
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 #: 0808325

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	9/3/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0808325

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:	08/14/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	08/22/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW AMS6	Modified TO-15	8.0 "Hg	5 psi
02A	DW AMS1	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: 08/26/08

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

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0808325

Two 6 Liter Summa Canister samples were received on August 14, 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

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS6	0808325-01A	8/13/2008	8/14/2008	NA	9	8/22/2008	NA	Good
DW AMS1	0808325-02A	8/13/2008	8/14/2008	NA	9	8/22/2008	NA	Good
Lab Blank	0808325-03A	NA	NA	NA	NA	8/22/2008	NA	Good
CCV	0808325-04A	NA	NA	NA	NA	8/22/2008	NA	Good
LCS	0808325-05A	NA	NA	NA	NA	8/22/2008	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 AMS6

Lab ID#: 0808325-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	13	8.7	30
2-Butanone (Methyl Ethyl Ketone)	0.92	1.0	2.7	3.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS6

Lab ID#: 0808325-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082205**	**Date of Collection: 8/13/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 8/22/08 12:30 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

0007

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS6

Lab ID#: 0808325-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082205**	**Date of Collection: 8/13/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 8/22/08 12:30 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	13	8.7	30
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	1.0	2.7	3.0
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	85	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	101	70-130

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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22aug.b/8082205.d
Lab Smp Id: 0808325-01A
Inj Date : 22-AUG-2008 12:30
Operator : sjr Inst ID: msd8.i
Smp Info : 200mL #35972
Misc Info : 8.0"Hg -> 5psi
Comment :
Method : /chem/msd8.i/8-22aug.b/t14q804c.m
Meth Date : 22-Aug-2008 15:15 sruth Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.d
Als bottle: 1
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.159 (1.000)	130	251116	25.0000		80.00- 120.00	100.00
7.131	7.159 (1.000)	128	199050			47.04- 107.04	79.27
7.131	7.159 (1.000)	49	333400			98.74- 158.74	132.77
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	873057	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	134556			0.00- 45.62	15.41
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	705208	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	384856			0.00- 30.00	54.57
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	317736	21.2950	21.295	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	157699			0.00- 30.00	49.63
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	757941	21.3739	21.374	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	75390			0.00- 30.00	9.95

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	481932			0.00- 30.00	63.58
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	378085	25.3212	25.321	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	512985			107.97- 167.97	135.68
16.035	16.035 (1.115)	176	361846			66.83- 126.83	95.70
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	48399	6.95415	12.726	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	157825			0.00- 30.00	326.09
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	4527	0.55168	1.010	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	20967			367.07- 427.07	463.15
6.772	6.772 (0.950)	57	1036			0.00- 30.00	22.88

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8082205.d
Lab Smp Id: 0808325-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 8.0"Hg -> 5psi

Calibration Date: 22-AUG-2008
Calibration Time: 08:55

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	289404	173642	405166	251116	-13.23
88 1,4-Difluorobenze	1002117	601270	1402964	873057	-12.88
125 Chlorobenzene-d5	795663	477398	1113928	705208	-11.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0808325-01A
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 8.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	21.295	85.18	70-130
$ 104 Toluene-d8	25.000	21.374	85.50	70-130
$ 140 Bromofluorobenzene	25.000	25.321	101.28	70-130

Data File: /chem/msd8.i/8-22aug.b/8082205.d

Date : 22-AUG-2008 12:30

Client ID:

Sample Info: 200mL #35972

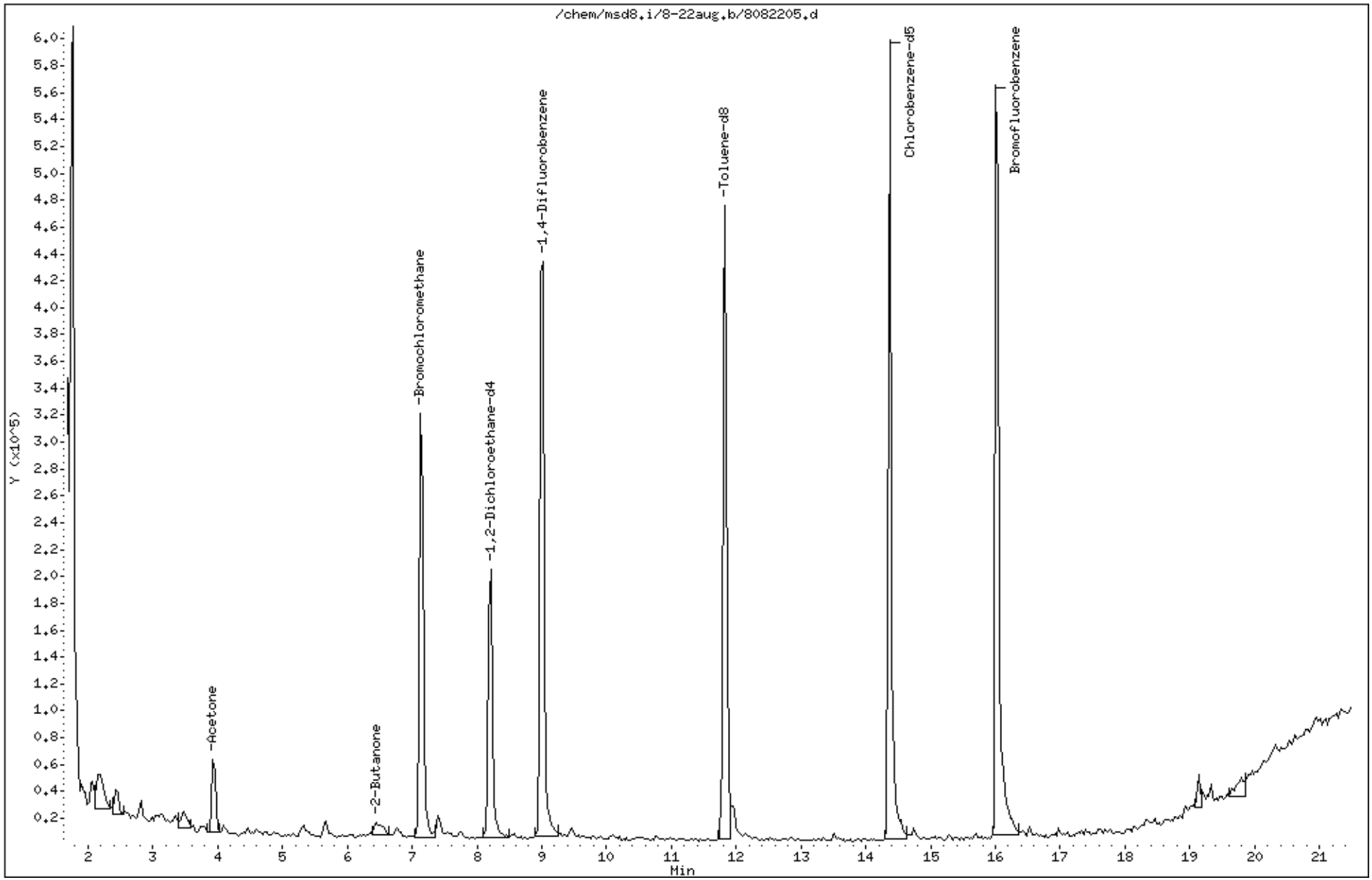
Column phase: RTx-624

Instrument: msd8.i

Operator: sjr

Column diameter: 0.53

0013



Data File: /chem/msd8.i/8-22aug.b/8082205.d

Date : 22-AUG-2008 12:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #35972

