	43	552122			0.00- 67.96	17.08
11.239	11.266 (0.792)	59	104737			0.00- 53.33	3.24
47 Carbon Disulfide					CAS #: 75-15-0		
10.713	10.741 (0.755)	76	2907448	51.4041	51.404	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.322	11.349 (0.797)	76	438077	51.4507	51.451	80.00- 120.00	100.00
11.322	11.349 (0.797)	41	2714060			532.92- 632.92	619.54
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	2153758	54.4482	54.448	80.00- 120.00	100.00
11.653	11.653 (0.821)	84	923792			0.00- 93.59	42.89
11.653	11.653 (0.821)	51	641943			0.00- 81.59	29.81
60 MTBE					CAS #: 1634-04-4		
12.040	12.041 (0.848)	73	727693	34.0472	34.047	80.00- 120.00	100.00
12.040	12.041 (0.848)	57	324254			0.00- 94.71	44.56
12.013	12.041 (0.846)	41	473656			16.75- 116.75	65.09
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	1055372	50.1767	50.177	80.00- 120.00	100.00
12.040	12.068 (0.848)	61	2115752			149.30- 249.30	200.47
12.068	12.068 (0.850)	98	666470			11.58- 111.58	63.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	3027266	50.7297	50.730	80.00- 120.00	100.00
12.400	12.400 (0.873)	43	2396961			27.68- 127.68	79.18
12.400	12.400 (0.873)	86	326975			0.00- 60.34	10.80
69 Vinyl Acetate					CAS #: 108-05-4		
12.953	12.981 (0.912)	86	280123	49.9708	49.971	80.00- 120.00	100.00
12.953	12.981 (0.912)	43	5494943			1870.31-1970.31	1961.62
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.870	12.898 (0.907)	63	2649074	54.6477	54.648	80.00- 120.00	100.00
12.870	12.898 (0.907)	65	795198			0.00- 79.95	30.02
75 2-Butanone					CAS #: 78-93-3		
13.865	13.865 (0.977)	72	646212	52.3077	52.308	80.00- 120.00	100.00
13.865	13.865 (0.977)	43	4610911			637.87- 737.87	713.53
13.865	13.865 (0.977)	57	286822			5.66- 105.66	44.39
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	2115093	51.4024	51.402	80.00- 120.00	100.00
13.810	13.810 (0.973)	96	1184001			6.17- 106.17	55.98
13.810	13.810 (0.973)	98	756353			0.00- 85.58	35.76
80 Tetrahydrofuran					CAS #: 109-99-9		
14.169	14.170 (0.998)	42	2853655	49.8422	49.842	80.00- 120.00	100.00
14.169	14.170 (0.998)	71	585315			0.00- 71.07	20.51
14.169	14.170 (0.998)	72	635251			0.00- 72.62	22.26
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	2349194	49.4145	49.414	80.00- 120.00	100.00
14.280	14.280 (1.006)	85	1449398			12.09- 112.09	61.70
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	2416348	53.4462	53.446	80.00- 120.00	100.00
14.474	14.474 (1.019)	99	1546441			13.77- 113.77	64.00
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.018)	84	1993028	52.3827	52.383	80.00- 120.00	100.00
14.446	14.446 (1.018)	56	3639139			132.87- 232.87	182.59
14.418	14.446 (1.016)	41	2250274			61.28- 161.28	112.91
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	2147086	53.0849	53.085	80.00- 120.00	100.00
14.667	14.667 (1.033)	117	2231539			53.56- 153.56	103.93
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	10993811	52.9083	52.908	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	3625381			0.00- 83.12	32.98
14.944	14.944 (1.053)	41	3087111			0.00- 78.06	28.08
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	4307327	48.6977	48.698	80.00- 120.00	100.00
15.027	15.027 (0.959)	77	980965			0.00- 73.44	22.77
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.165	15.193 (0.968)	62	2059386	52.7001	52.700	80.00- 120.00	100.00
15.165	15.193 (0.968)	64	624751			0.00- 81.33	30.34
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	1701115	52.0439	52.044	80.00- 120.00	100.00
15.220	15.220 (0.972)	43	5200679			251.25- 351.25	305.72
15.220	15.220 (0.972)	57	2225020			81.70- 181.70	130.80
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	1628072	51.6256	51.626	80.00- 120.00	100.00
16.022	16.022 (1.023)	130	1575686			47.04- 147.04	96.78
16.022	16.022 (1.023)	97	1047613			14.40- 114.40	64.35
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	1974281	50.7461	50.746	80.00- 120.00	100.00
16.492	16.492 (1.053)	62	1441898			22.57- 122.57	73.03
16.492	16.492 (1.053)	41	1433487			19.93- 119.93	72.61
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	982860	47.7799	47.780	80.00- 120.00	100.00
16.658	16.658 (1.064)	58	1036043			55.24- 155.24	105.41
16.658	16.658 (1.064)	57	322536			0.00- 82.83	32.82
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	2659305	53.3658	53.366	80.00- 120.00	100.00
16.907	16.907 (1.079)	85	1630300			11.12- 111.12	61.31
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	2378335	50.9782	50.978	80.00- 120.00	100.00
17.570	17.570 (1.122)	77	753859			0.00- 81.73	31.70
17.570	17.570 (1.122)	39	1974651			30.49- 130.49	83.03
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	2114441	51.1228	51.123	80.00- 120.00	100.00
17.736	17.736 (1.132)	43	6535467			250.15- 350.15	309.09
17.736	17.736 (1.132)	85	620746			0.00- 81.83	29.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	5525653	53.0879	53.088	80.00- 120.00	100.00
17.985	17.985 (1.148)	92	3293733			10.18- 110.18	59.61
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	2498820	50.5998	50.600	80.00- 120.00	100.00
18.372	18.372 (0.922)	77	790155			0.00- 81.45	31.62
18.372	18.372 (0.922)	39	1984011			27.96- 127.96	79.40
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	1784035	48.7109	48.711	80.00- 120.00	100.00
18.649	18.649 (0.936)	99	1097163			12.11- 112.11	61.50
18.649	18.649 (0.936)	83	1553691			37.58- 137.58	87.09
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	2065819	51.6020	51.602	80.00- 120.00	100.00
18.732	18.732 (0.940)	129	1634999			29.04- 129.04	79.15
18.732	18.732 (0.940)	131	1556743			25.42- 125.42	75.36
121 2-Hexanone					CAS #: 591-78-6		
18.897	18.898 (0.949)	58	2983905	47.6174	47.617	80.00- 120.00	100.00
18.897	18.898 (0.949)	43	6532827			165.74- 265.74	218.94
18.897	18.898 (0.949)	100	426230			0.00- 64.25	14.28
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	2648124	52.6641	52.664	80.00- 120.00	100.00
19.174	19.174 (0.963)	127	2046777			42.47- 142.47	77.29
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	2596738	46.4171	46.417	80.00- 120.00	100.00
19.395	19.395 (0.974)	109	2453956			44.34- 144.34	94.50
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	4421207	49.7366	49.736	80.00- 120.00	100.00
19.976	19.976 (1.003)	114	1406206			0.00- 81.78	31.81
19.976	19.976 (1.003)	77	3514696			28.40- 128.40	79.50
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	2448425	49.3754	49.375	80.00- 120.00	100.00
20.031	20.031 (1.006)	91	8022024			273.61- 373.61	327.64
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.170 (1.012)	106	3081531	48.7114	48.711	80.00- 120.00	100.00
20.169	20.170 (1.012)	91	6332213			156.85- 256.85	205.49
130 o-Xylene					CAS #: 95-47-6		
20.722	20.723 (1.040)	106	2961263	50.0776	50.078	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.722	20.723 (1.040)	91	6429248			164.78- 264.78	217.11
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	4796027	46.6485	46.648	80.00- 120.00	100.00
20.750	20.750 (1.042)	78	2459230			0.39- 100.39	51.28
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	2395144	50.8448	50.845	80.00- 120.00	100.00
21.054	21.054 (1.057)	171	1241532			1.96- 101.96	51.84
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	8968293	49.7249	49.725	80.00- 120.00	100.00
21.137	21.137 (1.061)	120	2288972			0.00- 75.89	25.52
21.137	21.137 (1.061)	51	1357166			0.00- 65.13	15.13
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.607	21.580 (1.085)	83	4643703	48.2318	48.232	80.00- 120.00	100.00
21.607	21.580 (1.085)	85	2854160			11.73- 111.73	61.46
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	11447469	53.9010	53.901	80.00- 120.00	100.00
21.635	21.635 (1.086)	120	2390801			0.00- 71.75	20.88
21.635	21.635 (1.086)	105	399251			0.00- 53.77	3.49
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	9803428	49.5084	49.508	80.00- 120.00	100.00
21.773	21.773 (1.093)	120	2826892			0.00- 79.31	28.84
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	8280163	47.6040	47.604	80.00- 120.00	100.00
21.828	21.828 (1.096)	120	3806765			0.00- 96.90	45.97
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.299 (1.119)	105	7551039	45.1614	45.161	80.00- 120.00	100.00
22.298	22.299 (1.119)	120	3321674			0.00- 94.15	43.99
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	4209309	43.9860	43.986	80.00- 120.00	100.00
22.741	22.741 (1.142)	148	2667786			10.51- 110.51	63.38
22.741	22.741 (1.142)	111	1955544			0.00- 93.75	46.46
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.852 (1.147)	146	4223135	44.3478	44.348	80.00- 120.00	100.00
22.851	22.852 (1.147)	148	2672167			9.29- 109.29	63.27
22.851	22.852 (1.147)	111	1873304			0.00- 93.39	44.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	7635614	45.3127	45.313	80.00- 120.00	100.00
23.017	23.017 (1.155)	126	1398713			0.00- 68.40	18.32
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.321	23.322 (1.171)	146	3922161	42.6684	42.668	80.00- 120.00	100.00
23.321	23.322 (1.171)	148	2471964			13.14- 113.14	63.03
23.321	23.322 (1.171)	111	1868296			0.00- 97.20	47.63
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	2891252	39.4989	39.499	80.00- 120.00	100.00
25.202	25.202 (1.265)	182	2739531			44.20- 144.20	94.75
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.312	25.285 (1.271)	225	2136427	42.7070	42.707	80.00- 120.00	100.00
25.312	25.285 (1.271)	223	1332989			12.72- 112.72	62.39
29 Isopentane					CAS #: 78-78-4		
8.197	8.225 (0.577)	43	2083106	50.6301	50.630	80.00- 120.00	100.00
8.197	8.225 (0.577)	57	1155566			7.22- 107.22	55.47
19 Butane					CAS #: 106-97-8		
5.681	5.737 (0.400)	58	234397	50.5815	50.581	80.00- 120.00	100.00
5.681	5.737 (0.400)	43	2197535			873.35- 973.35	937.53
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.215	16.216 (1.142)	83	2867931	51.7378	51.738	80.00- 120.00	100.00
16.215	16.216 (1.142)	98	1310503			0.00- 95.32	45.70
16.215	16.216 (1.142)	55	3506781			73.58- 173.58	122.28
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	6748802	37.5704	37.570	80.00- 120.00	100.00
25.589	25.589 (1.285)	127	855345			0.00- 63.84	12.67
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.985	12.013 (0.844)	59	780113	30.6525	30.652	80.00- 120.00	100.00
12.013	12.013 (0.846)	41	472454			7.15- 107.15	60.56
12.040	12.013 (0.848)	57	325894			0.00- 92.38	41.78

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5080815.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	392710	0.59
97 1,4-Difluorobenze	1846321	1107793	2584849	1855667	0.51
126 Chlorobenzene-d5	2069370	1241622	2897118	2053223	-0.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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: 11-Aug-2008 11:58

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-08aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: smd
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	52.553	105.11	70-130
16 Freon 114	50.000	51.532	103.06	70-130
18 Chloromethane	50.000	51.252	102.50	70-130
20 Vinyl Chloride	50.000	51.099	102.20	70-130
22 1,3-Butadiene	50.000	43.063	86.13	60-140
25 Bromomethane	50.000	45.353	90.71	70-130
27 Chloroethane	50.000	51.963	103.93	70-130
31 Trichlorofluoromet	50.000	52.470	104.94	70-130
38 Ethanol	50.000	49.030	98.06	60-140
42 Freon 113	50.000	57.656	115.31	70-130
43 1,1-Dichloroethene	50.000	56.190	112.38	70-130
45 Acetone	50.000	49.809	99.62	60-140
47 Carbon Disulfide	50.000	51.404	102.81	60-140
46 2-Propanol	50.000	50.386	100.77	60-140
54 Methylene Chloride	50.000	54.448	108.90	70-130
60 MTBE	50.000	34.047	68.09	60-140
61 trans-1,2-Dichloro	50.000	50.177	100.35	60-140
65 Hexane	50.000	50.730	101.46	60-140
69 Vinyl Acetate	50.000	49.971	99.94	60-140
70 1,1-Dichloroethane	50.000	54.648	109.30	70-130
76 cis-1,2-Dichloroet	50.000	51.402	102.80	70-130
75 2-Butanone	50.000	52.308	104.62	60-140
80 Tetrahydrofuran	50.000	49.842	99.68	60-140
82 Chloroform	50.000	49.414	98.83	70-130
85 Cyclohexane	50.000	52.383	104.77	60-140
83 1,1,1-Trichloroeth	50.000	53.446	106.89	70-130
87 Carbon Tetrachlori	50.000	53.085	106.17	70-130
91 Benzene	50.000	48.698	97.40	70-130
93 1,2-Dichloroethane	50.000	52.700	105.40	70-130
94 Heptane	50.000	52.044	104.09	60-140
101 Trichloroethene	50.000	51.626	103.25	70-130
104 1,2-Dichloropropan	50.000	50.746	101.49	70-130
106 1,4-Dioxane	50.000	47.780	95.56	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	53.366	106.73	60-140
110 cis-1,3-Dichloropr	50.000	50.978	101.96	70-130
111 4-Methyl-2-pentano	50.000	51.123	102.25	60-140
114 Toluene	50.000	53.088	106.18	70-130
116 trans-1,3-Dichloro	50.000	50.600	101.20	70-130
117 1,1,2-Trichloroeth	50.000	48.711	97.42	70-130
120 Tetrachloroethene	50.000	51.602	103.20	70-130
121 2-Hexanone	50.000	47.617	95.23	60-140
122 Dibromochlorometha	50.000	52.664	105.33	60-140
123 1,2-Dibromoethane	50.000	46.417	92.83	70-130
127 Chlorobenzene	50.000	49.736	99.47	70-130
128 Ethyl Benzene	50.000	49.375	98.75	70-130
129 m,p-Xylene	50.000	48.711	97.42	70-130
130 o-Xylene	50.000	50.078	100.16	70-130
131 Styrene	50.000	46.648	93.30	70-130
133 Bromoform	50.000	50.845	101.69	60-140
140 1,1,2,2-Tetrachlor	50.000	48.232	96.46	70-130
145 4-Ethyltoluene	50.000	49.508	99.02	60-140
147 1,3,5-Trimethylben	50.000	47.604	95.21	70-130
150 1,2,4-Trimethylben	50.000	45.161	90.32	70-130
155 1,3-Dichlorobenzen	50.000	43.986	87.97	70-130
156 1,4-Dichlorobenzen	50.000	44.348	88.70	70-130
159 alpha-Chlorotoluen	50.000	45.313	90.63	70-130
161 1,2-Dichlorobenzen	50.000	42.668	85.34	70-130
165 1,2,4-Trichloroben	50.000	39.499	79.00	70-130
166 Hexachlorobutadien	50.000	42.707	85.41	70-130
142 Propylbenzene	50.000	53.901	107.80	60-140
134 Cumene	50.000	49.725	99.45	60-140
51 3-Chloropropene	50.000	51.451	102.90	60-140
89 2,2,4-Trimethylpen	50.000	52.908	105.82	60-140
29 Isopentane	50.000	50.630	101.26	70-130
19 Butane	50.000	50.581	101.16	70-130
102 Methyl Cyclohexane	50.000	51.738	103.48	70-130
11 Propylene	50.000	54.710	109.42	60-140
167 Naphthalene	50.000	37.570	75.14	60-140
57 tert-Butyl-Alcohol	50.000	30.652	61.30	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	25.584	102.34	70-130
$ 113 Toluene-d8	25.000	24.887	99.55	70-130
$ 137 Bromofluorobenzene	25.000	24.194	96.78	70-130

Data File: /chem/msd5.i/5-08aug.b/5080815.d

Date : 08-AUG-2008 17:49

Client ID: LCS-1

Sample Info: 50ml #1612-71

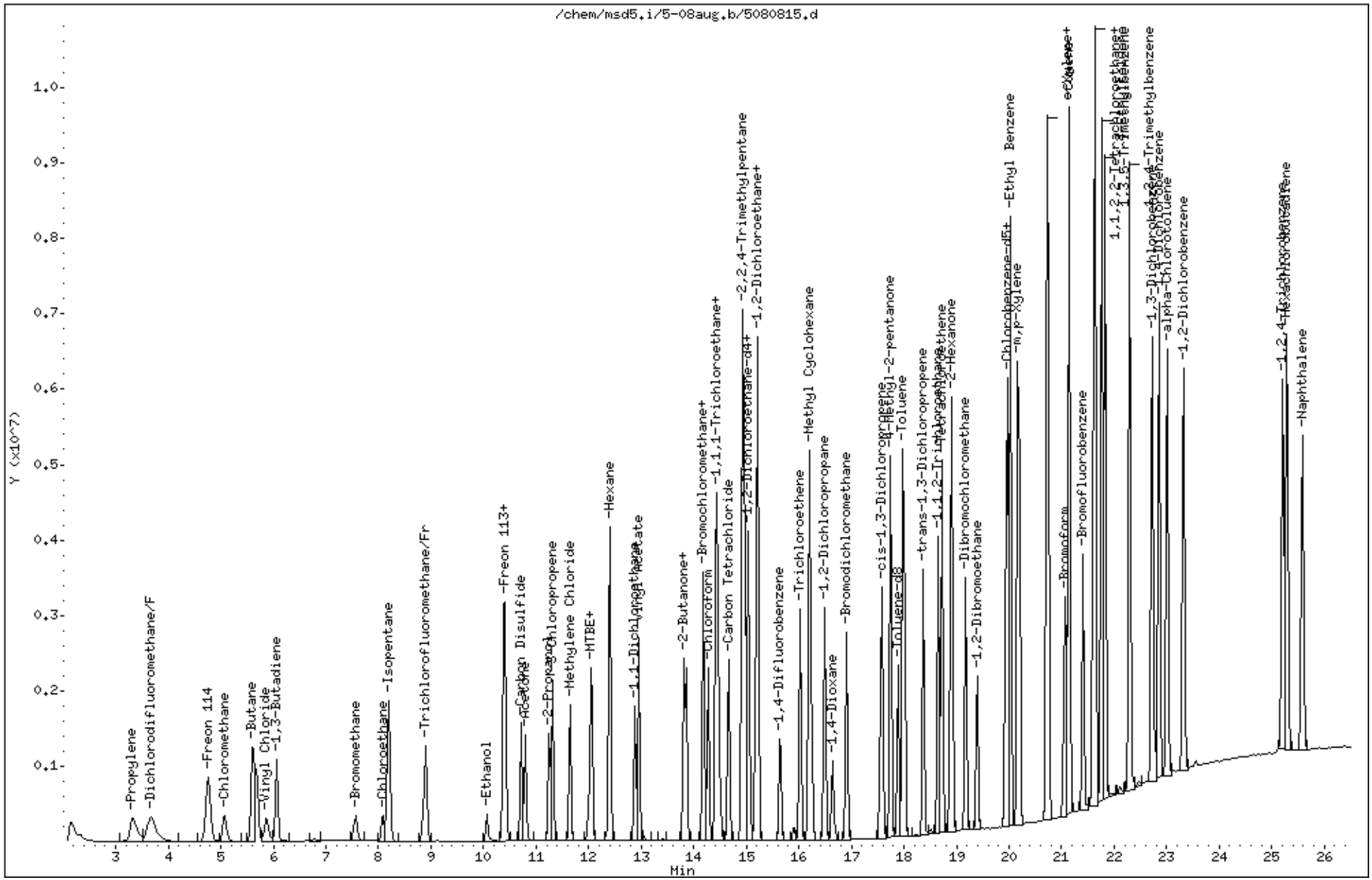
Column phase: RTx-624

Instrument: msd5.i

Operator: smd

Column diameter: 0.53

0073



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080806.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 08-AUG-2008 11:33
Operator : smd Inst ID: msd5.i
Smp Info : 0.3mL #1612-95
Misc Info : 0.3ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:23 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 11:33 Cal File: 5080806.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	379119	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	293254			27.35- 127.35	77.35
14.169	14.169 (1.000)	49	1025967			220.62- 320.62	270.62
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.635 (1.000)	114	1825815	25.0000		50.00- 150.00	100.00
15.635	15.635 (1.000)	88	307220			0.00- 66.83	16.83
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2058498	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1312380			13.75- 113.75	63.75
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	656134	25.0000	25.000	50.00- 150.00	100.00
15.054	15.054 (1.060)	67	334007			0.91- 100.91	50.91
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.145)	98	2122067	25.0000	25.000	50.00- 150.00	100.00
17.902	17.902 (1.145)	70	240356			0.00- 61.33	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1394979			15.74- 115.74	65.74
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1199894	25.0000	25.000	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2000841			116.75- 216.75	166.75
21.414	21.414 (1.075)	176	1146584			45.56- 145.56	95.56
22 1,3-Butadiene					CAS #: 106-99-0		
6.068	6.068 (0.427)	54	10879	0.30000	0.3000	50.00- 150.00	100.00
6.068	6.068 (0.427)	39	10521			46.71- 146.71	96.71
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	18346	0.30000	0.3000	50.00- 150.00	100.00(a)
14.280	14.280 (1.006)	85	12089			15.89- 115.89	65.89
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.961)	78	35819	0.30000	0.3000	50.00- 150.00	100.00(a)
15.027	15.027 (0.961)	77	8596			0.00- 74.00	24.00
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	22759	0.30000	0.3000	50.00- 150.00	100.00
19.395	19.395 (0.974)	109	24274			56.66- 156.66	106.66
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	41713	0.30000	0.3000	50.00- 150.00	100.00(a)
20.750	20.750 (1.042)	78	25183			10.37- 110.37	60.37
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	76376	0.30000	0.3000	50.00- 150.00	100.00(a)
21.137	21.137 (1.061)	120	18931			0.00- 74.79	24.79
21.137	21.137 (1.061)	51	12091			0.00- 65.83	15.83
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	70616	0.30000	0.3000	50.00- 150.00	100.00
21.828	21.828 (1.096)	120	33689			0.00- 97.71	47.71
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	72302	0.30000	0.3000	50.00- 150.00	100.00
22.298	22.298 (1.119)	120	31703			0.00- 93.85	43.85

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: 5080806.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 0.3ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	379119	-2.89
97 1,4-Difluorobenze	1846321	1107793	2584849	1825815	-1.11
126 Chlorobenzene-d5	2069370	1241622	2897118	2058498	-0.53

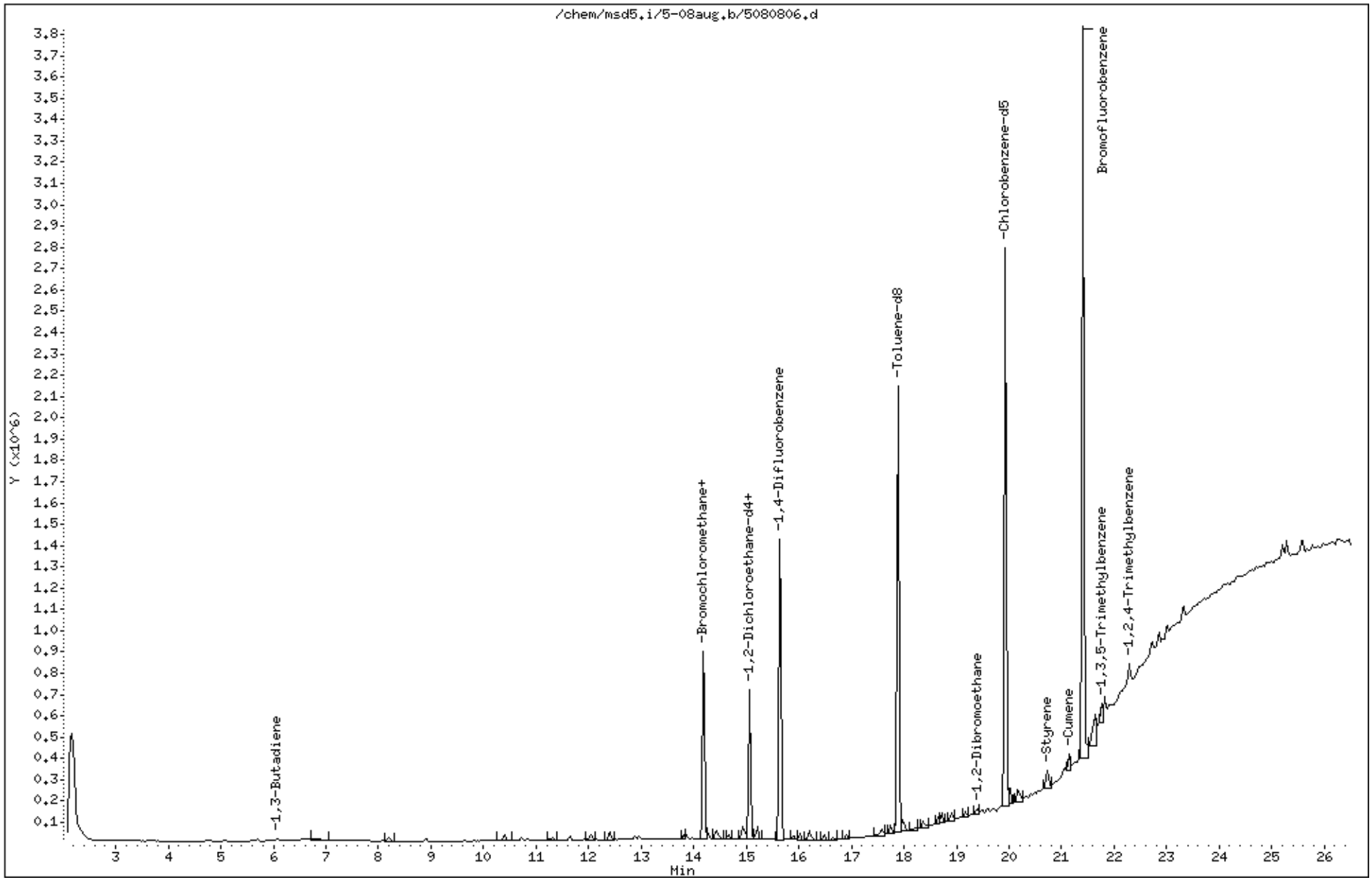
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.63	-0.18
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	0.00

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/5-08aug.b/5080806.d
Date : 08-AUG-2008 11:33
Client ID: Level 1
Sample Info: 0.3mL #1612-95

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080807.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 08-AUG-2008 12:09
Operator : smd Inst ID: msd5.i
Smp Info : 0.5mL #1612-95
Misc Info : 0.5ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:23 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 12:09 Cal File: 5080807.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08lowtba.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.197	14.197 (1.000)	130	374792	25.0000		50.00- 150.00		100.00
14.197	14.197 (1.000)	128	297375			28.35- 128.35		79.34
14.197	14.197 (1.000)	49	1022214			221.68- 321.68		272.74
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.663	15.663 (1.000)	114	1836059	25.0000		50.00- 150.00		100.00
15.663	15.663 (1.000)	88	305348			0.00- 66.73		16.63
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
19.921	19.921 (1.000)	117	2085620	25.0000		50.00- 150.00		100.00
19.921	19.921 (1.000)	82	1328173			13.72- 113.72		63.68
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
15.054	15.054 (1.060)	65	652640	25.0000	25.077	50.00- 150.00		100.00
15.054	15.054 (1.060)	67	330177			0.75- 100.75		50.59
$ 113 Toluene-d8					CAS #: 2037-26-5			
17.902	17.902 (1.143)	98	2135987	25.0000	25.012	50.00- 150.00		100.00
17.902	17.902 (1.143)	70	240319			0.00- 61.29		11.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1414353			15.98- 115.98	66.22
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1220629	25.0000	25.050	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2036134			116.78- 216.78	166.81
21.414	21.414 (1.075)	176	1182936			46.23- 146.23	96.91
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.690	3.690 (0.260)	85	15641	0.50000	0.5000	50.00- 150.00	100.00
3.690	3.690 (0.260)	87	4446			0.00- 78.43	28.43
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	9365	0.50000	0.5000	50.00- 150.00	100.00
4.796	4.796 (0.338)	137	2725			0.00- 79.10	29.10
20 Vinyl Chloride					CAS #: 75-01-4		
5.902	5.902 (0.416)	62	8724	0.50000	0.5000	50.00- 150.00	100.00
5.902	5.902 (0.416)	64	2503			0.00- 78.69	28.69
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	10672	0.50000	0.3732	50.00- 150.00	100.00(a)
6.096	6.096 (0.429)	39	11194			50.80- 150.80	104.89
25 Bromomethane					CAS #: 74-83-9		
7.617	7.617 (0.536)	94	3684	0.50000	0.5000	50.00- 150.00	100.00
7.617	7.617 (0.536)	96	4407			69.63- 169.63	119.63
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	4437	0.50000	0.5000	50.00- 150.00	100.00
8.114	8.114 (0.572)	49	1678			0.00- 87.82	37.82
8.114	8.114 (0.572)	66	1532			0.00- 84.53	34.53
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	15997	0.50000	0.5000	50.00- 150.00	100.00
8.916	8.916 (0.628)	103	12001			25.02- 125.02	75.02
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	9924	0.50000	0.5000	50.00- 150.00	100.00
10.437	10.437 (0.735)	153	6101			11.48- 111.48	61.48
10.437	10.437 (0.735)	101	12709			78.06- 178.06	128.06
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	16560	0.50000	0.5000	50.00- 150.00	100.00
10.409	10.409 (0.733)	96	8693			2.49- 102.49	52.49
10.409	10.409 (0.733)	98	4748			0.00- 78.67	28.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	22157	0.50000	0.5000	50.00- 150.00	100.00
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	18205	0.50000	0.5000	50.00- 150.00	100.00
11.681	11.681 (0.823)	84	7498			0.00- 91.19	41.19
11.653	11.653 (0.821)	51	6529			0.00- 85.86	35.86
60 MTBE					CAS #: 1634-04-4		
12.068	12.068 (0.850)	73	13560	0.50000	0.5000	50.00- 150.00	100.00
12.068	12.068 (0.850)	57	7777			7.35- 107.35	57.35
12.041	12.041 (0.848)	41	9534			20.31- 120.31	70.31
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	9283	0.50000	0.5000	50.00- 150.00	100.00
12.068	12.068 (0.850)	61	17052			133.69- 233.69	183.69
12.068	12.068 (0.850)	98	5380			7.96- 107.96	57.96
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	27777	0.50000	0.5000	50.00- 150.00	100.00
12.400	12.400 (0.873)	43	22535			31.13- 131.13	81.13
12.400	12.400 (0.873)	86	2201			0.00- 57.92	7.92
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.898	12.898 (0.908)	63	18710	0.50000	0.5000	50.00- 150.00	100.00
12.898	12.898 (0.908)	65	6375			0.00- 84.07	34.07
75 2-Butanone					CAS #: 78-93-3		
13.893	13.893 (0.979)	72	4164	0.50000	0.5000	50.00- 150.00	100.00
13.865	13.865 (0.977)	43	34765			784.89- 884.89	834.89
13.865	13.865 (0.977)	57	3846			42.36- 142.36	92.36
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	17258	0.50000	0.5000	50.00- 150.00	100.00
13.810	13.810 (0.973)	96	14035			31.32- 131.32	81.32
13.810	13.810 (0.973)	98	6116			0.00- 85.44	35.44
80 Tetrahydrofuran					CAS #: 109-99-9		
14.197	14.197 (1.000)	42	24760	0.50000	0.5000	50.00- 150.00	100.00
14.197	14.197 (1.000)	71	5166			0.00- 70.86	20.86
14.197	14.197 (1.000)	72	5519			0.00- 72.29	22.29
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	20344	0.50000	0.4023	50.00- 150.00	100.00(a)
14.280	14.280 (1.006)	85	11901			12.20- 112.20	58.50

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	19212	0.50000	0.5000	50.00- 150.00	100.00
14.474	14.474 (1.019)	99	11277			8.70- 108.70	58.70
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.018)	84	15881	0.50000	0.5000	50.00- 150.00	100.00
14.446	14.446 (1.018)	56	30922			144.71- 244.71	194.71
14.446	14.446 (1.018)	41	22014			88.62- 188.62	138.62
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	15773	0.50000	0.5000	50.00- 150.00	100.00
14.667	14.667 (1.033)	117	16903			57.16- 157.16	107.16
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	34777	0.50000	0.3668	50.00- 150.00	100.00(a)
15.027	15.027 (0.959)	77	8772			0.00- 74.61	25.22
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	89617	0.50000	0.5000	50.00- 150.00	100.00
14.944	14.944 (1.053)	56	29641			0.00- 83.08	33.08
14.944	14.944 (1.053)	41	26390			0.00- 79.45	29.45
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.193	15.193 (0.970)	62	16638	0.50000	0.5000	50.00- 150.00	100.00
15.193	15.193 (0.970)	64	5735			0.00- 84.47	34.47
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	14959	0.50000	0.5000	50.00- 150.00	100.00
15.220	15.220 (0.972)	43	42248			232.43- 332.43	282.43
15.220	15.220 (0.972)	57	19720			81.83- 181.83	131.83
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	13846	0.50000	0.5000	50.00- 150.00	100.00
16.022	16.022 (1.023)	130	13366			46.53- 146.53	96.53
16.022	16.022 (1.023)	97	10272			24.19- 124.19	74.19
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	16689	0.50000	0.5000	50.00- 150.00	100.00
16.492	16.492 (1.053)	62	12369			24.11- 124.11	74.11
16.492	16.492 (1.053)	41	12827			26.86- 126.86	76.86
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	19421	0.50000	0.5000	50.00- 150.00	100.00
16.907	16.907 (1.079)	85	12255			13.10- 113.10	63.10
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	19211	0.50000	0.5000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
110 cis-1,3-Dichloropropene (continued)							
17.570	17.570 (1.122)	77	6631			0.00- 84.52	34.52
17.570	17.570 (1.122)	39	17195			39.51- 139.51	89.51
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	16644	0.50000	0.5000	50.00- 150.00	100.00
17.736	17.736 (1.132)	43	47008			232.43- 332.43	282.43
17.764	17.764 (1.134)	85	6252			0.00- 87.56	37.56
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	47514	0.50000	0.5000	50.00- 150.00	100.00
17.985	17.985 (1.148)	92	28065			9.07- 109.07	59.07
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	20964	0.50000	0.5000	50.00- 150.00	100.00
18.372	18.372 (0.922)	77	6278			0.00- 79.95	29.95
18.372	18.372 (0.922)	39	17027			31.22- 131.22	81.22
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	19954	0.50000	0.5000	50.00- 150.00	100.00
18.649	18.649 (0.936)	99	9902			0.00- 99.62	49.62
18.649	18.649 (0.936)	83	14434			22.34- 122.34	72.34
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	18519	0.50000	0.5000	50.00- 150.00	100.00
18.732	18.732 (0.940)	129	14650			29.11- 129.11	79.11
18.732	18.732 (0.940)	131	16641			39.86- 139.86	89.86
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	21192	0.50000	0.5000	50.00- 150.00	100.00
19.174	19.174 (0.963)	127	28982			86.76- 186.76	136.76
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	22570	0.50000	0.3700	50.00- 150.00	100.00(a)
19.395	19.395 (0.974)	109	24667			57.97- 157.97	109.29
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	41186	0.50000	0.5000	50.00- 150.00	100.00
19.976	19.976 (1.003)	114	14453			0.00- 85.09	35.09
19.976	19.976 (1.003)	77	49715			70.71- 170.71	120.71
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	23128	0.50000	0.5000	50.00- 150.00	100.00
20.031	20.031 (1.006)	91	73621			268.32- 368.32	318.32
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	29772	0.50000	0.5000	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 m,p-Xylene (continued)							
20.169	20.169 (1.012)	91	65243			169.14- 269.14	219.14
130 o-Xylene					CAS #: 95-47-6		
20.722	20.722 (1.040)	106	27244	0.50000	0.5000	50.00- 150.00	100.00
20.722	20.722 (1.040)	91	63843			184.34- 284.34	234.34
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	41848	0.50000	0.3727	50.00- 150.00	100.00(a)
20.750	20.750 (1.042)	78	23824			8.65- 108.65	56.93
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	20072	0.50000	0.5000	50.00- 150.00	100.00
21.054	21.054 (1.057)	171	10431			1.97- 101.97	51.97
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	77617	0.50000	0.3757	50.00- 150.00	100.00(a)
21.137	21.137 (1.061)	120	21195			0.00- 76.05	27.31
21.137	21.137 (1.061)	51	12387			0.00- 65.90	15.96
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	45196	0.50000	0.5000	50.00- 150.00	100.00
21.580	21.580 (1.083)	85	29573			15.43- 115.43	65.43
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	108878	0.50000	0.5000	50.00- 150.00	100.00
21.635	21.635 (1.086)	120	23245			0.00- 71.35	21.35
21.635	21.635 (1.086)	105	4600			0.00- 54.22	4.22
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	95842	0.50000	0.5000	50.00- 150.00	100.00
21.773	21.773 (1.093)	120	27627			0.00- 78.83	28.83
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	75497	0.50000	0.3877	50.00- 150.00	100.00(a)
21.828	21.828 (1.096)	120	34547			0.00- 96.73	45.76
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	74235	0.50000	0.3781	50.00- 150.00	100.00(a)
22.298	22.298 (1.119)	120	33057			0.00- 94.19	44.53
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	53610	0.50000	0.5000	50.00- 150.00	100.00
22.741	22.741 (1.142)	148	28553			3.26- 103.26	53.26
22.741	22.741 (1.142)	111	19888			0.00- 87.10	37.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	52017	0.50000	0.5000	50.00- 150.00	100.00
22.851	22.851 (1.147)	148	23916			0.00- 95.98	45.98
22.851	22.851 (1.147)	111	21938			0.00- 92.17	42.17
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	90085	0.50000	0.5000	50.00- 150.00	100.00
23.017	23.017 (1.155)	126	15431			0.00- 67.13	17.13
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.322	23.322 (1.171)	146	55335	0.50000	0.5000	50.00- 150.00	100.00
23.322	23.322 (1.171)	148	25545			0.00- 96.16	46.16
23.322	23.322 (1.171)	111	22615			0.00- 90.87	40.87
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	23612	0.50000	0.5000	50.00- 150.00	100.00
16.216	16.216 (1.142)	98	10521			0.00- 94.56	44.56
16.216	16.216 (1.142)	55	30902			80.87- 180.87	130.87
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	17091	0.50000	0.5000	50.00- 150.00	100.00(a)
12.041	12.041 (0.848)	41	10305			10.29- 110.29	60.29
12.068	12.068 (0.850)	57	7777			0.00- 95.50	45.50

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: 5080807.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 0.5ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

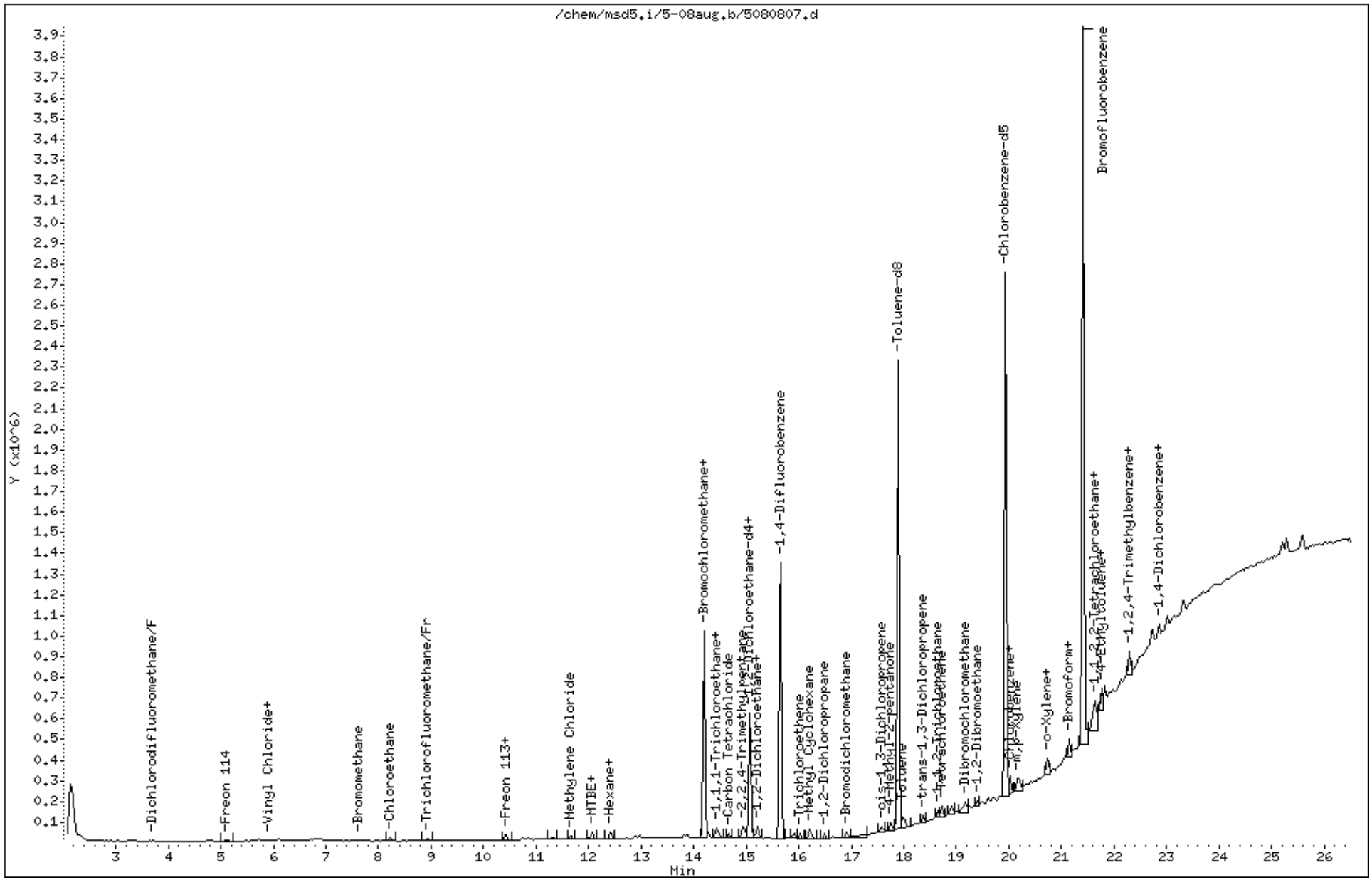
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	374792	-4.00
97 1,4-Difluorobenze	1846321	1107793	2584849	1836059	-0.56
126 Chlorobenzene-d5	2069370	1241622	2897118	2085620	0.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-08aug.b/5080807.d
Date : 08-AUG-2008 12:09
Client ID: Level 2
Sample Info: 0.5mL #1612-95

Instrument: msd5.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



0086

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-02sep.b/5090202.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 02-SEP-2008 11:25
Operator : smd Inst ID: msd5.i
Smp Info : 2.0mL #1541-242
Misc Info : 2.0ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-02sep.b/t14q808c.m
Meth Date : 02-Sep-2008 15:11 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 11:25 Cal File: 5090202.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.170	14.170 (1.000)	130	455518	25.0000		50.00- 150.00		100.00
14.170	14.170 (1.000)	128	357220			28.14- 128.14		78.42
14.170	14.170 (1.000)	49	1275756			225.17- 325.17		280.07
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.635	15.635 (1.000)	114	2017959	25.0000		50.00- 150.00		100.00
15.635	15.635 (1.000)	88	324894			0.00- 66.45		16.10
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
19.921	19.921 (1.000)	117	2419598	25.0000		50.00- 150.00		100.00
19.921	19.921 (1.000)	82	1483929			13.23- 113.23		61.33
21 Isobutane					CAS #: 75-28-5			
4.658	4.658 (0.329)	43	133443	2.00000	1.938	50.00- 150.00		100.00(a)
4.658	4.658 (0.329)	42	43849			0.00- 83.08		32.86
4.686	4.686 (0.331)	58	2369			0.00- 51.88		1.78
37 Pentane					CAS #: 109-66-0			
9.110	9.110 (0.643)	43	164221	2.00000	1.854	50.00- 150.00		100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
37 Pentane (continued)							
9.110	9.110 (0.643)	57	17901			0.00- 61.12	10.90
9.110	9.110 (0.643)	72	7794			0.00- 54.79	4.75
44 Acrolein					CAS #: 107-02-8		
10.382	10.382 (0.733)	55	19259	2.00000	1.647	50.00- 150.00	100.00(a)
10.382	10.382 (0.733)	56	24986			83.41- 183.41	129.74
52 Acetonitrile					CAS #: 75-05-8		
11.515	11.515 (0.813)	40	64572	2.00000	1.924	50.00- 150.00	100.00(a)
11.515	11.515 (0.813)	41	156233			198.09- 298.09	241.95
11.515	11.515 (0.813)	38	18682			0.00- 77.75	28.93
62 Acrylonitrile					CAS #: 107-13-1		
12.262	12.262 (0.865)	52	53487	2.00000	1.633	50.00- 150.00	100.00(a)
12.262	12.262 (0.865)	53	70988			81.25- 181.25	132.72
35 1-Pentene					CAS #: 109-67-1		
8.944	8.944 (0.631)	55	64559	2.00000	1.782	50.00- 150.00	100.00(a)
8.944	8.944 (0.631)	42	111169			122.12- 222.12	172.20
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
39 Ethyl Ether					CAS #: 60-29-7		
9.912	9.912 (0.699)	74	20722	2.00000	1.792	50.00- 150.00	100.00(a)
9.939	9.939 (0.701)	59	42572			155.71- 255.71	205.44
0.000	1.000 (0.000)	31	0			0.00- 50.00	0.00
49 Iodomethane					CAS #: 74-88-4		
10.713	10.713 (0.756)	142	84907	2.00000	1.707	50.00- 150.00	100.00(a)
10.713	10.713 (0.756)	127	35564			0.00- 92.18	41.89
66 1-Hexene					CAS #: 592-41-6		
12.262	12.262 (0.865)	55	54474	2.00000	1.743	50.00- 150.00	100.00(a)
12.262	12.262 (0.865)	41	101580			137.58- 237.58	186.47
12.262	12.262 (0.865)	84	13330			0.00- 75.13	24.47
79 Methyl Acrylate					CAS #: 96-33-3		
13.948	13.948 (0.984)	55	128512	2.00000	1.606	50.00- 150.00	100.00(a)
13.948	13.948 (0.984)	85	13363			0.00- 60.11	10.40
13.948	13.948 (0.984)	58	10535			0.00- 58.38	8.20
50 Methyl Methacrylate					CAS #: 80-62-6		
16.547	16.547 (0.831)	41	143678	2.00000	1.536	50.00- 150.00	100.00(a)
16.547	16.547 (0.831)	69	55987			0.00- 89.32	38.97
16.547	16.547 (0.831)	100	21423			0.00- 64.68	14.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.354	16.354 (0.821)	43	282690	2.00000	1.751	50.00- 150.00	100.00(a)
16.354	16.354 (0.821)	58	15820			0.00- 55.69	5.60
16.354	16.354 (0.821)	86	25533			0.00- 59.25	9.03
48 Ethyl acrylate					CAS #: 140-88-5		
16.160	16.160 (0.811)	99	7810	2.00000	1.552	50.00- 150.00	100.00(a)
16.160	16.160 (0.811)	45	20800			204.90- 304.90	266.33
16.160	16.160 (0.811)	55	165792			2052.96-2152.96	2122.82
105 Dibromomethane					CAS #: 74-95-3		
16.713	16.713 (0.839)	174	55773	2.00000	1.796	50.00- 150.00	100.00(a)
16.713	16.713 (0.839)	93	61165			57.40- 157.40	109.67
16.713	16.713 (0.839)	95	49902			38.93- 138.93	89.47
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
21.663	21.663 (1.087)	75	35369	2.00000	1.794	50.00- 150.00	100.00(a)
21.663	21.663 (1.087)	89	28407			9.93- 109.93	80.32
21.663	21.663 (1.087)	53	31720			45.48- 145.48	89.68
103 Alphamethylstyrene					CAS #: 98-83-9		
22.133	22.133 (1.111)	118	192407	2.00000	1.938	50.00- 150.00	100.00(a)
22.133	22.133 (1.111)	103	121450			9.59- 109.59	63.12
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
22.603	22.603 (1.135)	93	266582	2.00000	2.123	50.00- 150.00	100.00
22.603	22.603 (1.135)	95	87785			0.00- 82.92	32.93
124 Nonane					CAS #: 111-84-2		
20.004	20.004 (1.004)	43	368651	2.00000	2.006	50.00- 150.00	100.00
20.004	20.004 (1.004)	57	265395			25.62- 125.62	71.99
20.004	20.004 (1.004)	85	77919			0.00- 71.70	21.14
56 Cyclopentane					CAS #: 287-92-3		
11.460	11.460 (0.809)	70	30414	2.00000	1.827	50.00- 150.00	100.00(a)
11.460	11.460 (0.809)	55	65526			165.74- 265.74	215.45
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Report Date: 02-Sep-2008 15:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5090202.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-02sep.b/t14q808c.m
Misc Info: 2.0ppbv-200ppbv

Calibration Date: 02-SEP-2008
Calibration Time: 14:29
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	449737	269842	629632	455518	1.29
97 1,4-Difluorobenze	2037716	1222630	2852802	2017959	-0.97
126 Chlorobenzene-d5	2460828	1476497	3445159	2419598	-1.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.17	-0.19
97 1,4-Difluorobenze	15.63	15.30	15.96	15.64	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	0.00

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

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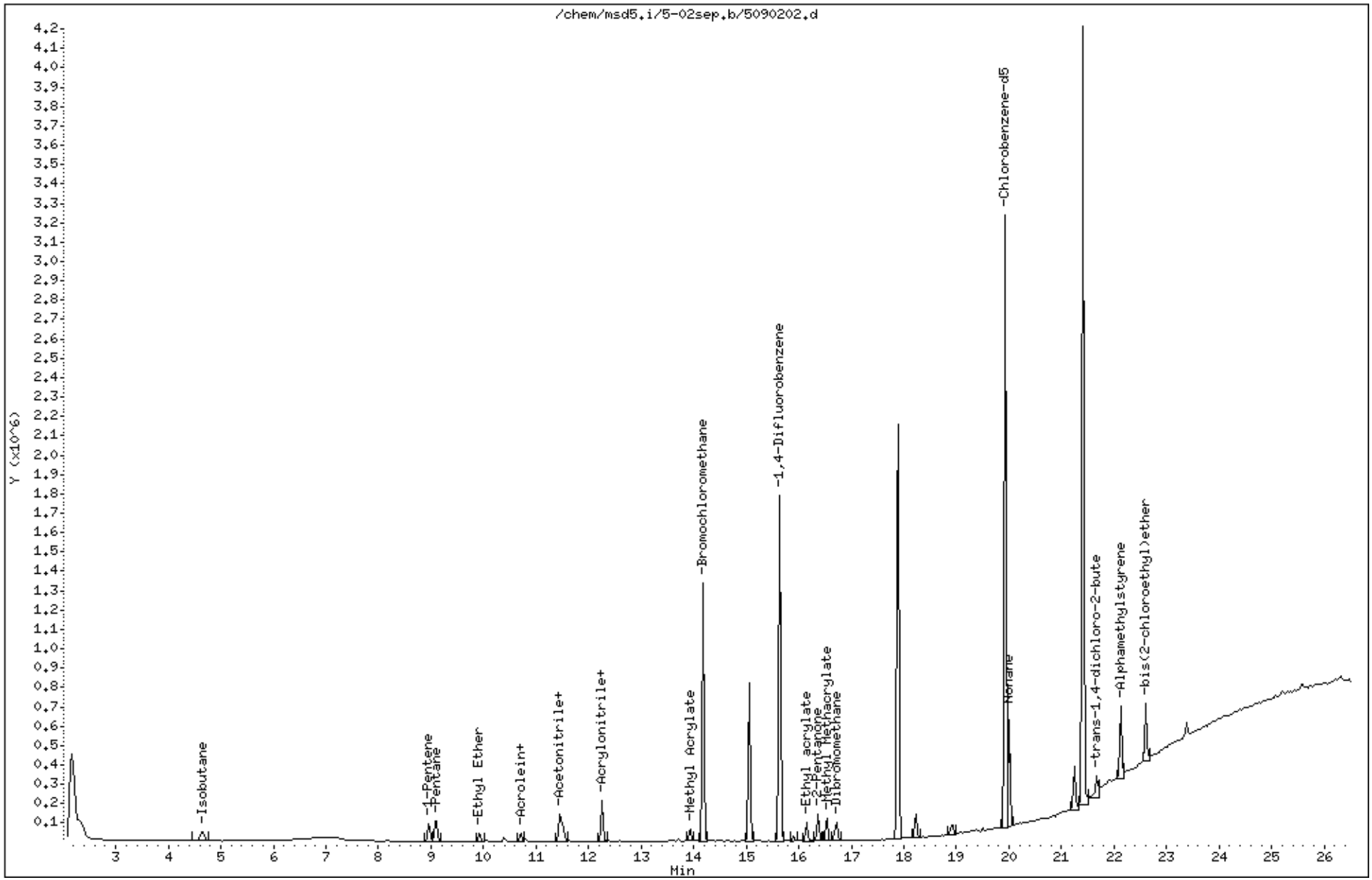
Data File: /chem/msd5.i/5-02sep.b/5090202.d
Date : 02-SEP-2008 11:25
Client ID: Level 3
Sample Info: 2.0mL #1541-242

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-25aug.b/5082502.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 25-AUG-2008 09:36
Operator : smd Inst ID: msd5.i
Smp Info : 2.0mL #1612-118
Misc Info : 2.0ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-25aug.b/t14q808b.m
Meth Date : 25-Aug-2008 14:02 sdisher Quant Type: ISTD
Cal Date : 25-AUG-2008 09:36 Cal File: 5082502.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp1b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.170 (1.000)	130	502808	25.0000		80.00- 120.00	100.00
14.197	14.170 (1.000)	128	388350			27.55- 127.55	77.24
14.197	14.170 (1.000)	49	1410231			242.32- 342.32	280.47
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.635 (1.000)	114	2216576	25.0000		80.00- 120.00	100.00
15.635	15.635 (1.000)	88	364547			0.00- 66.52	16.45
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2589120	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1629741			13.76- 113.76	62.95
206 1-Bromopropane					CAS #: 106-94-5		
14.059	14.059 (0.990)	124	10347	2.00000	1.618	80.00- 120.00	100.00(a)
14.059	14.059 (0.990)	122	10765			52.97- 152.97	104.04
14.031	14.059 (0.988)	43	148042			1404.14-1504.14	1430.77

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: 5082502.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-25aug.b/t14q808b.m
Misc Info: 2.0ppbv-200ppbv

Calibration Date: 25-AUG-2008
Calibration Time: 12:26
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	458420	275052	641788	502808	9.68
97 1,4-Difluorobenze	2103349	1262009	2944689	2216576	5.38
126 Chlorobenzene-d5	2392102	1435261	3348943	2589120	8.24

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.66	0.18
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-25aug.b/5082502.d

Page 1

Date : 25-AUG-2008 09:36

Client ID: Level 3

Instrument: msd5.i

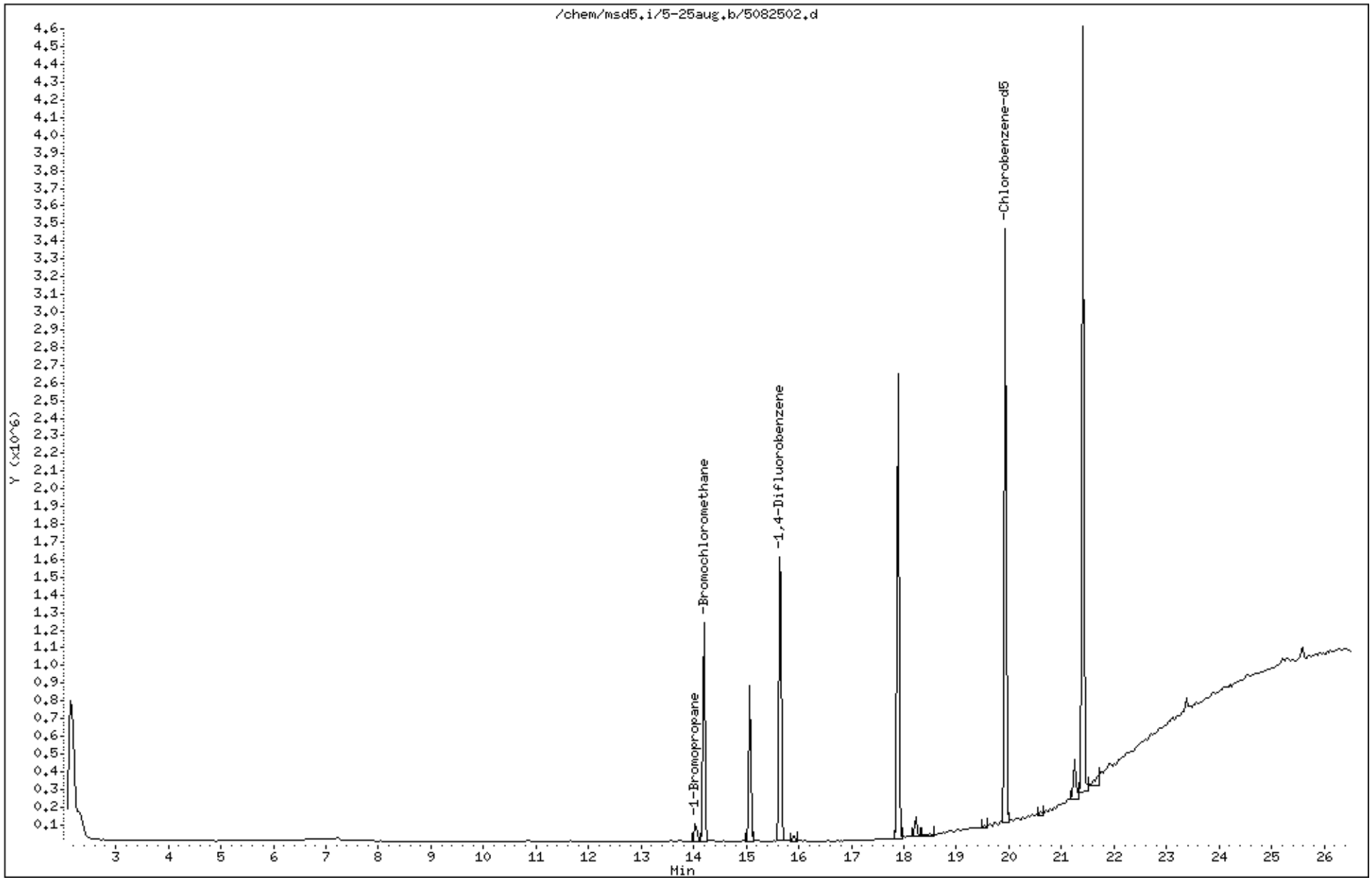
Sample Info: 2.0mL #1612-118

Operator: smd

Column phase: RTx-624

Column diameter: 0.53

0095



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-11aug.b/5081102.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 11-AUG-2008 09:53
Operator : smd Inst ID: msd5.i
Smp Info : 2.0mL #1612-62
Misc Info : 2.0ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-11aug.b/t14q808a.m
Meth Date : 12-Aug-2008 08:44 ctaylor Quant Type: ISTD
Cal Date : 11-AUG-2008 09:53 Cal File: 5081102.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.197	14.197 (1.000)	130	433869	25.0000		50.00-	150.00	100.00
14.197	14.197 (1.000)	128	336767			27.79-	127.79	77.62
14.170	14.170 (1.000)	49	1158021			221.43-	321.43	266.91
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.663	15.663 (1.000)	114	2087357	25.0000		50.00-	150.00	100.00
15.635	15.635 (1.000)	88	341476			0.00-	66.57	16.36
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
19.921	19.921 (1.000)	117	2369569	25.0000		50.00-	150.00	100.00
19.921	19.921 (1.000)	82	1511667			13.92-	113.92	63.80
5 Freon 143a					CAS #: 420-46-2			
2.612	2.612 (0.184)	65	12631	2.00000	2.304	50.00-	150.00	100.00
2.612	2.612 (0.184)	69	26938			0.00-	50.00	213.27
2.585	2.585 (0.182)	64	2111			0.00-	71.72	16.71
6 Freon142b					CAS #: 75-68-3			
5.045	5.045 (0.355)	65	57854	2.00000	1.814	50.00-	150.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Freon142b (continued)							
5.045	5.045 (0.355)	45	21129			0.00- 84.91	36.52
13 Freon 134a					CAS #: 811-97-2		
3.220	3.220 (0.227)	83	24883	2.00000	1.924	50.00- 150.00	100.00(a)
3.220	3.220 (0.227)	69	24876			42.89- 142.89	99.97
3.248	3.248 (0.229)	63	5141			0.00- 64.97	20.66
15 Freon 152a					CAS #: 75-37-6		
3.525	3.525 (0.248)	65	20449	2.00000	1.994	50.00- 150.00	100.00(a)
3.525	3.525 (0.248)	51	51646			216.87- 316.87	252.56
3.525	3.525 (0.248)	47	9993			2.80- 102.80	48.87
17 Freon 22					CAS #: 75-45-6		
4.078	4.078 (0.287)	51	68405	2.00000	1.861	50.00- 150.00	100.00(a)
4.078	4.078 (0.287)	67	9192			0.00- 62.02	13.44
0.000	1.000 (0.000)	85	0			0.00- 51.00	0.00
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
9.082	9.082 (0.640)	67	61431	2.00000	1.837	50.00- 150.00	100.00(a)
9.082	9.082 (0.640)	69	18396			0.00- 79.81	29.95
0.000	1.000 (0.000)	35	0			0.00- 50.00	0.00
40 Freon123a					CAS #: 354-23-4		
10.243	10.243 (0.722)	117	25653	2.00000	1.800	50.00- 150.00	100.00(a)
10.243	10.243 (0.722)	67	42444			115.25- 215.25	165.45
41 Freon123					CAS #: 306-83-2		
10.437	10.437 (0.735)	83	51976	2.00000	1.790	50.00- 150.00	100.00(a)
10.465	10.465 (0.737)	133	8482			0.00- 66.18	16.32
10.437	10.437 (0.735)	85	31814			11.82- 111.82	61.21
68 Isopropyl ether					CAS #: 108-20-3		
12.870	12.870 (0.907)	45	273587	2.00000	1.852	50.00- 150.00	100.00(a)
12.870	12.870 (0.907)	87	37516			0.00- 63.73	13.71
12.870	12.870 (0.907)	59	24014			0.00- 58.73	8.78
71 1-Propanol					CAS #: 71-23-8		
13.147	13.147 (0.926)	42	11720	2.00000	1.575	50.00- 150.00	100.00(a)
13.147	13.147 (0.926)	59	10396			39.75- 139.75	88.70
13.147	13.147 (0.926)	41	6785			9.97- 109.97	57.89
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.423	13.423 (0.945)	59	133698	2.00000	2.242	50.00- 150.00	100.00
13.423	13.423 (0.945)	87	38666			0.00- 78.56	28.92
13.423	13.423 (0.945)	41	31640			0.00- 72.31	23.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 Ethyl Acetate					CAS #: 141-78-6		
13.866	13.866 (0.977)	70	12331	2.00000	1.865	50.00- 150.00	100.00(a)
13.866	13.866 (0.977)	45	26618			170.98- 270.98	215.86
13.866	13.866 (0.977)	61	20450			113.92- 213.92	165.84
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.110	15.110 (1.064)	73	112299	2.00000	2.159	50.00- 150.00	100.00
15.110	15.110 (1.064)	87	25355			0.00- 72.77	22.58
15.110	15.110 (1.064)	55	42069			0.00- 86.89	37.46
96 2-Heptanone					CAS #: 110-43-0		
20.833	20.833 (1.467)	58	206065	2.00000	2.034	50.00- 150.00	100.00
20.833	20.833 (1.467)	43	368420			128.98- 228.98	178.79
98 1-Butanol					CAS #: 71-36-3		
15.912	15.912 (1.016)	56	77087	2.00000	1.925	50.00- 150.00	100.00(a)
15.884	15.884 (1.014)	41	63368			31.22- 131.22	82.20
15.884	15.884 (1.014)	43	49411			14.41- 114.41	64.10
99 Isobutanol					CAS #: 78-83-1		
14.916	14.916 (1.051)	59	2140	2.00000	1.863	50.00- 150.00	100.00(a)
14.916	14.916 (1.051)	41	51256			2501.49-2601.49	2395.14
14.916	14.916 (1.051)	43	70794			3608.48-3708.48	3308.13
119 Butyl Acetate					CAS #: 123-86-4		
18.981	18.981 (1.212)	56	122407	2.00000	1.864	50.00- 150.00	100.00(a)
18.981	18.981 (1.212)	73	58078			0.00- 87.46	47.45
18.981	18.981 (1.212)	43	311475			212.28- 312.28	254.46
135 Cyclohexanone					CAS #: 108-94-1		
21.414	21.414 (1.075)	55	176187	2.00000	2.049	50.00- 150.00	100.00
21.414	21.414 (1.075)	98	53129			0.00- 79.78	30.15
21.414	21.414 (1.075)	42	132374			26.16- 126.16	75.13
146 Diisobutyl Ketone					CAS #: 108-83-8		
21.967	21.967 (1.103)	57	502545	2.00000	2.586	50.00- 150.00	100.00
21.967	21.967 (1.103)	85	322804			13.20- 113.20	64.23
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Report Date: 12-Aug-2008 08:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5081102.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-11aug.b/t14q808a.m
Misc Info: 2.0ppbv-200ppbv

Calibration Date: 11-AUG-2008
Calibration Time: 13:44
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	448200	268920	627480	433869	-3.20
97 1,4-Difluorobenze	2085719	1251431	2920007	2087357	0.08
126 Chlorobenzene-d5	2349482	1409689	3289275	2369569	0.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

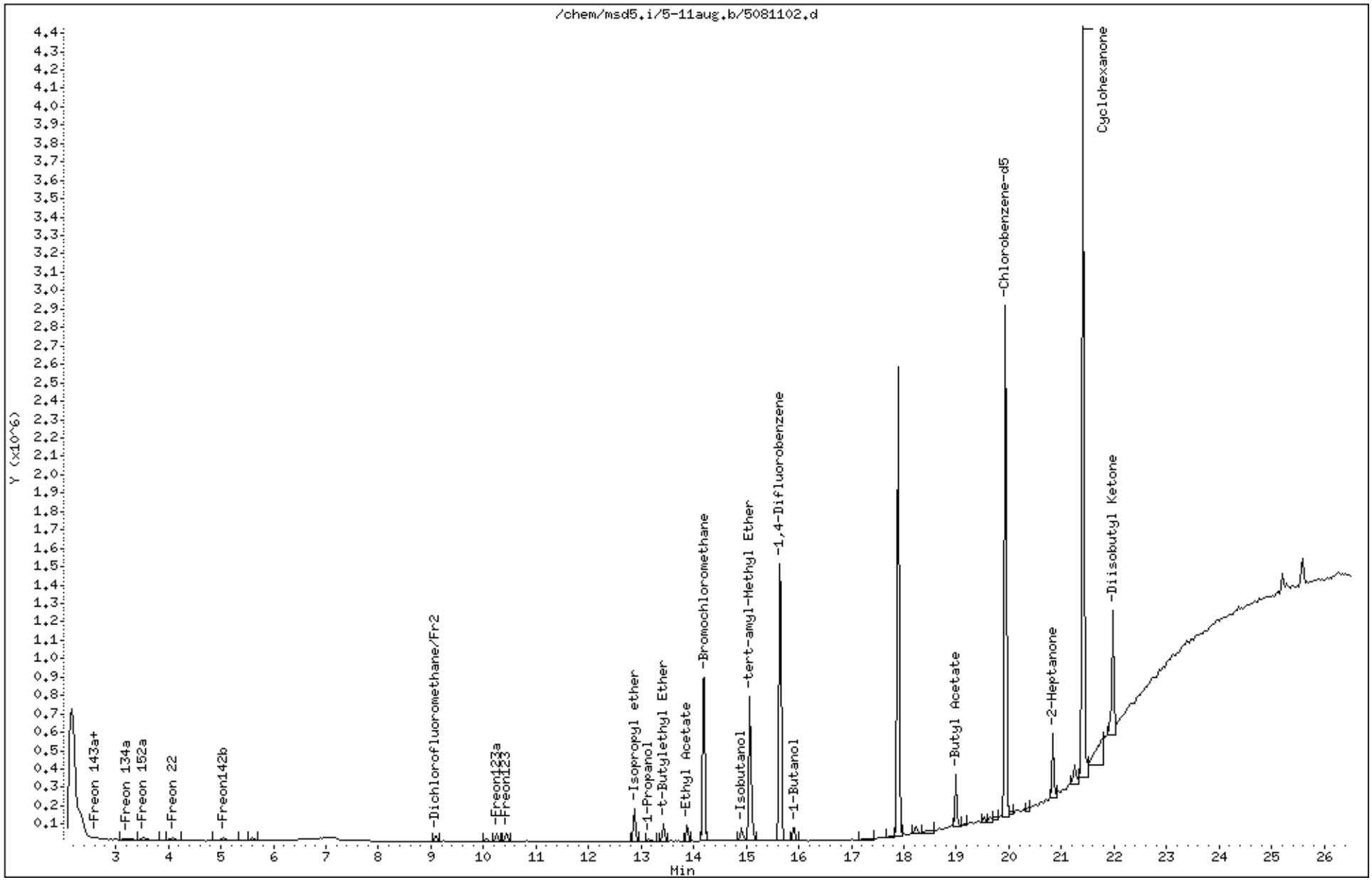
0100

Data File: /chem/msd5.i/5-11aug.b/5081102.d
Date : 11-AUG-2008 09:53
Client ID: Level 3
Sample Info: 2.0mL #1612-62

Instrument: msd5.i

Operator: smd

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080808.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 08-AUG-2008 12:44
Operator : smd Inst ID: msd5.i
Smp Info : 2.0mL #1612-95
Misc Info : 2.0ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:23 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 12:44 Cal File: 5080808.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	380438	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	295657			28.14- 128.14	77.71
14.197	14.197 (1.000)	49	1021157			220.59- 320.59	268.42
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	1817437	25.0000		50.00- 150.00	100.00
15.663	15.663 (1.000)	88	297251			0.00- 66.60	16.36
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2084379	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1320691			13.60- 113.60	63.36
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	662072	25.0000	25.041	50.00- 150.00	100.00
15.054	15.054 (1.060)	67	337747			0.84- 100.84	51.01
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.143)	98	2128657	25.0000	25.121	50.00- 150.00	100.00
17.902	17.902 (1.143)	70	237719			0.00- 61.25	11.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1402163			15.94- 115.94	65.87
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1233357	25.0000	25.217	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2057254			116.79- 216.79	166.80
21.414	21.414 (1.075)	176	1184662			46.17- 146.17	96.05
11 Propylene					CAS #: 115-07-1		
3.303	3.303 (0.233)	41	37305	2.00000	2.000	50.00- 150.00	100.00
3.303	3.303 (0.233)	42	24432			15.49- 115.49	65.49
3.331	3.331 (0.235)	39	31642			34.82- 134.82	84.82
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	62648	2.00000	1.986	50.00- 150.00	100.00
3.663	3.663 (0.258)	87	19124			0.00- 79.48	30.53
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	37372	2.00000	1.983	50.00- 150.00	100.00
4.796	4.796 (0.338)	137	11068			0.00- 79.36	29.62
18 Chloromethane					CAS #: 74-87-3		
5.100	5.100 (0.359)	50	41609	2.00000	2.000	50.00- 150.00	100.00
5.100	5.100 (0.359)	52	14612			0.00- 85.12	35.12
20 Vinyl Chloride					CAS #: 75-01-4		
5.902	5.902 (0.416)	62	36509	2.00000	2.030	50.00- 150.00	100.00
5.902	5.902 (0.416)	64	10975			0.00- 79.38	30.06
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	35675	2.00000	1.410	50.00- 150.00	100.00
6.096	6.096 (0.429)	39	38618			53.28- 153.28	108.25
25 Bromomethane					CAS #: 74-83-9		
7.589	7.589 (0.535)	94	14725	2.00000	1.984	50.00- 150.00	100.00
7.589	7.589 (0.535)	96	15282			61.70- 161.70	103.78
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	19659	2.00000	2.087	50.00- 150.00	100.00
8.114	8.114 (0.572)	49	6710			0.00- 85.98	34.13
8.114	8.114 (0.572)	66	5765			0.00- 81.93	29.32
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	61960	2.00000	1.953	50.00- 150.00	100.00
8.916	8.916 (0.628)	103	41159			20.72- 120.72	66.43

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.105	10.105 (0.712)	45	23803	2.00000	2.000	50.00- 150.00	100.00
10.105	10.105 (0.712)	43	4416			0.00- 68.55	18.55
10.105	10.105 (0.712)	46	7664			0.00- 82.20	32.20
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	39737	2.00000	1.986	50.00- 150.00	100.00
10.437	10.437 (0.735)	153	25514			12.84- 112.84	64.21
10.437	10.437 (0.735)	101	54035			82.02- 182.02	135.98
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	64031	2.00000	1.951	50.00- 150.00	100.00
10.409	10.409 (0.733)	96	34095			2.87- 102.87	53.25
10.409	10.409 (0.733)	98	18017			0.00- 78.40	28.14
45 Acetone					CAS #: 67-64-1		
10.852	10.852 (0.764)	58	23554	2.00000	2.000	50.00- 150.00	100.00
10.852	10.852 (0.764)	43	85242			311.90- 411.90	361.90
46 2-Propanol					CAS #: 67-63-0		
11.266	11.266 (0.794)	45	102202	2.00000	2.000	50.00- 150.00	100.00
11.266	11.266 (0.794)	43	21981			0.00- 71.51	21.51
11.266	11.266 (0.794)	59	3758			0.00- 53.68	3.68
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	88759	2.00000	1.986	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.349	11.349 (0.799)	76	9733	2.00000	2.000	50.00- 150.00	100.00
11.349	11.349 (0.799)	41	61461			581.47- 681.47	631.47
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	65051	2.00000	1.872	50.00- 150.00	100.00
11.653	11.653 (0.821)	84	27597			0.00- 91.81	42.42
11.653	11.653 (0.821)	51	20883			0.00- 83.98	32.10
60 MTBE					CAS #: 1634-04-4		
12.068	12.068 (0.850)	73	45115	2.00000	1.801	50.00- 150.00	100.00
12.040	12.040 (0.848)	57	21784			2.82- 102.82	48.29
12.040	12.040 (0.848)	41	33414			22.19- 122.19	74.06
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	34429	2.00000	1.910	50.00- 150.00	100.00
12.068	12.068 (0.850)	61	69455			142.71- 242.71	201.73
12.068	12.068 (0.850)	98	20959			9.42- 109.42	60.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	98927	2.00000	1.869	50.00- 150.00	100.00
12.400	12.400 (0.873)	43	74887			28.41- 128.41	75.70
12.400	12.400 (0.873)	86	11413			0.00- 59.73	11.54
69 Vinyl Acetate					CAS #: 108-05-4		
12.981	12.981 (0.914)	86	7858	2.00000	2.000	50.00- 150.00	100.00
12.981	12.981 (0.914)	43	152073			1885.26-1985.26	1935.26
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.898	12.898 (0.908)	63	77681	2.00000	2.022	50.00- 150.00	100.00
12.898	12.898 (0.908)	65	23684			0.00- 82.28	30.49
75 2-Butanone					CAS #: 78-93-3		
13.865	13.865 (0.977)	72	20837	2.00000	2.208	50.00- 150.00	100.00
13.865	13.865 (0.977)	43	140591			704.81- 804.81	674.72
13.865	13.865 (0.977)	57	10942			22.44- 122.44	52.51
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	69231	2.00000	1.988	50.00- 150.00	100.00
13.810	13.810 (0.973)	96	39102			18.90- 118.90	56.48
13.810	13.810 (0.973)	98	24485			0.00- 85.40	35.37
80 Tetrahydrofuran					CAS #: 109-99-9		
14.197	14.197 (1.000)	42	99453	2.00000	1.989	50.00- 150.00	100.00
14.197	14.197 (1.000)	71	21787			0.00- 71.39	21.91
14.197	14.197 (1.000)	72	22686			0.00- 72.55	22.81
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	75798	2.00000	1.618	50.00- 150.00	100.00
14.280	14.280 (1.006)	85	46994			12.13- 112.13	62.00
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	72379	2.00000	1.925	50.00- 150.00	100.00
14.474	14.474 (1.019)	99	44231			9.90- 109.90	61.11
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.018)	84	65107	2.00000	2.010	50.00- 150.00	100.00
14.446	14.446 (1.018)	56	117845			137.86- 237.86	181.00
14.446	14.446 (1.018)	41	74059			76.18- 176.18	113.75
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	67393	2.00000	2.051	50.00- 150.00	100.00
14.667	14.667 (1.033)	117	67347			53.55- 153.55	99.93
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	140850	2.00000	1.637	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
15.027	15.027 (0.959)	77	32710			0.00- 74.15	23.22
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	358947	2.00000	1.986	50.00- 150.00	100.00
14.944	14.944 (1.053)	56	120627			0.00- 83.34	33.61
14.944	14.944 (1.053)	41	101366			0.00- 78.84	28.24
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.193	15.193 (0.970)	62	65548	2.00000	1.995	50.00- 150.00	100.00
15.193	15.193 (0.970)	64	20195			0.00- 82.64	30.81
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	55246	2.00000	1.930	50.00- 150.00	100.00
15.220	15.220 (0.972)	43	173765			248.48- 348.48	314.53
15.220	15.220 (0.972)	57	71920			81.00- 181.00	130.18
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	53311	2.00000	1.972	50.00- 150.00	100.00
16.022	16.022 (1.023)	130	53162			48.13- 148.13	99.72
16.022	16.022 (1.023)	97	35364			20.26- 120.26	66.34
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	66255	2.00000	2.003	50.00- 150.00	100.00
16.492	16.492 (1.053)	62	47477			22.89- 122.89	71.66
16.492	16.492 (1.053)	41	48477			25.01- 125.01	73.17
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	34664	2.00000	2.000	50.00- 150.00	100.00
16.658	16.658 (1.064)	58	35769			53.19- 153.19	103.19
16.658	16.658 (1.064)	57	12062			0.00- 84.80	34.80
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	79338	2.00000	2.031	50.00- 150.00	100.00
16.907	16.907 (1.079)	85	47855			11.71- 111.71	60.32
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	76927	2.00000	2.011	50.00- 150.00	100.00
17.570	17.570 (1.122)	77	23609			0.00- 82.60	30.69
17.570	17.570 (1.122)	39	62638			35.47- 135.47	81.43
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	71698	2.00000	2.084	50.00- 150.00	100.00
17.736	17.736 (1.132)	43	218916			243.88- 343.88	305.33
17.736	17.736 (1.132)	85	23758			0.00- 85.35	33.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	180539	2.00000	1.959	50.00- 150.00	100.00
17.985	17.985 (1.148)	92	108780			9.66- 109.66	60.25
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	82619	2.00000	1.986	50.00- 150.00	100.00
18.372	18.372 (0.922)	77	25742			0.00- 80.55	31.16
18.372	18.372 (0.922)	39	63683			29.15- 129.15	77.08
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	64901	2.00000	1.794	50.00- 150.00	100.00
18.649	18.649 (0.936)	99	38402			4.40- 104.40	59.17
18.649	18.649 (0.936)	83	53597			27.46- 127.46	82.58
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	73624	2.00000	1.994	50.00- 150.00	100.00
18.732	18.732 (0.940)	129	56684			28.05- 128.05	76.99
18.732	18.732 (0.940)	131	54317			31.82- 131.82	73.78
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	107080	2.00000	2.000	50.00- 150.00	100.00
18.898	18.898 (0.949)	43	224671			159.82- 259.82	209.82
18.898	18.898 (0.949)	100	15229			0.00- 64.22	14.22
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	83358	2.00000	1.984	50.00- 150.00	100.00
19.174	19.174 (0.963)	127	77864			65.08- 165.08	93.41
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	89607	2.00000	1.612	50.00- 150.00	100.00
19.395	19.395 (0.974)	109	88290			54.83- 154.83	98.53
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	161441	2.00000	1.980	50.00- 150.00	100.00
19.976	19.976 (1.003)	114	51044			0.00- 83.35	31.62
19.976	19.976 (1.003)	77	145003			55.26- 155.26	89.82
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	88852	2.00000	1.960	50.00- 150.00	100.00
20.031	20.031 (1.006)	91	293639			274.40- 374.40	330.48
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	112951	2.00000	1.948	50.00- 150.00	100.00
20.169	20.169 (1.012)	91	232616			162.54- 262.54	205.94
130 o-Xylene					CAS #: 95-47-6		
20.722	20.722 (1.040)	106	109437	2.00000	2.005	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.695	20.695 (1.039)	91	234283			174.21- 274.21	214.08
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	177622	2.00000	1.701	50.00- 150.00	100.00
20.750	20.750 (1.042)	78	87484			5.52- 105.52	49.25
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	80820	2.00000	2.007	50.00- 150.00	100.00
21.054	21.054 (1.057)	171	41256			1.51- 101.51	51.05
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	327637	2.00000	1.704	50.00- 150.00	100.00
21.137	21.137 (1.061)	120	84272			0.00- 75.94	25.72
21.137	21.137 (1.061)	51	47390			0.00- 65.42	14.46
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	189507	2.00000	2.048	50.00- 150.00	100.00
21.580	21.580 (1.083)	85	116370			13.42- 113.42	61.41
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	435601	2.00000	2.001	50.00- 150.00	100.00
21.635	21.635 (1.086)	120	92223			0.00- 71.26	21.17
21.635	21.635 (1.086)	105	16117			0.00- 53.96	3.70
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	388099	2.00000	2.013	50.00- 150.00	100.00
21.773	21.773 (1.093)	120	112912			0.00- 78.96	29.09
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	317067	2.00000	1.736	50.00- 150.00	100.00
21.828	21.828 (1.096)	120	147584			0.00- 96.67	46.55
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	305589	2.00000	1.681	50.00- 150.00	100.00
22.298	22.298 (1.119)	120	133673			0.00- 94.04	43.74
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	192045	2.00000	1.890	50.00- 150.00	100.00
22.741	22.741 (1.142)	148	114460			6.43- 106.43	59.60
22.713	22.713 (1.140)	111	84179			0.00- 90.47	43.83
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	183885	2.00000	1.877	50.00- 150.00	100.00
22.851	22.851 (1.147)	148	112532			3.59- 103.59	61.20
22.851	22.851 (1.147)	111	79654			0.00- 92.75	43.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	319506	2.00000	1.880	50.00- 150.00	100.00
23.017	23.017 (1.155)	126	60281			0.00- 68.00	18.87
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.321	23.321 (1.171)	146	192593	2.00000	1.862	50.00- 150.00	100.00
23.321	23.321 (1.171)	148	123870			5.24- 105.24	64.32
23.294	23.294 (1.169)	111	89234			0.00- 93.60	46.33
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	178590	2.00000	2.000	50.00- 150.00	100.00
25.202	25.202 (1.265)	182	168729			44.48- 144.48	94.48
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	117763	2.00000	2.000	50.00- 150.00	100.00
25.285	25.285 (1.269)	223	73265			12.21- 112.21	62.21
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	443218	2.00000	2.000	50.00- 150.00	100.00
25.589	25.589 (1.285)	127	78379			0.00- 67.68	17.68
29 Isopentane					CAS #: 78-78-4		
8.225	8.225 (0.579)	43	66764	2.00000	2.000	50.00- 150.00	100.00
8.225	8.225 (0.579)	57	39343			8.93- 108.93	58.93
19 Butane					CAS #: 106-97-8		
5.736	5.736 (0.404)	58	7156	2.00000	2.000	50.00- 150.00	100.00
5.736	5.736 (0.404)	43	67460			892.71- 992.71	942.71
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	95084	2.00000	1.992	50.00- 150.00	100.00
16.216	16.216 (1.142)	98	43119			0.00- 94.95	45.35
16.216	16.216 (1.142)	55	114783			75.80- 175.80	120.72
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	61727	2.00000	1.883	50.00- 150.00	100.00(a)
12.040	12.040 (0.848)	41	33337			7.15- 107.15	54.01
12.040	12.040 (0.848)	57	24230			0.00- 92.38	39.25

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: 5080808.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 2.0ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	380438	-2.55
97 1,4-Difluorobenze	1846321	1107793	2584849	1817437	-1.56
126 Chlorobenzene-d5	2069370	1241622	2897118	2084379	0.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

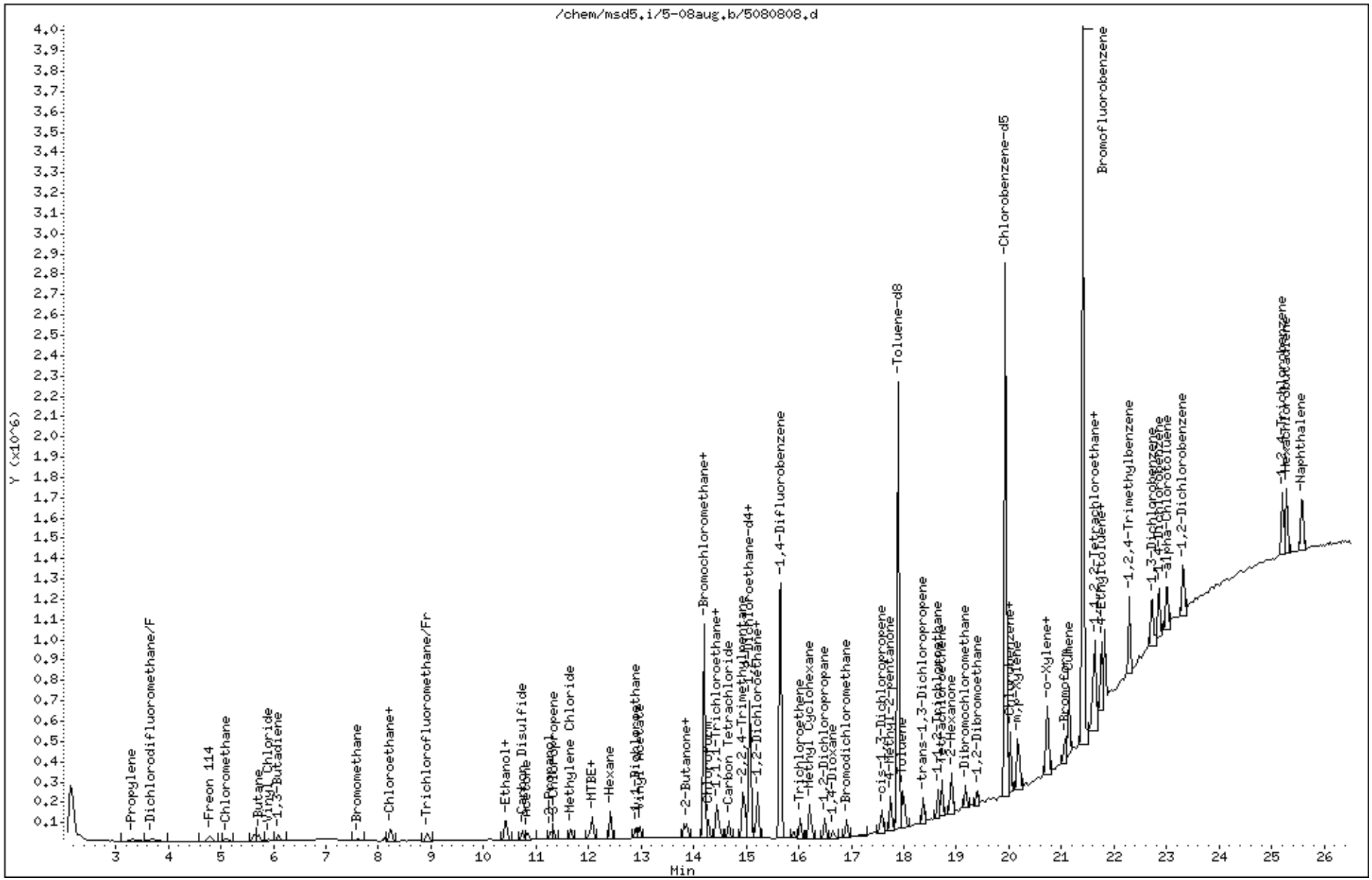
0110

Data File: /chem/msd5.i/5-08aug.b/5080808.d
Date : 08-AUG-2008 12:44
Client ID: Level 3
Sample Info: 2.0mL #1612-95

Instrument: msd5.i

Operator: smd

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080809.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 08-AUG-2008 13:20
Operator : smd Inst ID: msd5.i
Smp Info : 25mL #1612-95
Misc Info : 25ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:23 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 13:20 Cal File: 5080809.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	391596	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	301685			27.86- 127.86	77.04
14.197	14.197 (1.000)	49	1085845			222.27- 322.27	277.29
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	1861781	25.0000		50.00- 150.00	100.00
15.663	15.663 (1.000)	88	306898			0.00- 66.57	16.48
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2099650	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1343144			13.69- 113.69	63.97
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	683275	25.0000	25.080	50.00- 150.00	100.00
15.054	15.054 (1.060)	67	346729			0.81- 100.81	50.75
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.143)	98	2146037	25.0000	24.791	50.00- 150.00	100.00
17.902	17.902 (1.143)	70	242315			0.00- 61.26	11.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1437737			16.20- 116.20	66.99
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1256997	25.0000	25.383	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2095368			116.76- 216.76	166.70
21.414	21.414 (1.075)	176	1212810			46.25- 146.25	96.48
11 Propylene					CAS #: 115-07-1		
3.331	3.331 (0.235)	41	570483	25.0000	27.154	50.00- 150.00	100.00
3.331	3.331 (0.235)	42	386486			16.62- 116.62	67.75
3.331	3.331 (0.235)	39	416754			28.94- 128.94	73.05
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	1090981	25.0000	30.147	50.00- 150.00	100.00
3.663	3.663 (0.258)	87	345733			0.00- 80.21	31.69
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	632535	25.0000	29.601	50.00- 150.00	100.00
4.796	4.796 (0.338)	137	197459			0.00- 79.98	31.22
18 Chloromethane					CAS #: 74-87-3		
5.101	5.101 (0.359)	50	684098	25.0000	28.049	50.00- 150.00	100.00
5.101	5.101 (0.359)	52	212274			0.00- 83.07	31.03
20 Vinyl Chloride					CAS #: 75-01-4		
5.875	5.875 (0.414)	62	637955	25.0000	30.603	50.00- 150.00	100.00
5.875	5.875 (0.414)	64	182669			0.00- 79.13	28.63
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	561821	25.0000	22.341	50.00- 150.00	100.00
6.096	6.096 (0.429)	39	596986			54.03- 154.03	106.26
25 Bromomethane					CAS #: 74-83-9		
7.589	7.589 (0.535)	94	286024	25.0000	32.116	50.00- 150.00	100.00
7.589	7.589 (0.535)	96	265394			55.40- 155.40	92.79
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	336665	25.0000	30.740	50.00- 150.00	100.00
8.114	8.114 (0.572)	49	122346			0.00- 86.10	36.34
8.114	8.114 (0.572)	66	97985			0.00- 80.99	29.10
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	1123979	25.0000	30.577	50.00- 150.00	100.00
8.916	8.916 (0.628)	103	727212			18.72- 118.72	64.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.105	10.105 (0.712)	45	364419	25.0000	27.168	50.00- 150.00	100.00
10.105	10.105 (0.712)	43	70039			0.00- 68.89	19.22
10.105	10.105 (0.712)	46	144762			0.00- 85.96	39.72
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	700214	25.0000	30.357	50.00- 150.00	100.00
10.437	10.437 (0.735)	153	444804			13.07- 113.07	63.52
10.437	10.437 (0.735)	101	945985			83.05- 183.05	135.10
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	1057902	25.0000	28.884	50.00- 150.00	100.00
10.409	10.409 (0.733)	96	463247			0.00- 99.84	43.79
10.409	10.409 (0.733)	98	296085			0.00- 78.27	27.99
45 Acetone					CAS #: 67-64-1		
10.824	10.824 (0.762)	58	401647	25.0000	28.497	50.00- 150.00	100.00
10.824	10.824 (0.762)	43	1428058			308.73- 408.73	355.55
46 2-Propanol					CAS #: 67-63-0		
11.266	11.266 (0.794)	45	1773320	25.0000	28.710	50.00- 150.00	100.00
11.266	11.266 (0.794)	43	296659			0.00- 69.12	16.73
11.266	11.266 (0.794)	59	57203			0.00- 53.45	3.23
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	1626057	25.0000	31.066	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.349	11.349 (0.799)	76	243249	25.0000	33.007	50.00- 150.00	100.00
11.349	11.349 (0.799)	41	1372180			547.79- 647.79	564.11
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	1089455	25.0000	28.396	50.00- 150.00	100.00
11.653	11.653 (0.821)	84	472423			0.00- 92.32	43.36
11.653	11.653 (0.821)	51	326957			0.00- 82.66	30.01
60 MTBE					CAS #: 1634-04-4		
12.040	12.040 (0.848)	73	574727	25.0000	23.130	50.00- 150.00	100.00
12.040	12.040 (0.848)	57	260813			0.34- 100.34	45.38
12.040	12.040 (0.848)	41	369202			19.54- 119.54	64.24
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	609855	25.0000	29.743	50.00- 150.00	100.00
12.068	12.068 (0.850)	61	1198522			143.98- 243.98	196.53
12.068	12.068 (0.850)	98	385352			10.67- 110.67	63.19

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
65 Hexane						CAS #: 110-54-3	
12.400	12.400 (0.873)	57	1709485	25.0000	28.919	50.00- 150.00	100.00
12.400	12.400 (0.873)	43	1326259			28.14- 128.14	77.58
12.400	12.400 (0.873)	86	185700			0.00- 60.11	10.86
69 Vinyl Acetate						CAS #: 108-05-4	
12.981	12.981 (0.914)	86	158593	25.0000	30.534	50.00- 150.00	100.00
12.953	12.953 (0.912)	43	3029179			1872.65-1972.65	1910.03
70 1,1-Dichloroethane						CAS #: 75-34-3	
12.898	12.898 (0.908)	63	1427227	25.0000	31.444	50.00- 150.00	100.00
12.898	12.898 (0.908)	65	428390			0.00- 81.53	30.02
75 2-Butanone						CAS #: 78-93-3	
13.865	13.865 (0.977)	72	371478	25.0000	32.505	50.00- 150.00	100.00
13.865	13.865 (0.977)	43	2564556			683.33- 783.33	690.37
13.865	13.865 (0.977)	57	164739			13.07- 113.07	44.35
76 cis-1,2-Dichloroethene						CAS #: 156-59-2	
13.810	13.810 (0.973)	61	1184623	25.0000	29.844	50.00- 150.00	100.00
13.810	13.810 (0.973)	96	666722			14.70- 114.70	56.28
13.810	13.810 (0.973)	98	421483			0.00- 85.46	35.58
80 Tetrahydrofuran						CAS #: 109-99-9	
14.170	14.170 (0.998)	42	1616554	25.0000	28.938	50.00- 150.00	100.00
14.197	14.197 (1.000)	71	341851			0.00- 71.31	21.15
14.197	14.197 (1.000)	72	366096			0.00- 72.58	22.65
82 Chloroform						CAS #: 67-66-3	
14.280	14.280 (1.006)	83	1282437	25.0000	26.174	50.00- 150.00	100.00
14.280	14.280 (1.006)	85	792550			12.05- 112.05	61.80
83 1,1,1-Trichloroethane						CAS #: 71-55-6	
14.474	14.474 (1.019)	97	1327936	25.0000	30.524	50.00- 150.00	100.00
14.474	14.474 (1.019)	99	849801			11.27- 111.27	63.99
85 Cyclohexane						CAS #: 110-82-7	
14.446	14.446 (1.018)	84	1120695	25.0000	30.147	50.00- 150.00	100.00
14.446	14.446 (1.018)	56	2025932			135.50- 235.50	180.77
14.446	14.446 (1.018)	41	1241919			71.06- 171.06	110.82
87 Carbon Tetrachloride						CAS #: 56-23-5	
14.667	14.667 (1.033)	119	1191439	25.0000	30.999	50.00- 150.00	100.00
14.667	14.667 (1.033)	117	1236920			53.64- 153.64	103.82
89 2,2,4-Trimethylpentane						CAS #: 540-84-1	
14.944	14.944 (1.053)	57	6226716	25.0000	30.077	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	2056698			0.00- 83.24	33.03
14.944	14.944 (1.053)	41	1728470			0.00- 78.48	27.76
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	2395821	25.0000	26.602	50.00- 150.00	100.00
15.027	15.027 (0.959)	77	544577			0.00- 73.79	22.73
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.193	15.193 (0.970)	62	1122319	25.0000	30.006	50.00- 150.00	100.00
15.193	15.193 (0.970)	64	345000			0.00- 82.01	30.74
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	964460	25.0000	29.763	50.00- 150.00	100.00
15.220	15.220 (0.972)	43	2864528			247.99- 347.99	297.01
15.220	15.220 (0.972)	57	1245184			80.37- 180.37	129.11
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	926781	25.0000	30.072	50.00- 150.00	100.00
16.022	16.022 (1.023)	130	894645			47.60- 147.60	96.53
16.022	16.022 (1.023)	97	593976			18.20- 118.20	64.09
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	1116389	25.0000	29.787	50.00- 150.00	100.00
16.492	16.492 (1.053)	62	818130			23.02- 123.02	73.28
16.492	16.492 (1.053)	41	790644			23.62- 123.62	70.82
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	567699	25.0000	28.060	50.00- 150.00	100.00
16.658	16.658 (1.064)	58	594520			53.96- 153.96	104.72
16.658	16.658 (1.064)	57	181960			0.00- 83.42	32.05
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	1467055	25.0000	31.730	50.00- 150.00	100.00
16.907	16.907 (1.079)	85	904382			11.69- 111.69	61.65
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	1366515	25.0000	30.818	50.00- 150.00	100.00
17.570	17.570 (1.122)	77	431261			0.00- 82.26	31.56
17.570	17.570 (1.122)	39	1083845			33.42- 133.42	79.31
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	1168345	25.0000	29.903	50.00- 150.00	100.00
17.736	17.736 (1.132)	43	3562646			247.56- 347.56	304.93
17.736	17.736 (1.132)	85	349194			0.00- 83.53	29.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	2997798	25.0000	29.129	50.00- 150.00	100.00
17.985	17.985 (1.148)	92	1812309			9.92- 109.92	60.45
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	1447815	25.0000	30.645	50.00- 150.00	100.00
18.372	18.372 (0.922)	77	455266			0.00- 80.85	31.45
18.372	18.372 (0.922)	39	1127157			28.72- 128.72	77.85
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	1018546	25.0000	26.897	50.00- 150.00	100.00
18.649	18.649 (0.936)	99	623098			6.66- 106.66	61.18
18.649	18.649 (0.936)	83	888736			30.72- 130.72	87.26
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	1193622	25.0000	29.324	50.00- 150.00	100.00
18.732	18.732 (0.940)	129	935428			28.16- 128.16	78.37
18.732	18.732 (0.940)	131	891664			29.45- 129.45	74.70
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	1699648	25.0000	27.882	50.00- 150.00	100.00
18.898	18.898 (0.949)	43	3620123			161.40- 261.40	212.99
18.898	18.898 (0.949)	100	246444			0.00- 64.36	14.50
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	1496900	25.0000	31.071	50.00- 150.00	100.00
19.174	19.174 (0.963)	127	1157184			52.49- 152.49	77.31
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	1547289	25.0000	26.927	50.00- 150.00	100.00
19.395	19.395 (0.974)	109	1460941			52.22- 152.22	94.42
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	2574689	25.0000	28.905	50.00- 150.00	100.00
19.976	19.976 (1.003)	114	823530			0.00- 82.90	31.99
19.976	19.976 (1.003)	77	2036843			46.55- 146.55	79.11
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	1446018	25.0000	29.083	50.00- 150.00	100.00
20.031	20.031 (1.006)	91	4677360			274.09- 374.09	323.46
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	1830932	25.0000	28.899	50.00- 150.00	100.00
20.169	20.169 (1.012)	91	3706098			159.17- 259.17	202.42
130 o-Xylene					CAS #: 95-47-6		
20.722	20.722 (1.040)	106	1748252	25.0000	29.153	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.695	20.695 (1.039)	91	3740110			170.78- 270.78	213.93
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	2839269	25.0000	26.466	50.00- 150.00	100.00
20.750	20.750 (1.042)	78	1433724			4.26- 104.26	50.50
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	1393384	25.0000	30.544	50.00- 150.00	100.00
21.054	21.054 (1.057)	171	719219			1.54- 101.54	51.62
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	5123745	25.0000	26.078	50.00- 150.00	100.00
21.137	21.137 (1.061)	120	1331292			0.00- 75.95	25.98
21.137	21.137 (1.061)	51	751208			0.00- 65.23	14.66
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	2750461	25.0000	27.832	50.00- 150.00	100.00
21.580	21.580 (1.083)	85	1701830			12.90- 112.90	61.87
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	6644460	25.0000	28.298	50.00- 150.00	100.00
21.635	21.635 (1.086)	120	1421021			0.00- 71.30	21.39
21.635	21.635 (1.086)	105	237986			0.00- 53.84	3.58
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	5948664	25.0000	28.490	50.00- 150.00	100.00
21.773	21.773 (1.093)	120	1766849			0.00- 79.21	29.70
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	4818410	25.0000	25.887	50.00- 150.00	100.00
21.828	21.828 (1.096)	120	2279554			0.00- 96.83	47.31
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	4553633	25.0000	24.905	50.00- 150.00	100.00
22.298	22.298 (1.119)	120	2021909			0.00- 94.13	44.40
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	2582090	25.0000	25.154	50.00- 150.00	100.00
22.741	22.741 (1.142)	148	1640424			8.80- 108.80	63.53
22.741	22.741 (1.142)	111	1195997			0.00- 92.42	46.32
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	2600173	25.0000	25.885	50.00- 150.00	100.00
22.851	22.851 (1.147)	148	1647790			6.85- 106.85	63.37
22.851	22.851 (1.147)	111	1135394			0.00- 93.05	43.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	4568079	25.0000	26.102	50.00- 150.00	100.00
23.017	23.017 (1.155)	126	859471			0.00- 68.27	18.81
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.321	23.321 (1.171)	146	2415818	25.0000	23.758	50.00- 150.00	100.00
23.321	23.321 (1.171)	148	1516690			7.75- 107.75	62.78
23.294	23.294 (1.169)	111	1131647			0.00- 94.68	46.84
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	1836879	25.0000	22.480	50.00- 150.00	100.00
25.202	25.202 (1.265)	182	1742820			44.68- 144.68	94.88
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	1375992	25.0000	24.066	50.00- 150.00	100.00
25.285	25.285 (1.269)	223	861975			12.43- 112.43	62.64
29 Isopentane					CAS #: 78-78-4		
8.225	8.225 (0.579)	43	1160289	25.0000	28.730	50.00- 150.00	100.00
8.225	8.225 (0.579)	57	653772			7.64- 107.64	56.35
19 Butane					CAS #: 106-97-8		
5.736	5.736 (0.404)	58	127401	25.0000	29.024	50.00- 150.00	100.00
5.736	5.736 (0.404)	43	1172295			881.43- 981.43	920.16
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	1623095	25.0000	29.836	50.00- 150.00	100.00
16.216	16.216 (1.142)	98	737989			0.00- 95.12	45.47
16.216	16.216 (1.142)	55	1954293			74.00- 174.00	120.41
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	4252408	25.0000	21.623	50.00- 150.00	100.00
25.589	25.589 (1.285)	127	552902			0.00- 65.34	13.00
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	628430	25.0000	20.355	50.00- 150.00	100.00
12.040	12.040 (0.848)	41	371388			7.15- 107.15	59.10
12.040	12.040 (0.848)	57	267231			0.00- 92.38	42.52

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5080809.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 25ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	391596	0.31
97 1,4-Difluorobenze	1846321	1107793	2584849	1861781	0.84
126 Chlorobenzene-d5	2069370	1241622	2897118	2099650	1.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	0.00

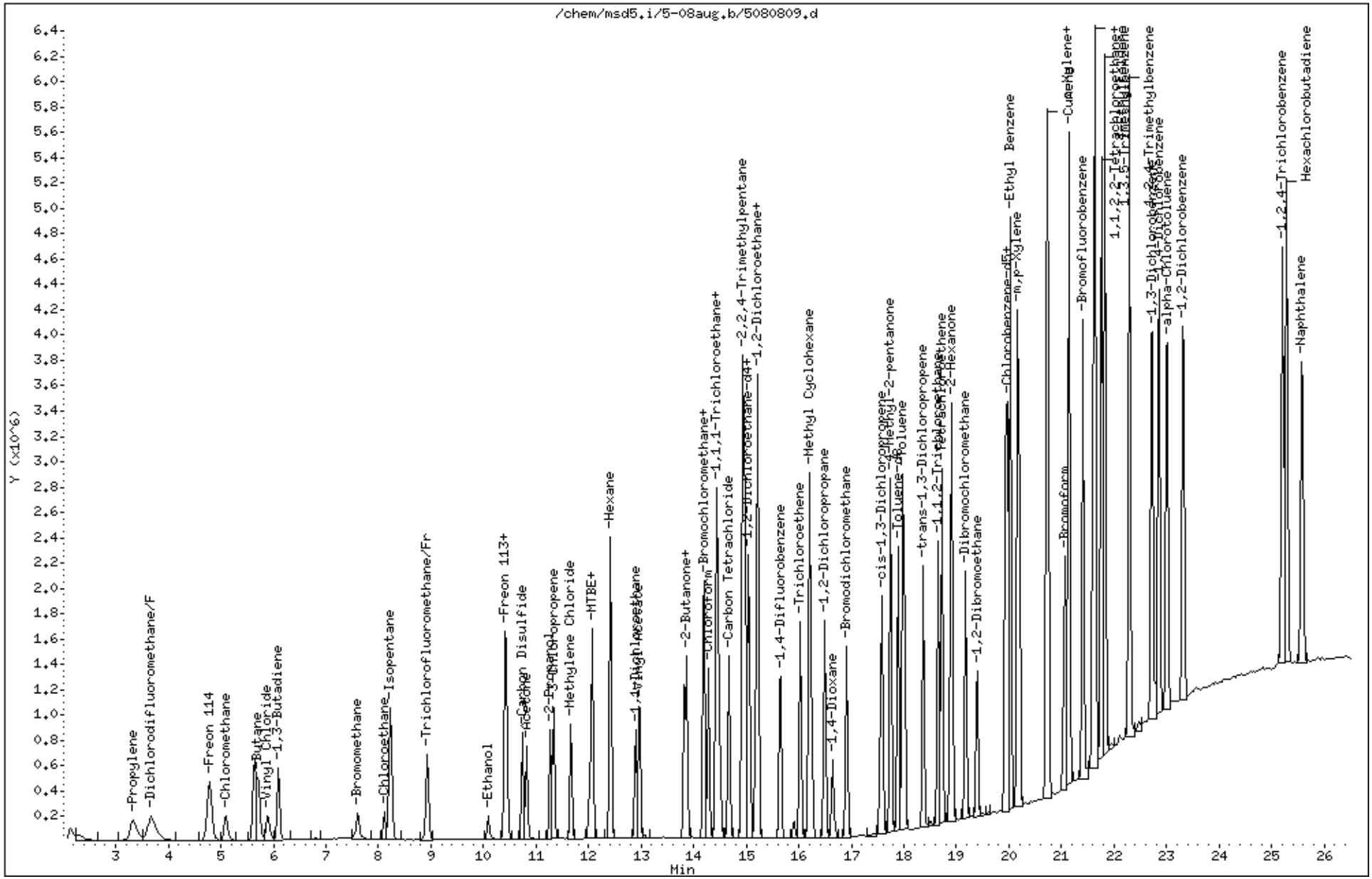
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0120

Data File: /chem/msd5.i/5-08aug.b/5080809.d
Date : 08-AUG-2008 13:20
Client ID: Level 4
Sample Info: 25mL #1612-95

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

Column phase: RTx-624



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AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-02sep.b/5090203.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 02-SEP-2008 12:10
Operator : smd Inst ID: msd5.i
Smp Info : 50mL #1541-242
Misc Info : 50ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-02sep.b/t14q808c.m
Meth Date : 02-Sep-2008 14:00 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:10 Cal File: 5090203.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.197	14.197 (1.000)	130	434676	25.0000		80.00- 120.00		100.00
14.197	14.197 (1.000)	128	343723			29.08- 129.08		79.08
14.170	14.170 (1.000)	49	1205085			227.24- 327.24		277.24
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.635	15.635 (1.000)	114	1986717	25.0000		80.00- 120.00		100.00
15.635	15.635 (1.000)	88	320815			0.00- 66.15		16.15
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
19.921	19.921 (1.000)	117	2435264	25.0000		80.00- 120.00		100.00
19.921	19.921 (1.000)	82	1517603			13.23- 113.23		62.32
21 Isobutane					CAS #: 75-28-5			
4.658	4.658 (0.328)	43	3601074	50.0000	53.078	80.00- 120.00		100.00
4.658	4.658 (0.328)	42	1199515			0.00- 83.08		33.31
4.658	4.658 (0.328)	58	71244			0.00- 51.88		1.98
37 Pentane					CAS #: 109-66-0			
9.137	9.137 (0.644)	43	4599703	50.0000	54.004	80.00- 120.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
37 Pentane (continued)							
9.137	9.137 (0.644)	57	521800			0.00- 61.12	11.34
9.137	9.137 (0.644)	72	222558			0.00- 54.79	4.84
44 Acrolein					CAS #: 107-02-8		
10.409	10.409 (0.733)	55	617192	50.0000	57.326	80.00- 120.00	100.00
10.409	10.409 (0.733)	56	846086			83.41- 183.41	137.09
52 Acetonitrile					CAS #: 75-05-8		
11.543	11.543 (0.813)	40	1771755	50.0000	53.492	80.00- 120.00	100.00
11.543	11.543 (0.813)	41	4504413			198.09- 298.09	254.23
11.543	11.543 (0.813)	38	470555			0.00- 77.75	26.56
62 Acrylonitrile					CAS #: 107-13-1		
12.262	12.262 (0.864)	52	1766360	50.0000	58.059	80.00- 120.00	100.00
12.262	12.262 (0.864)	53	2292298			81.25- 181.25	129.78
35 1-Pentene					CAS #: 109-67-1		
8.999	8.999 (0.634)	55	1920436	50.0000	55.495	80.00- 120.00	100.00
8.999	8.999 (0.634)	42	3303988			122.12- 222.12	172.04
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
39 Ethyl Ether					CAS #: 60-29-7		
9.967	9.967 (0.702)	74	620744	50.0000	55.668	80.00- 120.00	100.00
9.967	9.967 (0.702)	59	1278639			155.71- 255.71	205.98
0.000	1.000 (0.000)	31	0			0.00- 50.00	0.00
49 Iodomethane					CAS #: 74-88-4		
10.741	10.741 (0.757)	142	2901046	50.0000	58.885	80.00- 120.00	100.00
10.741	10.741 (0.757)	127	1226920			0.00- 92.09	42.29
66 1-Hexene					CAS #: 592-41-6		
12.289	12.289 (0.866)	55	1713751	50.0000	56.873	80.00- 120.00	100.00
12.289	12.289 (0.866)	41	3233616			137.58- 237.58	188.69
12.289	12.289 (0.866)	84	441868			0.00- 75.13	25.78
79 Methyl Acrylate					CAS #: 96-33-3		
13.948	13.948 (0.982)	55	4421316	50.0000	59.052	80.00- 120.00	100.00
13.948	13.948 (0.982)	85	453197			0.00- 60.32	10.25
13.948	13.948 (0.982)	58	377603			0.00- 58.37	8.54
50 Methyl Methacrylate					CAS #: 80-62-6		
16.547	16.547 (0.831)	41	5218603	50.0000	59.075	80.00- 120.00	100.00
16.547	16.547 (0.831)	69	2070863			0.00- 89.32	39.68
16.547	16.547 (0.831)	100	754307			0.00- 64.68	14.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.354	16.354 (0.821)	43	9479293	50.0000	57.131	80.00- 120.00	100.00
16.354	16.354 (0.821)	58	548866			0.00- 55.69	5.79
16.354	16.354 (0.821)	86	896979			0.00- 59.25	9.46
48 Ethyl acrylate					CAS #: 140-88-5		
16.160	16.160 (0.811)	99	294963	50.0000	60.016	80.00- 120.00	100.00
16.160	16.160 (0.811)	45	718187			193.48- 293.48	243.48
16.160	16.160 (0.811)	55	6144385			2033.10-2133.10	2083.10
105 Dibromomethane					CAS #: 74-95-3		
16.713	16.713 (0.839)	174	1725779	50.0000	55.152	80.00- 120.00	100.00
16.713	16.713 (0.839)	93	1814245			57.40- 157.40	105.13
16.713	16.713 (0.839)	95	1525477			38.93- 138.93	88.39
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
21.663	21.663 (1.087)	75	1050032	50.0000	54.126	80.00- 120.00	100.00
21.663	21.663 (1.087)	89	525179			15.17- 115.17	50.02
21.663	21.663 (1.087)	53	1017591			43.30- 143.30	96.91
103 Alphamethylstyrene					CAS #: 98-83-9		
22.133	22.133 (1.111)	118	5491628	50.0000	53.147	80.00- 120.00	100.00
22.133	22.133 (1.111)	103	3078344			9.59- 109.59	56.06
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
22.603	22.603 (1.135)	93	6558743	50.0000	49.438	80.00- 120.00	100.00
22.603	22.603 (1.135)	95	2118532			0.00- 82.62	32.30
124 Nonane					CAS #: 111-84-2		
20.004	20.004 (1.004)	43	11379686	50.0000	55.092	80.00- 120.00	100.00
20.004	20.004 (1.004)	57	7802963			20.28- 120.28	68.57
20.004	20.004 (1.004)	85	2169180			0.00- 70.10	19.06
56 Cyclopentane					CAS #: 287-92-3		
11.488	11.488 (0.809)	70	894335	50.0000	55.209	80.00- 120.00	100.00
11.488	11.488 (0.809)	55	1890417			163.41- 263.41	211.38
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5090203.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-02sep.b/t14q808c.m
Misc Info: 50ppbv-200ppbv

Calibration Date: 02-SEP-2008
Calibration Time: 12:10
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	434676	260806	608546	434676	0.00
97 1,4-Difluorobenze	1986717	1192030	2781404	1986717	0.00
126 Chlorobenzene-d5	2435264	1461158	3409370	2435264	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

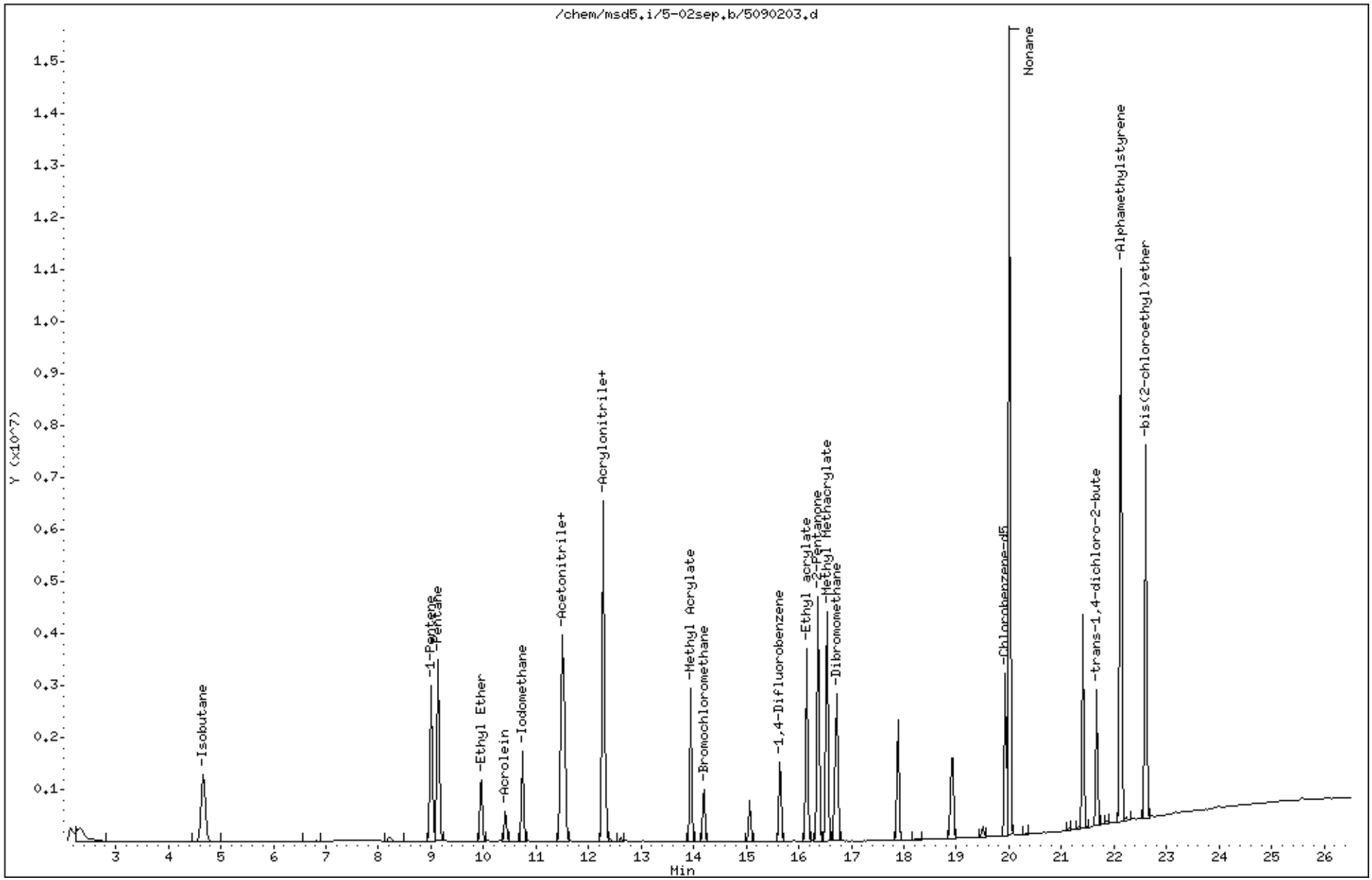
0125

Data File: /chem/msd5.i/5-02sep.b/5090203.d
Date : 02-SEP-2008 12:10
Client ID: Level 5
Sample Info: 50mL #1541-242

Column phase: RTx-624

Instrument: msd5.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-25aug.b/5082503.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 25-AUG-2008 10:13
Operator : ct Inst ID: msd5.i
Smp Info : 50mL #1612-118
Misc Info : 50ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-25aug.b/t14q808b.m
Meth Date : 25-Aug-2008 14:02 sdisher Quant Type: ISTD
Cal Date : 25-AUG-2008 10:13 Cal File: 5082503.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp1b.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
* 81 Bromochloromethane						CAS #: 74-97-5		
14.197	14.170 (1.000)	130	450770	25.0000		80.00- 120.00		100.00
14.197	14.170 (1.000)	128	355809			27.55- 127.55		78.93
14.197	14.170 (1.000)	49	1269216			242.32- 342.32		281.57
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
15.663	15.635 (1.000)	114	2116472	25.0000		80.00- 120.00		100.00
15.635	15.635 (1.000)	88	347168			0.00- 66.52		16.40
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2464157	25.0000		80.00- 120.00		100.00
19.921	19.921 (1.000)	82	1573684			13.76- 113.76		63.86
206 1-Bromopropane						CAS #: 106-94-5		
14.059	14.059 (0.990)	124	341536	50.0000	50.000	80.00- 120.00		100.00
14.059	14.059 (0.990)	122	347280			52.97- 152.97		101.68
14.031	14.059 (0.988)	43	4814588			1404.14-1504.14		1409.69

Report Date: 26-Aug-2008 09:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5082503.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd5.i/5-25aug.b/t14q808b.m
Misc Info: 50ppbv-200ppbv

Calibration Date: 25-AUG-2008
Calibration Time: 12:26
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	458420	275052	641788	450770	-1.67
97 1,4-Difluorobenze	2103349	1262009	2944689	2116472	0.62
126 Chlorobenzene-d5	2392102	1435261	3348943	2464157	3.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.66	0.18
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

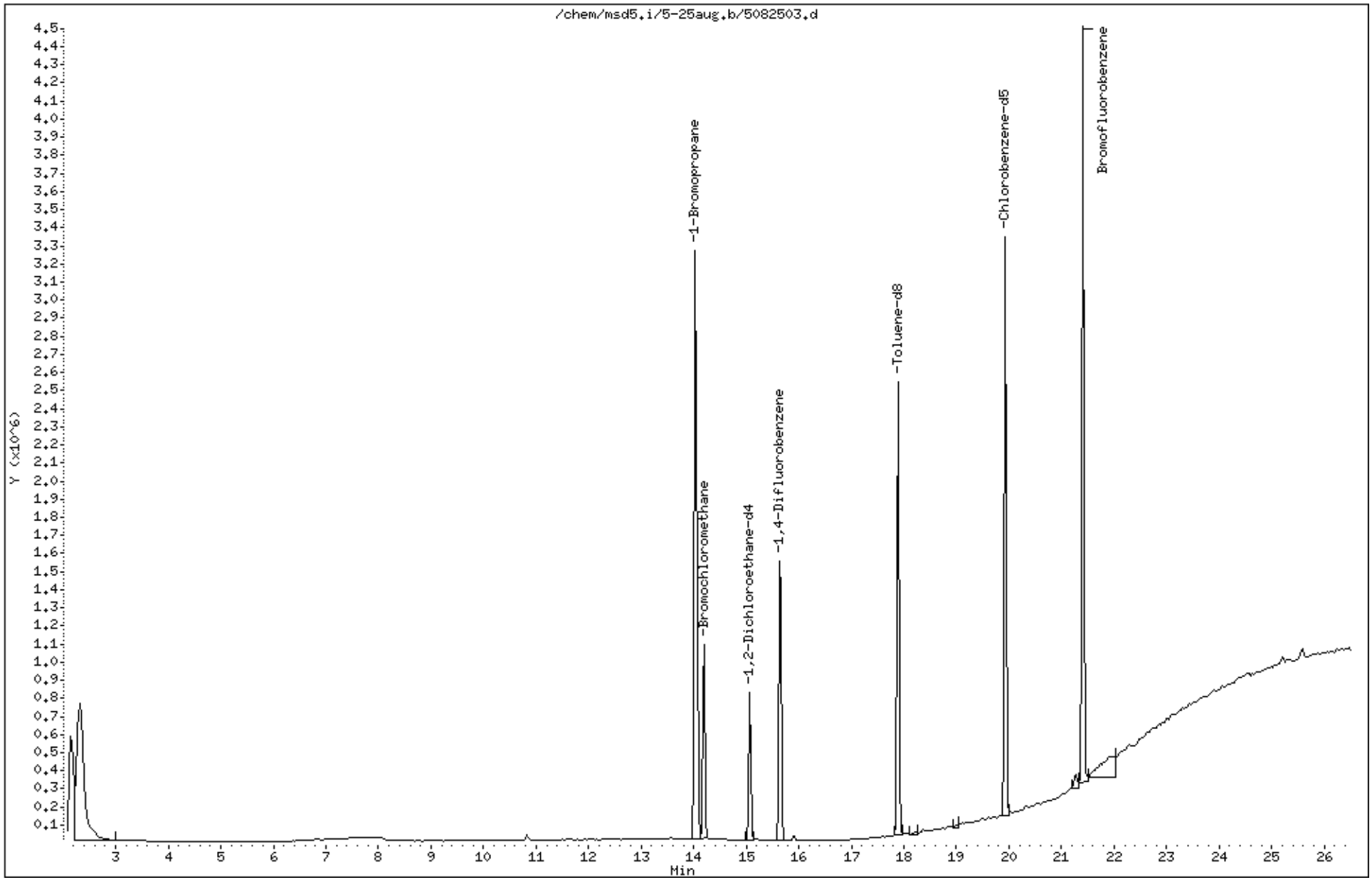
0128

Data File: /chem/msd5.i/5-25aug.b/5082503.d
Date : 25-AUG-2008 10:13
Client ID: Level 5
Sample Info: 50mL #1612-118

Column phase: RTx-624

Instrument: msd5.i

Operator: ct
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-11aug.b/5081103.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 11-AUG-2008 10:30
Operator : smd Inst ID: msd5.i
Smp Info : 50mL #1612-62
Misc Info : 50ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-11aug.b/t14q808a.m
Meth Date : 12-Aug-2008 08:45 ctaylor Quant Type: ISTD
Cal Date : 11-AUG-2008 10:30 Cal File: 5081103.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	435576	25.0000		80.00- 120.00	100.00
14.197	14.197 (1.000)	128	338698			27.76- 127.76	77.76
14.197	14.197 (1.000)	49	1167216			217.97- 317.97	267.97
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	2073454	25.0000		80.00- 120.00	100.00
15.663	15.663 (1.000)	88	344796			0.00- 66.63	16.63
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2345465	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1499953			13.92- 113.92	63.95
5 Freon 143a					CAS #: 420-46-2		
2.612	2.612 (0.184)	65	268649	50.0000	48.803	80.00- 120.00	100.00
2.612	2.612 (0.184)	69	684491			0.00- 50.00	254.79
2.612	2.612 (0.184)	64	64287			0.00- 71.72	23.93
6 Freon142b					CAS #: 75-68-3		
5.045	5.045 (0.355)	65	1772039	50.0000	55.358	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
6 Freon142b (continued)							
5.045	5.045 (0.355)	45	590122			0.00- 84.91	33.30
13 Freon 134a					CAS #: 811-97-2		
3.221	3.221 (0.227)	83	703998	50.0000	54.232	80.00- 120.00	100.00
3.221	3.221 (0.227)	69	623099			42.89- 142.89	88.51
3.193	3.193 (0.225)	63	85861			0.00- 64.97	12.20
15 Freon 152a					CAS #: 75-37-6		
3.525	3.525 (0.248)	65	545678	50.0000	53.003	80.00- 120.00	100.00
3.552	3.552 (0.250)	51	1483389			216.87- 316.87	271.84
3.552	3.552 (0.250)	47	298226			2.80- 102.80	54.65
17 Freon 22					CAS #: 75-45-6		
4.078	4.078 (0.287)	51	2011872	50.0000	54.528	80.00- 120.00	100.00
4.078	4.078 (0.287)	67	213462			0.00- 62.02	10.61
4.105	4.105 (0.289)	85	20103			0.00- 51.00	1.00
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
9.110	9.110 (0.642)	67	1811238	50.0000	53.946	80.00- 120.00	100.00
9.110	9.110 (0.642)	69	537360			0.00- 79.81	29.67
0.000	1.000 (0.000)	35	0			0.00- 50.00	0.00
40 Freon123a					CAS #: 354-23-4		
10.271	10.271 (0.723)	117	785209	50.0000	54.886	80.00- 120.00	100.00
10.271	10.271 (0.723)	67	1295991			115.25- 215.25	165.05
41 Freon123					CAS #: 306-83-2		
10.465	10.465 (0.737)	83	1616647	50.0000	55.443	80.00- 120.00	100.00
10.465	10.465 (0.737)	133	259164			0.00- 66.18	16.03
10.465	10.465 (0.737)	85	1009234			11.82- 111.82	62.43
68 Isopropyl ether					CAS #: 108-20-3		
12.870	12.870 (0.907)	45	8718418	50.0000	58.777	80.00- 120.00	100.00
12.870	12.870 (0.907)	87	1198738			0.00- 63.73	13.75
12.870	12.870 (0.907)	59	756333			0.00- 58.73	8.68
71 1-Propanol					CAS #: 71-23-8		
13.147	13.147 (0.926)	42	424415	50.0000	56.826	80.00- 120.00	100.00
13.147	13.147 (0.926)	59	385398			39.75- 139.75	90.81
13.147	13.147 (0.926)	41	263324			9.97- 109.97	62.04
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.423	13.423 (0.945)	59	3546819	50.0000	59.249	80.00- 120.00	100.00
13.423	13.423 (0.945)	87	1000139			0.00- 78.56	28.20
13.423	13.423 (0.945)	41	743181			0.00- 72.31	20.95

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
77 Ethyl Acetate					CAS #: 141-78-6		
13.893	13.893 (0.979)	70	372692	50.0000	56.135	80.00- 120.00	100.00
13.866	13.866 (0.977)	45	842674			170.98- 270.98	226.10
13.893	13.893 (0.979)	61	603754			113.92- 213.92	162.00
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.110	15.110 (1.064)	73	3096044	50.0000	59.287	80.00- 120.00	100.00
15.110	15.110 (1.064)	87	710964			0.00- 72.77	22.96
15.110	15.110 (1.064)	55	1124540			0.00- 86.89	36.32
96 2-Heptanone					CAS #: 110-43-0		
20.833	20.833 (1.467)	58	5479066	50.0000	53.873	80.00- 120.00	100.00
20.833	20.833 (1.467)	43	9816764			128.98- 228.98	179.17
98 1-Butanol					CAS #: 71-36-3		
15.912	15.912 (1.016)	56	2025746	50.0000	50.923	80.00- 120.00	100.00
15.912	15.912 (1.016)	41	1625206			31.22- 131.22	80.23
15.912	15.912 (1.016)	43	1310970			14.41- 114.41	64.72
99 Isobutanol					CAS #: 78-83-1		
14.916	14.916 (1.051)	59	62399	50.0000	54.102	80.00- 120.00	100.00
14.916	14.916 (1.051)	41	1689664			2501.49-2601.49	2707.84
14.916	14.916 (1.051)	43	2501465			3608.48-3708.48	4008.82
119 Butyl Acetate					CAS #: 123-86-4		
18.981	18.981 (1.212)	56	3440286	50.0000	52.750	80.00- 120.00	100.00
18.981	18.981 (1.212)	73	944989			0.00- 77.47	27.47
18.981	18.981 (1.212)	43	9292467			220.11- 320.11	270.11
135 Cyclohexanone					CAS #: 108-94-1		
21.414	21.414 (1.075)	55	4196793	50.0000	49.300	80.00- 120.00	100.00
21.414	21.414 (1.075)	98	1275648			0.00- 79.78	30.40
21.414	21.414 (1.075)	42	3237998			26.16- 126.16	77.15
146 Diisobutyl Ketone					CAS #: 108-83-8		
21.967	21.967 (1.103)	57	10057810	50.0000	52.281	80.00- 120.00	100.00
21.967	21.967 (1.103)	85	6252299			12.16- 112.16	62.16
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

Report Date: 12-Aug-2008 08:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5081103.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-11aug.b/t14q808a.m
Misc Info: 50ppbv-200ppbv

Calibration Date: 11-AUG-2008
Calibration Time: 10:30
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	435576	261346	609806	435576	0.00
97 1,4-Difluorobenze	2073454	1244072	2902836	2073454	0.00
126 Chlorobenzene-d5	2345465	1407279	3283651	2345465	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-11aug.b/5081103.d

Date : 11-AUG-2008 10:30

Client ID: Level 5

Sample Info: 50mL #1612-62

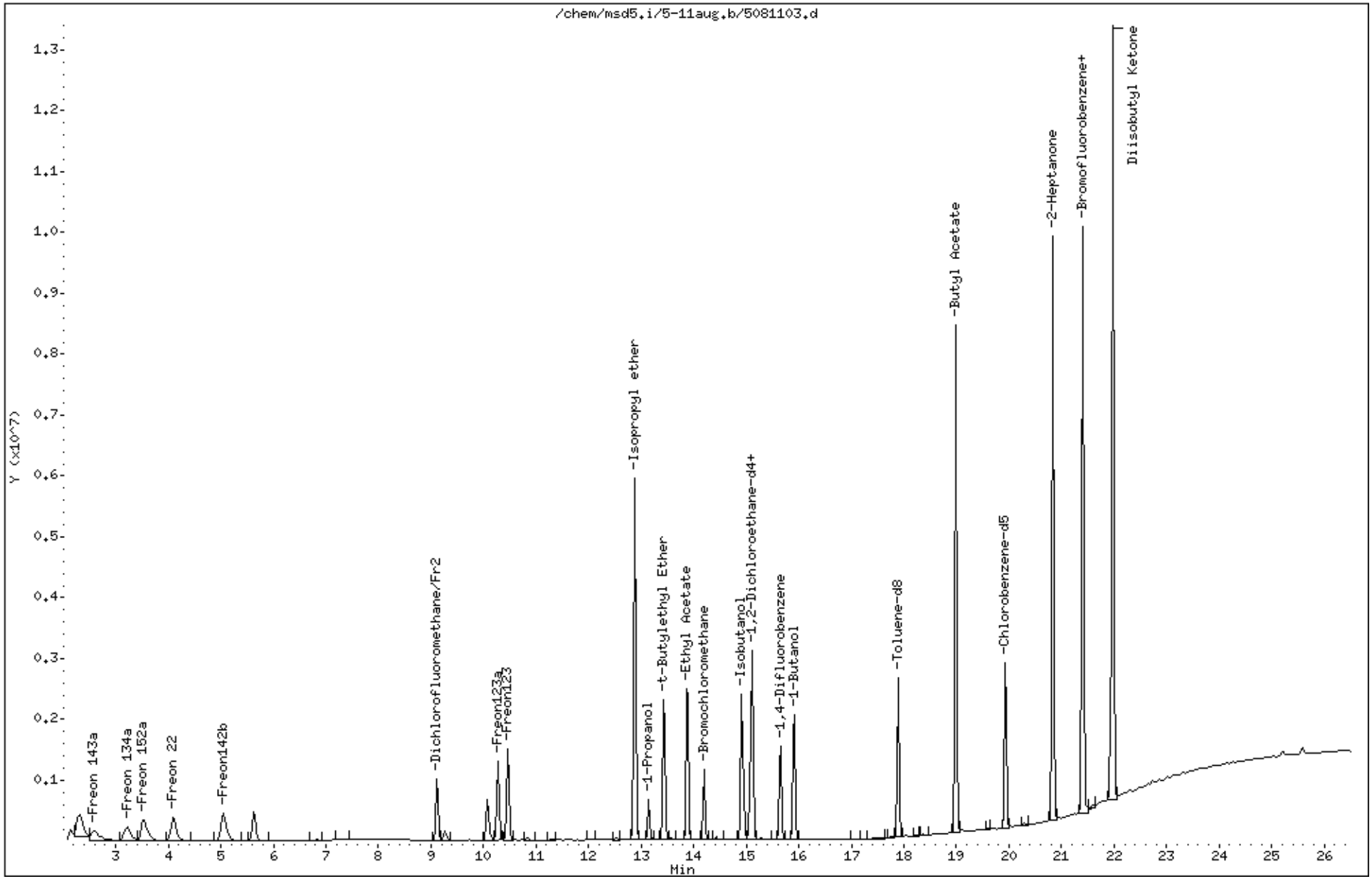
Column phase: RTx-624

Instrument: msd5.i

Operator: smd

Column diameter: 0.53

0133



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080810.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 08-AUG-2008 13:56
Operator : smd Inst ID: msd5.i
Smp Info : 50mL #1612-95
Misc Info : 50ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:24 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 13:56 Cal File: 5080810.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
14.197	14.197 (1.000)	130	390402	25.0000		80.00- 120.00		100.00
14.197	14.197 (1.000)	128	303923			27.85- 127.85		77.85
14.197	14.197 (1.000)	49	1061172			221.82- 321.82		271.82
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.663	15.663 (1.000)	114	1846321	25.0000		80.00- 120.00		100.00
15.663	15.663 (1.000)	88	304229			0.00- 66.48		16.48
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
19.921	19.921 (1.000)	117	2069370	25.0000		80.00- 120.00		100.00
19.921	19.921 (1.000)	82	1320147			13.71- 113.71		63.79
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
15.054	15.054 (1.060)	65	685520	25.0000	25.191	80.00- 120.00		100.00
15.054	15.054 (1.060)	67	342916			0.66- 100.66		50.02
$ 113 Toluene-d8					CAS #: 2037-26-5			
17.902	17.902 (1.143)	98	2141692	25.0000	24.959	80.00- 120.00		100.00
17.902	17.902 (1.143)	70	238942			0.00- 61.24		11.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1425231			16.27- 116.27	66.55
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1226034	25.0000	25.096	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2046207			116.90- 216.90	166.90
21.414	21.414 (1.075)	176	1175106			45.85- 145.85	95.85
11 Propylene					CAS #: 115-07-1		
3.331	3.331 (0.235)	41	1071520	50.0000	50.766	80.00- 120.00	100.00
3.331	3.331 (0.235)	42	715518			16.67- 116.67	66.78
3.331	3.331 (0.235)	39	775316			26.74- 126.74	72.36
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	2005077	50.0000	54.068	80.00- 120.00	100.00
3.663	3.663 (0.258)	87	644248			0.00- 80.69	32.13
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	1225435	50.0000	55.438	80.00- 120.00	100.00
4.796	4.796 (0.338)	137	385475			0.00- 81.46	31.46
18 Chloromethane					CAS #: 74-87-3		
5.101	5.101 (0.359)	50	1259693	50.0000	51.190	80.00- 120.00	100.00
5.101	5.101 (0.359)	52	400571			0.00- 82.65	31.80
20 Vinyl Chloride					CAS #: 75-01-4		
5.902	5.902 (0.416)	62	1177765	50.0000	54.842	80.00- 120.00	100.00
5.902	5.902 (0.416)	64	343947			0.00- 79.15	29.20
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	1073889	50.0000	44.098	80.00- 120.00	100.00
6.096	6.096 (0.429)	39	1124522			54.16- 154.16	104.71
25 Bromomethane					CAS #: 74-83-9		
7.589	7.589 (0.535)	94	548454	50.0000	58.338	80.00- 120.00	100.00
7.589	7.589 (0.535)	96	506357			42.32- 142.32	92.32
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	647701	50.0000	56.679	80.00- 120.00	100.00
8.114	8.114 (0.572)	49	234159			0.00- 86.11	36.15
8.114	8.114 (0.572)	66	192359			0.00- 80.66	29.70
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	2149330	50.0000	56.218	80.00- 120.00	100.00
8.916	8.916 (0.628)	103	1390122			14.68- 114.68	64.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.105	10.105 (0.712)	45	728183	50.0000	52.883	80.00- 120.00	100.00
10.105	10.105 (0.712)	43	134996			0.00- 68.77	18.54
10.105	10.105 (0.712)	46	283284			0.00- 86.94	38.90
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	1293272	50.0000	54.538	80.00- 120.00	100.00
10.437	10.437 (0.735)	153	824699			13.77- 113.77	63.77
10.437	10.437 (0.735)	101	1762506			86.28- 186.28	136.28
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	1986811	50.0000	53.238	80.00- 120.00	100.00
10.409	10.409 (0.733)	96	868482			0.00- 93.71	43.71
10.409	10.409 (0.733)	98	552566			0.00- 77.81	27.81
45 Acetone					CAS #: 67-64-1		
10.824	10.824 (0.762)	58	767064	50.0000	52.970	80.00- 120.00	100.00
10.824	10.824 (0.762)	43	2741470			308.28- 408.28	357.40
46 2-Propanol					CAS #: 67-63-0		
11.266	11.266 (0.794)	45	3373349	50.0000	53.089	80.00- 120.00	100.00
11.266	11.266 (0.794)	43	575249			0.00- 68.43	17.05
11.266	11.266 (0.794)	59	108581			0.00- 53.37	3.22
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	3111021	50.0000	56.883	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.349	11.349 (0.799)	76	470195	50.0000	58.535	80.00- 120.00	100.00
11.349	11.349 (0.799)	41	2689872			539.22- 639.22	572.08
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	2063583	50.0000	52.905	80.00- 120.00	100.00
11.653	11.653 (0.821)	84	899587			0.00- 93.59	43.59
11.653	11.653 (0.821)	51	617813			0.00- 81.98	29.94
60 MTBE					CAS #: 1634-04-4		
12.041	12.041 (0.848)	73	901774	50.0000	39.058	80.00- 120.00	100.00
12.041	12.041 (0.848)	57	403192			0.00- 94.71	44.71
12.041	12.041 (0.848)	41	566701			17.86- 117.86	62.84
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	1128627	50.0000	53.810	80.00- 120.00	100.00
12.068	12.068 (0.850)	61	2249316			149.30- 249.30	199.30
12.068	12.068 (0.850)	98	710949			11.25- 111.25	62.99

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	3188589	50.0000	53.017	80.00- 120.00	100.00
12.400	12.400 (0.873)	43	2468485			27.96- 127.96	77.42
12.400	12.400 (0.873)	86	341890			0.00- 60.26	10.72
69 Vinyl Acetate					CAS #: 108-05-4		
12.981	12.981 (0.914)	86	307712	50.0000	55.912	80.00- 120.00	100.00
12.953	12.953 (0.912)	43	5829641			1863.27-1963.27	1894.51
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.898	12.898 (0.908)	63	2677921	50.0000	56.583	80.00- 120.00	100.00
12.898	12.898 (0.908)	65	802113			0.00- 79.95	29.95
75 2-Butanone					CAS #: 78-93-3		
13.865	13.865 (0.977)	72	702664	50.0000	58.272	80.00- 120.00	100.00
13.865	13.865 (0.977)	43	4833428			637.87- 737.87	687.87
13.865	13.865 (0.977)	57	310374			8.35- 108.35	44.17
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	2217055	50.0000	54.387	80.00- 120.00	100.00
13.810	13.810 (0.973)	96	1245356			6.17- 106.17	56.17
13.810	13.810 (0.973)	98	788813			0.00- 85.58	35.58
80 Tetrahydrofuran					CAS #: 109-99-9		
14.170	14.170 (0.998)	42	3037025	50.0000	53.324	80.00- 120.00	100.00
14.170	14.170 (0.998)	71	639850			0.00- 71.07	21.07
14.170	14.170 (0.998)	72	693536			0.00- 72.65	22.84
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	2390689	50.0000	49.150	80.00- 120.00	100.00
14.280	14.280 (1.006)	85	1484428			12.09- 112.09	62.09
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	2480348	50.0000	55.203	80.00- 120.00	100.00
14.474	14.474 (1.019)	99	1581685			13.77- 113.77	63.77
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.018)	84	2081799	50.0000	54.491	80.00- 120.00	100.00
14.446	14.446 (1.018)	56	3807049			132.87- 232.87	182.87
14.446	14.446 (1.018)	41	2316704			61.28- 161.28	111.28
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	2243361	50.0000	56.148	80.00- 120.00	100.00
14.667	14.667 (1.033)	117	2323230			53.56- 153.56	103.56
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	11590927	50.0000	54.481	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	3825056			0.00- 83.18	33.00
14.944	14.944 (1.053)	41	3191796			0.00- 78.25	27.54
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	4487987	50.0000	50.199	80.00- 120.00	100.00
15.027	15.027 (0.959)	77	1025563			0.00- 73.61	22.85
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.193	15.193 (0.970)	62	2102443	50.0000	54.849	80.00- 120.00	100.00
15.193	15.193 (0.970)	64	635071			0.00- 81.56	30.21
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	1762533	50.0000	53.550	80.00- 120.00	100.00
15.220	15.220 (0.972)	43	5334293			249.15- 349.15	302.65
15.220	15.220 (0.972)	57	2333472			80.88- 180.88	132.39
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	1708840	50.0000	54.306	80.00- 120.00	100.00
16.022	16.022 (1.023)	130	1658299			47.04- 147.04	97.04
16.022	16.022 (1.023)	97	1100523			14.40- 114.40	64.40
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	2105534	50.0000	54.827	80.00- 120.00	100.00
16.492	16.492 (1.053)	62	1527890			22.57- 122.57	72.57
16.492	16.492 (1.053)	41	1472472			19.93- 119.93	69.93
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	1068558	50.0000	52.126	80.00- 120.00	100.00
16.658	16.658 (1.064)	58	1124568			55.24- 155.24	105.24
16.658	16.658 (1.064)	57	346784			0.00- 83.10	32.45
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	2774846	50.0000	57.495	80.00- 120.00	100.00
16.907	16.907 (1.079)	85	1695865			11.12- 111.12	61.12
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	2553658	50.0000	55.820	80.00- 120.00	100.00
17.570	17.570 (1.122)	77	810217			0.00- 81.73	31.73
17.570	17.570 (1.122)	39	2055386			30.49- 130.49	80.49
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	2237361	50.0000	55.592	80.00- 120.00	100.00
17.736	17.736 (1.132)	43	6793672			249.09- 349.09	303.65
17.736	17.736 (1.132)	85	659938			0.00- 82.52	29.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	5537386	50.0000	53.126	80.00- 120.00	100.00
17.985	17.985 (1.148)	92	3332607			10.18- 110.18	60.18
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	2717375	50.0000	56.017	80.00- 120.00	100.00
18.372	18.372 (0.922)	77	854690			0.00- 81.45	31.45
18.372	18.372 (0.922)	39	2118481			27.96- 127.96	77.96
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	1905600	50.0000	50.789	80.00- 120.00	100.00
18.649	18.649 (0.936)	99	1183640			12.11- 112.11	62.11
18.649	18.649 (0.936)	83	1668869			37.58- 137.58	87.58
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	2182026	50.0000	53.222	80.00- 120.00	100.00
18.732	18.732 (0.940)	129	1724656			29.04- 129.04	79.04
18.732	18.732 (0.940)	131	1645704			25.42- 125.42	75.42
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	3256328	50.0000	52.724	80.00- 120.00	100.00
18.898	18.898 (0.949)	43	7025140			165.74- 265.74	215.74
18.898	18.898 (0.949)	100	468232			0.00- 64.37	14.38
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	2804207	50.0000	56.500	80.00- 120.00	100.00
19.174	19.174 (0.963)	127	2168583			46.20- 146.20	77.33
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	2897878	50.0000	50.931	80.00- 120.00	100.00
19.395	19.395 (0.974)	109	2733986			44.34- 144.34	94.34
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	4810474	50.0000	53.512	80.00- 120.00	100.00
19.976	19.976 (1.003)	114	1528929			0.00- 81.78	31.78
19.976	19.976 (1.003)	77	3771424			28.40- 128.40	78.40
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	2681055	50.0000	53.453	80.00- 120.00	100.00
20.031	20.031 (1.006)	91	8685473			274.06- 374.06	323.96
129 m,p-Xylene					CAS #: 108-38-3		
20.170	20.170 (1.012)	106	3417557	50.0000	53.466	80.00- 120.00	100.00
20.170	20.170 (1.012)	91	6929860			157.57- 257.57	202.77
130 o-Xylene					CAS #: 95-47-6		
20.723	20.723 (1.040)	106	3207153	50.0000	53.131	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.695	20.695 (1.039)	91	6888365			164.78- 264.78	214.78
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	5319716	50.0000	50.250	80.00- 120.00	100.00
20.750	20.750 (1.042)	78	2680376			0.39- 100.39	50.39
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	2638903	50.0000	56.249	80.00- 120.00	100.00
21.054	21.054 (1.057)	171	1371163			1.96- 101.96	51.96
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	9534798	50.0000	49.388	80.00- 120.00	100.00
21.137	21.137 (1.061)	120	2462259			0.00- 75.92	25.82
21.137	21.137 (1.061)	51	1407918			0.00- 65.14	14.77
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	5122373	50.0000	51.920	80.00- 120.00	100.00
21.580	21.580 (1.083)	85	3162181			11.73- 111.73	61.73
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	12288669	50.0000	52.292	80.00- 120.00	100.00
21.635	21.635 (1.086)	120	2615015			0.00- 71.30	21.28
21.635	21.635 (1.086)	105	430294			0.00- 53.75	3.50
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	11125546	50.0000	52.987	80.00- 120.00	100.00
21.773	21.773 (1.093)	120	3260639			0.00- 79.31	29.31
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	8991016	50.0000	49.206	80.00- 120.00	100.00
21.828	21.828 (1.096)	120	4225571			0.00- 96.86	47.00
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.299	22.299 (1.119)	105	8492580	50.0000	47.676	80.00- 120.00	100.00
22.299	22.299 (1.119)	120	3752784			0.00- 94.14	44.19
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	4884480	50.0000	48.699	80.00- 120.00	100.00
22.741	22.741 (1.142)	148	3078297			9.85- 109.85	63.02
22.741	22.741 (1.142)	111	2229213			0.00- 93.22	45.64
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.852	22.852 (1.147)	146	4930264	50.0000	49.849	80.00- 120.00	100.00
22.852	22.852 (1.147)	148	3095841			8.33- 108.33	62.79
22.852	22.852 (1.147)	111	2162635			0.00- 93.26	43.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	8848815	50.0000	50.970	80.00- 120.00	100.00
23.017	23.017 (1.155)	126	1653302			0.00- 68.37	18.68
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.322	23.322 (1.171)	146	4549860	50.0000	46.469	80.00- 120.00	100.00
23.322	23.322 (1.171)	148	2872767			13.14- 113.14	63.14
23.294	23.294 (1.169)	111	2147615			0.00- 97.20	47.20
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	3682508	50.0000	47.067	80.00- 120.00	100.00
25.202	25.202 (1.265)	182	3468818			44.20- 144.20	94.20
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	2599223	50.0000	47.348	80.00- 120.00	100.00
25.285	25.285 (1.269)	223	1642419			12.68- 112.68	63.19
29 Isopentane					CAS #: 78-78-4		
8.225	8.225 (0.579)	43	2171251	50.0000	52.551	80.00- 120.00	100.00
8.225	8.225 (0.579)	57	1231339			7.33- 107.33	56.71
19 Butane					CAS #: 106-97-8		
5.737	5.737 (0.404)	58	243459	50.0000	53.620	80.00- 120.00	100.00
5.737	5.737 (0.404)	43	2240736			877.75- 977.75	920.38
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	3009965	50.0000	54.014	80.00- 120.00	100.00
16.216	16.216 (1.142)	98	1369730			0.00- 95.22	45.51
16.216	16.216 (1.142)	55	3666897			73.46- 173.46	121.83
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	8989623	50.0000	47.526	80.00- 120.00	100.00
25.589	25.589 (1.285)	127	1111946			0.00- 64.35	12.37
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	970845	50.0000	34.749	80.00- 120.00	100.00
12.041	12.041 (0.848)	41	565933			7.15- 107.15	58.29
12.041	12.041 (0.848)	57	405877			0.00- 92.38	41.81

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5080810.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 50ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	390402	0.00
97 1,4-Difluorobenze	1846321	1107793	2584849	1846321	0.00
126 Chlorobenzene-d5	2069370	1241622	2897118	2069370	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

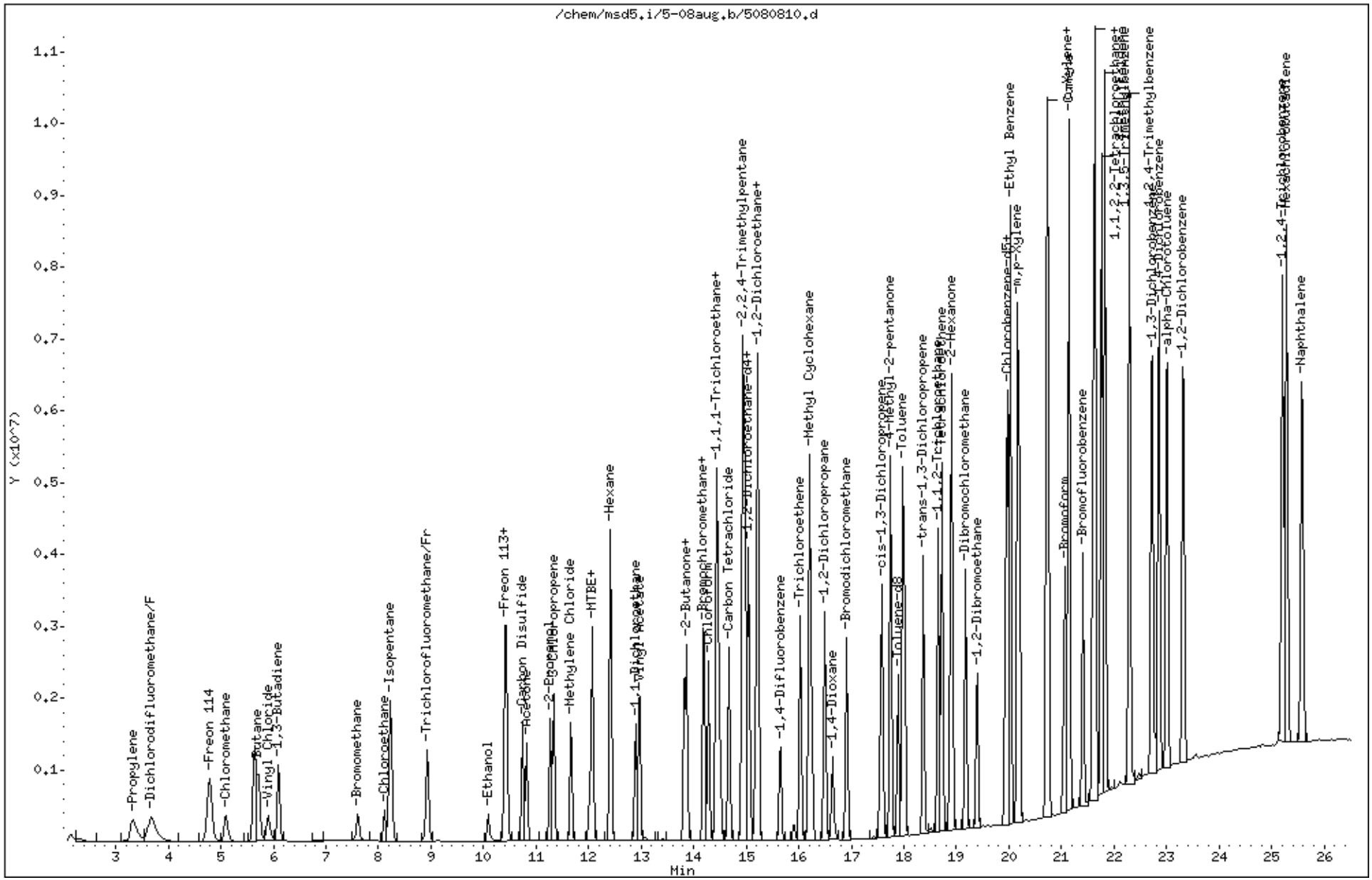
0143

Data File: /chem/msd5.i/5-08aug.b/5080810.d
Date : 08-AUG-2008 13:56
Client ID: Level 5
Sample Info: 50mL #1612-95

Instrument: msd5.i

Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080811.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 08-AUG-2008 14:33
Operator : smd Inst ID: msd5.i
Smp Info : 100mL #1612-95
Misc Info : 100ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:24 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 14:33 Cal File: 5080811.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	398110	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	309038			27.82- 127.82	77.63
14.197	14.197 (1.000)	49	1087157			222.33- 322.33	273.08
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	1852177	25.0000		50.00- 150.00	100.00
15.663	15.663 (1.000)	88	305494			0.00- 66.54	16.49
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2050747	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1319691			13.82- 113.82	64.35
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	685361	25.0000	24.747	50.00- 150.00	100.00
15.054	15.054 (1.060)	67	353111			0.80- 100.80	51.52
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.143)	98	2146588	25.0000	24.947	50.00- 150.00	100.00
17.902	17.902 (1.143)	70	243882			0.00- 61.26	11.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1417259			16.23- 116.23	66.02
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1229478	25.0000	25.328	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2081140			117.20- 217.20	169.27
21.414	21.414 (1.075)	176	1178069			46.11- 146.11	95.82
11 Propylene					CAS #: 115-07-1		
3.303	3.303 (0.233)	41	2088697	100.000	97.764	50.00- 150.00	100.00
3.331	3.331 (0.235)	42	1397841			16.73- 116.73	66.92
3.331	3.331 (0.235)	39	1509054			25.62- 125.62	72.25
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	3874355	100.000	101.95	50.00- 150.00	100.00
3.663	3.663 (0.258)	87	1239120			0.00- 80.95	31.98
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	2398299	100.000	105.05	50.00- 150.00	100.00
4.796	4.796 (0.338)	137	759355			0.00- 80.61	31.66
18 Chloromethane					CAS #: 74-87-3		
5.100	5.100 (0.359)	50	2441186	100.000	97.948	50.00- 150.00	100.00
5.100	5.100 (0.359)	52	765574			0.00- 82.33	31.36
20 Vinyl Chloride					CAS #: 75-01-4		
5.902	5.902 (0.416)	62	2281791	100.000	103.33	50.00- 150.00	100.00
5.902	5.902 (0.416)	64	661653			0.00- 79.12	29.00
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	2133795	100.000	87.989	50.00- 150.00	100.00
6.096	6.096 (0.429)	39	2244501			54.34- 154.34	105.19
25 Bromomethane					CAS #: 74-83-9		
7.589	7.589 (0.535)	94	1084347	100.000	110.22	50.00- 150.00	100.00
7.589	7.589 (0.535)	96	1016576			50.45- 150.45	93.75
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	1238357	100.000	104.95	50.00- 150.00	100.00
8.114	8.114 (0.572)	49	448754			0.00- 86.14	36.24
8.114	8.114 (0.572)	66	370131			0.00- 80.51	29.89
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	4211326	100.000	106.31	50.00- 150.00	100.00
8.916	8.916 (0.628)	103	2742386			17.19- 117.19	65.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.105	10.105 (0.712)	45	1454058	100.000	102.64	50.00- 150.00	100.00
10.105	10.105 (0.712)	43	274250			0.00- 68.79	18.86
10.105	10.105 (0.712)	46	576165			0.00- 87.61	39.62
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	2455461	100.000	101.23	50.00- 150.00	100.00
10.437	10.437 (0.735)	153	1550354			13.22- 113.22	63.14
10.437	10.437 (0.735)	101	3333219			84.23- 184.23	135.75
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	3895614	100.000	101.88	50.00- 150.00	100.00
10.409	10.409 (0.733)	96	1689679			0.00- 97.32	43.37
10.409	10.409 (0.733)	98	1077513			0.00- 78.05	27.66
45 Acetone					CAS #: 67-64-1		
10.824	10.824 (0.762)	58	1500975	100.000	101.23	50.00- 150.00	100.00
10.824	10.824 (0.762)	43	5380286			308.33- 408.33	358.45
46 2-Propanol					CAS #: 67-63-0		
11.266	11.266 (0.794)	45	6649879	100.000	101.96	50.00- 150.00	100.00
11.266	11.266 (0.794)	43	1101883			0.00- 67.96	16.57
11.266	11.266 (0.794)	59	213867			0.00- 53.33	3.22
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	6137991	100.000	107.89	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.349	11.349 (0.799)	76	947003	100.000	111.27	50.00- 150.00	100.00
11.349	11.349 (0.799)	41	5341206			532.92- 632.92	564.01
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	4125539	100.000	102.95	50.00- 150.00	100.00
11.653	11.653 (0.821)	84	1794732			0.00- 92.81	43.50
11.653	11.653 (0.821)	51	1239130			0.00- 81.59	30.04
60 MTBE					CAS #: 1634-04-4		
12.040	12.040 (0.848)	73	1415912	100.000	65.349	50.00- 150.00	100.00
12.040	12.040 (0.848)	57	634551			0.00- 98.11	44.82
12.040	12.040 (0.848)	41	882305			16.75- 116.75	62.31
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	2186893	100.000	101.79	50.00- 150.00	100.00
12.068	12.068 (0.850)	61	4414473			146.62- 246.62	201.86
12.068	12.068 (0.850)	98	1374836			11.58- 111.58	62.87

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
65 Hexane						CAS #: 110-54-3	
12.400	12.400 (0.873)	57	6124502	100.000	99.889	50.00- 150.00	100.00
12.400	12.400 (0.873)	43	4691182			27.68- 127.68	76.60
12.400	12.400 (0.873)	86	653657			0.00- 60.34	10.67
69 Vinyl Acetate						CAS #: 108-05-4	
12.981	12.981 (0.914)	86	594205	100.000	104.34	50.00- 150.00	100.00
12.953	12.953 (0.912)	43	11536029			1870.31-1970.31	1941.42
70 1,1-Dichloroethane						CAS #: 75-34-3	
12.898	12.898 (0.908)	63	5214164	100.000	106.33	50.00- 150.00	100.00
12.898	12.898 (0.908)	65	1553499			0.00- 80.86	29.79
75 2-Butanone						CAS #: 78-93-3	
13.865	13.865 (0.977)	72	1340294	100.000	107.07	50.00- 150.00	100.00
13.865	13.865 (0.977)	43	9420440			668.14- 768.14	702.86
13.865	13.865 (0.977)	57	601848			5.66- 105.66	44.90
76 cis-1,2-Dichloroethene						CAS #: 156-59-2	
13.810	13.810 (0.973)	61	4300896	100.000	102.75	50.00- 150.00	100.00
13.810	13.810 (0.973)	96	2380807			11.12- 111.12	55.36
13.810	13.810 (0.973)	98	1513049			0.00- 85.43	35.18
80 Tetrahydrofuran						CAS #: 109-99-9	
14.169	14.169 (0.998)	42	5936471	100.000	101.76	50.00- 150.00	100.00
14.169	14.169 (0.998)	71	1238966			0.00- 71.17	20.87
14.169	14.169 (0.998)	72	1335699			0.00- 72.62	22.50
82 Chloroform						CAS #: 67-66-3	
14.280	14.280 (1.006)	83	4594968	100.000	93.790	50.00- 150.00	100.00
14.280	14.280 (1.006)	85	2849904			12.05- 112.05	62.02
83 1,1,1-Trichloroethane						CAS #: 71-55-6	
14.474	14.474 (1.019)	97	4773691	100.000	103.32	50.00- 150.00	100.00
14.474	14.474 (1.019)	99	3039772			12.25- 112.25	63.68
85 Cyclohexane						CAS #: 110-82-7	
14.446	14.446 (1.018)	84	3961973	100.000	101.35	50.00- 150.00	100.00
14.446	14.446 (1.018)	56	7351088			134.98- 234.98	185.54
14.446	14.446 (1.018)	41	4428278			67.25- 167.25	111.77
87 Carbon Tetrachloride						CAS #: 56-23-5	
14.667	14.667 (1.033)	119	4315268	100.000	104.68	50.00- 150.00	100.00
14.667	14.667 (1.033)	117	4472411			53.62- 153.62	103.64
89 2,2,4-Trimethylpentane						CAS #: 540-84-1	
14.944	14.944 (1.053)	57	22338119	100.000	102.36	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	7348913			0.00- 83.12	32.90
14.944	14.944 (1.053)	41	6098198			0.00- 78.06	27.30
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	8629675	100.000	96.829	50.00- 150.00	100.00
15.027	15.027 (0.959)	77	1951440			0.00- 73.44	22.61
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.193	15.193 (0.970)	62	4057015	100.000	104.36	50.00- 150.00	100.00
15.193	15.193 (0.970)	64	1233602			0.00- 81.33	30.41
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	3305330	100.000	100.08	50.00- 150.00	100.00
15.220	15.220 (0.972)	43	10234911			251.25- 351.25	309.65
15.220	15.220 (0.972)	57	4461344			81.70- 181.70	134.97
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	3215483	100.000	101.48	50.00- 150.00	100.00
16.022	16.022 (1.023)	130	3124252			47.40- 147.40	97.16
16.022	16.022 (1.023)	97	2075483			16.71- 116.71	64.55
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	4010415	100.000	103.25	50.00- 150.00	100.00
16.492	16.492 (1.053)	62	2938586			22.98- 122.98	73.27
16.492	16.492 (1.053)	41	2826050			22.25- 122.25	70.47
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	2075301	100.000	100.69	50.00- 150.00	100.00
16.658	16.658 (1.064)	58	2186142			54.62- 154.62	105.34
16.658	16.658 (1.064)	57	664831			0.00- 82.83	32.04
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	5339835	100.000	108.07	50.00- 150.00	100.00
16.907	16.907 (1.079)	85	3271512			11.49- 111.49	61.27
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	4891722	100.000	105.20	50.00- 150.00	100.00
17.570	17.570 (1.122)	77	1545642			0.00- 82.02	31.60
17.570	17.570 (1.122)	39	3945999			32.28- 132.28	80.67
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	4381945	100.000	106.71	50.00- 150.00	100.00
17.736	17.736 (1.132)	43	13338737			250.15- 350.15	304.40
17.736	17.736 (1.132)	85	1274543			0.00- 81.83	29.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	10602864	100.000	101.12	50.00- 150.00	100.00
17.985	17.985 (1.148)	92	6354026			9.98- 109.98	59.93
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	5262352	100.000	107.43	50.00- 150.00	100.00
18.372	18.372 (0.922)	77	1645195			0.00- 81.05	31.26
18.372	18.372 (0.922)	39	4094509			28.38- 128.38	77.81
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	3642107	100.000	98.355	50.00- 150.00	100.00
18.649	18.649 (0.936)	99	2247473			8.76- 108.76	61.71
18.649	18.649 (0.936)	83	3168062			33.35- 133.35	86.98
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	4078778	100.000	100.31	50.00- 150.00	100.00
18.732	18.732 (0.940)	129	3220356			28.49- 128.49	78.95
18.732	18.732 (0.940)	131	3082407			27.87- 127.87	75.57
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	6482887	100.000	104.37	50.00- 150.00	100.00
18.898	18.898 (0.949)	43	13924230			163.33- 263.33	214.78
18.898	18.898 (0.949)	100	902169			0.00- 64.25	13.92
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	5412625	100.000	107.88	50.00- 150.00	100.00
19.174	19.174 (0.963)	127	4196898			42.47- 142.47	77.54
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	5610774	100.000	99.588	50.00- 150.00	100.00
19.395	19.395 (0.974)	109	5283448			49.57- 149.57	94.17
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	9111611	100.000	101.81	50.00- 150.00	100.00
19.976	19.976 (1.003)	114	2897441			0.00- 82.46	31.80
19.976	19.976 (1.003)	77	7133525			39.27- 139.27	78.29
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	5140106	100.000	102.71	50.00- 150.00	100.00
20.031	20.031 (1.006)	91	16541246			273.61- 373.61	321.81
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	6493271	100.000	102.00	50.00- 150.00	100.00
20.169	20.169 (1.012)	91	13244735			156.85- 256.85	203.98
130 o-Xylene					CAS #: 95-47-6		
20.722	20.722 (1.040)	106	6032001	100.000	100.67	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.722	20.722 (1.040)	91	13070487			168.76- 268.76	216.69
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	10142679	100.000	97.217	50.00- 150.00	100.00
20.750	20.750 (1.042)	78	5123463			2.99- 102.99	50.51
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	5071994	100.000	107.14	50.00- 150.00	100.00
21.054	21.054 (1.057)	171	2617501			1.64- 101.64	51.61
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	18033112	100.000	95.167	50.00- 150.00	100.00
21.137	21.137 (1.061)	120	4641510			0.00- 75.89	25.74
21.137	21.137 (1.061)	51	2720050			0.00- 65.13	15.08
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	9723991	100.000	99.564	50.00- 150.00	100.00
21.580	21.580 (1.083)	85	5964675			12.36- 112.36	61.34
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	20763186	100.000	91.132	50.00- 150.00	100.00
21.635	21.635 (1.086)	120	4891680			0.00- 71.75	23.56
21.635	21.635 (1.086)	105	800983			0.00- 53.77	3.86
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	20830840	100.000	100.09	50.00- 150.00	100.00
21.773	21.773 (1.093)	120	6067518			0.00- 79.21	29.13
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	17190965	100.000	95.744	50.00- 150.00	100.00
21.828	21.828 (1.096)	120	8091616			0.00- 96.90	47.07
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	16023678	100.000	92.189	50.00- 150.00	100.00
22.298	22.298 (1.119)	120	7076134			0.00- 94.15	44.16
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	9231965	100.000	94.221	50.00- 150.00	100.00
22.741	22.741 (1.142)	148	5827747			10.51- 110.51	63.13
22.741	22.741 (1.142)	111	4231799			0.00- 93.75	45.84
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	9359532	100.000	96.361	50.00- 150.00	100.00
22.851	22.851 (1.147)	148	5905875			9.29- 109.29	63.10
22.851	22.851 (1.147)	111	4112677			0.00- 93.39	43.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	17325547	100.000	100.56	50.00- 150.00	100.00
23.017	23.017 (1.155)	126	3207598			0.00- 68.40	18.51
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.321	23.321 (1.171)	146	8362552	100.000	88.634	50.00- 150.00	100.00
23.321	23.321 (1.171)	148	5275280			9.90- 109.90	63.08
23.321	23.321 (1.171)	111	3967991			0.00- 95.74	47.45
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	6842329	100.000	90.919	50.00- 150.00	100.00
25.202	25.202 (1.265)	182	6478092			44.56- 144.56	94.68
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	4658039	100.000	88.815	50.00- 150.00	100.00
25.285	25.285 (1.269)	223	2926421			12.72- 112.72	62.83
29 Isopentane					CAS #: 78-78-4		
8.225	8.225 (0.579)	43	4207456	100.000	99.896	50.00- 150.00	100.00
8.225	8.225 (0.579)	57	2393568			7.22- 107.22	56.89
19 Butane					CAS #: 106-97-8		
5.736	5.736 (0.404)	58	487167	100.000	103.86	50.00- 150.00	100.00
5.736	5.736 (0.404)	43	4434025			873.35- 973.35	910.17
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	5728294	100.000	100.64	50.00- 150.00	100.00
16.216	16.216 (1.142)	98	2618562			0.00- 95.32	45.71
16.216	16.216 (1.142)	55	7108750			73.58- 173.58	124.10
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	17277063	100.000	94.010	50.00- 150.00	100.00
25.589	25.589 (1.285)	127	2127790			0.00- 63.84	12.32
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	1503948	100.000	58.292	50.00- 150.00	100.00
12.040	12.040 (0.848)	41	881994			7.15- 107.15	58.65
12.040	12.040 (0.848)	57	638676			0.00- 92.38	42.47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5080811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 100ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	398110	1.97
97 1,4-Difluorobenze	1846321	1107793	2584849	1852177	0.32
126 Chlorobenzene-d5	2069370	1241622	2897118	2050747	-0.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

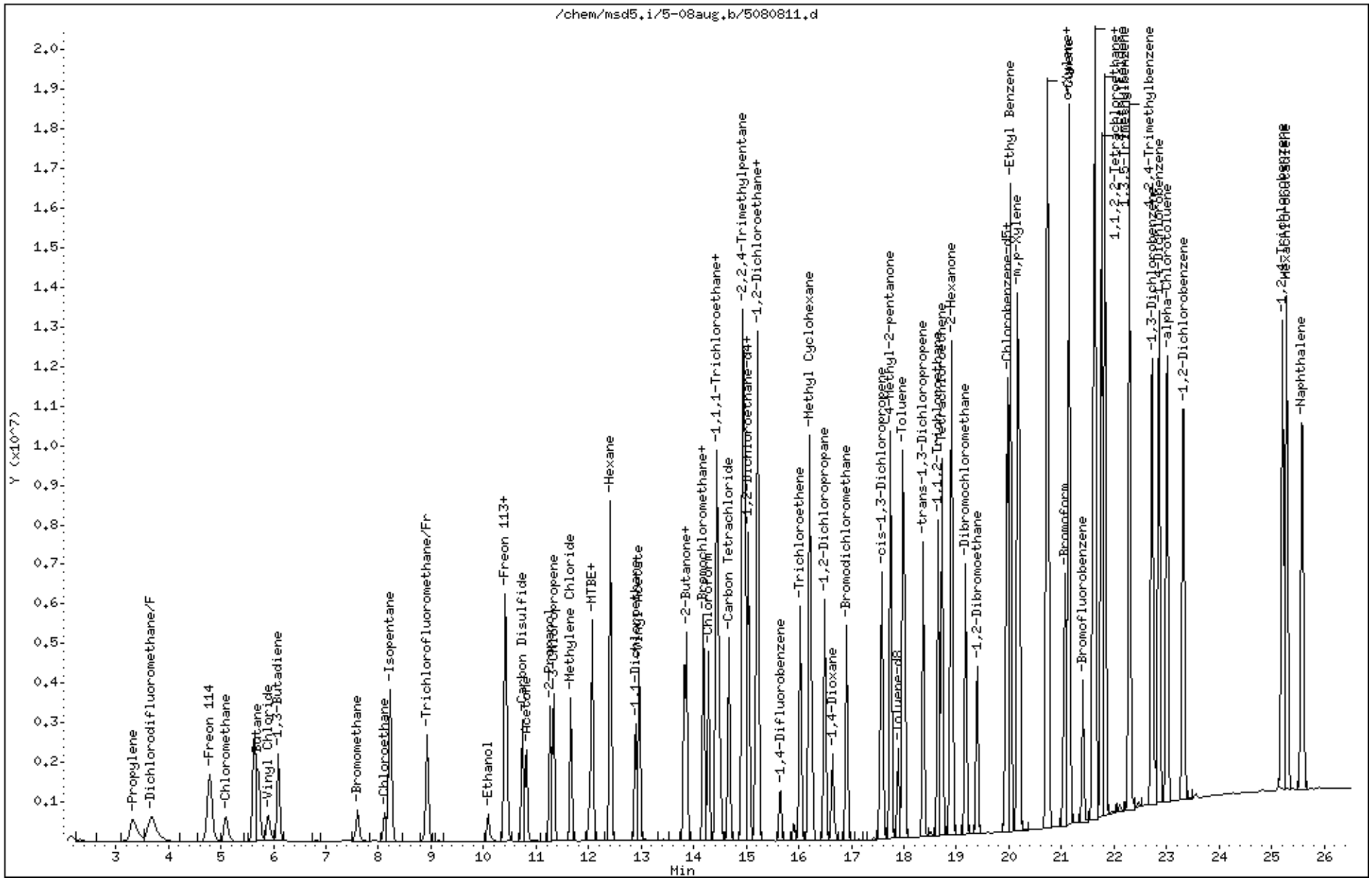
0153

Data File: /chem/msd5.i/5-08aug.b/5080811.d
Date : 08-AUG-2008 14:33
Client ID: Level 6
Sample Info: 100mL #1612-95

Column phase: RTx-624

Instrument: msd5.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-02sep.b/5090204.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 02-SEP-2008 12:55
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #1541-242
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-02sep.b/t14q808c.m
Meth Date : 02-Sep-2008 15:11 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp19c.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	504535	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	392334			28.14- 128.14	77.76
14.170	14.170 (1.000)	49	1403668			225.17- 325.17	278.21
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.635 (1.000)	114	2051813	25.0000		50.00- 150.00	100.00
15.635	15.635 (1.000)	88	335804			0.00- 66.45	16.37
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2518289	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1557522			13.23- 113.23	61.85
21 Isobutane					CAS #: 75-28-5		
4.686	4.686 (0.330)	43	14263375	200.000	187.01	50.00- 150.00	100.00
4.686	4.686 (0.330)	42	4729952			0.00- 83.08	33.16
4.686	4.686 (0.330)	58	280709			0.00- 51.88	1.97
37 Pentane					CAS #: 109-66-0		
9.137	9.137 (0.644)	43	19327373	200.000	196.98	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
37 Pentane (continued)							
9.137	9.137 (0.644)	57	2140071			0.00- 61.12	11.07
9.137	9.137 (0.644)	72	908519			0.00- 54.79	4.70
44 Acrolein					CAS #: 107-02-8		
10.409	10.409 (0.733)	55	2772280	200.000	214.05	50.00- 150.00	100.00(A)
10.409	10.409 (0.733)	56	3749014			83.41- 183.41	135.23
52 Acetonitrile					CAS #: 75-05-8		
11.543	11.543 (0.813)	40	6924723	200.000	186.29	50.00- 150.00	100.00
11.543	11.543 (0.813)	41	18000335			198.09- 298.09	259.94
11.543	11.543 (0.813)	38	1827090			0.00- 77.75	26.39
62 Acrylonitrile					CAS #: 107-13-1		
12.262	12.262 (0.864)	52	7644369	200.000	210.69	50.00- 150.00	100.00(A)
12.262	12.262 (0.864)	53	9878041			81.25- 181.25	129.22
35 1-Pentene					CAS #: 109-67-1		
8.999	8.999 (0.634)	55	8010669	200.000	199.62	50.00- 150.00	100.00
8.999	8.999 (0.634)	42	13810876			122.12- 222.12	172.41
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00
39 Ethyl Ether					CAS #: 60-29-7		
9.967	9.967 (0.702)	74	2508341	200.000	195.82	50.00- 150.00	100.00
9.939	9.939 (0.700)	59	5297628			155.71- 255.71	211.20
0.000	1.000 (0.000)	31	0			0.00- 50.00	0.00
49 Iodomethane					CAS #: 74-88-4		
10.741	10.741 (0.757)	142	10187389	200.000	184.88	50.00- 150.00	100.00
10.741	10.741 (0.757)	127	4316009			0.00- 92.18	42.37
66 1-Hexene					CAS #: 592-41-6		
12.289	12.289 (0.866)	55	6781012	200.000	195.88	50.00- 150.00	100.00
12.289	12.289 (0.866)	41	12870284			137.58- 237.58	189.80
12.289	12.289 (0.866)	84	1649167			0.00- 75.13	24.32
79 Methyl Acrylate					CAS #: 96-33-3		
13.948	13.948 (0.982)	55	18430617	200.000	207.89	50.00- 150.00	100.00(A)
13.948	13.948 (0.982)	85	1785570			0.00- 60.11	9.69
13.948	13.948 (0.982)	58	1546075			0.00- 58.38	8.39
50 Methyl Methacrylate					CAS #: 80-62-6		
16.547	16.547 (0.831)	41	21885548	200.000	224.75	50.00- 150.00	100.00(A)
16.547	16.547 (0.831)	69	8117362			0.00- 89.32	37.09
16.547	16.547 (0.831)	100	2949162			0.00- 64.68	13.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
63 2-Pentanone					CAS #: 107-87-9		
16.354	16.354 (0.821)	43	32195622	200.000	191.59	50.00- 150.00	100.00
16.354	16.354 (0.821)	58	2201885			0.00- 55.69	6.84
16.354	16.354 (0.821)	86	3490565			0.00- 59.25	10.84
48 Ethyl acrylate					CAS #: 140-88-5		
16.160	16.160 (0.811)	99	1110048	200.000	211.91	50.00- 150.00	100.00(A)
16.160	16.160 (0.811)	45	2977759			204.90- 304.90	268.25
16.160	16.160 (0.811)	55	24199856			2052.96-2152.96	2180.07
105 Dibromomethane					CAS #: 74-95-3		
16.713	16.713 (0.839)	174	6451756	200.000	199.59	50.00- 150.00	100.00
16.713	16.713 (0.839)	93	7024894			57.40- 157.40	108.88
16.713	16.713 (0.839)	95	5886195			38.93- 138.93	91.23
100 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
21.663	21.663 (1.087)	75	4286291	200.000	208.90	50.00- 150.00	100.00(A)
21.663	21.663 (1.087)	89	2120339			9.93- 109.93	49.47
21.663	21.663 (1.087)	53	4279378			45.48- 145.48	99.84
103 Alphamethylstyrene					CAS #: 98-83-9		
22.133	22.133 (1.111)	118	19240359	200.000	186.25	50.00- 150.00	100.00
22.133	22.133 (1.111)	103	10860499			9.59- 109.59	56.45
151 bis(2-chloroethyl)ether					CAS #: 111-44-4		
22.603	22.603 (1.135)	93	23541667	200.000	180.13	50.00- 150.00	100.00
22.603	22.603 (1.135)	95	7895290			0.00- 82.92	33.54
124 Nonane					CAS #: 111-84-2		
20.004	20.004 (1.004)	43	29317833	200.000	153.29	50.00- 150.00	100.00
20.004	20.004 (1.004)	57	25301326			25.62- 125.62	86.30
20.004	20.004 (1.004)	85	7297801			0.00- 71.70	24.89
56 Cyclopentane					CAS #: 287-92-3		
11.488	11.488 (0.809)	70	3543964	200.000	192.17	50.00- 150.00	100.00
11.488	11.488 (0.809)	55	7811250			165.74- 265.74	220.41
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5090204.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-02sep.b/t14q808c.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 02-SEP-2008
Calibration Time: 14:29
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	449737	269842	629632	504535	12.18
97 1,4-Difluorobenze	2037716	1222630	2852802	2051813	0.69
126 Chlorobenzene-d5	2460828	1476497	3445159	2518289	2.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-02sep.b/5090204.d

Date : 02-SEP-2008 12:55

Client ID: Level 7

Sample Info: 200mL #1541-242

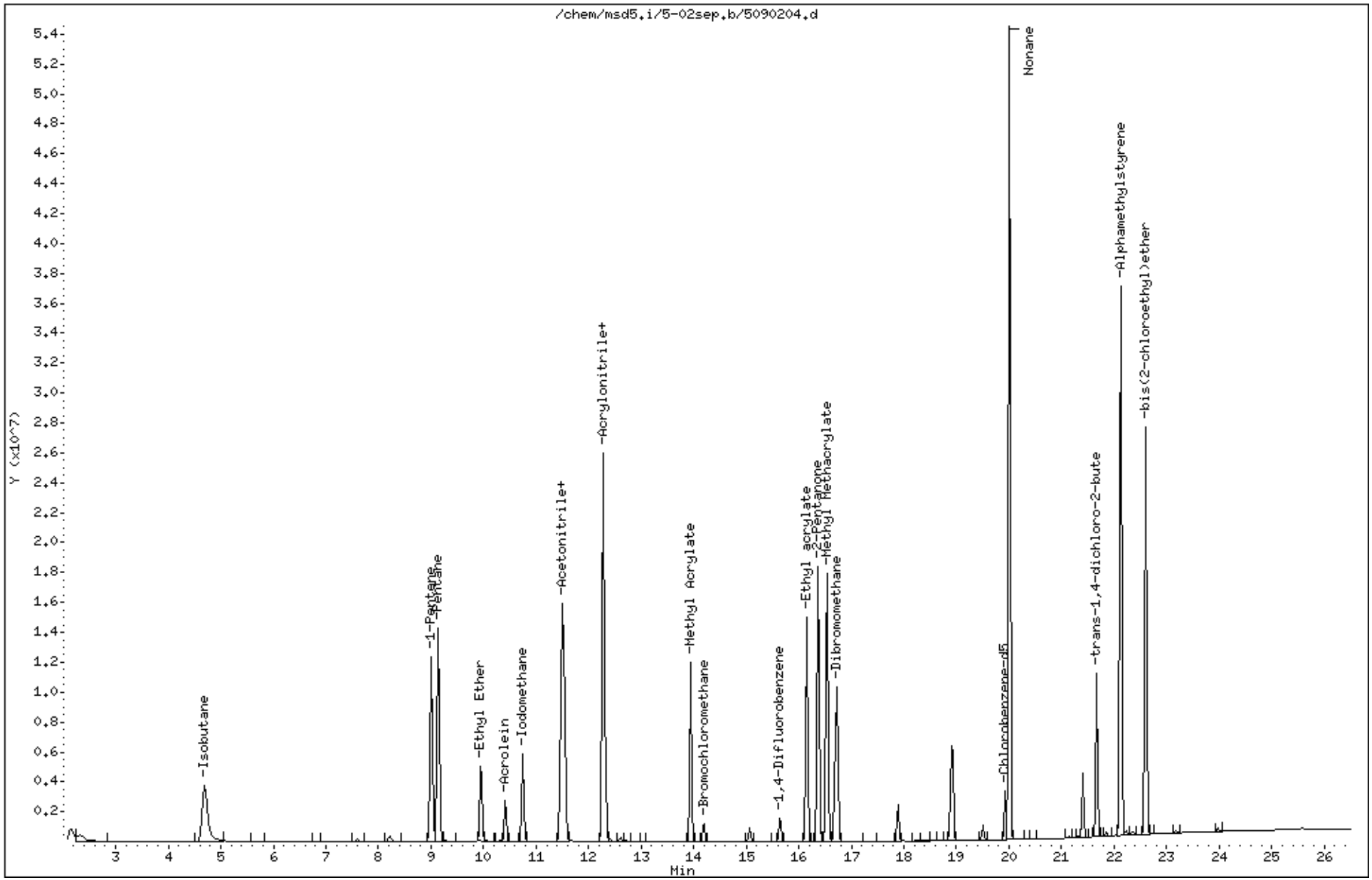
Column phase: RTx-624

Instrument: msd5.i

Operator: smd

Column diameter: 0.53

0158



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-25aug.b/5082504.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 25-AUG-2008 10:54
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #1612-118
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-25aug.b/t14q808b.m
Meth Date : 25-Aug-2008 14:02 sdisher Quant Type: ISTD
Cal Date : 25-AUG-2008 10:54 Cal File: 5082504.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp1b.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
==	====== ========	====	========	=======	=======		============	=====
* 81 Bromochloromethane						CAS #: 74-97-5		
14.197	14.170 (1.000)	130	498108	25.0000			80.00- 120.00	100.00
14.197	14.170 (1.000)	128	382983				27.55- 127.55	76.89
14.170	14.170 (1.000)	49	1385563				242.32- 342.32	278.17
* 97 1,4-Difluorobenzene						CAS #: 540-36-3		
15.635	15.635 (1.000)	114	2107598	25.0000			80.00- 120.00	100.00
15.635	15.635 (1.000)	88	346107				0.00- 66.52	16.42
* 126 Chlorobenzene-d5						CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2460635	25.0000			80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1572075				13.76- 113.76	63.89
206 1-Bromopropane						CAS #: 106-94-5		
14.031	14.059 (0.988)	124	1206594	200.000	193.51		80.00- 120.00	100.00
14.031	14.059 (0.988)	122	1244971				52.97- 152.97	103.18
14.031	14.059 (0.988)	43	18363758				1404.14-1504.14	1521.95

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5082504.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-25aug.b/t14q808b.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 25-AUG-2008
Calibration Time: 12:26
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	458420	275052	641788	498108	8.66
97 1,4-Difluorobenze	2103349	1262009	2944689	2107598	0.20
126 Chlorobenzene-d5	2392102	1435261	3348943	2460635	2.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.64	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-25aug.b/5082504.d

Date : 25-AUG-2008 10:54

Client ID: Level 7

Sample Info: 200mL #1612-118

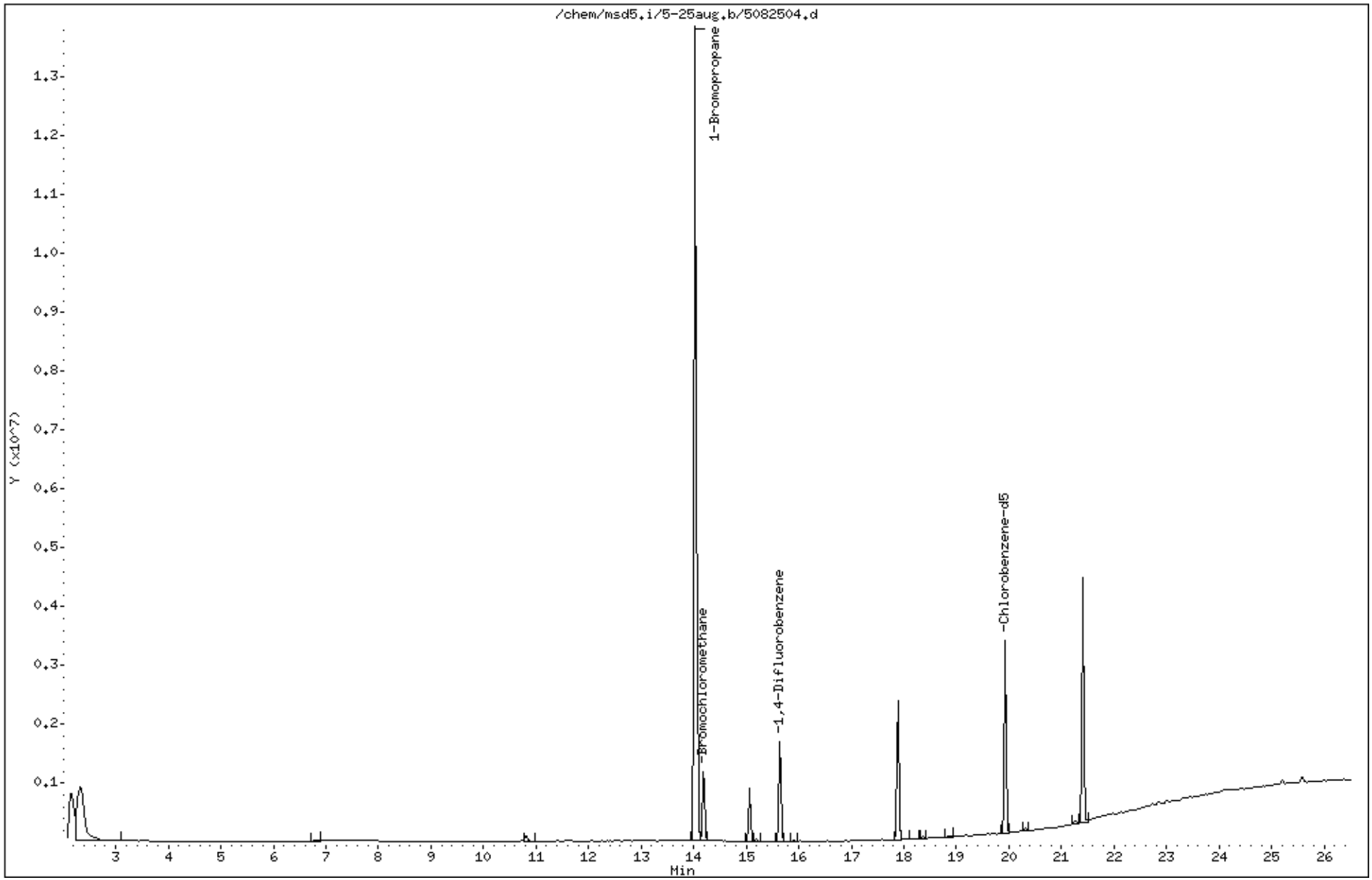
Column phase: RTx-624

Instrument: msd5.i

Operator: smd

Column diameter: 0.53

0161



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-11aug.b/5081104.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 11-AUG-2008 11:11
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #1612-62
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-11aug.b/t14q808a.m
Meth Date : 12-Aug-2008 08:45 ctaylor Quant Type: ISTD
Cal Date : 11-AUG-2008 11:11 Cal File: 5081104.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp21a.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	471653	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	366741			27.79- 127.79	77.76
14.197	14.197 (1.000)	49	1266794			221.43- 321.43	268.59
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	2063933	25.0000		50.00- 150.00	100.00
15.663	15.663 (1.000)	88	339990			0.00- 66.57	16.47
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2348654	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1489254			13.92- 113.92	63.41
5 Freon 143a					CAS #: 420-46-2		
2.640	2.640 (0.186)	65	1039733	200.000	174.43	50.00- 150.00	100.00
2.640	2.640 (0.186)	69	4399120			0.00- 50.00	423.10
2.667	2.667 (0.188)	64	255045			0.00- 71.72	24.53
6 Freon142b					CAS #: 75-68-3		
5.045	5.045 (0.355)	65	6832798	200.000	197.12	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
6 Freon142b (continued)							
5.045	5.045 (0.355)	45	2273744			0.00- 84.91	33.28
13 Freon 134a					CAS #: 811-97-2		
3.220	3.220 (0.227)	83	2679632	200.000	190.63	50.00- 150.00	100.00
3.220	3.220 (0.227)	69	2416695			42.89- 142.89	90.19
3.220	3.220 (0.227)	63	323115			0.00- 64.97	12.06
15 Freon 152a					CAS #: 75-37-6		
3.552	3.552 (0.250)	65	2102292	200.000	188.58	50.00- 150.00	100.00
3.552	3.552 (0.250)	51	5806438			216.87- 316.87	276.20
3.552	3.552 (0.250)	47	1153879			2.80- 102.80	54.89
17 Freon 22					CAS #: 75-45-6		
4.105	4.105 (0.289)	51	7820939	200.000	195.76	50.00- 150.00	100.00
4.105	4.105 (0.289)	67	815473			0.00- 62.02	10.43
4.105	4.105 (0.289)	85	77445			0.00- 51.00	0.99
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
9.110	9.110 (0.642)	67	7290420	200.000	200.53	50.00- 150.00	100.00(A)
9.110	9.110 (0.642)	69	2144831			0.00- 79.81	29.42
0.000	1.000 (0.000)	35	0			0.00- 50.00	0.00
40 Freon123a					CAS #: 354-23-4		
10.271	10.271 (0.723)	117	3104899	200.000	200.43	50.00- 150.00	100.00(A)
10.271	10.271 (0.723)	67	5121410			115.25- 215.25	164.95
41 Freon123					CAS #: 306-83-2		
10.464	10.464 (0.737)	83	6291995	200.000	199.28	50.00- 150.00	100.00
10.464	10.464 (0.737)	133	1017202			0.00- 66.18	16.17
10.464	10.464 (0.737)	85	3946057			11.82- 111.82	62.72
68 Isopropyl ether					CAS #: 108-20-3		
12.870	12.870 (0.907)	45	28865562	200.000	179.72	50.00- 150.00	100.00
12.870	12.870 (0.907)	87	4311107			0.00- 63.73	14.94
12.870	12.870 (0.907)	59	2773831			0.00- 58.73	9.61
71 1-Propanol					CAS #: 71-23-8		
13.146	13.146 (0.926)	42	1739994	200.000	215.15	50.00- 150.00	100.00(A)
13.146	13.146 (0.926)	59	1581141			39.75- 139.75	90.87
13.146	13.146 (0.926)	41	1037284			9.97- 109.97	59.61
73 t-Butylethyl Ether					CAS #: 637-92-3		
13.423	13.423 (0.945)	59	8996237	200.000	138.78	50.00- 150.00	100.00
13.423	13.423 (0.945)	87	2499887			0.00- 78.56	27.79
13.423	13.423 (0.945)	41	1864347			0.00- 72.31	20.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 Ethyl Acetate					CAS #: 141-78-6		
13.865	13.865 (0.977)	70	1358699	200.000	189.00	50.00- 150.00	100.00
13.865	13.865 (0.977)	45	3167906			170.98- 270.98	233.16
13.865	13.865 (0.977)	61	2301198			113.92- 213.92	169.37
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
15.110	15.110 (1.064)	73	8310198	200.000	146.96	50.00- 150.00	100.00
15.110	15.110 (1.064)	87	1888418			0.00- 72.77	22.72
15.110	15.110 (1.064)	55	3002585			0.00- 86.89	36.13
96 2-Heptanone					CAS #: 110-43-0		
20.833	20.833 (1.467)	58	19943427	200.000	181.10	50.00- 150.00	100.00
20.833	20.833 (1.467)	43	24507469			128.98- 228.98	122.88
98 1-Butanol					CAS #: 71-36-3		
15.911	15.911 (1.016)	56	8070666	200.000	203.82	50.00- 150.00	100.00(A)
15.911	15.911 (1.016)	41	6431186			31.22- 131.22	79.69
15.911	15.911 (1.016)	43	5217631			14.41- 114.41	64.65
99 Isobutanol					CAS #: 78-83-1		
14.916	14.916 (1.051)	59	246429	200.000	197.32	50.00- 150.00	100.00
14.916	14.916 (1.051)	41	6680290			2501.49-2601.49	2710.84
14.916	14.916 (1.051)	43	10017377			3608.48-3708.48	4065.02
119 Butyl Acetate					CAS #: 123-86-4		
18.980	18.980 (1.212)	56	13149879	200.000	202.56	50.00- 150.00	100.00(A)
18.980	18.980 (1.212)	73	3375426			0.00- 87.46	25.67
18.980	18.980 (1.212)	43	24012472			212.28- 312.28	182.61
135 Cyclohexanone					CAS #: 108-94-1		
21.414	21.414 (1.075)	55	16872401	200.000	197.93	50.00- 150.00	100.00
21.414	21.414 (1.075)	98	4857009			0.00- 79.78	28.79
21.414	21.414 (1.075)	42	12858072			26.16- 126.16	76.21
146 Diisobutyl Ketone					CAS #: 108-83-8		
21.967	21.967 (1.103)	57	25487201	200.000	132.30	50.00- 150.00	100.00
21.967	21.967 (1.103)	85	21327290			13.20- 113.20	83.68
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Report Date: 12-Aug-2008 08:45

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5081104.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-11aug.b/t14q808a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 11-AUG-2008
Calibration Time: 13:44
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	448200	268920	627480	471653	5.23
97 1,4-Difluorobenze	2085719	1251431	2920007	2063933	-1.04
126 Chlorobenzene-d5	2349482	1409689	3289275	2348654	-0.04

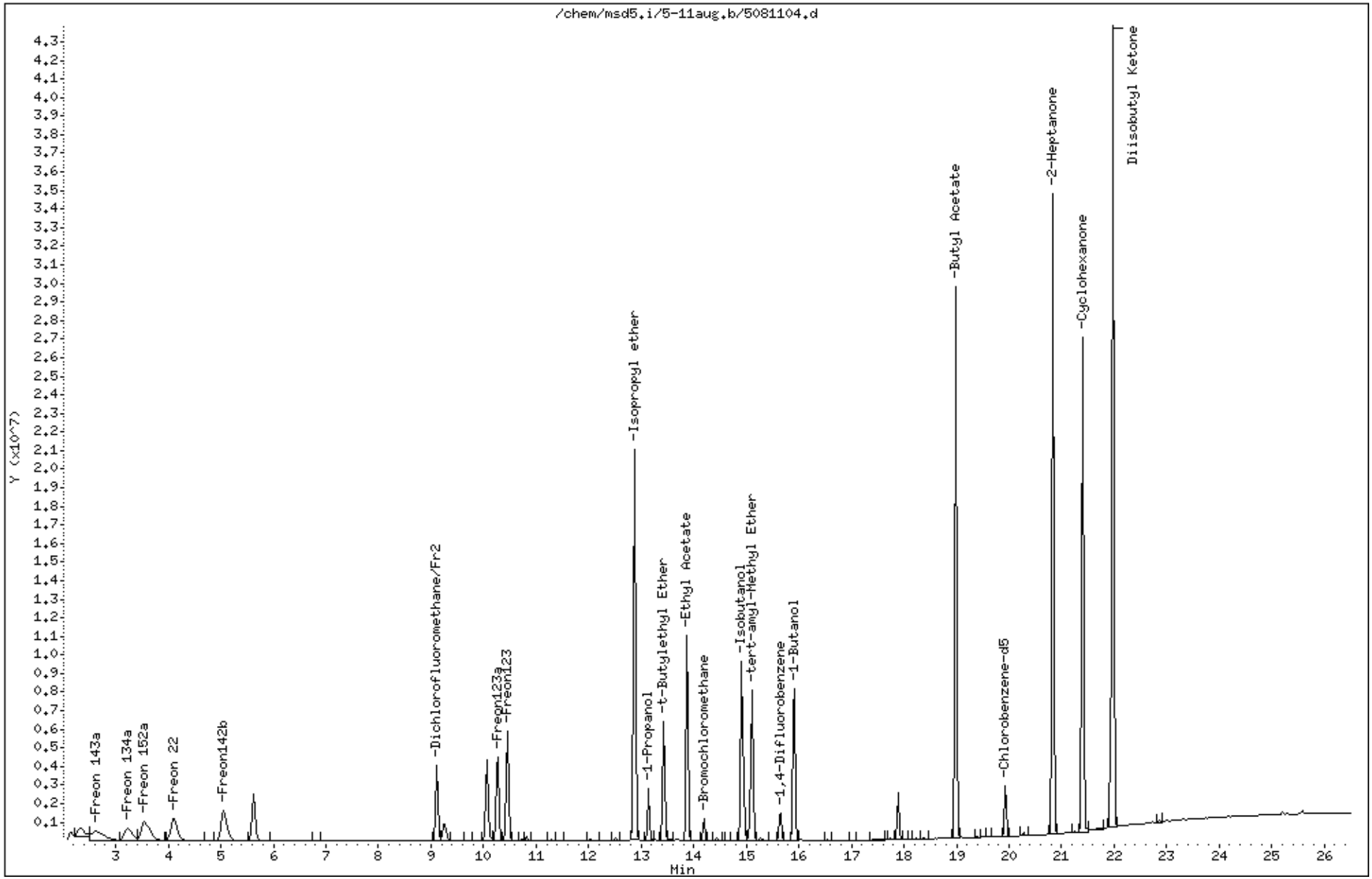
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	0.00

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/5-11aug.b/5081104.d
Date : 11-AUG-2008 11:11
Client ID: Level 7
Sample Info: 200mL #1612-62

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-08aug.b/5080812.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 08-AUG-2008 15:15
Operator : smd Inst ID: msd5.i
Smp Info : 200mL #1612-95
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-08aug.b/t14q808a.m
Meth Date : 11-Aug-2008 11:24 sdisher Quant Type: ISTD
Cal Date : 08-AUG-2008 15:15 Cal File: 5080812.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.197 (1.000)	130	424940	25.0000		50.00- 150.00	100.00
14.197	14.197 (1.000)	128	334284			27.82- 127.82	78.67
14.197	14.197 (1.000)	49	1181632			222.33- 322.33	278.07
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.663	15.663 (1.000)	114	1900354	25.0000		50.00- 150.00	100.00
15.635	15.635 (1.000)	88	314098			0.00- 66.54	16.53
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2066829	25.0000		50.00- 150.00	100.00
19.921	19.921 (1.000)	82	1324259			13.82- 113.82	64.07
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	738965	25.0000	24.998	50.00- 150.00	100.00
15.054	15.054 (1.060)	67	372437			0.80- 100.80	50.40
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.143)	98	2219199	25.0000	25.117	50.00- 150.00	100.00
17.902	17.902 (1.143)	70	251284			0.00- 61.26	11.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.143)	100	1467638			16.23- 116.23	66.13
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1224675	25.0000	25.028	50.00- 150.00	100.00
21.414	21.414 (1.075)	95	2079680			117.20- 217.20	169.81
21.414	21.414 (1.075)	176	1176212			46.11- 146.11	96.04
11 Propylene					CAS #: 115-07-1		
3.331	3.331 (0.235)	41	3926070	200.000	177.09	50.00- 150.00	100.00
3.331	3.331 (0.235)	42	2625849			16.73- 116.73	66.88
3.331	3.331 (0.235)	39	2826833			25.62- 125.62	72.00
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	7123285	200.000	179.25	50.00- 150.00	100.00
3.663	3.663 (0.258)	87	2287700			0.00- 80.95	32.12
16 Freon 114					CAS #: 76-14-2		
4.796	4.796 (0.338)	135	4598061	200.000	190.49	50.00- 150.00	100.00
4.796	4.796 (0.338)	137	1446190			0.00- 80.61	31.45
18 Chloromethane					CAS #: 74-87-3		
5.101	5.101 (0.359)	50	4792952	200.000	183.81	50.00- 150.00	100.00
5.101	5.101 (0.359)	52	1507142			0.00- 82.33	31.44
20 Vinyl Chloride					CAS #: 75-01-4		
5.875	5.875 (0.414)	62	4583337	200.000	195.35	50.00- 150.00	100.00
5.875	5.875 (0.414)	64	1335003			0.00- 79.12	29.13
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.096 (0.429)	54	4474980	200.000	176.29	50.00- 150.00	100.00
6.096	6.096 (0.429)	39	4683595			54.34- 154.34	104.66
25 Bromomethane					CAS #: 74-83-9		
7.589	7.589 (0.535)	94	2223718	200.000	209.70	50.00- 150.00	100.00(A)
7.589	7.589 (0.535)	96	2100238			50.45- 150.45	94.45
27 Chloroethane					CAS #: 75-00-3		
8.114	8.114 (0.572)	64	2538324	200.000	201.28	50.00- 150.00	100.00(A)
8.114	8.114 (0.572)	49	917350			0.00- 86.14	36.14
8.114	8.114 (0.572)	66	750601			0.00- 80.35	29.57
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.916 (0.628)	101	8574884	200.000	202.33	50.00- 150.00	100.00(A)
8.916	8.916 (0.628)	103	5548965			17.19- 117.19	64.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.077	10.077 (0.710)	45	2847633	200.000	190.55	50.00- 150.00	100.00
10.077	10.077 (0.710)	43	532849			0.00- 68.79	18.71
10.077	10.077 (0.710)	46	1121309			0.00- 87.61	39.38
42 Freon 113					CAS #: 76-13-1		
10.437	10.437 (0.735)	151	4738228	200.000	185.64	50.00- 150.00	100.00
10.437	10.437 (0.735)	153	3003498			13.22- 113.22	63.39
10.409	10.409 (0.733)	101	6479242			84.23- 184.23	136.74
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.409 (0.733)	61	7805196	200.000	192.65	50.00- 150.00	100.00
10.409	10.409 (0.733)	96	3321760			0.00- 97.32	42.56
10.409	10.409 (0.733)	98	2114546			0.00- 78.05	27.09
45 Acetone					CAS #: 67-64-1		
10.796	10.796 (0.760)	58	3194712	200.000	201.48	50.00- 150.00	100.00(A)
10.796	10.796 (0.760)	43	11392207			308.33- 408.33	356.60
46 2-Propanol					CAS #: 67-63-0		
11.266	11.266 (0.794)	45	13723808	200.000	197.70	50.00- 150.00	100.00
11.266	11.266 (0.794)	43	2265896			0.00- 67.96	16.51
11.266	11.266 (0.794)	59	439182			0.00- 53.33	3.20
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.741 (0.757)	76	12715841	200.000	207.77	50.00- 150.00	100.00(A)
51 3-Chloropropene					CAS #: 107-05-1		
11.322	11.322 (0.797)	76	1945635	200.000	211.18	50.00- 150.00	100.00(A)
11.322	11.322 (0.797)	41	11505370			532.92- 632.92	591.34
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	8591138	200.000	200.72	50.00- 150.00	100.00(A)
11.653	11.653 (0.821)	84	3683500			0.00- 92.81	42.88
11.653	11.653 (0.821)	51	2576284			0.00- 81.59	29.99
60 MTBE					CAS #: 1634-04-4		
12.041	12.041 (0.848)	73	2173093	200.000	93.963	50.00- 150.00	100.00
12.041	12.041 (0.848)	57	958510			0.00- 98.11	44.11
12.041	12.041 (0.848)	41	1322825			16.75- 116.75	60.87
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.850)	96	4378788	200.000	192.40	50.00- 150.00	100.00
12.068	12.068 (0.850)	61	8931116			146.62- 246.62	203.96
12.068	12.068 (0.850)	98	2755434			11.58- 111.58	62.93

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	12041458	200.000	186.48	50.00- 150.00	100.00
12.400	12.400 (0.873)	43	9173803			27.68- 127.68	76.19
12.400	12.400 (0.873)	86	1263520			0.00- 60.34	10.49
69 Vinyl Acetate					CAS #: 108-05-4		
12.953	12.953 (0.912)	86	1203060	200.000	198.34	50.00- 150.00	100.00
12.953	12.953 (0.912)	43	22890432			1870.31-1970.31	1902.68
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.870	12.870 (0.907)	63	10602086	200.000	202.12	50.00- 150.00	100.00(A)
12.870	12.870 (0.907)	65	3161063			0.00- 80.86	29.82
75 2-Butanone					CAS #: 78-93-3		
13.865	13.865 (0.977)	72	2680216	200.000	200.50	50.00- 150.00	100.00(A)
13.865	13.865 (0.977)	43	19065131			668.14- 768.14	711.33
13.865	13.865 (0.977)	57	1217868			5.66- 105.66	45.44
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	8751714	200.000	196.56	50.00- 150.00	100.00
13.810	13.810 (0.973)	96	4790610			11.12- 111.12	54.74
13.810	13.810 (0.973)	98	3020353			0.00- 85.43	34.51
80 Tetrahydrofuran					CAS #: 109-99-9		
14.170	14.170 (0.998)	42	12075809	200.000	194.92	50.00- 150.00	100.00
14.170	14.170 (0.998)	71	2471633			0.00- 71.17	20.47
14.170	14.170 (0.998)	72	2675323			0.00- 72.62	22.15
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	9266274	200.000	180.13	50.00- 150.00	100.00
14.280	14.280 (1.006)	85	5709271			12.05- 112.05	61.61
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	9390003	200.000	191.94	50.00- 150.00	100.00
14.474	14.474 (1.019)	99	6003036			12.25- 112.25	63.93
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.018)	84	7678584	200.000	186.51	50.00- 150.00	100.00
14.446	14.446 (1.018)	56	14575118			134.98- 234.98	189.82
14.446	14.446 (1.018)	41	8710063			67.25- 167.25	113.43
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	8515280	200.000	194.56	50.00- 150.00	100.00
14.667	14.667 (1.033)	117	8846788			53.62- 153.62	103.89
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	36867623	200.000	163.97	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	14456257			0.00- 83.12	39.21
14.944	14.944 (1.053)	41	11946021			0.00- 78.06	32.40
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.959)	78	17083517	200.000	188.60	50.00- 150.00	100.00
15.027	15.027 (0.959)	77	3823644			0.00- 73.44	22.38
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.165	15.165 (0.968)	62	8134579	200.000	203.27	50.00- 150.00	100.00(A)
15.165	15.165 (0.968)	64	2457913			0.00- 81.33	30.22
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.972)	71	6283555	200.000	187.72	50.00- 150.00	100.00
15.220	15.220 (0.972)	43	19750668			251.25- 351.25	314.32
15.220	15.220 (0.972)	57	8710907			81.70- 181.70	138.63
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.023)	95	6246489	200.000	193.42	50.00- 150.00	100.00
16.022	16.022 (1.023)	130	6006475			47.40- 147.40	96.16
16.022	16.022 (1.023)	97	4004389			16.71- 116.71	64.11
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.053)	63	7958986	200.000	199.76	50.00- 150.00	100.00
16.492	16.492 (1.053)	62	5805843			22.98- 122.98	72.95
16.492	16.492 (1.053)	41	5568011			22.25- 122.25	69.96
106 1,4-Dioxane					CAS #: 123-91-1		
16.658	16.658 (1.064)	88	4147843	200.000	196.90	50.00- 150.00	100.00
16.658	16.658 (1.064)	58	4414342			54.62- 154.62	106.43
16.658	16.658 (1.064)	57	1346676			0.00- 82.83	32.47
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.079)	83	10540517	200.000	206.55	50.00- 150.00	100.00(A)
16.907	16.907 (1.079)	85	6419190			11.49- 111.49	60.90
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.122)	75	9625735	200.000	201.47	50.00- 150.00	100.00(A)
17.570	17.570 (1.122)	77	3025932			0.00- 82.02	31.44
17.570	17.570 (1.122)	39	7832358			32.28- 132.28	81.37
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.132)	58	8696025	200.000	205.31	50.00- 150.00	100.00(A)
17.736	17.736 (1.132)	43	25028256			250.15- 350.15	287.81
17.736	17.736 (1.132)	85	2453354			0.00- 81.83	28.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.148)	91	20326666	200.000	190.70	50.00- 150.00	100.00
17.985	17.985 (1.148)	92	12267410			9.98- 109.98	60.35
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	10286212	200.000	206.92	50.00- 150.00	100.00(A)
18.372	18.372 (0.922)	77	3207880			0.00- 81.05	31.19
18.372	18.372 (0.922)	39	8086812			28.38- 128.38	78.62
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	6920686	200.000	187.72	50.00- 150.00	100.00
18.649	18.649 (0.936)	99	4267744			8.76- 108.76	61.67
18.649	18.649 (0.936)	83	6027299			33.35- 133.35	87.09
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	7378880	200.000	183.10	50.00- 150.00	100.00
18.732	18.732 (0.940)	129	5884026			28.49- 128.49	79.74
18.732	18.732 (0.940)	131	5641624			27.87- 127.87	76.46
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	13000204	200.000	206.09	50.00- 150.00	100.00(A)
18.898	18.898 (0.949)	43	23181397			163.33- 263.33	178.32
18.898	18.898 (0.949)	100	1770176			0.00- 64.25	13.62
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	10172539	200.000	200.97	50.00- 150.00	100.00(A)
19.174	19.174 (0.963)	127	7879653			42.47- 142.47	77.46
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.395	19.395 (0.974)	107	10702333	200.000	190.05	50.00- 150.00	100.00
19.395	19.395 (0.974)	109	10064569			49.57- 149.57	94.04
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	17183811	200.000	192.04	50.00- 150.00	100.00
19.976	19.976 (1.003)	114	5440870			0.00- 82.46	31.66
19.976	19.976 (1.003)	77	13343741			39.27- 139.27	77.65
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	9462444	200.000	189.56	50.00- 150.00	100.00
20.031	20.031 (1.006)	91	23831859			273.61- 373.61	251.86
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	12254346	200.000	192.44	50.00- 150.00	100.00
20.169	20.169 (1.012)	91	24807912			156.85- 256.85	202.44
130 o-Xylene					CAS #: 95-47-6		
20.722	20.722 (1.040)	106	11040638	200.000	185.48	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.722	20.722 (1.040)	91	23751251			168.76- 268.76	215.13
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	18712072	200.000	180.80	50.00- 150.00	100.00
20.750	20.750 (1.042)	78	9397557			2.99- 102.99	50.22
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	9193521	200.000	193.88	50.00- 150.00	100.00
21.054	21.054 (1.057)	171	4741164			1.64- 101.64	51.57
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	25005931	200.000	137.73	50.00- 150.00	100.00
21.137	21.137 (1.061)	120	8406440			0.00- 75.89	33.62
21.137	21.137 (1.061)	51	5164773			0.00- 65.13	20.65
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	17869043	200.000	184.37	50.00- 150.00	100.00
21.607	21.607 (1.085)	85	10903564			12.36- 112.36	61.02
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	26921090	200.000	125.92	50.00- 150.00	100.00
21.635	21.635 (1.086)	120	8765930			0.00- 71.75	32.56
21.635	21.635 (1.086)	105	1430549			0.00- 53.77	5.31
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	29437315	200.000	147.68	50.00- 150.00	100.00
21.773	21.773 (1.093)	120	10835036			0.00- 79.21	36.81
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	27976947	200.000	159.78	50.00- 150.00	100.00
21.828	21.828 (1.096)	120	14889957			0.00- 96.90	53.22
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.299	22.299 (1.119)	105	25421266	200.000	151.04	50.00- 150.00	100.00
22.299	22.299 (1.119)	120	12904431			0.00- 94.15	50.76
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	16846775	200.000	174.88	50.00- 150.00	100.00
22.741	22.741 (1.142)	148	10597249			10.51- 110.51	62.90
22.741	22.741 (1.142)	111	7757659			0.00- 93.75	46.05
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	17138389	200.000	178.79	50.00- 150.00	100.00
22.851	22.851 (1.147)	148	10773290			9.29- 109.29	62.86
22.851	22.851 (1.147)	111	7477575			0.00- 93.39	43.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
23.017	23.017 (1.155)	91	29912475	200.000	176.34	50.00- 150.00	100.00
23.017	23.017 (1.155)	126	6020567			0.00- 68.40	20.13
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.322	23.322 (1.171)	146	15947754	200.000	172.35	50.00- 150.00	100.00
23.322	23.322 (1.171)	148	10057881			9.90- 109.90	63.07
23.322	23.322 (1.171)	111	7537742			0.00- 95.74	47.27
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	13005431	200.000	176.50	50.00- 150.00	100.00
25.202	25.202 (1.265)	182	12282975			44.56- 144.56	94.44
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	8070475	200.000	160.27	50.00- 150.00	100.00
25.285	25.285 (1.269)	223	5094993			12.72- 112.72	63.13
29 Isopentane					CAS #: 78-78-4		
8.225	8.225 (0.579)	43	8554895	200.000	192.16	50.00- 150.00	100.00
8.225	8.225 (0.579)	57	4903591			7.22- 107.22	57.32
19 Butane					CAS #: 106-97-8		
5.736	5.736 (0.404)	58	1009080	200.000	201.24	50.00- 150.00	100.00(A)
5.709	5.709 (0.402)	43	9095922			873.35- 973.35	901.41
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	11224399	200.000	187.13	50.00- 150.00	100.00
16.216	16.216 (1.142)	98	5075295			0.00- 95.32	45.22
16.216	16.216 (1.142)	55	14208253			73.58- 173.58	126.58
167 Naphthalene					CAS #: 91-20-3		
25.589	25.589 (1.285)	128	32645490	200.000	180.54	50.00- 150.00	100.00
25.589	25.589 (1.285)	127	4231309			0.00- 63.84	12.96
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
12.013	12.013 (0.846)	59	2244548	200.000	81.504	50.00- 150.00	100.00
12.041	12.041 (0.848)	41	1324955			7.15- 107.15	59.03
12.041	12.041 (0.848)	57	968802			0.00- 92.38	43.16

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5080812.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd5.i/5-08aug.b/t14q808a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 08-AUG-2008
Calibration Time: 13:56
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	390402	234241	546563	424940	8.85
97 1,4-Difluorobenze	1846321	1107793	2584849	1900354	2.93
126 Chlorobenzene-d5	2069370	1241622	2897118	2066829	-0.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.20	13.87	14.53	14.20	0.00
97 1,4-Difluorobenze	15.66	15.33	15.99	15.66	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	0.00

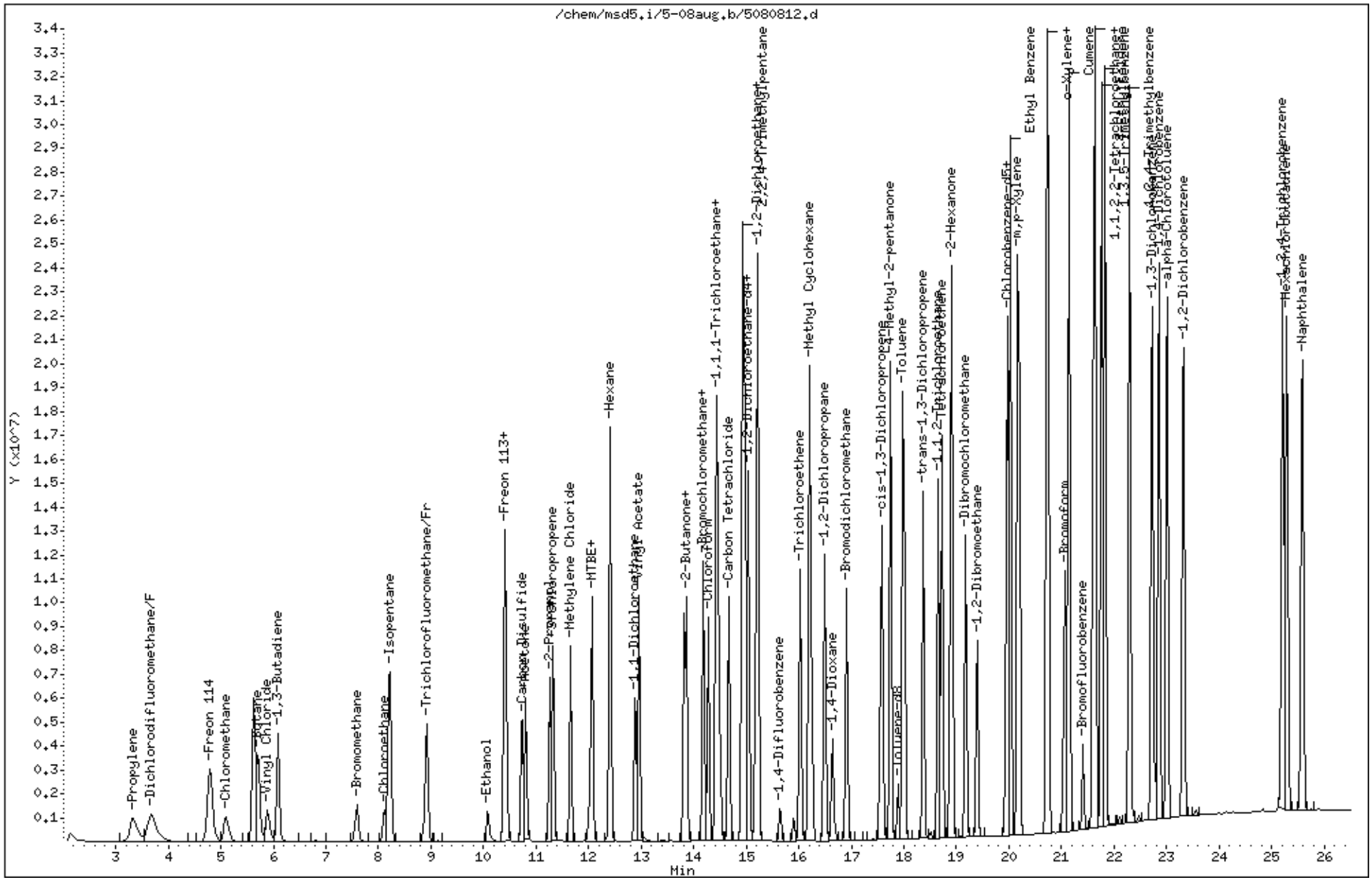
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0176

Data File: /chem/msd5.i/5-08aug.b/5080812.d
Date : 08-AUG-2008 15:15
Client ID: Level 7
Sample Info: 200mL #1612-95

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0809069-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 10:47 AM**	

Compound	%Recovery
Freon 12	130
Freon 114	119
Vinyl Chloride	106
Bromomethane	121
Chloroethane	100
Freon 11	128
1,1-Dichloroethene	101
Freon 113	109
Methylene Chloride	105
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	93
Chloroform	94
1,1,1-Trichloroethane	114
Carbon Tetrachloride	121
Benzene	91
1,2-Dichloroethane	114
Trichloroethene	103
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	102
Toluene	103
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	87
Tetrachloroethene	101
1,2-Dibromoethane (EDB)	94
Chlorobenzene	97
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	100
Styrene	92
1,1,2,2-Tetrachloroethane	98
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	103
1,3-Butadiene	96
Hexane	87
Cyclohexane	95

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0809069-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 10:47 AM**	

Compound	%Recovery
Heptane	96
Bromodichloromethane	110
Dibromochloromethane	104
Cumene	99
Propylbenzene	107
Chloromethane	131 Q
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	109
Acetone	84
Carbon Disulfide	96
2-Propanol	102
trans-1,2-Dichloroethene	93
2-Butanone (Methyl Ethyl Ketone)	89
Tetrahydrofuran	99
1,4-Dioxane	95
4-Methyl-2-pentanone	92
2-Hexanone	75
Bromoform	116
4-Ethyltoluene	110
Ethanol	99
Methyl tert-butyl ether	104
3-Chloropropene	96
2,2,4-Trimethylpentane	91
Naphthalene	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-SEP-2008 10:47
Lab File ID: 5091504.d Init. Cal. Date(s): 08-AUG-2008 02-SEP-2008
Analysis Type: AIR Init. Cal. Times: 11:33 12:55
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15sep.b/t14q808c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 90 1,2-Dichloroethane-d4	1.73909	1.86691	0.010	-7.35012	30.00000	Averaged	
$ 113 Toluene-d8	1.16232	1.19067	0.010	-2.43907	30.00000	Averaged	
$ 137 Bromofluorobenzene	0.59187	0.65889	0.010	-11.32341	30.00000	Averaged	
11 Propylene	1.30428	1.82014	0.010	-39.55129	30.00000	Averaged	<-
12 Dichlorodifluoromethane/Fr1	2.33789	3.03262	0.010	-29.71631	30.00000	Averaged	
16 Freon 114	1.42010	1.69095	0.010	-19.07226	30.00000	Averaged	
18 Chloromethane	1.53406	2.01576	0.010	-31.40022	30.00000	Averaged	<-
20 Vinyl Chloride	1.38034	1.46095	0.010	-5.83983	30.00000	Averaged	
22 1,3-Butadiene	1.49336	1.42894	0.010	4.31416	30.00000	Averaged	
25 Bromomethane	0.62386	0.75317	0.010	-20.72709	30.00000	Averaged	
27 Chloroethane	0.74191	0.74087	0.010	0.13965	30.00000	Averaged	
31 Trichlorofluoromethane/Fr11	2.49331	3.18185	0.010	-27.61554	30.00000	Averaged	
38 Ethanol	0.87921	0.87208	0.010	0.81064	30.00000	Averaged	
42 Freon 113	1.50162	1.63214	0.010	-8.69183	30.00000	Averaged	
43 1,1-Dichloroethene	2.38358	2.41190	0.010	-1.18850	30.00000	Averaged	
45 Acetone	0.93286	0.78715	0.010	15.61998	30.00000	Averaged	
46 2-Propanol	4.08394	4.17619	0.010	-2.25878	30.00000	Averaged	
47 Carbon Disulfide	3.60066	3.45879	0.010	3.94019	30.00000	Averaged	
51 3-Chloropropene	0.54204	0.51931	0.010	4.19197	30.00000	Averaged	
54 Methylene Chloride	2.51815	2.64026	0.010	-4.84910	30.00000	Averaged	
60 MTBE	1.36061	1.41829	0.010	-4.23867	30.00000	Averaged	
61 trans-1,2-Dichloroethene	1.33897	1.24543	0.010	6.98605	30.00000	Averaged	
65 Hexane	3.79889	3.30136	0.010	13.09663	30.00000	Averaged	
69 Vinyl Acetate	0.35686	0.32213	0.010	9.73151	30.00000	Averaged	
70 1,1-Dichloroethane	3.08596	2.95172	0.010	4.35006	30.00000	Averaged	
75 2-Butanone	0.78646	0.70162	0.010	10.78788	30.00000	Averaged	
76 cis-1,2-Dichloroethene	2.61947	2.44816	0.010	6.54002	30.00000	Averaged	
80 Tetrahydrofuran	3.64479	3.61103	0.010	0.92616	30.00000	Averaged	
82 Chloroform	3.02644	2.84428	0.010	6.01896	30.00000	Averaged	
83 1,1,1-Trichloroethane	2.87813	3.27313	0.010	-13.72414	30.00000	Averaged	
85 Cyclohexane	2.42211	2.29702	0.010	5.16432	30.00000	Averaged	
87 Carbon Tetrachloride	2.57482	3.11029	0.010	-20.79650	30.00000	Averaged	
89 2,2,4-Trimethylpentane	13.22795	12.08072	0.010	8.67277	30.00000	Averaged	
91 Benzene	1.19162	1.08616	0.010	8.85076	30.00000	Averaged	
93 1,2-Dichloroethane	0.52646	0.60219	0.010	-14.38510	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-SEP-2008 10:47
Lab File ID: 5091504.d Init. Cal. Date(s): 08-AUG-2008 02-SEP-2008
Analysis Type: AIR Init. Cal. Times: 11:33 12:55
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15sep.b/t14q808c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Heptane	0.44036	0.42130	0.010	4.32803	30.00000	Averaged
101 Trichloroethene	0.42486	0.43796	0.010	-3.08371	30.00000	Averaged
104 1,2-Dichloropropane	0.52414	0.48406	0.010	7.64612	30.00000	Averaged
106 1,4-Dioxane	0.27713	0.26425	0.010	4.64774	30.00000	Averaged
107 Bromodichloromethane	0.67134	0.74055	0.010	-10.30800	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.62853	0.64015	0.010	-1.84854	30.00000	Averaged
111 4-Methyl-2-pentanone	0.55721	0.51130	0.010	8.24051	30.00000	Averaged
114 Toluene	1.40226	1.44370	0.010	-2.95534	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.60130	0.53898	0.010	10.36445	30.00000	Averaged
117 1,1,2-Trichloroethane	0.44594	0.38729	0.010	13.15274	30.00000	Averaged
120 Tetrachloroethene	0.48745	0.49119	0.010	-0.76693	30.00000	Averaged
121 2-Hexanone	0.76300	0.57290	0.010	24.91486	30.00000	Averaged
122 Dibromochloromethane	0.61225	0.63443	0.010	-3.62285	30.00000	Averaged
123 1,2-Dibromoethane	0.68117	0.63707	0.010	6.47427	30.00000	Averaged
127 Chlorobenzene	1.08235	1.04796	0.010	3.17728	30.00000	Averaged
128 Ethyl Benzene	0.60378	0.58734	0.010	2.72343	30.00000	Averaged
129 m,p-Xylene	0.77026	0.74997	0.010	2.63509	30.00000	Averaged
130 o-Xylene	0.72001	0.72128	0.010	-0.17660	30.00000	Averaged
131 Styrene	1.25184	1.15494	0.010	7.74024	30.00000	Averaged
133 Bromoform	0.57357	0.66257	0.010	-15.51645	30.00000	Averaged
134 Cumene	2.19604	2.16989	0.010	1.19058	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.17229	1.14660	0.010	2.19181	30.00000	Averaged
142 Propylbenzene	2.58593	2.76911	0.010	-7.08366	30.00000	Averaged
145 4-Ethyltoluene	2.41103	2.66355	0.010	-10.47336	30.00000	Averaged
147 1,3,5-Trimethylbenzene	2.11787	2.03187	0.010	4.06090	30.00000	Averaged
150 1,2,4-Trimethylbenzene	2.03584	1.97786	0.010	2.84760	30.00000	Averaged
155 1,3-Dichlorobenzene	1.16520	1.23769	0.010	-6.22112	30.00000	Averaged
156 1,4-Dichlorobenzene	1.15949	1.23399	0.010	-6.42534	30.00000	Averaged
159 alpha-Chlorotoluene	2.05177	1.98415	0.010	3.29585	30.00000	Averaged
161 1,2-Dichlorobenzene	1.11924	1.15198	0.010	-2.92507	30.00000	Averaged
165 1,2,4-Trichlorobenzene	0.89126	0.92079	0.010	-3.31291	30.00000	Averaged
166 Hexachlorobutadiene	0.60911	0.66570	0.010	-9.29064	30.00000	Averaged
29 Isopentane	2.61921	3.03858	0.010	-16.01104	30.00000	Averaged
19 Butane	0.29500	0.31452	0.010	-6.61519	30.00000	Averaged
102 Methyl Cyclohexane	3.52882	3.36069	0.010	4.76446	30.00000	Averaged
167 Naphthalene	2.18718	2.19912	0.010	-0.54600	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-SEP-2008 10:47
Lab File ID: 5091504.d Init. Cal. Date(s): 08-AUG-2008 02-SEP-2008
Analysis Type: AIR Init. Cal. Times: 11:33 12:55
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15sep.b/t14q808c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
57 tert-Butyl-Alcohol	1.62017	1.19280	0.010	26.37804	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-15sep.b/5091504.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 15-SEP-2008 10:47
Operator : smd Inst ID: msd5.i
Smp Info : 50mL #1612-91
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-15sep.b/t14q808c.m
Meth Date : 15-Sep-2008 12:20 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
14.169	14.169 (1.000)	130	386445	25.0000		80.00- 120.00	100.00
14.169	14.169 (1.000)	128	299248			27.44- 127.44	77.44
14.169	14.169 (1.000)	49	1055946			223.25- 323.25	273.25
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.635 (1.000)	114	1749130	25.0000		80.00- 120.00	100.00
15.635	15.635 (1.000)	88	279551			0.00- 65.98	15.98
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2322558	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1365702			13.23- 113.23	58.80
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.062)	65	721459	25.0000	26.838	80.00- 120.00	100.00
15.054	15.054 (1.062)	67	340192			0.80- 100.80	47.15
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.145)	98	2082638	25.0000	25.610	80.00- 120.00	100.00
17.875	17.875 (1.143)	70	229639			0.00- 61.26	11.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1367199			16.23- 116.23	65.65
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1530304	25.0000	27.831	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2291090			99.71- 199.71	149.71
21.414	21.414 (1.075)	176	1483080			46.91- 146.91	96.91
11 Propylene					CAS #: 115-07-1		
3.303	3.303 (0.233)	41	1406766	50.0000	69.776	80.00- 120.00	100.00
3.303	3.303 (0.233)	42	924041			16.73- 116.73	65.69
3.303	3.303 (0.233)	39	1064419			25.62- 125.62	75.66
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	2343885	50.0000	64.858	80.00- 120.00	100.00
3.663	3.663 (0.258)	87	751650			0.00- 80.95	32.07
16 Freon 114					CAS #: 76-14-2		
4.769	4.769 (0.337)	135	1306919	50.0000	59.536	80.00- 120.00	100.00
4.769	4.769 (0.337)	137	409798			0.00- 81.36	31.36
18 Chloromethane					CAS #: 74-87-3		
5.073	5.073 (0.358)	50	1557958	50.0000	65.700	80.00- 120.00	100.00
5.073	5.073 (0.358)	52	463921			0.00- 82.33	29.78
20 Vinyl Chloride					CAS #: 75-01-4		
5.875	5.875 (0.415)	62	1129155	50.0000	52.920	80.00- 120.00	100.00
5.875	5.875 (0.415)	64	322061			0.00- 79.12	28.52
22 1,3-Butadiene					CAS #: 106-99-0		
6.068	6.068 (0.428)	54	1104412	50.0000	47.843	80.00- 120.00	100.00
6.068	6.068 (0.428)	39	1450842			54.34- 154.34	131.37
25 Bromomethane					CAS #: 74-83-9		
7.561	7.561 (0.534)	94	582119	50.0000	60.364	80.00- 120.00	100.00
7.561	7.561 (0.534)	96	549847			44.46- 144.46	94.46
27 Chloroethane					CAS #: 75-00-3		
8.087	8.087 (0.571)	64	572611	50.0000	49.930	80.00- 120.00	100.00
8.087	8.087 (0.571)	49	263902			0.00- 86.14	46.09
8.087	8.087 (0.571)	66	166687			0.00- 80.35	29.11
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.888	8.888 (0.627)	101	2459219	50.0000	63.808	80.00- 120.00	100.00
8.888	8.888 (0.627)	103	1579154			14.21- 114.21	64.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.050	10.050 (0.709)	45	674025	50.0000	49.595	80.00- 120.00	100.00
10.050	10.050 (0.709)	43	151191			0.00- 68.79	22.43
10.050	10.050 (0.709)	46	264409			0.00- 87.61	39.23
42 Freon 113					CAS #: 76-13-1		
10.409	10.409 (0.735)	151	1261467	50.0000	54.346	80.00- 120.00	100.00
10.409	10.409 (0.735)	153	810201			14.23- 114.23	64.23
10.409	10.409 (0.735)	101	1671777			82.53- 182.53	132.53
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.382	10.382 (0.733)	61	1864137	50.0000	50.594	80.00- 120.00	100.00
10.382	10.382 (0.733)	96	744268			0.00- 89.93	39.93
10.382	10.382 (0.733)	98	481511			0.00- 75.83	25.83
45 Acetone					CAS #: 67-64-1		
10.796	10.796 (0.762)	58	608378	50.0000	42.190	80.00- 120.00	100.00
10.796	10.796 (0.762)	43	2951671			308.33- 408.33	485.17
46 2-Propanol					CAS #: 67-63-0		
11.239	11.239 (0.793)	45	3227737	50.0000	51.129	80.00- 120.00	100.00
11.239	11.239 (0.793)	43	634846			0.00- 67.96	19.67
11.239	11.239 (0.793)	59	84264			0.00- 53.33	2.61
47 Carbon Disulfide					CAS #: 75-15-0		
10.713	10.713 (0.756)	76	2673261	50.0000	48.030	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.322	11.322 (0.799)	76	401372	50.0000	47.904	80.00- 120.00	100.00
11.322	11.322 (0.799)	41	2650588			532.92- 632.92	660.38
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.822)	49	2040629	50.0000	52.424	80.00- 120.00	100.00
11.653	11.653 (0.822)	84	767635			0.00- 87.62	37.62
11.653	11.653 (0.822)	51	587485			0.00- 81.59	28.79
60 MTBE					CAS #: 1634-04-4		
12.013	12.013 (0.848)	73	1096179	50.0000	52.119	80.00- 120.00	100.00
12.013	12.013 (0.848)	57	451257			0.00- 91.17	41.17
12.013	12.013 (0.848)	41	796450			16.75- 116.75	72.66
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.068 (0.852)	96	962581	50.0000	46.507	80.00- 120.00	100.00
12.040	12.040 (0.850)	61	1942128			151.76- 251.76	201.76
12.068	12.068 (0.852)	98	609806			11.58- 111.58	63.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.875)	57	2551590	50.0000	43.452	80.00- 120.00	100.00
12.400	12.400 (0.875)	43	2330598			27.68- 127.68	91.34
12.400	12.400 (0.875)	86	288511			0.00- 60.34	11.31
69 Vinyl Acetate					CAS #: 108-05-4		
12.953	12.953 (0.914)	86	248974	50.0000	45.134	80.00- 120.00	100.00
12.953	12.953 (0.914)	43	5436874			1870.31-1970.31	2183.71
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.870	12.870 (0.908)	63	2281355	50.0000	47.825	80.00- 120.00	100.00
12.870	12.870 (0.908)	65	680112			0.00- 79.81	29.81
75 2-Butanone					CAS #: 78-93-3		
13.838	13.838 (0.977)	72	542274	50.0000	44.606	80.00- 120.00	100.00
13.838	13.838 (0.977)	43	4466921			773.74- 873.74	823.74
13.838	13.838 (0.977)	57	255279			5.66- 105.66	47.08
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.975)	61	1892158	50.0000	46.730	80.00- 120.00	100.00
13.810	13.810 (0.975)	96	1067908			6.44- 106.44	56.44
13.810	13.810 (0.975)	98	669370			0.00- 85.38	35.38
80 Tetrahydrofuran					CAS #: 109-99-9		
14.169	14.169 (1.000)	42	2790930	50.0000	49.537	80.00- 120.00	100.00
14.169	14.169 (1.000)	71	516594			0.00- 68.51	18.51
14.169	14.169 (1.000)	72	551435			0.00- 72.62	19.76
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.008)	83	2198317	50.0000	46.990	80.00- 120.00	100.00
14.280	14.280 (1.008)	85	1374230			12.51- 112.51	62.51
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.021)	97	2529770	50.0000	56.862	80.00- 120.00	100.00
14.474	14.474 (1.021)	99	1624557			14.22- 114.22	64.22
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.446 (1.020)	84	1775347	50.0000	47.418	80.00- 120.00	100.00
14.418	14.418 (1.018)	56	3095023			124.33- 224.33	174.33
14.418	14.418 (1.018)	41	2341477			81.89- 181.89	131.89
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.035)	119	2403913	50.0000	60.398	80.00- 120.00	100.00
14.667	14.667 (1.035)	117	2493746			53.74- 153.74	103.74
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.055)	57	9337070	50.0000	45.664	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.055)	56	3063401			0.00- 83.12	32.81
14.944	14.944 (1.055)	41	3295097			0.00- 78.06	35.29
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.961)	78	3799660	50.0000	45.575	80.00- 120.00	100.00
15.027	15.027 (0.961)	77	875527			0.00- 73.44	23.04
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.165	15.165 (0.970)	62	2106629	50.0000	57.192	80.00- 120.00	100.00
15.165	15.165 (0.970)	64	630332			0.00- 81.33	29.92
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.973)	71	1473807	50.0000	47.836	80.00- 120.00	100.00
15.220	15.220 (0.973)	43	5046336			251.25- 351.25	342.40
15.220	15.220 (0.973)	57	1902615			81.70- 181.70	129.10
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.025)	95	1532111	50.0000	51.542	80.00- 120.00	100.00
16.022	16.022 (1.025)	130	1544665			50.82- 150.82	100.82
16.022	16.022 (1.025)	97	996863			15.06- 115.06	65.06
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.055)	63	1693376	50.0000	46.177	80.00- 120.00	100.00
16.492	16.492 (1.055)	62	1233320			22.83- 122.83	72.83
16.492	16.492 (1.055)	41	1626287			46.04- 146.04	96.04
106 1,4-Dioxane					CAS #: 123-91-1		
16.630	16.630 (1.064)	88	924421	50.0000	47.676	80.00- 120.00	100.00
16.630	16.630 (1.064)	58	913589			48.83- 148.83	98.83
16.630	16.630 (1.064)	57	293133			0.00- 82.83	31.71
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.081)	83	2590623	50.0000	55.154	80.00- 120.00	100.00
16.907	16.907 (1.081)	85	1610532			12.17- 112.17	62.17
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.124)	75	2239421	50.0000	50.924	80.00- 120.00	100.00
17.570	17.570 (1.124)	77	713759			0.00- 81.87	31.87
17.570	17.570 (1.124)	39	2225988			49.40- 149.40	99.40
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.134)	58	1788645	50.0000	45.880	80.00- 120.00	100.00
17.736	17.736 (1.134)	43	6416476			250.15- 350.15	358.73
17.736	17.736 (1.134)	85	575120			0.00- 81.83	32.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.150)	91	5050434	50.0000	51.478	80.00- 120.00	100.00
17.985	17.985 (1.150)	92	3020091			9.80- 109.80	59.80
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	2503610	50.0000	44.818	80.00- 120.00	100.00
18.372	18.372 (0.922)	77	789949			0.00- 81.55	31.55
18.372	18.372 (0.922)	39	2272557			40.77- 140.77	90.77
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	1799011	50.0000	43.424	80.00- 120.00	100.00
18.649	18.649 (0.936)	99	1125268			12.55- 112.55	62.55
18.649	18.649 (0.936)	83	1563763			36.92- 136.92	86.92
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	2281624	50.0000	50.383	80.00- 120.00	100.00
18.732	18.732 (0.940)	129	1737092			26.13- 126.13	76.13
18.732	18.732 (0.940)	131	1659651			22.74- 122.74	72.74
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	2661178	50.0000	37.542	80.00- 120.00	100.00
18.898	18.898 (0.949)	43	6600343			198.02- 298.02	248.02
18.898	18.898 (0.949)	100	413825			0.00- 64.25	15.55
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	2946996	50.0000	51.811	80.00- 120.00	100.00
19.174	19.174 (0.963)	127	2270950			42.47- 142.47	77.06
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.368	19.368 (0.972)	107	2959249	50.0000	46.763	80.00- 120.00	100.00
19.368	19.368 (0.972)	109	2799024			44.59- 144.59	94.59
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	4867914	50.0000	48.411	80.00- 120.00	100.00
19.976	19.976 (1.003)	114	1554753			0.00- 81.94	31.94
19.948	19.948 (1.001)	77	3648832			24.96- 124.96	74.96
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	2728255	50.0000	48.638	80.00- 120.00	100.00
20.031	20.031 (1.006)	91	8693614			273.61- 373.61	318.65
129 m,p-Xylene					CAS #: 108-38-3		
20.169	20.169 (1.012)	106	3483682	50.0000	48.682	80.00- 120.00	100.00
20.169	20.169 (1.012)	91	6900882			156.85- 256.85	198.09
130 o-Xylene					CAS #: 95-47-6		
20.695	20.695 (1.039)	106	3350430	50.0000	50.088	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.695	20.695 (1.039)	91	7043939			160.24- 260.24	210.24
131 Styrene					CAS #: 100-42-5		
20.750	20.750 (1.042)	104	5364836	50.0000	46.130	80.00- 120.00	100.00
20.722	20.722 (1.040)	78	2631565			0.00- 99.05	49.05
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	3077722	50.0000	57.758	80.00- 120.00	100.00
21.054	21.054 (1.057)	171	1577252			1.25- 101.25	51.25
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	10079407	50.0000	49.405	80.00- 120.00	100.00
21.137	21.137 (1.061)	120	2661467			0.00- 75.89	26.40
21.137	21.137 (1.061)	51	1441038			0.00- 65.13	14.30
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	5326068	50.0000	48.904	80.00- 120.00	100.00
21.580	21.580 (1.083)	85	3323562			12.40- 112.40	62.40
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	12862827	50.0000	53.542	80.00- 120.00	100.00
21.635	21.635 (1.086)	120	2844199			0.00- 71.75	22.11
21.635	21.635 (1.086)	105	462054			0.00- 53.77	3.59
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	12372491	50.0000	55.237	80.00- 120.00	100.00
21.773	21.773 (1.093)	120	3785685			0.00- 80.60	30.60
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	9438252	50.0000	47.970	80.00- 120.00	100.00
21.828	21.828 (1.096)	120	4557160			0.00- 96.90	48.28
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.298	22.298 (1.119)	105	9187407	50.0000	48.576	80.00- 120.00	100.00
22.298	22.298 (1.119)	120	4180285			0.00- 94.15	45.50
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.741 (1.142)	146	5749203	50.0000	53.110	80.00- 120.00	100.00
22.741	22.741 (1.142)	148	3637050			10.51- 110.51	63.26
22.713	22.713 (1.140)	111	2432836			0.00- 93.75	42.32
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.851	22.851 (1.147)	146	5732026	50.0000	53.213	80.00- 120.00	100.00
22.851	22.851 (1.147)	148	3628137			9.29- 109.29	63.30
22.824	22.824 (1.146)	111	2461125			0.00- 93.39	42.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
22.990	22.990 (1.154)	91	9216584	50.0000	48.352	80.00- 120.00	100.00
23.017	23.017 (1.155)	126	1836376			0.00- 68.40	19.92
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.294	23.294 (1.169)	146	5351071	50.0000	51.462	80.00- 120.00	100.00
23.294	23.294 (1.169)	148	3406466			13.66- 113.66	63.66
23.294	23.294 (1.169)	111	2435644			0.00- 95.52	45.52
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	4277162	50.0000	51.656	80.00- 120.00	100.00
25.202	25.202 (1.265)	182	4092703			45.69- 145.69	95.69
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	3092236	50.0000	54.645	80.00- 120.00	100.00
25.285	25.285 (1.269)	223	1956751			12.72- 112.72	63.28
29 Isopentane					CAS #: 78-78-4		
8.197	8.197 (0.578)	43	2348485	50.0000	58.006	80.00- 120.00	100.00
8.197	8.197 (0.578)	57	1121693			7.22- 107.22	47.76
19 Butane					CAS #: 106-97-8		
5.709	5.709 (0.403)	58	243089	50.0000	53.308	80.00- 120.00	100.00
5.709	5.709 (0.403)	43	2746198			873.35- 973.35	1129.71
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.144)	83	2597441	50.0000	47.618	80.00- 120.00	100.00
16.216	16.216 (1.144)	98	1222342			0.00- 95.32	47.06
16.216	16.216 (1.144)	55	3130122			73.58- 173.58	120.51
167 Naphthalene					CAS #: 91-20-3		
25.561	25.561 (1.283)	128	10215174	50.0000	50.273	80.00- 120.00	100.00
25.561	25.561 (1.283)	127	1258721			0.00- 63.84	12.32
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.985	11.985 (0.846)	59	921902	50.0000	36.811	80.00- 120.00	100.00
12.013	12.013 (0.848)	41	795357			7.15- 107.15	86.27
12.013	12.013 (0.848)	57	454930			0.00- 92.38	49.35

Report Date: 15-Sep-2008 12:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5091504.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 15-SEP-2008
Calibration Time: 09:28
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

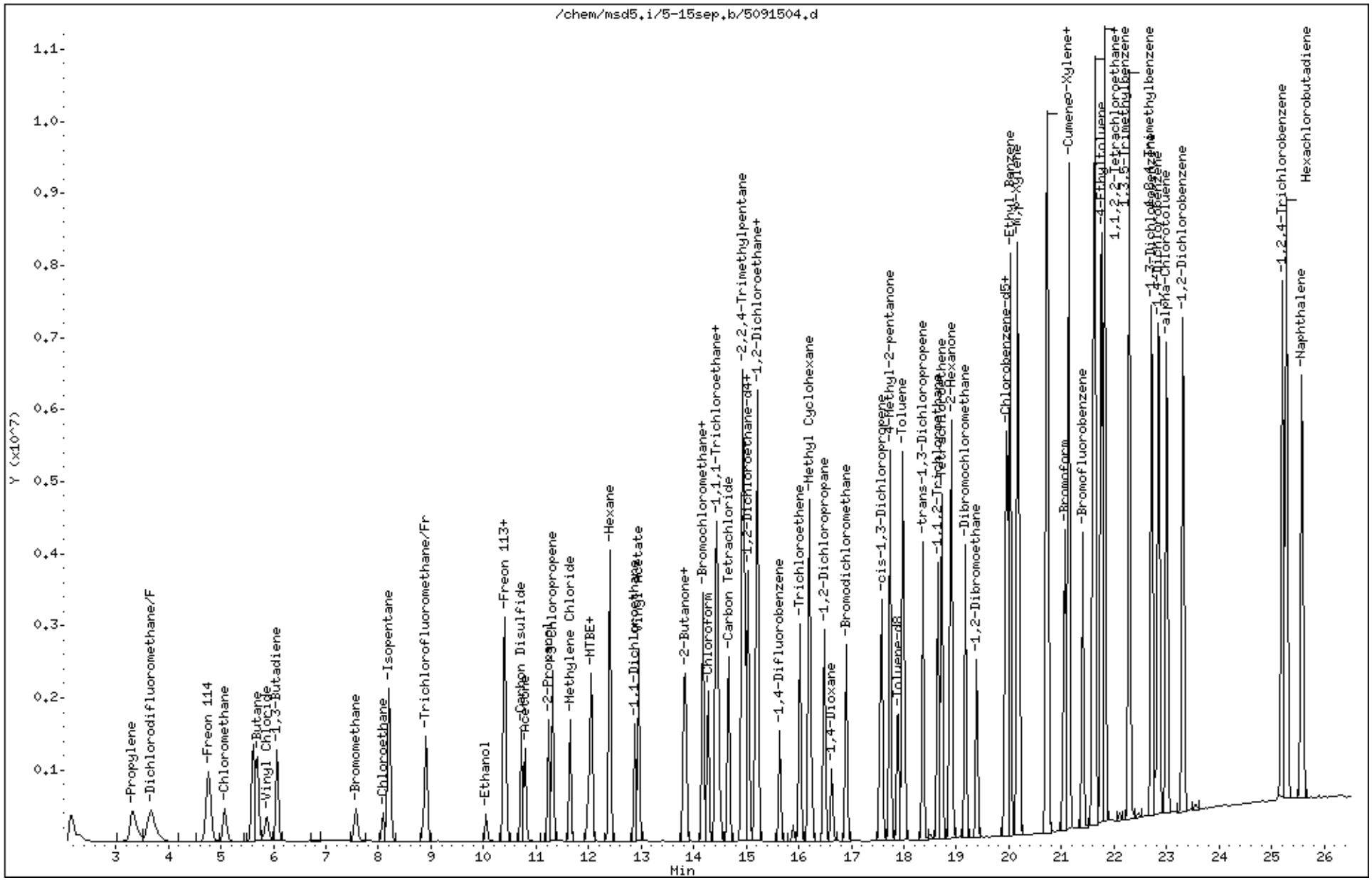
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	371118	222671	519565	386445	4.13
97 1,4-Difluorobenze	1682541	1009525	2355557	1749130	3.96
126 Chlorobenzene-d5	2270956	1362574	3179338	2322558	2.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.17	0.00
97 1,4-Difluorobenze	15.64	15.31	15.97	15.63	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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/5-15sep.b/5091504.d
Date : 15-SEP-2008 10:47
Client ID: CCV-1
Sample Info: 50mL #1612-91

Instrument: msd5.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809069-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 10:06 AM**	

Compound	%Recovery
Freon 12	130
Freon 114	118
Vinyl Chloride	102
Bromomethane	115
Chloroethane	98
Freon 11	128
1,1-Dichloroethene	113
Freon 113	121
Methylene Chloride	115
1,1-Dichloroethane	99
cis-1,2-Dichloroethene	96
Chloroform	98
1,1,1-Trichloroethane	116
Carbon Tetrachloride	122
Benzene	92
1,2-Dichloroethane	119
Trichloroethene	105
1,2-Dichloropropane	93
cis-1,3-Dichloropropene	102
Toluene	109
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	87
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	91
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	100
Styrene	93
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	102
1,3-Butadiene	92
Hexane	87
Cyclohexane	95

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809069-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5091503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/15/08 10:06 AM**	

Compound	%Recovery
Heptane	97
Bromodichloromethane	113
Dibromochloromethane	106
Cumene	101
Propylbenzene	109
Chloromethane	129
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	108
Acetone	87
Carbon Disulfide	95
2-Propanol	105
trans-1,2-Dichloroethene	93
2-Butanone (Methyl Ethyl Ketone)	91
Tetrahydrofuran	99
1,4-Dioxane	96
4-Methyl-2-pentanone	93
2-Hexanone	76
Bromoform	117
4-Ethyltoluene	111
Ethanol	100
Methyl tert-butyl ether	98
3-Chloropropene	97
2,2,4-Trimethylpentane	91
Naphthalene	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	112	70-130

Report Date: 15-Sep-2008 10:15

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: smd
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /var/chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	64.940	129.88	70-130
16 Freon 114	50.000	59.076	118.15	70-130
18 Chloromethane	50.000	64.338	128.68	70-130
20 Vinyl Chloride	50.000	51.166	102.33	70-130
22 1,3-Butadiene	50.000	46.021	92.04	60-140
25 Bromomethane	50.000	57.503	115.01	70-130
27 Chloroethane	50.000	48.943	97.89	70-130
31 Trichlorofluoromet	50.000	64.053	128.11	70-130
38 Ethanol	50.000	50.088	100.18	60-140
42 Freon 113	50.000	60.744	121.49	70-130
43 1,1-Dichloroethene	50.000	56.430	112.86	70-130
45 Acetone	50.000	43.467	86.93	60-140
47 Carbon Disulfide	50.000	47.555	95.11	60-140
46 2-Propanol	50.000	52.410	104.82	60-140
54 Methylene Chloride	50.000	57.314	114.63	70-130
60 MTBE	50.000	48.849	97.70	60-140
61 trans-1,2-Dichloro	50.000	46.701	93.40	60-140
65 Hexane	50.000	43.601	87.20	60-140
69 Vinyl Acetate	50.000	45.579	91.16	60-140
70 1,1-Dichloroethane	50.000	49.735	99.47	70-130
76 cis-1,2-Dichloroet	50.000	47.954	95.91	70-130
75 2-Butanone	50.000	45.518	91.04	60-140
80 Tetrahydrofuran	50.000	49.304	98.61	60-140
82 Chloroform	50.000	48.936	97.87	70-130
85 Cyclohexane	50.000	47.721	95.44	60-140
83 1,1,1-Trichloroeth	50.000	58.244	116.49	70-130
87 Carbon Tetrachlori	50.000	61.087	122.17	70-130
91 Benzene	50.000	46.010	92.02	70-130
93 1,2-Dichloroethane	50.000	59.578	119.16	70-130
94 Heptane	50.000	48.451	96.90	60-140
101 Trichloroethene	50.000	52.578	105.16	70-130
104 1,2-Dichloropropan	50.000	46.390	92.78	70-130
106 1,4-Dioxane	50.000	48.084	96.17	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
107 Bromodichlorometha	50.000	56.599	113.20	60-140
110 cis-1,3-Dichloropr	50.000	50.869	101.74	70-130
111 4-Methyl-2-pentano	50.000	46.593	93.19	60-140
114 Toluene	50.000	54.490	108.98	70-130
116 trans-1,3-Dichloro	50.000	45.009	90.02	70-130
117 1,1,2-Trichloroeth	50.000	43.717	87.43	70-130
120 Tetrachloroethene	50.000	51.378	102.76	70-130
121 2-Hexanone	50.000	37.903	75.81	60-140
122 Dibromochlorometha	50.000	52.796	105.59	60-140
123 1,2-Dibromoethane	50.000	45.698	91.40	70-130
127 Chlorobenzene	50.000	48.974	97.95	70-130
128 Ethyl Benzene	50.000	48.251	96.50	70-130
129 m,p-Xylene	50.000	48.305	96.61	70-130
130 o-Xylene	50.000	50.214	100.43	70-130
131 Styrene	50.000	46.325	92.65	70-130
133 Bromoform	50.000	58.353	116.71	60-140
140 1,1,2,2-Tetrachlor	50.000	49.392	98.78	70-130
145 4-Ethyltoluene	50.000	55.481	110.96	60-140
147 1,3,5-Trimethylben	50.000	47.459	94.92	70-130
150 1,2,4-Trimethylben	50.000	48.468	96.94	70-130
155 1,3-Dichlorobenzen	50.000	53.164	106.33	70-130
156 1,4-Dichlorobenzen	50.000	52.737	105.47	70-130
159 alpha-Chlorotoluen	50.000	49.245	98.49	70-130
161 1,2-Dichlorobenzen	50.000	51.255	102.51	70-130
165 1,2,4-Trichloroben	50.000	53.050	106.10	70-130
166 Hexachlorobutadien	50.000	53.822	107.64	70-130
142 Propylbenzene	50.000	54.730	109.46	60-140
134 Cumene	50.000	50.669	101.34	60-140
51 3-Chloropropene	50.000	48.421	96.84	60-140
89 2,2,4-Trimethylpen	50.000	45.400	90.80	60-140
29 Isopentane	50.000	57.369	114.74	70-130
19 Butane	50.000	53.239	106.48	70-130
102 Methyl Cyclohexane	50.000	47.921	95.84	70-130
11 Propylene	50.000	72.406	144.81*	60-140
167 Naphthalene	50.000	53.012	106.02	60-140
57 tert-Butyl-Alcohol	50.000	34.301	68.60	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	27.226	108.90	70-130
$ 113 Toluene-d8	25.000	25.756	103.02	70-130
$ 137 Bromofluorobenzene	25.000	28.094	112.38	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msd5.i/5-15sep.b/5091503.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 15-SEP-2008 10:06
Operator : smd Inst ID: msd5.i
Smp Info : 50mL #1612-122
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /var/chem/msd5.i/5-15sep.b/t14q808c.m
Meth Date : 15-Sep-2008 09:41 sdisher Quant Type: ISTD
Cal Date : 02-SEP-2008 12:55 Cal File: 5090204.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
14.197	14.170 (1.000)	130	388110	25.0000		80.00- 120.00	100.00
14.197	14.170 (1.000)	128	305497			27.23- 127.23	78.71
14.170	14.170 (1.000)	49	1060737			225.61- 325.61	273.31
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.635 (1.000)	114	1752146	25.0000		80.00- 120.00	100.00
15.635	15.635 (1.000)	88	285354			0.00- 65.84	16.29
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
19.921	19.921 (1.000)	117	2335391	25.0000		80.00- 120.00	100.00
19.921	19.921 (1.000)	82	1386865			13.23- 113.23	59.38
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
15.054	15.054 (1.060)	65	735053	27.2259	27.226	80.00- 120.00	100.00
15.054	15.054 (1.060)	67	350118			0.80- 100.80	47.63
$ 113 Toluene-d8					CAS #: 2037-26-5		
17.902	17.902 (1.145)	98	2098152	25.7561	25.756	80.00- 120.00	100.00
17.902	17.875 (1.145)	70	231868			0.00- 61.26	11.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
17.902	17.902 (1.145)	100	1390504			16.23- 116.23	66.27
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
21.414	21.414 (1.075)	174	1553316	28.0941	28.094	80.00- 120.00	100.00
21.414	21.414 (1.075)	95	2343984			100.28- 200.28	150.90
21.414	21.414 (1.075)	176	1486376			46.43- 146.43	95.69
11 Propylene					CAS #: 115-07-1		
3.331	3.331 (0.235)	41	1466097	72.4065	72.406	80.00- 120.00	100.00(R)
3.331	3.331 (0.235)	42	966779			16.73- 116.73	65.94
3.331	3.331 (0.235)	39	1125561			25.62- 125.62	76.77
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
3.663	3.663 (0.258)	85	2356950	64.9399	64.940	80.00- 120.00	100.00
3.663	3.663 (0.258)	87	746979			0.00- 80.95	31.69
16 Freon 114					CAS #: 76-14-2		
4.796	4.769 (0.338)	135	1302412	59.0763	59.076	80.00- 120.00	100.00
4.796	4.769 (0.338)	137	414962			0.00- 81.47	31.86
18 Chloromethane					CAS #: 74-87-3		
5.101	5.073 (0.359)	50	1532220	64.3375	64.338	80.00- 120.00	100.00
5.101	5.073 (0.359)	52	453324			0.00- 82.33	29.59
20 Vinyl Chloride					CAS #: 75-01-4		
5.875	5.847 (0.414)	62	1096425	51.1655	51.166	80.00- 120.00	100.00
5.875	5.875 (0.414)	64	307227			0.00- 79.12	28.02
22 1,3-Butadiene					CAS #: 106-99-0		
6.096	6.068 (0.429)	54	1066940	46.0214	46.021	80.00- 120.00	100.00
6.096	6.068 (0.429)	39	1418850			54.34- 154.34	132.98
25 Bromomethane					CAS #: 74-83-9		
7.589	7.561 (0.535)	94	556922	57.5030	57.503	80.00- 120.00	100.00
7.589	7.561 (0.535)	96	520599			43.90- 143.90	93.48
27 Chloroethane					CAS #: 75-00-3		
8.114	8.087 (0.572)	64	563709	48.9431	48.943	80.00- 120.00	100.00
8.114	8.087 (0.572)	49	264434			0.00- 86.14	46.91
8.114	8.087 (0.572)	66	163404			0.00- 80.35	28.99
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.916	8.889 (0.628)	101	2479322	64.0534	64.053	80.00- 120.00	100.00
8.916	8.889 (0.628)	103	1597957			14.49- 114.49	64.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
10.077	10.050 (0.710)	45	683656	50.0875	50.088	80.00- 120.00	100.00
10.077	10.050 (0.710)	43	154320			0.00- 68.79	22.57
10.077	10.050 (0.710)	46	265842			0.00- 87.61	38.89
42 Freon 113					CAS #: 76-13-1		
10.437	10.409 (0.735)	151	1416065	60.7445	60.744	80.00- 120.00	100.00
10.437	10.409 (0.735)	153	912778			13.89- 113.89	64.46
10.437	10.409 (0.735)	101	1843855			79.88- 179.88	130.21
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.409	10.382 (0.733)	61	2088098	56.4296	56.430	80.00- 120.00	100.00
10.409	10.382 (0.733)	96	831563			0.00- 89.38	39.82
10.409	10.382 (0.733)	98	528792			0.00- 75.07	25.32
45 Acetone					CAS #: 67-64-1		
10.796	10.796 (0.760)	58	629493	43.4670	43.467	80.00- 120.00	100.00
10.796	10.769 (0.760)	43	3074117			308.33- 408.33	488.35
46 2-Propanol					CAS #: 67-63-0		
11.239	11.239 (0.792)	45	3322808	52.4096	52.410	80.00- 120.00	100.00
11.239	11.239 (0.792)	43	661509			0.00- 67.96	19.91
11.239	11.239 (0.792)	59	86045			0.00- 53.33	2.59
47 Carbon Disulfide					CAS #: 75-15-0		
10.741	10.713 (0.757)	76	2658250	47.5553	47.555	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
11.349	11.322 (0.799)	76	407452	48.4210	48.421	80.00- 120.00	100.00
11.322	11.322 (0.797)	41	2790661			532.92- 632.92	684.91
54 Methylene Chloride					CAS #: 75-09-2		
11.653	11.653 (0.821)	49	2240548	57.3136	57.314	80.00- 120.00	100.00
11.653	11.653 (0.821)	84	826789			0.00- 86.80	36.90
11.653	11.653 (0.821)	51	641865			0.00- 81.59	28.65
60 MTBE					CAS #: 1634-04-4		
12.041	12.013 (0.848)	73	1031828	48.8492	48.849	80.00- 120.00	100.00
12.041	12.013 (0.848)	57	431160			0.00- 91.90	41.79
12.041	12.013 (0.848)	41	763662			16.75- 116.75	74.01
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
12.068	12.041 (0.850)	96	970767	46.7013	46.701	80.00- 120.00	100.00
12.068	12.041 (0.850)	61	1979835			153.48- 253.48	203.95
12.068	12.041 (0.850)	98	621934			11.58- 111.58	64.07

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
12.400	12.400 (0.873)	57	2571375	43.6008	43.601	80.00- 120.00	100.00
12.400	12.400 (0.873)	43	2367656			27.68- 127.68	92.08
12.400	12.400 (0.873)	86	288337			0.00- 60.34	11.21
69 Vinyl Acetate					CAS #: 108-05-4		
12.953	12.953 (0.912)	86	252511	45.5791	45.579	80.00- 120.00	100.00
12.953	12.953 (0.912)	43	5559516			1870.31-1970.31	2201.69
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.870	12.870 (0.907)	63	2382680	49.7348	49.735	80.00- 120.00	100.00
12.870	12.870 (0.907)	65	711054			0.00- 80.00	29.84
75 2-Butanone					CAS #: 78-93-3		
13.865	13.838 (0.977)	72	555743	45.5179	45.518	80.00- 120.00	100.00
13.865	13.838 (0.977)	43	4545431			791.17- 891.17	817.90
13.865	13.838 (0.977)	57	255111			5.66- 105.66	45.90
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.810	13.810 (0.973)	61	1950091	47.9541	47.954	80.00- 120.00	100.00
13.810	13.810 (0.973)	96	1096762			6.57- 106.57	56.24
13.810	13.810 (0.973)	98	696766			0.00- 85.87	35.73
80 Tetrahydrofuran					CAS #: 109-99-9		
14.170	14.170 (0.998)	42	2789799	49.3044	49.304	80.00- 120.00	100.00
14.170	14.170 (0.998)	71	519538			0.00- 68.28	18.62
14.170	14.170 (0.998)	72	547320			0.00- 72.62	19.62
82 Chloroform					CAS #: 67-66-3		
14.280	14.280 (1.006)	83	2299204	48.9362	48.936	80.00- 120.00	100.00
14.280	14.280 (1.006)	85	1431715			12.74- 112.74	62.27
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.474	14.474 (1.019)	97	2602401	58.2437	58.244	80.00- 120.00	100.00
14.474	14.474 (1.019)	99	1666488			13.97- 113.97	64.04
85 Cyclohexane					CAS #: 110-82-7		
14.446	14.418 (1.018)	84	1794393	47.7209	47.721	80.00- 120.00	100.00
14.446	14.418 (1.018)	56	3098086			120.77- 220.77	172.65
14.446	14.418 (1.018)	41	2365592			82.42- 182.42	131.83
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.667	14.667 (1.033)	119	2441818	61.0874	61.087	80.00- 120.00	100.00
14.667	14.667 (1.033)	117	2536154			53.45- 153.45	103.86
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.944	14.944 (1.053)	57	9323103	45.3997	45.400	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.944	14.944 (1.053)	56	3052210			0.00- 83.12	32.74
14.944	14.944 (1.053)	41	3320746			0.00- 78.06	35.62
91 Benzene					CAS #: 71-43-2		
15.027	15.027 (0.961)	78	3842621	46.0106	46.010	80.00- 120.00	100.00
15.027	15.027 (0.961)	77	888877			0.00- 73.44	23.13
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.165	15.165 (0.970)	62	2198291	59.5783	59.578	80.00- 120.00	100.00
15.165	15.165 (0.970)	64	660306			0.00- 81.33	30.04
94 Heptane					CAS #: 142-82-5		
15.220	15.220 (0.973)	71	1495321	48.4507	48.451	80.00- 120.00	100.00
15.220	15.220 (0.973)	43	5121415			251.25- 351.25	342.50
15.220	15.220 (0.973)	57	1908278			81.70- 181.70	127.62
101 Trichloroethene					CAS #: 79-01-6		
16.022	16.022 (1.025)	95	1565611	52.5782	52.578	80.00- 120.00	100.00
16.022	16.022 (1.025)	130	1565661			51.25- 151.25	100.00
16.022	16.022 (1.025)	97	1016293			14.38- 114.38	64.91
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.492	16.492 (1.055)	63	1704110	46.3897	46.390	80.00- 120.00	100.00
16.492	16.492 (1.055)	62	1234337			22.48- 122.48	72.43
16.492	16.492 (1.055)	41	1656412			51.11- 151.11	97.20
106 1,4-Dioxane					CAS #: 123-91-1		
16.630	16.630 (1.064)	88	933936	48.0839	48.084	80.00- 120.00	100.00
16.630	16.630 (1.064)	58	910654			46.29- 146.29	97.51
16.630	16.630 (1.064)	57	297771			0.00- 82.83	31.88
107 Bromodichloromethane					CAS #: 75-27-4		
16.907	16.907 (1.081)	83	2663076	56.5989	56.599	80.00- 120.00	100.00
16.907	16.907 (1.081)	85	1646345			11.84- 111.84	61.82
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.570	17.570 (1.124)	75	2240856	50.8692	50.869	80.00- 120.00	100.00
17.570	17.570 (1.124)	77	704680			0.00- 81.64	31.45
17.570	17.570 (1.124)	39	2254494			52.15- 152.15	100.61
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.736	17.736 (1.134)	58	1819582	46.5930	46.593	80.00- 120.00	100.00
17.736	17.736 (1.134)	43	6542492			250.15- 350.15	359.56
17.736	17.736 (1.134)	85	586350			0.00- 81.83	32.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
17.985	17.985 (1.150)	91	5355223	54.4903	54.490	80.00- 120.00	100.00
17.985	17.985 (1.150)	92	3187581			9.95- 109.95	59.52
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.372	18.372 (0.922)	75	2528188	45.0091	45.009	80.00- 120.00	100.00
18.372	18.372 (0.922)	77	797983			0.00- 81.47	31.56
18.372	18.372 (0.922)	39	2306506			43.60- 143.60	91.23
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
18.649	18.649 (0.936)	97	1821177	43.7171	43.717	80.00- 120.00	100.00
18.649	18.649 (0.936)	99	1141196			11.91- 111.91	62.66
18.649	18.649 (0.936)	83	1587507			36.81- 136.81	87.17
120 Tetrachloroethene					CAS #: 127-18-4		
18.732	18.732 (0.940)	166	2339526	51.3782	51.378	80.00- 120.00	100.00
18.732	18.732 (0.940)	129	1771846			25.23- 125.23	75.74
18.732	18.732 (0.940)	131	1688969			22.24- 122.24	72.19
121 2-Hexanone					CAS #: 591-78-6		
18.898	18.898 (0.949)	58	2701572	37.9030	37.903	80.00- 120.00	100.00
18.898	18.898 (0.949)	43	6746350			202.59- 302.59	249.72
18.898	18.898 (0.949)	100	431549			0.00- 64.25	15.97
122 Dibromochloromethane					CAS #: 124-48-1		
19.174	19.174 (0.963)	129	3019582	52.7958	52.796	80.00- 120.00	100.00
19.174	19.174 (0.963)	127	2318633			42.47- 142.47	76.79
123 1,2-Dibromoethane					CAS #: 106-93-4		
19.368	19.368 (0.972)	107	2907835	45.6979	45.698	80.00- 120.00	100.00
19.368	19.368 (0.972)	109	2735797			44.07- 144.07	94.08
127 Chlorobenzene					CAS #: 108-90-7		
19.976	19.976 (1.003)	112	4951673	48.9737	48.974	80.00- 120.00	100.00
19.976	19.976 (1.003)	114	1591605			0.00- 82.12	32.14
19.976	19.948 (1.003)	77	3688234			24.16- 124.16	74.48
128 Ethyl Benzene					CAS #: 100-41-4		
20.031	20.031 (1.006)	106	2721493	48.2511	48.251	80.00- 120.00	100.00
20.031	20.031 (1.006)	91	8592468			273.61- 373.61	315.73
129 m,p-Xylene					CAS #: 108-38-3		
20.170	20.170 (1.012)	106	3475785	48.3052	48.305	80.00- 120.00	100.00
20.170	20.170 (1.012)	91	6906627			156.85- 256.85	198.71
130 o-Xylene					CAS #: 95-47-6		
20.695	20.695 (1.039)	106	3377401	50.2141	50.214	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
20.695	20.695 (1.039)	91	7104162			159.27- 259.27	210.34
131 Styrene					CAS #: 100-42-5		
20.750	20.723 (1.042)	104	5417267	46.3247	46.325	80.00- 120.00	100.00
20.723	20.723 (1.040)	78	2666259			0.00- 99.22	49.22
133 Bromoform					CAS #: 75-25-2		
21.054	21.054 (1.057)	173	3126581	58.3527	58.353	80.00- 120.00	100.00
21.054	21.054 (1.057)	171	1613180			1.79- 101.79	51.60
134 Cumene					CAS #: 98-82-8		
21.137	21.137 (1.061)	105	10394427	50.6688	50.669	80.00- 120.00	100.00
21.137	21.137 (1.061)	120	2744641			0.00- 75.89	26.40
21.137	21.137 (1.061)	51	1475804			0.00- 65.13	14.20
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
21.580	21.580 (1.083)	83	5408975	49.3924	49.392	80.00- 120.00	100.00
21.580	21.580 (1.083)	85	3381681			12.40- 112.40	62.52
142 Propylbenzene					CAS #: 103-65-1		
21.635	21.635 (1.086)	91	13220952	54.7301	54.730	80.00- 120.00	100.00
21.635	21.635 (1.086)	120	2905458			0.00- 71.75	21.98
21.635	21.635 (1.086)	105	469256			0.00- 53.77	3.55
145 4-Ethyltoluene					CAS #: 622-96-8		
21.773	21.773 (1.093)	105	12495815	55.4807	55.481	80.00- 120.00	100.00
21.773	21.773 (1.093)	120	3814820			0.00- 80.90	30.53
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
21.828	21.828 (1.096)	105	9389446	47.4593	47.459	80.00- 120.00	100.00
21.828	21.828 (1.096)	120	4542478			0.00- 96.90	48.38
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
22.299	22.299 (1.119)	105	9217678	48.4684	48.468	80.00- 120.00	100.00
22.299	22.299 (1.119)	120	4201295			0.00- 94.15	45.58
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
22.741	22.713 (1.142)	146	5786829	53.1644	53.164	80.00- 120.00	100.00
22.741	22.713 (1.142)	148	3676451			10.51- 110.51	63.53
22.713	22.713 (1.140)	111	2430201			0.00- 93.75	42.00
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
22.852	22.852 (1.147)	146	5712151	52.7368	52.737	80.00- 120.00	100.00
22.852	22.852 (1.147)	148	3627868			9.29- 109.29	63.51
22.824	22.824 (1.146)	111	2449203			0.00- 93.39	42.88

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
22.990	22.990 (1.154)	91	9438639	49.2449	49.245	80.00- 120.00	100.00
23.017	22.990 (1.155)	126	1882303			0.00- 68.40	19.94
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
23.294	23.294 (1.169)	146	5358968	51.2553	51.255	80.00- 120.00	100.00
23.294	23.294 (1.169)	148	3394420			13.13- 113.13	63.34
23.294	23.294 (1.169)	111	2403847			0.00- 94.96	44.86
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
25.202	25.202 (1.265)	180	4416806	53.0499	53.050	80.00- 120.00	100.00
25.202	25.202 (1.265)	182	4179444			45.25- 145.25	94.63
166 Hexachlorobutadiene					CAS #: 87-68-3		
25.285	25.285 (1.269)	225	3062447	53.8215	53.822	80.00- 120.00	100.00
25.285	25.285 (1.269)	223	1940952			12.72- 112.72	63.38
29 Isopentane					CAS #: 78-78-4		
8.225	8.197 (0.579)	43	2332728	57.3692	57.369	80.00- 120.00	100.00
8.225	8.197 (0.579)	57	1103699			7.22- 107.22	47.31
19 Butane					CAS #: 106-97-8		
5.737	5.709 (0.404)	58	243821	53.2387	53.239	80.00- 120.00	100.00
5.737	5.709 (0.404)	43	2786125			873.35- 973.35	1142.69
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.216	16.216 (1.142)	83	2625264	47.9214	47.921	80.00- 120.00	100.00
16.216	16.216 (1.142)	98	1244384			0.00- 95.32	47.40
16.216	16.216 (1.142)	55	3165428			73.58- 173.58	120.58
167 Naphthalene					CAS #: 91-20-3		
25.561	25.561 (1.283)	128	10831190	53.0118	53.012	80.00- 120.00	100.00
25.561	25.561 (1.283)	127	1341448			0.00- 63.84	12.39
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.985	11.985 (0.844)	59	862751	34.3013	34.301	80.00- 120.00	100.00
12.041	12.013 (0.848)	41	765084			7.15- 107.15	88.68
12.041	12.013 (0.848)	57	436031			0.00- 92.38	50.54

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: 5091503.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /var/chem/msd5.i/5-15sep.b/t14q808c.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 15-SEP-2008
Calibration Time: 09:28
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	371118	222671	519565	388110	4.58
97 1,4-Difluorobenze	1682541	1009525	2355557	1752146	4.14
126 Chlorobenzene-d5	2270956	1362574	3179338	2335391	2.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	14.17	13.84	14.50	14.20	0.20
97 1,4-Difluorobenze	15.64	15.31	15.97	15.64	0.00
126 Chlorobenzene-d5	19.92	19.59	20.25	19.92	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.

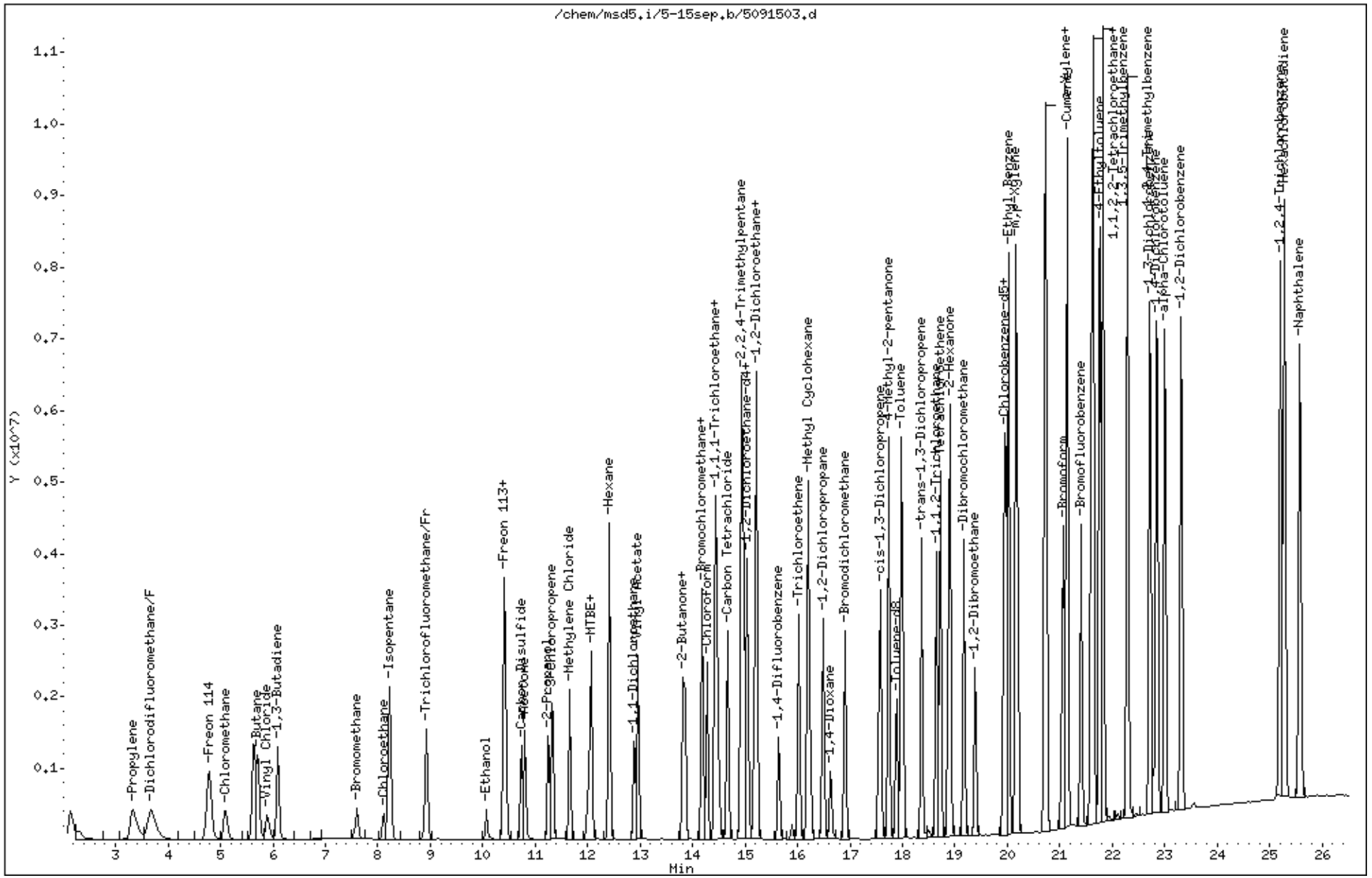
0206

Data File: /chem/msd5.i/5-15sep.b/5091503.d
Date : 15-SEP-2008 10:06
Client ID: LCS-1
Sample Info: 50mL #1612-122

Column phase: RTx-624

Instrument: msd5.i

Operator: smd
Column diameter: 0.53



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MSD-5

Logbook #: 1713

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	27.98
75	30.0 – 60.0% of mass 95	44.50
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.63
173	Less than 2.0% of mass 174	(0.88)[1]
174	Greater than 50.0% of mass 95	66.10
175	5.0 – 9.0% of mass 174	(7.15)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.99)[1]
177	5.0 – 9.0% of mass 176	(6.59)[2]

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

BFB Injection Date: 9-15-08
BFB Injection Time: 0841
BFB File ID: 5091501
Tekmar Purge Flow: 12.3mL/min
Vacuum: 8.11×10^{-6}

IS/S Std.#:	1541-257	Exp. Date: 12-9-08
BCM	386445	
1,4-DFB	1749130	
CB-d5	2322558	

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

0207

Verify 176/174 m/z Ratio: 643328/663296 *100 = 96.99 ✓

NOAH Cart #: 11/7 **File #:** F091505/F091506

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 721454\ )}{(\ 386445\ )} \times \frac{(\ 25.00\ )}{(\ 1.73909\ )} = 26.837$$

File ID:	5091504
Compound:	1,2-DCA-d4
Initials:	MR

Reported Result 26.838 ✓

Method: T14g808c

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5091501	BFB Tune Check	1476-435	50ng	2µL	1.00	9-15-08	0841	MR/CT	
2	X	5091502	CCV-1 50ppbv(200ppbv)	1612-91	50ppbv	50mL	1.00		0928	MR/CT	Freon 12 ↑ >40%
3	✓	↓ 03	LCS-1 ↓	1612-122	↓	↓	↓		1006	MR/CT	
4	✓	5091504	CCV-1 50ppbv(200ppbv)	1612-91	50ppbv	50mL	1.00		1047	MR/CT	Chloromethane ↑ <40%
5	X	5091505	~~Lab~~ Blank System MR 9-15-08	12941	Humid	200mL	1.00		1204	MR/CT	
6	✓	06	Lab Blank	↓	↓	↓	↓		1256	CT	
7	✓	5091507	0809129A-05A	25239	8.5Hg-5psi	200mL	1.57		1347	KR	
8	✓	08	↓ -05AA	↓	↓	↓	↓		1428	KR	
9	✓	09	↓ -03A	5618	9.5Hg-5psi	↓	1.96	↓	1510	MR/CT	

Signature

9-15-08
Date

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MSD-5

Logbook #: 1637

10	✓	509150	0809129A-04A	1601	8.5"Hg-5psi	200mL	1.87	9-15-08	1551	CT	
11	✓	509151	-01A	35241	40"Hg-5psi		1.55		1632	CT	
12	✓	12	-02A	R-19	8.5"Hg-5psi		1.87		17-14	CT	
13	✓	509151 13	0809196A-03A	5750	1.5"Hg-5psi		1.41		1755	KR	
14	✓	14	0809069-02A	12011	8.0"Hg-5psi		1.83		1836	KR	
15	✓	15	-01A	5550	7.5"Hg-5psi		1.79		1918	KR	
16	✓	16	0809182A-06A	35262	4.5"Hg-5psi		1.58		2102	KR	
17	✓	17	-05A	34189	5.0"Hg		1.61		2143	KR	
18	✓	18	-02A	33665	3.5"Hg		1.52		2324	DM/CT	
19	✓	19	-01A	9918	2.0"Hg		1.44		2305	DM/CT	
20	✓	20	-04A	25243	4.5"Hg		1.58		2349	DM/CT	
21	✓	21	-03A	34746	4.0"Hg		1.55	9/16/08	0028	DM/CT	E'-2 pop >350
22	X	22	0809056-01A	34615	19.5"Hg-15psi	25mL	46.2		0107	DM/CT	rr 135
23	X	23	-02A	36438	16.5"Hg	10mL	89.8		0147	CT	rr 200mL
24	✓	24	-01A	34615	19.5"Hg	135mL	7.55		0313	DM CT	Dilute NT
25	✓	25	-02A	36438	16.5"Hg	200mL	4.49	✓	0356	9-16-08 CT CT	✓ 9-16-08 CT
26											
27											
28											
29											
30											
31											
32											

Comments:

9-16-08 CT

C Taylor
Signature

9-16-08
Date

0208

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-08aug.b/5080805.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 08-AUG-2008 10:47
Operator : smd Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL#1476-435; 50ng
Comment :
Method : /var/chem/msd5.i/5-08aug.b/bfb60.m
Meth Date : 08-Aug-2008 07:46 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		
6.565	6.594	-0.029	95	787128			100.00- 100.00	100.00
6.565	6.594	-0.029	50	218438			15.00- 40.00	27.75
6.565	6.594	-0.029	75	357124			30.00- 60.00	45.37
6.565	6.594	-0.029	96	53138			5.00- 9.00	6.75
6.565	6.594	-0.029	173	5537			0.00- 1.99	1.13
6.565	6.594	-0.029	174	488383			50.01- 100.00	62.05
6.565	6.594	-0.029	175	36639			5.00- 9.00	7.50
6.565	6.594	-0.029	176	469219			95.01- 100.99	96.08
6.565	6.594	-0.029	177	30369			5.00- 9.00	6.47

Data File: /var/chem/msd5.i/5-08aug.b/5080805.d

Page 1

Date : 08-AUG-2008 10:47

Client ID: BFB

Instrument: msd5.i

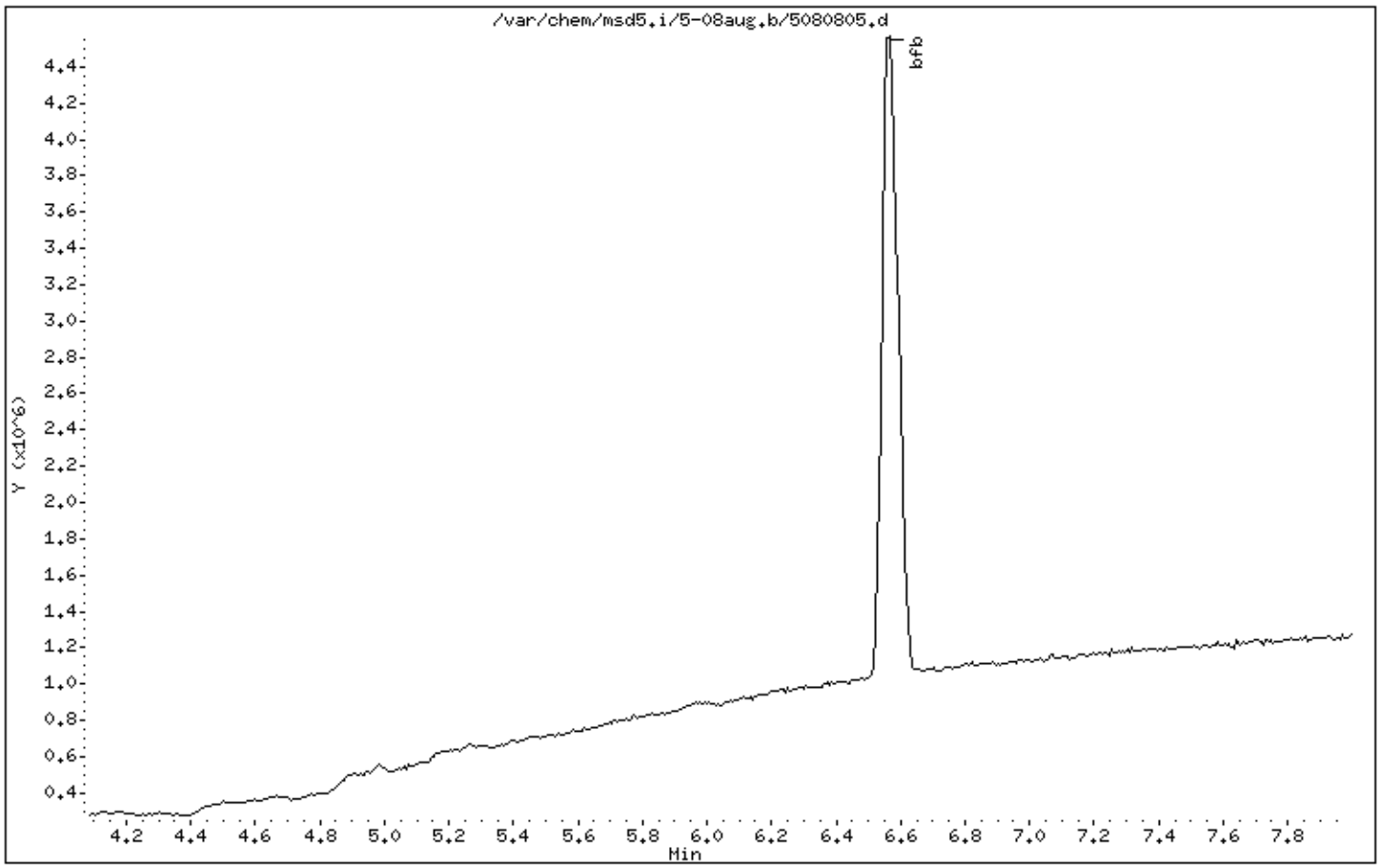
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-08aug.b/5080805.d

Date : 08-AUG-2008 10:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

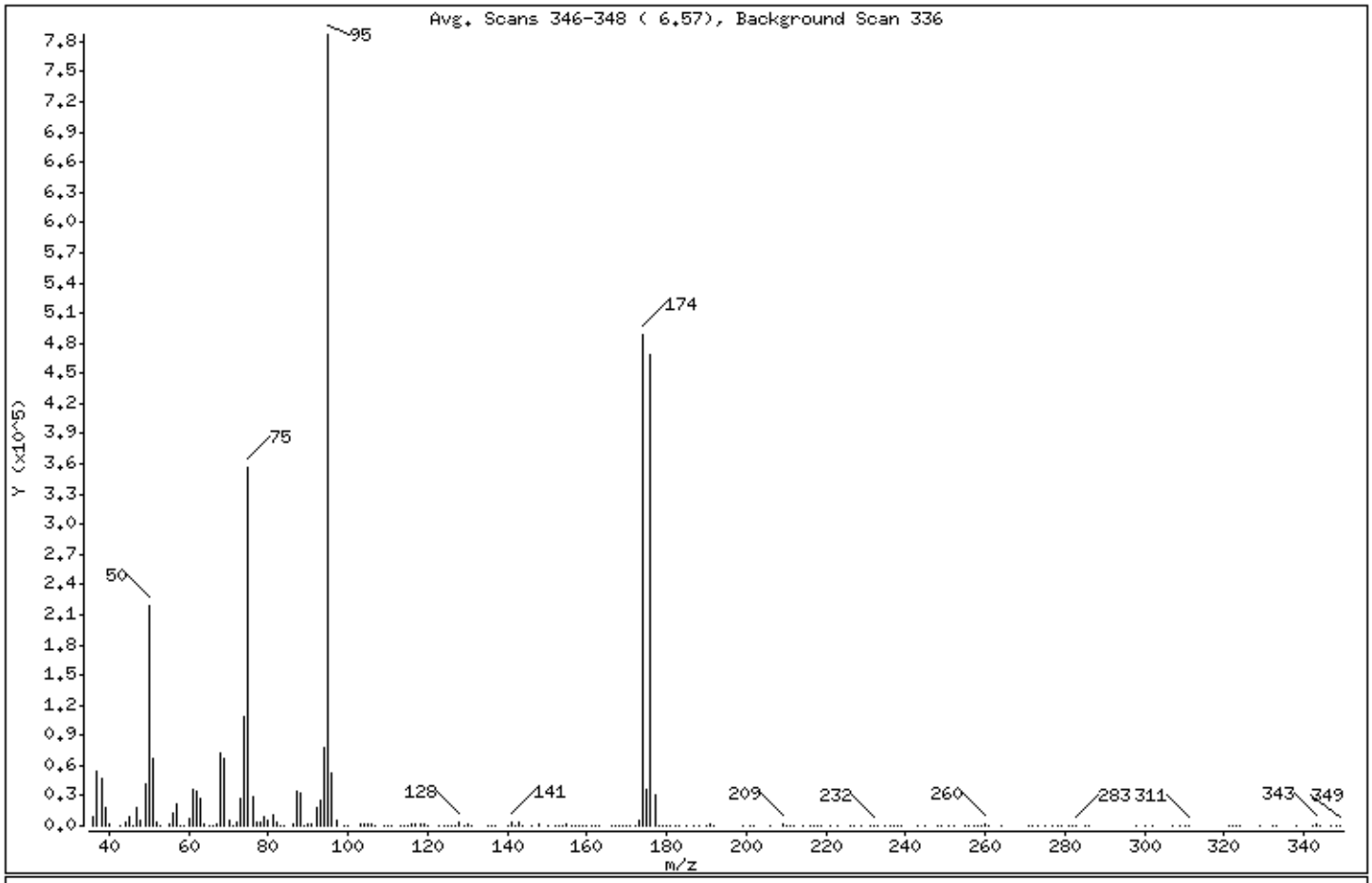
Volume Injected (uL): 1.0

Operator: smd

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	27.75
75	30.00 - 60.00% of mass 95	45.37
96	5.00 - 9.00% of mass 95	6.75
173	Less than 1.99% of mass 174	0.70 (1.13)
174	50.01 - 100.00% of mass 95	62.05
175	5.00 - 9.00% of mass 174	4.65 (7.50)
176	95.01 - 100.99% of mass 174	59.61 (96.08)
177	5.00 - 9.00% of mass 176	3.86 (6.47)

Date : 08-AUG-2008 10:47

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5080805.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8951	92.00	17648	160.00	283	238.00	158
37.00	53720	93.00	25976	161.00	817	239.00	281
38.00	46320	94.00	77872	162.00	88	243.00	77
39.00	18960	95.00	787072	163.00	275	245.00	115
40.00	1063	96.00	53136	166.00	108	248.00	24
43.00	641	97.00	6062	167.00	139	249.00	100
44.00	4520	99.00	52	168.00	6	251.00	191
45.00	9229	100.00	80	169.00	394	252.00	190
46.00	482	103.00	1118	170.00	135	255.00	314
47.00	17264	104.00	2071	171.00	290	256.00	115
48.00	5554	105.00	1147	172.00	260	257.00	112
49.00	42160	106.00	1987	173.00	5537	258.00	145
50.00	218432	107.00	771	174.00	488320	259.00	140
51.00	66976	109.00	442	175.00	36632	260.00	1096
52.00	2767	110.00	225	176.00	469184	261.00	567
53.00	457	111.00	98	177.00	30368	264.00	142
55.00	1278	113.00	408	178.00	164	271.00	451
56.00	12016	114.00	124	179.00	459	272.00	231
57.00	22512	115.00	852	180.00	232	273.00	170
58.00	795	116.00	921	181.00	300	275.00	67
59.00	122	117.00	2180	182.00	76	277.00	246
60.00	7037	118.00	1416	183.00	188	278.00	100
61.00	36608	119.00	1821	185.00	111	279.00	24
62.00	34344	120.00	220	187.00	46	281.00	421
63.00	26560	123.00	461	188.00	231	282.00	249
64.00	2690	124.00	335	190.00	292	283.00	530
65.00	467	125.00	171	191.00	2272	285.00	4
66.00	85	126.00	78	192.00	185	286.00	170
67.00	1574	127.00	507	199.00	102	298.00	131
68.00	72072	128.00	3622	201.00	68	300.00	57
69.00	67432	129.00	645	202.00	242	302.00	55
70.00	4970	130.00	1892	206.00	53	307.00	61
71.00	503	131.00	866	209.00	2088	309.00	135
72.00	3269	135.00	529	210.00	415	310.00	93
73.00	27944	136.00	69	211.00	345	311.00	377

Date : 08-AUG-2008 10:47

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5080805.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 205

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	109248	137.00	209	212.00	225	321.00	115
75.00	357120	140.00	588	214.00	60	322.00	177
76.00	29672	141.00	3530	216.00	158	323.00	291
77.00	4521	142.00	546	217.00	79	324.00	93
78.00	2892	143.00	3377	218.00	551	329.00	178
79.00	9439	144.00	227	219.00	691	332.00	149
80.00	4632	146.00	83	221.00	547	333.00	473
81.00	10692	148.00	1321	223.00	264	338.00	213
82.00	3242	150.00	400	226.00	142	342.00	106
83.00	450	152.00	146	227.00	91	343.00	1013
84.00	79	153.00	156	229.00	59	344.00	313
86.00	915	154.00	399	231.00	246	347.00	65
87.00	34624	155.00	1238	232.00	768	348.00	189
88.00	32616	156.00	352	233.00	84	349.00	64
89.00	290	157.00	650	235.00	405		
90.00	971	158.00	474	236.00	59		
91.00	1394	159.00	104	237.00	273		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-11aug.b/5081101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 11-AUG-2008 08:31
Operator : smd Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL#1476-435; 50ng
Comment :
Method : /var/chem/msd5.i/5-11aug.b/bfb60.m
Meth Date : 11-Aug-2008 08:21 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		
6.565	6.594	-0.029	95	783528			100.00- 100.00	100.00
6.565	6.594	-0.029	50	215907			15.00- 40.00	27.56
6.565	6.594	-0.029	75	359329			30.00- 60.00	45.86
6.565	6.594	-0.029	96	53997			5.00- 9.00	6.89
6.565	6.594	-0.029	173	4326			0.00- 1.99	0.92
6.565	6.594	-0.029	174	468289			50.01- 100.00	59.77
6.565	6.594	-0.029	175	33970			5.00- 9.00	7.25
6.565	6.594	-0.029	176	446091			95.01- 100.99	95.26
6.565	6.594	-0.029	177	29581			5.00- 9.00	6.63

Data File: /var/chem/msd5.i/5-11aug.b/5081101.d

Page 1

Date : 11-AUG-2008 08:31

Client ID: BFB

Instrument: msd5.i

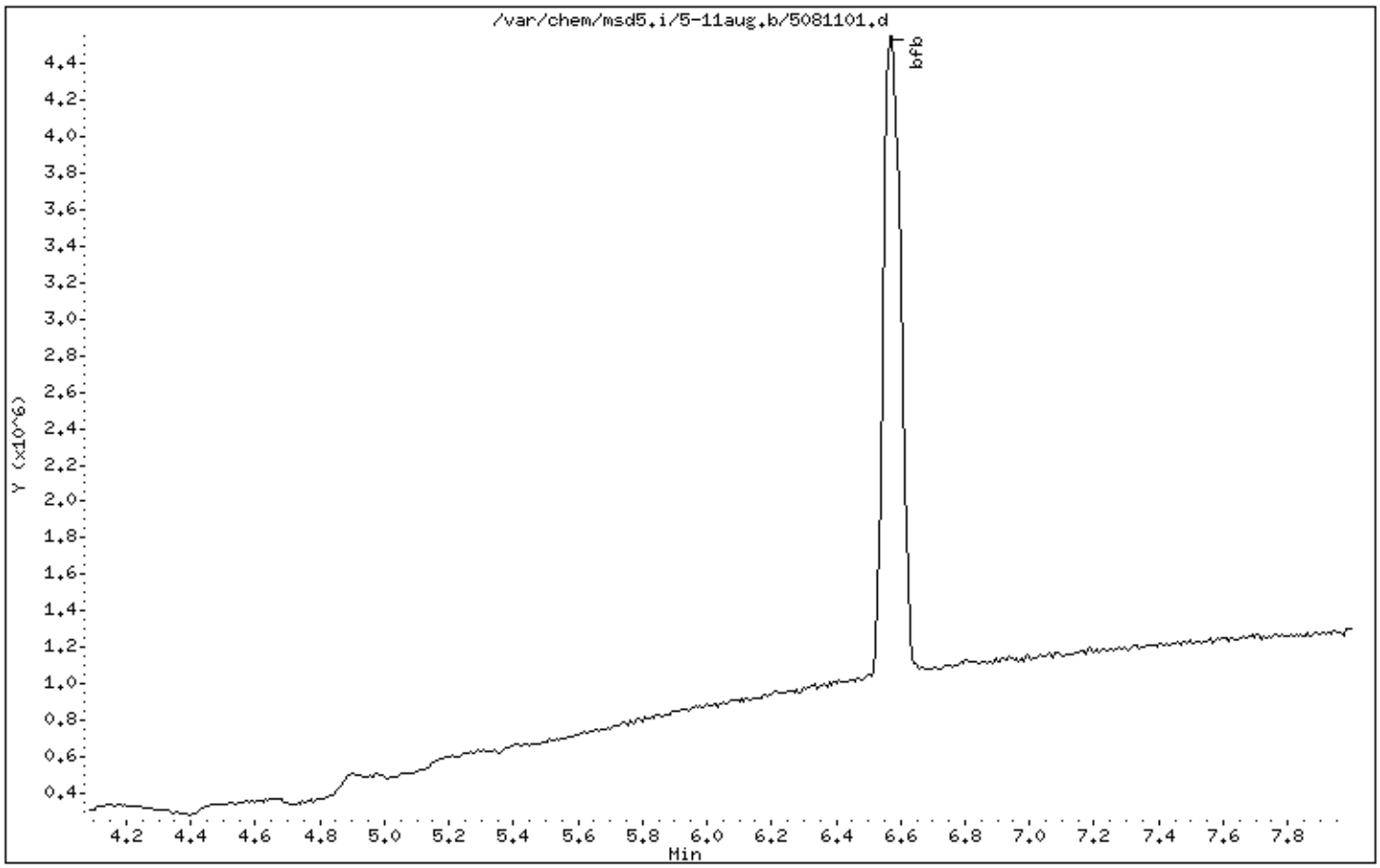
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-11aug.b/5081101.d

Date : 11-AUG-2008 08:31

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

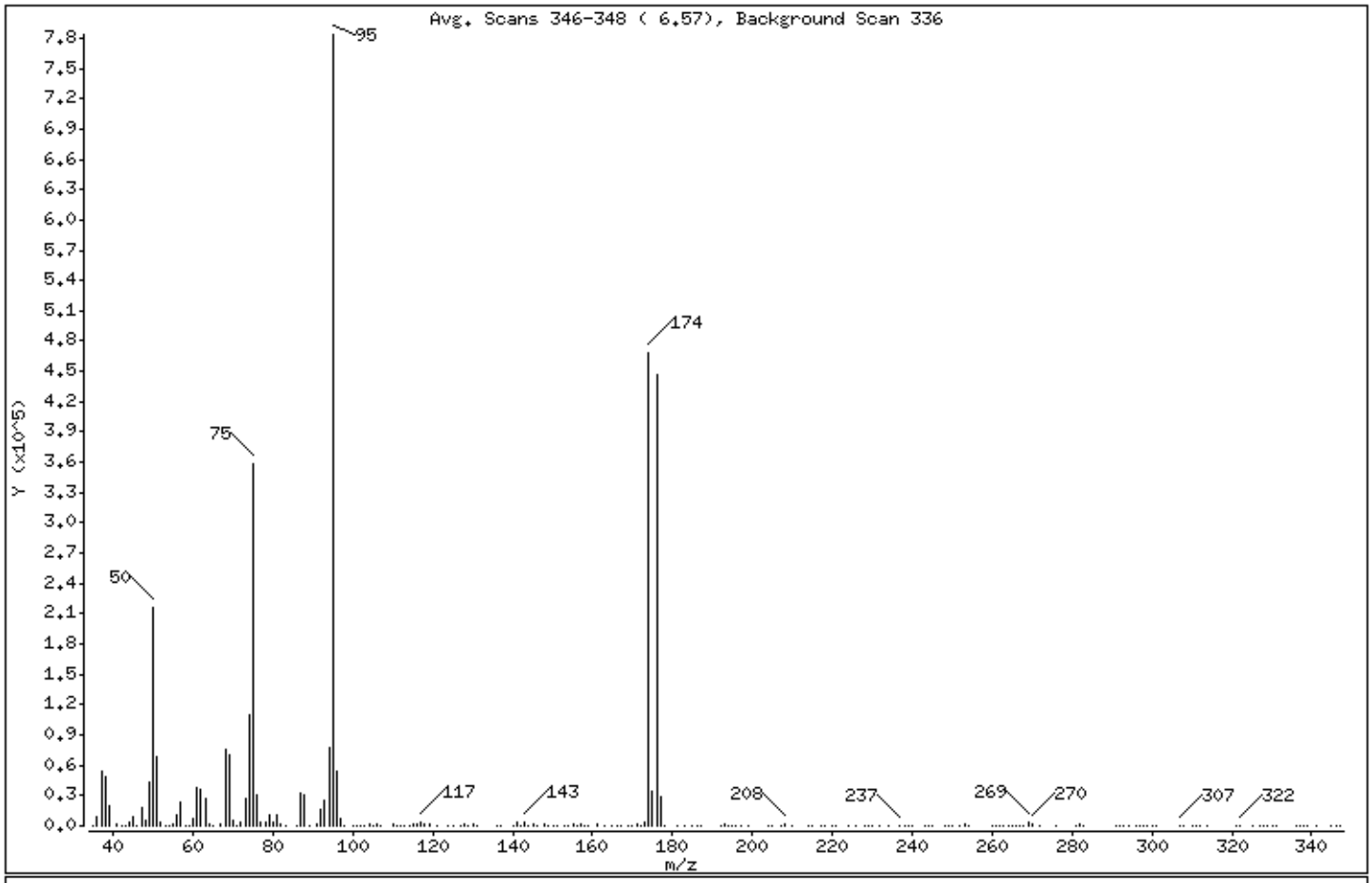
Volume Injected (uL): 1.0

Operator: smd

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	27.56
75	30.00 - 60.00% of mass 95	45.86
96	5.00 - 9.00% of mass 95	6.89
173	Less than 1.99% of mass 174	0.55 (0.92)
174	50.01 - 100.00% of mass 95	59.77
175	5.00 - 9.00% of mass 174	4.34 (7.25)
176	95.01 - 100.99% of mass 174	56.93 (95.26)
177	5.00 - 9.00% of mass 176	3.78 (6.63)

Date : 11-AUG-2008 08:31

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5081101.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	83	93.00	25920	163.00	213	250.00	502
36.00	8402	94.00	77848	165.00	264	252.00	197
37.00	54824	95.00	783488	166.00	163	253.00	1130
38.00	49184	96.00	53992	167.00	264	254.00	67
39.00	19312	97.00	6531	169.00	117	260.00	565
41.00	1258	98.00	126	170.00	101	261.00	656
42.00	375	100.00	83	171.00	1023	262.00	204
43.00	118	101.00	125	172.00	208	263.00	131
44.00	4283	102.00	77	173.00	4326	264.00	146
45.00	8691	103.00	558	174.00	468288	265.00	380
46.00	382	104.00	2455	175.00	33968	266.00	188
47.00	18832	105.00	686	176.00	446080	267.00	223
48.00	5807	106.00	2001	177.00	29576	268.00	43
49.00	43376	107.00	261	178.00	783	269.00	3280
50.00	215872	110.00	1496	181.00	398	270.00	1665
51.00	67896	111.00	181	183.00	289	272.00	332
52.00	2953	112.00	286	185.00	202	276.00	1
53.00	325	113.00	155	186.00	315	281.00	496
54.00	14	114.00	355	187.00	280	282.00	1322
55.00	1998	115.00	1255	192.00	339	283.00	688
56.00	11361	116.00	1346	193.00	1171	291.00	173
57.00	24088	117.00	3381	194.00	269	292.00	468
58.00	819	118.00	1502	195.00	88	293.00	99
59.00	71	119.00	1254	196.00	76	294.00	12
60.00	7433	121.00	154	197.00	89	296.00	114
61.00	37096	124.00	460	199.00	63	297.00	79
62.00	36688	125.00	586	204.00	175	298.00	306
63.00	26136	127.00	127	205.00	400	299.00	95
64.00	2538	128.00	1745	207.00	341	300.00	52
65.00	616	129.00	654	208.00	1293	301.00	91
67.00	2006	130.00	1751	210.00	731	307.00	349
68.00	74888	131.00	818	214.00	143	308.00	83
69.00	70344	136.00	495	215.00	266	310.00	83
70.00	5569	137.00	237	217.00	189	311.00	251
71.00	74	140.00	381	218.00	19	312.00	91

Date : 11-AUG-2008 08:31

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5081101.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	3543	141.00	3571	220.00	216	314.00	65
73.00	26976	142.00	561	221.00	43	321.00	67
74.00	109832	143.00	3677	224.00	106	322.00	894
75.00	359296	144.00	355	226.00	197	325.00	174
76.00	30792	145.00	1807	228.00	137	327.00	751
77.00	3220	146.00	267	229.00	62	328.00	365
78.00	3369	148.00	1471	230.00	57	329.00	274
79.00	10057	149.00	784	232.00	313	330.00	243
80.00	4353	150.00	733	234.00	217	331.00	356
81.00	10023	151.00	265	237.00	508	336.00	145
82.00	2415	153.00	395	238.00	143	337.00	48
83.00	125	154.00	404	239.00	61	338.00	18
86.00	476	155.00	1124	240.00	81	339.00	193
87.00	32736	156.00	218	243.00	55	341.00	817
88.00	29728	157.00	1053	244.00	22	345.00	377
89.00	76	158.00	104	245.00	109	346.00	330
91.00	2529	159.00	265	248.00	169	347.00	114
92.00	16189	161.00	1203	249.00	313		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-25aug.b/5082501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 25-AUG-2008 08:25
Operator : smd Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL#1476-435; 50ng
Comment :
Method : /var/chem/msd5.i/5-25aug.b/bfb60.m
Meth Date : 25-Aug-2008 08:14 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		
6.565	6.594	-0.029	95	1058127			100.00- 100.00	100.00
6.565	6.594	-0.029	50	295876			15.00- 40.00	27.96
6.565	6.594	-0.029	75	490166			30.00- 60.00	46.32
6.565	6.594	-0.029	96	71133			5.00- 9.00	6.72
6.565	6.594	-0.029	173	5043			0.00- 1.99	0.83
6.565	6.594	-0.029	174	607885			50.01- 100.00	57.45
6.565	6.594	-0.029	175	44508			5.00- 9.00	7.32
6.565	6.594	-0.029	176	588945			95.01- 100.99	96.88
6.565	6.594	-0.029	177	37674			5.00- 9.00	6.40

Data File: /var/chem/msd5.i/5-25aug.b/5082501.d

Date : 25-AUG-2008 08:25

Client ID: BFB

Instrument: msd5.i

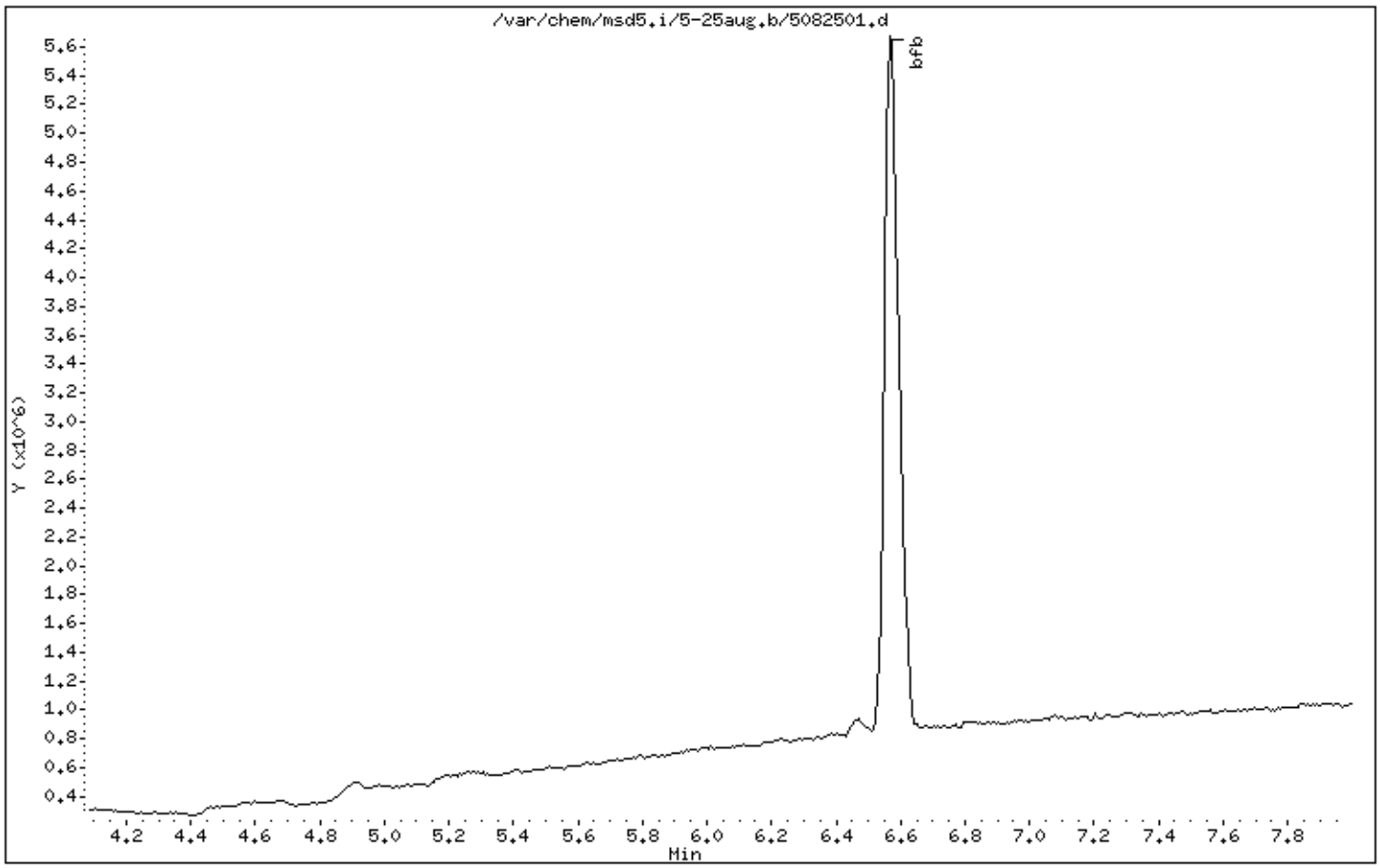
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-25aug.b/5082501.d

Date : 25-AUG-2008 08:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

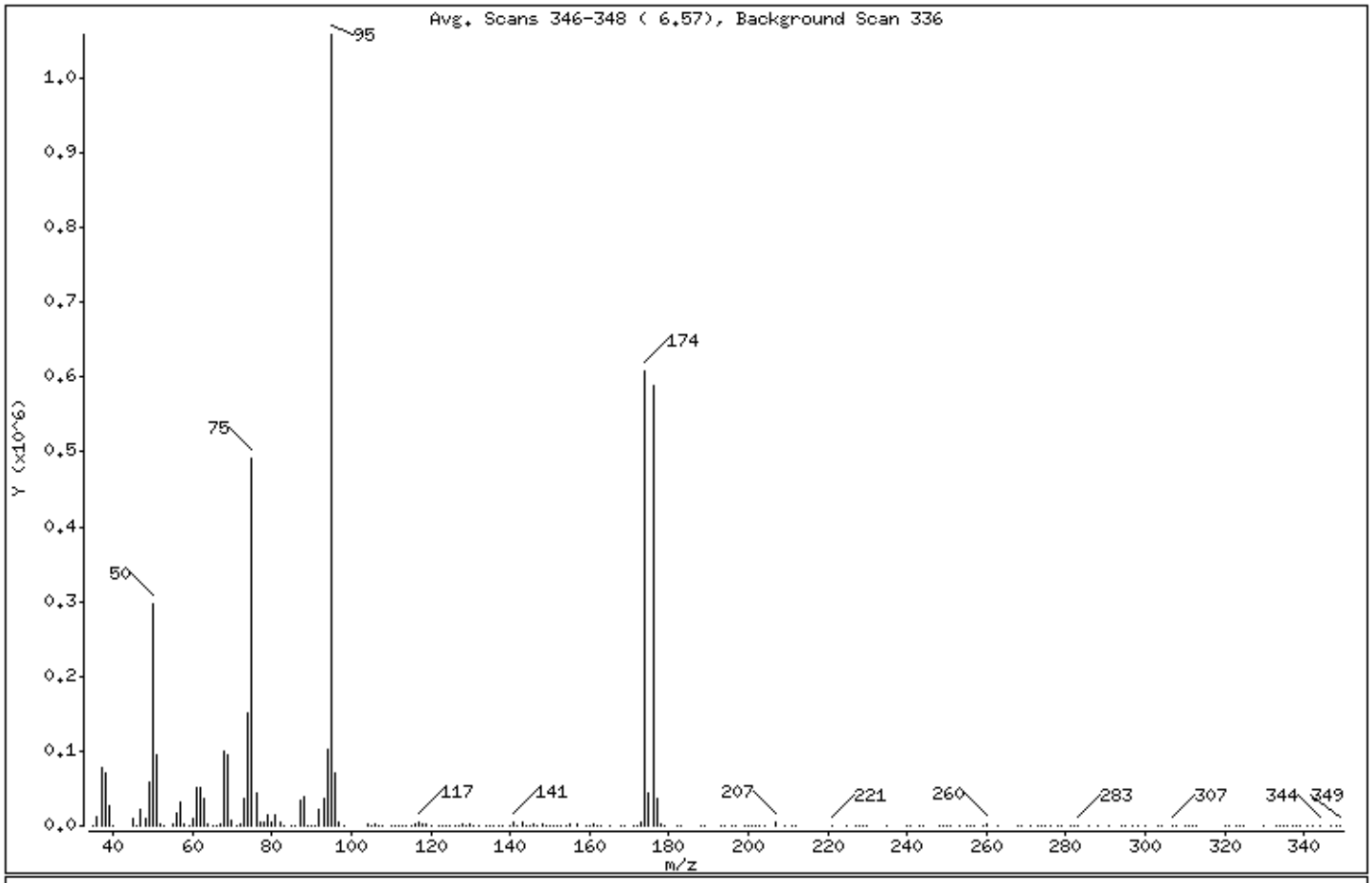
Volume Injected (uL): 1.0

Operator: smd

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	27.96
75	30.00 - 60.00% of mass 95	46.32
96	5.00 - 9.00% of mass 95	6.72
173	Less than 1.99% of mass 174	0.48 (0.83)
174	50.01 - 100.00% of mass 95	57.45
175	5.00 - 9.00% of mass 174	4.21 (7.32)
176	95.01 - 100.99% of mass 174	55.66 (96.88)
177	5.00 - 9.00% of mass 176	3.56 (6.40)

Data File: /var/chem/msd5.i/5-25aug.b/5082501.d

Date : 25-AUG-2008 08:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00

Data File: 5082501.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	52	94.00	101592	157.00	1868	256.00	180
36.00	12425	95.00	1057792	159.00	700	257.00	87
37.00	78328	96.00	71128	160.00	13	259.00	2
38.00	70040	97.00	4913	161.00	1451	260.00	1413
39.00	27360	98.00	275	162.00	157	263.00	51
40.00	990	104.00	3080	163.00	512	268.00	130
45.00	10605	105.00	816	165.00	396	269.00	880
46.00	680	106.00	2540	168.00	463	271.00	271
47.00	22944	107.00	179	169.00	191	273.00	183
48.00	8768	108.00	263	171.00	339	274.00	7
49.00	58736	110.00	721	172.00	761	275.00	62
50.00	295872	111.00	392	173.00	5043	276.00	44
51.00	95552	112.00	249	174.00	607872	278.00	59
52.00	3645	113.00	370	175.00	44504	279.00	215
53.00	203	114.00	164	176.00	588928	281.00	232
55.00	2956	115.00	292	177.00	37672	282.00	381
56.00	16185	116.00	2042	178.00	1265	283.00	773
57.00	32528	117.00	4457	179.00	192	286.00	221
58.00	1440	118.00	2272	182.00	17	288.00	67
59.00	643	119.00	1316	183.00	33	291.00	37
60.00	10419	120.00	153	188.00	273	294.00	677
61.00	50368	122.00	44	189.00	53	295.00	47
62.00	50568	123.00	254	193.00	49	297.00	4
63.00	37088	124.00	373	194.00	353	298.00	55
64.00	3120	125.00	756	196.00	270	300.00	62
65.00	207	126.00	150	197.00	208	303.00	58
66.00	355	127.00	703	199.00	71	304.00	57
67.00	2102	128.00	1789	200.00	144	307.00	231
68.00	100424	129.00	813	201.00	167	308.00	140
69.00	93976	130.00	2340	202.00	66	310.00	61
70.00	6536	131.00	765	203.00	278	311.00	110
71.00	279	132.00	364	204.00	406	312.00	106
72.00	3347	134.00	682	207.00	4096	313.00	180
73.00	35624	135.00	240	209.00	231	320.00	166
74.00	151296	136.00	286	211.00	126	321.00	87

Date : 25-AUG-2008 08:25

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5082501.d
Spectrum: Avg. Scans 346-348 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 211

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	490112	137.00	998	212.00	66	323.00	126
76.00	42560	138.00	275	221.00	381	324.00	78
77.00	5799	140.00	965	225.00	173	325.00	86
78.00	3873	141.00	5518	227.00	136	330.00	84
79.00	13979	142.00	649	228.00	93	333.00	141
80.00	5830	143.00	4301	229.00	56	334.00	103
81.00	14854	144.00	184	230.00	60	335.00	408
82.00	4016	145.00	762	235.00	154	336.00	215
83.00	286	146.00	1795	240.00	116	337.00	78
85.00	324	147.00	928	241.00	42	338.00	200
86.00	1038	148.00	1572	243.00	135	339.00	139
87.00	34088	149.00	331	244.00	176	341.00	39
88.00	38856	150.00	696	248.00	184	342.00	174
89.00	686	151.00	137	249.00	422	344.00	668
90.00	859	152.00	185	250.00	7	347.00	185
91.00	682	153.00	255	251.00	39	348.00	115
92.00	22640	154.00	45	253.00	1152	349.00	67
93.00	35920	155.00	1380	255.00	269		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-02sep.b/5090201.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 02-SEP-2008 09:17
Operator : smd Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL#1476-435; 50ng
Comment :
Method : /var/chem/msd5.i/5-02sep.b/bfb60.m
Meth Date : 02-Sep-2008 09:07 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	
6.558	6.594	-0.036	95	1121050			100.00- 100.00	100.00
6.558	6.594	-0.036	50	320257			15.00- 40.00	28.57
6.558	6.594	-0.036	75	516876			30.00- 60.00	46.11
6.558	6.594	-0.036	96	74589			5.00- 9.00	6.65
6.558	6.594	-0.036	173	6026			0.00- 1.99	0.88
6.558	6.594	-0.036	174	681297			50.01- 100.00	60.77
6.558	6.594	-0.036	175	49455			5.00- 9.00	7.26
6.558	6.594	-0.036	176	656743			95.01- 100.99	96.40
6.558	6.594	-0.036	177	42169			5.00- 9.00	6.42

Data File: /var/chem/msd5.i/5-02sep.b/5090201.d

Date : 02-SEP-2008 09:17

Client ID: BFB

Instrument: msd5.i

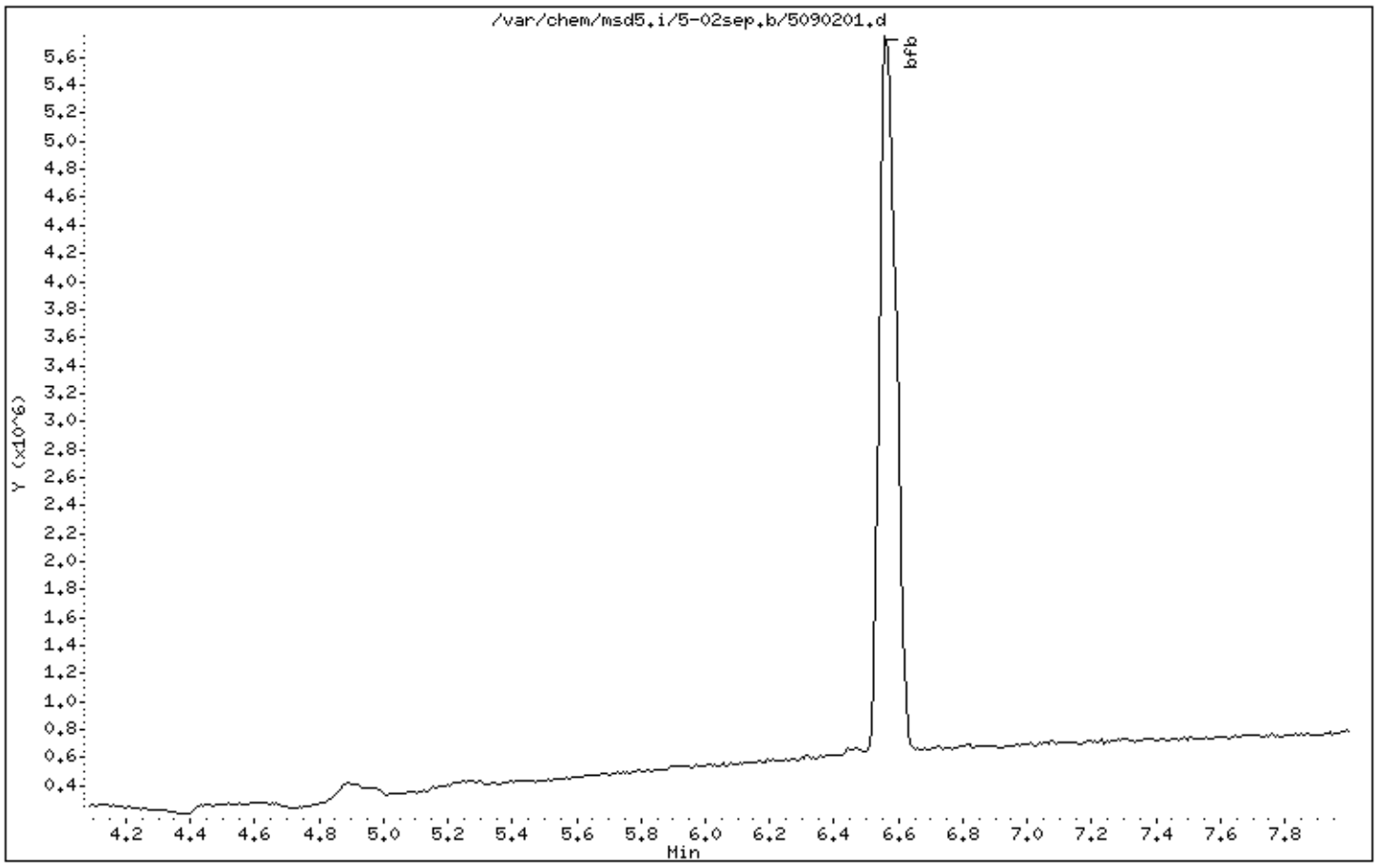
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-02sep.b/5090201.d

Date : 02-SEP-2008 09:17

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

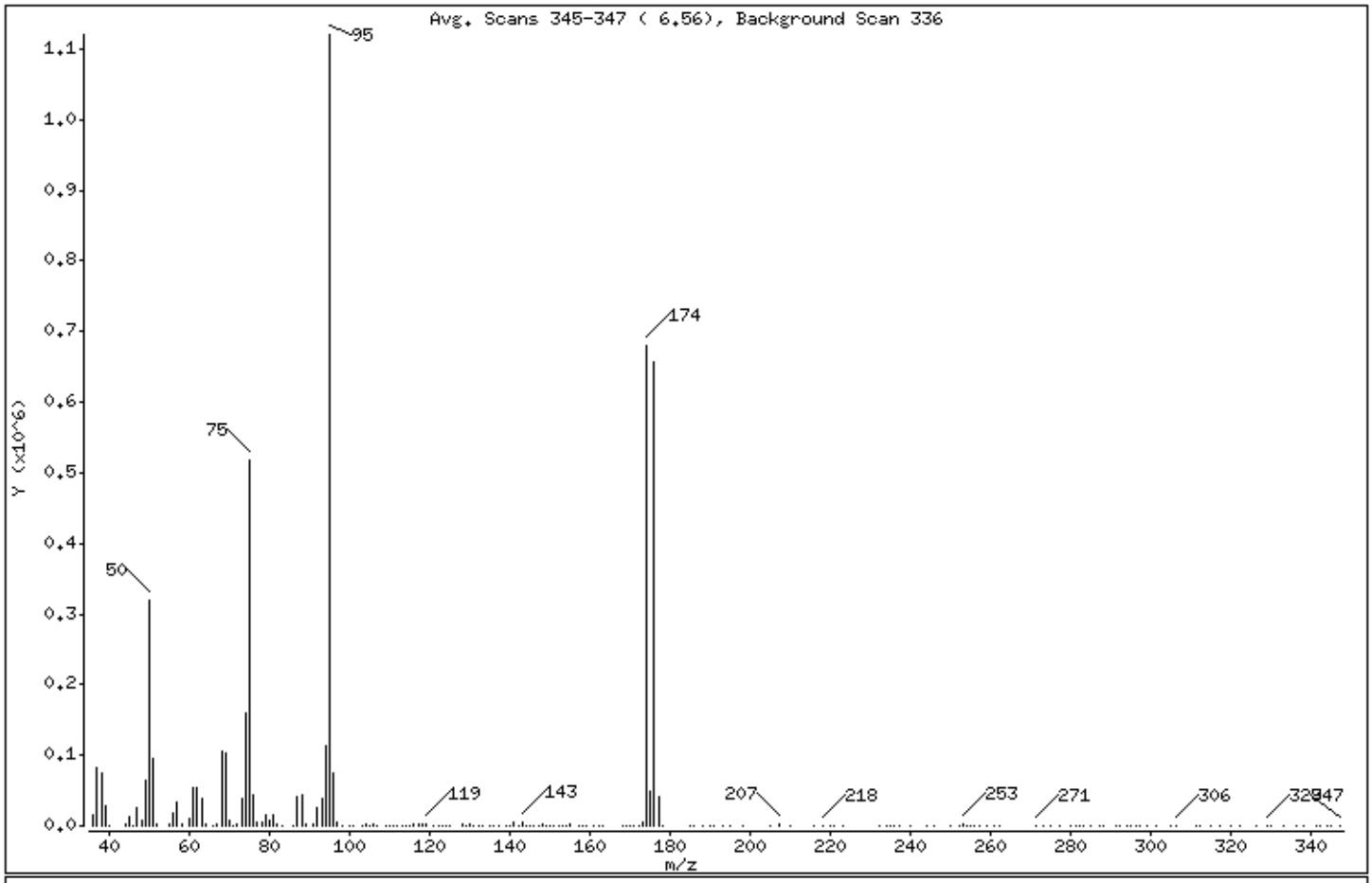
Volume Injected (uL): 1.0

Operator: smd

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	28.57
75	30.00 - 60.00% of mass 95	46.11
96	5.00 - 9.00% of mass 95	6.65
173	Less than 1.99% of mass 174	0.54 (0.88)
174	50.01 - 100.00% of mass 95	60.77
175	5.00 - 9.00% of mass 174	4.41 (7.26)
176	95.01 - 100.99% of mass 174	58.58 (96.40)
177	5.00 - 9.00% of mass 176	3.76 (6.42)

Data File: /var/chem/msd5.i/5-02sep.b/5090201.d

Date : 02-SEP-2008 09:17

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00

Data File: 5090201.d
Spectrum: Avg. Scans 345-347 (6.56), Background Scan 336
Location of Maximum: 95.00
Number of points: 191

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	14991	94.00	113408	150.00	677	252.00	173
37.00	83208	95.00	1120768	151.00	154	253.00	1725
38.00	74048	96.00	74584	152.00	224	254.00	26
39.00	29352	97.00	4617	153.00	480	255.00	442
40.00	804	98.00	85	154.00	506	256.00	109
44.00	3210	100.00	135	155.00	1998	257.00	275
45.00	12504	101.00	349	157.00	1136	259.00	108
46.00	917	103.00	224	158.00	345	261.00	218
47.00	24864	104.00	2105	159.00	858	262.00	175
48.00	8714	105.00	899	161.00	953	271.00	1063
49.00	63416	106.00	2792	162.00	137	273.00	252
50.00	320256	107.00	600	163.00	781	275.00	105
51.00	96136	109.00	1096	168.00	269	277.00	12
52.00	3567	110.00	149	169.00	134	280.00	59
55.00	3464	111.00	586	170.00	206	281.00	165
56.00	17128	112.00	276	171.00	561	282.00	776
57.00	33760	113.00	494	172.00	1161	283.00	487
58.00	1470	114.00	148	173.00	6026	285.00	137
60.00	10283	115.00	311	174.00	681280	287.00	122
61.00	54888	116.00	1794	175.00	49448	288.00	67
62.00	53024	117.00	3603	176.00	656704	291.00	307
63.00	37528	118.00	2174	177.00	42168	292.00	90
64.00	3082	119.00	3718	178.00	615	294.00	50
66.00	341	121.00	161	185.00	53	295.00	241
67.00	2849	122.00	135	186.00	63	296.00	70
68.00	105864	123.00	136	188.00	209	297.00	90
69.00	101888	124.00	688	190.00	71	299.00	56
70.00	7415	125.00	306	191.00	458	301.00	59
71.00	61	128.00	3626	193.00	346	305.00	61
72.00	3742	129.00	851	195.00	406	306.00	279
73.00	38152	130.00	2449	198.00	67	311.00	217
74.00	158848	131.00	849	205.00	139	312.00	137
75.00	516864	132.00	203	207.00	1578	315.00	191
76.00	43168	133.00	439	210.00	624	317.00	56
77.00	5453	135.00	649	216.00	311	320.00	123

Date : 02-SEP-2008 09:17

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5090201.d
Spectrum: Avg. Scans 345-347 (6.56), Background Scan 336
Location of Maximum: 95.00
Number of points: 191

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4195	136.00	564	218.00	402	322.00	530
79.00	16239	137.00	932	220.00	202	326.00	147
80.00	6616	139.00	157	221.00	172	329.00	725
81.00	16238	140.00	867	223.00	307	330.00	210
82.00	3841	141.00	5350	232.00	137	333.00	60
83.00	397	142.00	554	234.00	58	336.00	77
86.00	679	143.00	6110	235.00	153	338.00	232
87.00	40576	144.00	488	236.00	303	341.00	276
88.00	43936	145.00	453	237.00	248	342.00	233
89.00	1757	146.00	904	240.00	144	344.00	201
91.00	2802	147.00	737	244.00	69	345.00	572
92.00	24600	148.00	1650	246.00	76	347.00	74
93.00	38264	149.00	474	250.00	144		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-15sep.b/5091501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 15-SEP-2008 08:41
Operator : smd Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2uL#1476-435; 50ng
Comment :
Method : /var/chem/msd5.i/5-15sep.b/bfb60.m
Meth Date : 15-Sep-2008 08:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
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		
6.572	6.594	-0.022	95	1003599			100.00- 100.00	100.00
6.572	6.594	-0.022	50	280850			15.00- 40.00	27.98
6.572	6.594	-0.022	75	446617			30.00- 60.00	44.50
6.572	6.594	-0.022	96	66522			5.00- 9.00	6.63
6.572	6.594	-0.022	173	5853			0.00- 1.99	0.88
6.572	6.594	-0.022	174	663339			50.01- 100.00	66.10
6.572	6.594	-0.022	175	47396			5.00- 9.00	7.15
6.572	6.594	-0.022	176	643360			95.01- 100.99	96.99
6.572	6.594	-0.022	177	42393			5.00- 9.00	6.59

Data File: /var/chem/msd5.i/5-15sep.b/5091501.d

Page 1

Date : 15-SEP-2008 08:41

Client ID: BFB

Instrument: msd5.i

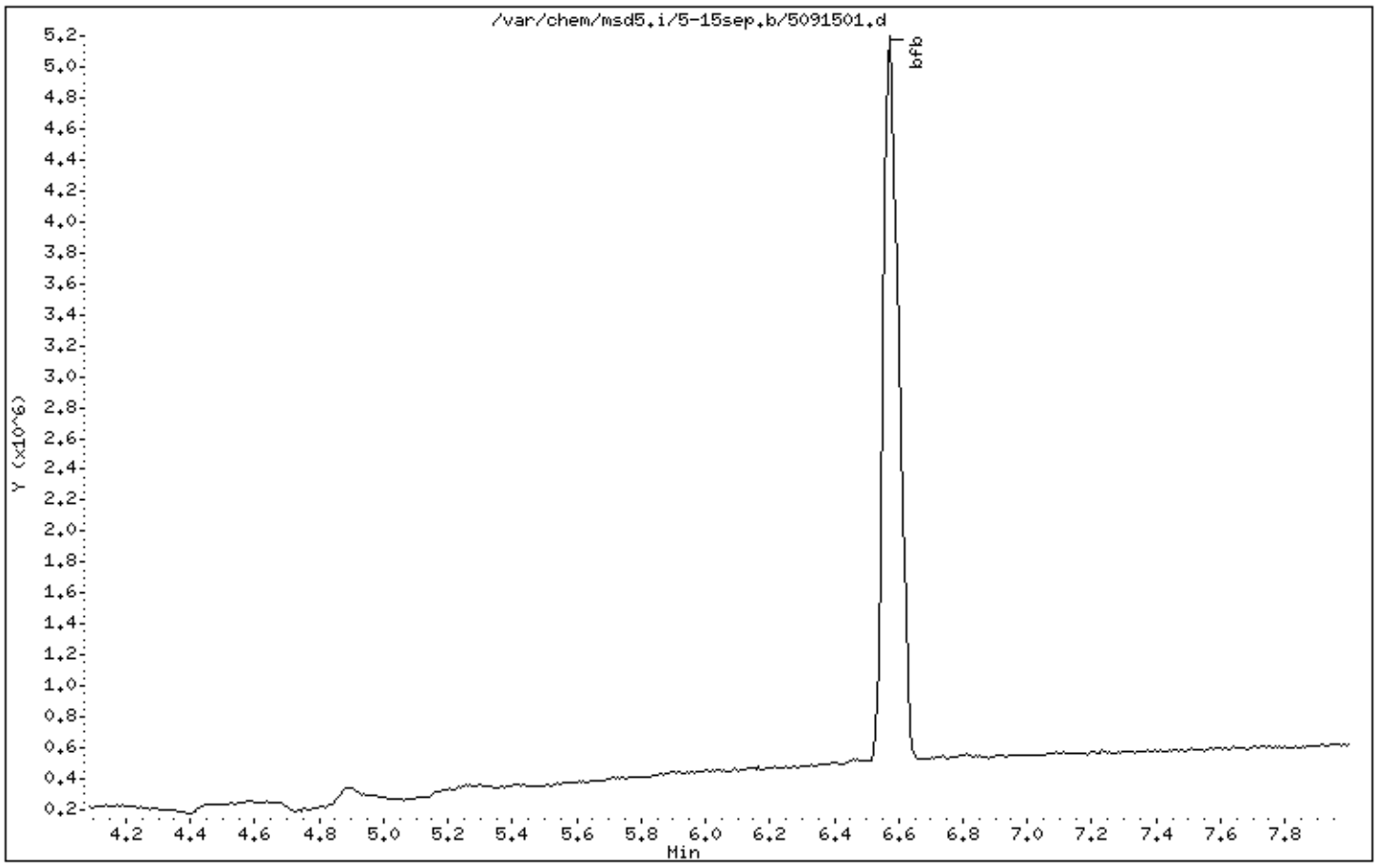
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-15sep.b/5091501.d

Date : 15-SEP-2008 08:41

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

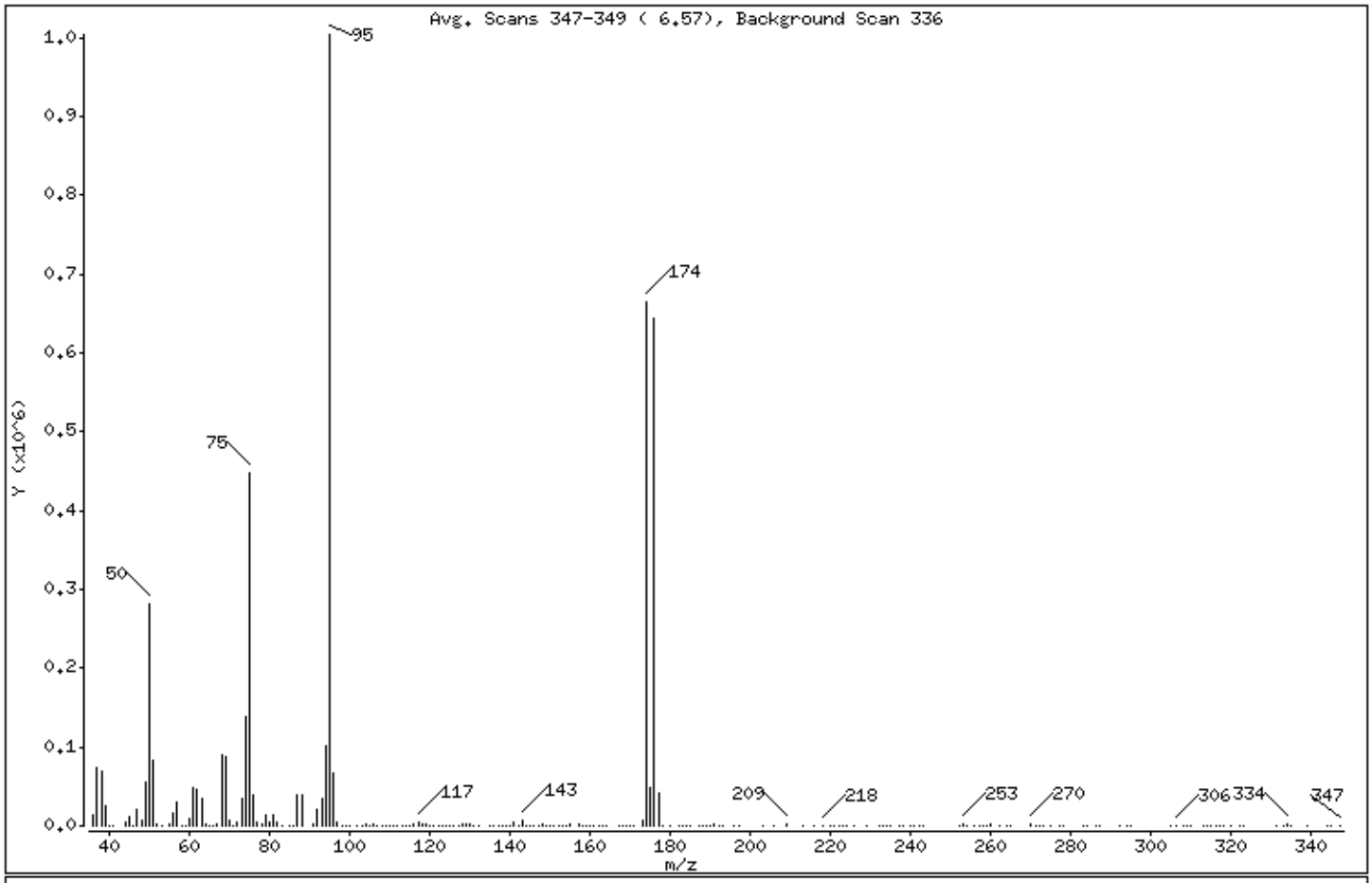
Volume Injected (uL): 1.0

Operator: smd

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	27.98
75	30.00 - 60.00% of mass 95	44.50
96	5.00 - 9.00% of mass 95	6.63
173	Less than 1.99% of mass 174	0.58 (0.88)
174	50.01 - 100.00% of mass 95	66.10
175	5.00 - 9.00% of mass 174	4.72 (7.15)
176	95.01 - 100.99% of mass 174	64.11 (96.99)
177	5.00 - 9.00% of mass 176	4.22 (6.59)

Data File: /var/chem/msd5.i/5-15sep.b/5091501.d

Date : 15-SEP-2008 08:41

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: smd

Column phase:

Column diameter: 2.00

Data File: 5091501.d
Spectrum: Avg. Scans 347-349 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12910	96.00	66520	153.00	492	238.00	159
37.00	73800	97.00	3906	154.00	457	240.00	44
38.00	68544	98.00	334	155.00	1743	241.00	265
39.00	25664	99.00	245	157.00	1880	242.00	72
40.00	193	100.00	50	158.00	27	243.00	50
41.00	368	102.00	442	159.00	653	252.00	64
44.00	3528	103.00	889	160.00	261	253.00	2067
45.00	11302	104.00	2696	161.00	1086	254.00	336
46.00	815	105.00	839	162.00	256	256.00	29
47.00	20376	106.00	2252	163.00	140	257.00	106
48.00	7946	107.00	650	164.00	245	258.00	86
49.00	55256	108.00	268	167.00	35	259.00	202
50.00	280832	109.00	2	168.00	120	260.00	1803
51.00	83824	110.00	692	169.00	426	262.00	187
52.00	3381	111.00	291	170.00	427	264.00	129
53.00	323	112.00	74	171.00	836	265.00	493
55.00	3190	113.00	701	173.00	5853	270.00	1450
56.00	15617	114.00	104	174.00	663296	271.00	240
57.00	30888	115.00	929	175.00	47392	272.00	394
58.00	954	116.00	2502	176.00	643328	273.00	43
59.00	487	117.00	4095	177.00	42392	275.00	75
60.00	9098	118.00	2176	178.00	830	277.00	40
61.00	47784	119.00	3095	180.00	230	278.00	27
62.00	45048	120.00	101	182.00	119	283.00	642
63.00	33704	121.00	128	183.00	53	284.00	416
64.00	2419	122.00	178	184.00	60	286.00	237
65.00	67	123.00	182	185.00	55	287.00	103
66.00	46	124.00	364	187.00	1	292.00	6
67.00	2249	125.00	540	188.00	305	294.00	370
68.00	90888	126.00	102	189.00	408	295.00	43
69.00	88480	127.00	518	190.00	114	305.00	67
70.00	6382	128.00	2247	191.00	1723	306.00	222
71.00	120	129.00	1236	192.00	423	308.00	143
72.00	3871	130.00	2913	193.00	199	309.00	89
73.00	34824	131.00	759	196.00	101	310.00	57

Date : 15-SEP-2008 08:41

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: smd

Column phase: Column diameter: 2.00

Data File: 5091501.d
Spectrum: Avg. Scans 347-349 (6.57), Background Scan 336
Location of Maximum: 95.00
Number of points: 214

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	138688	132.00	344	197.00	68	313.00	144
75.00	446592	135.00	954	203.00	32	314.00	196
76.00	39336	136.00	130	206.00	458	315.00	137
77.00	4698	137.00	946	209.00	1524	316.00	175
78.00	3087	138.00	140	213.00	66	317.00	94
79.00	14497	139.00	11	216.00	26	318.00	52
80.00	4880	140.00	685	218.00	339	320.00	80
81.00	13657	141.00	5752	220.00	164	322.00	369
82.00	3626	142.00	260	221.00	216	323.00	5
83.00	72	143.00	5795	222.00	101	331.00	277
85.00	135	144.00	121	223.00	64	333.00	161
86.00	947	145.00	452	224.00	16	334.00	1185
87.00	39816	146.00	611	226.00	62	335.00	575
88.00	38536	147.00	528	229.00	53	339.00	250
91.00	1157	148.00	1517	232.00	98	344.00	206
92.00	20880	149.00	230	233.00	254	345.00	37
93.00	33520	150.00	461	234.00	246	347.00	81
94.00	100840	151.00	233	235.00	336		
95.00	1003584	152.00	251	237.00	74		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0809069
# of pages (Including Cover): 1

9/19/2008

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

AIR TOXICS LTD.

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

W ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

Project Info:

P.O. #

Project # 031140 - 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
	[redacted]	[redacted]	TO-15 + Naphthalene	[redacted]		
	[redacted]	[redacted]	TO-15 + Naphthalene	[redacted]		
	[redacted]	[redacted]	[redacted]	[redacted]		
01A	JW AMS 5	8/5/08 627-1432	TO-15 + NAPHTHALENE	-30	-9	
02A	DW AMS 3	8/5/08 630-1435	TO-15 + NAPHTHALENE	-30	-10	

Relinquished By: (Signature) Date/Time [redacted]

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time 8/5/08 1448

Received By: (Signature) Date/Time 9/4/08 0920

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@gsiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	[redacted] 9631 8403 4500	EF	N/A	Good	Yes No (None)	0809069

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0809069

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 09/18/08
Date Completed: 9/17/08
Date Received: 9/4/08
PO#: NR
Project#: 061140 - 8 - 1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: EF

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS 5	Modified TO-15	9/3/2008	7.5 "Hg	$225.00
02A	DW AMS 3	Modified TO-15	9/3/2008	8.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each., Shipment 58431	$100.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58431	$35.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58432	$35.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
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	
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	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0809069

A_1	A_2	R	T	M	Q	
☑	☐	☑	☐	☑	☐	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☑	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
N/A	☐	☑	☐	☐	☐	Corrective Action issued - #
☑	☐	☑	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

☑	☐	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	☐	Hold time is met for all samples 9/17
		☐	☐	☐	☐	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)
		N/A	☐			TICs resemble reference spectra
		☑	☐			TICs between duplicate samples are consistent
☑	☐	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☑	☐	☑	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		N/A		☑		Special units for all samples in the final report are correctly calculated
		N/A	☐	☑		Manually entered results checked (i.e. TPH/NMOC)
☑	☐	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
					☐	Verify sample id's vs. chain of custody
☑	☐	☑				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☑	☐	☑				Final pressure consistent with canister size (6L vs. 1L) 5psi
☑	☐	☑				Verify receipt pressures
☑	☐	☐				Verify canister ID #'s
		☑		☐		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: Chloromethane ↑ in CCV

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: 9-16-08 9/16/08	R: NC 9/17/08.	9/17/08	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 07/28/08

Note (2): Management reviewer and reporting reviewer must be separate individuals.

Not Applicable