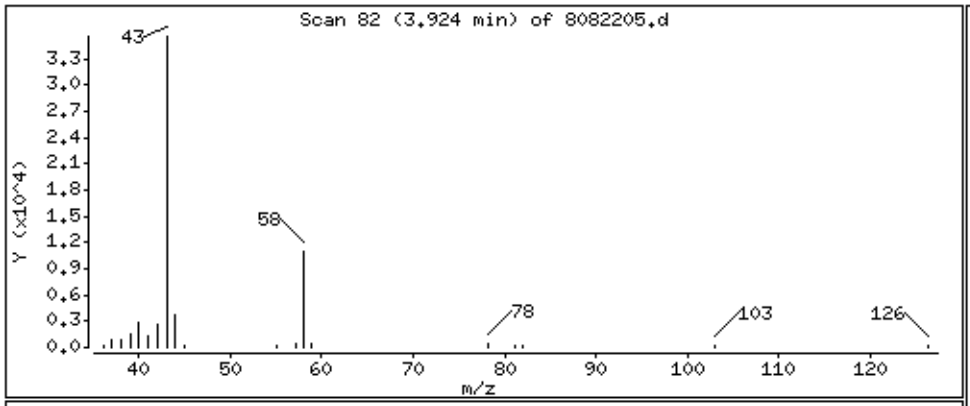
Operator: sjr

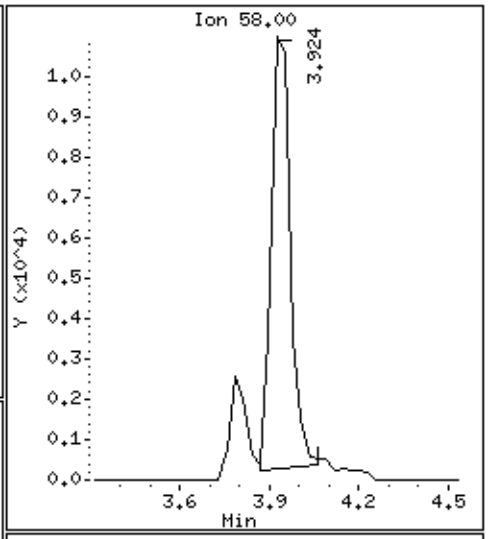
Column phase: RTx-624

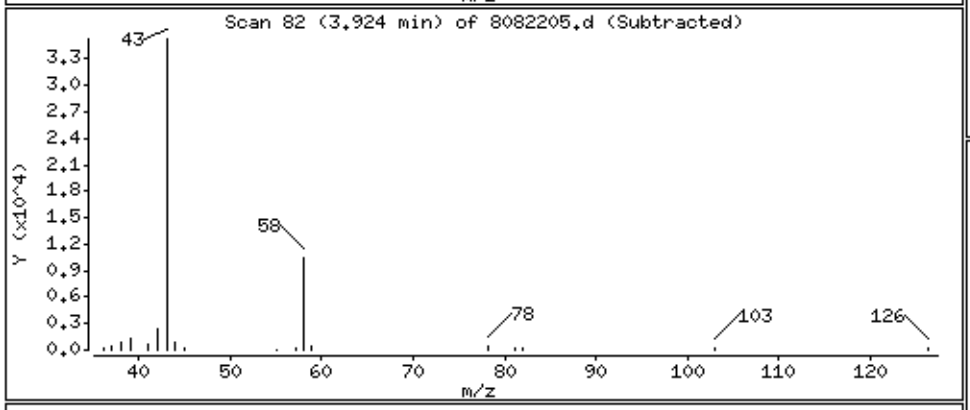
Column diameter: 0.53

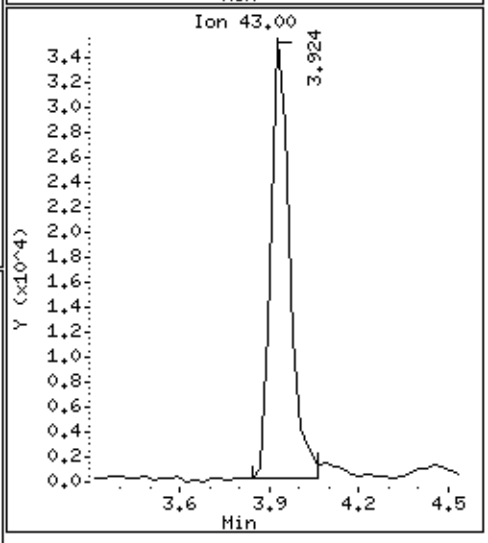
30 Acetone

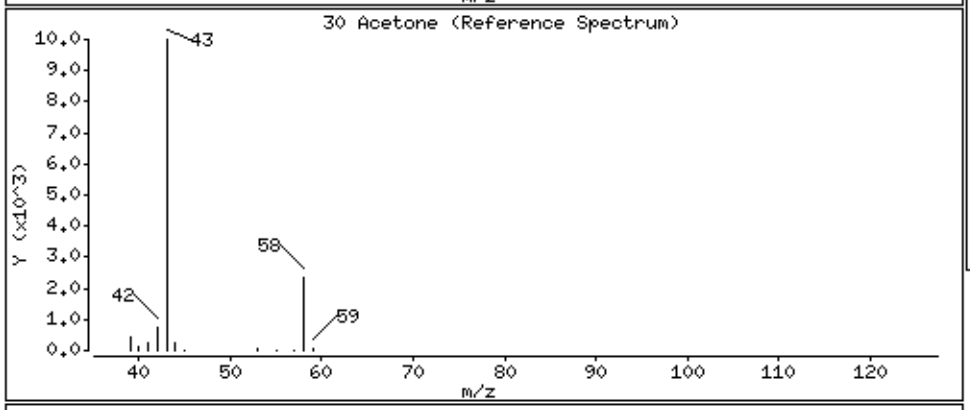
Concentration: 12.726 PPBV

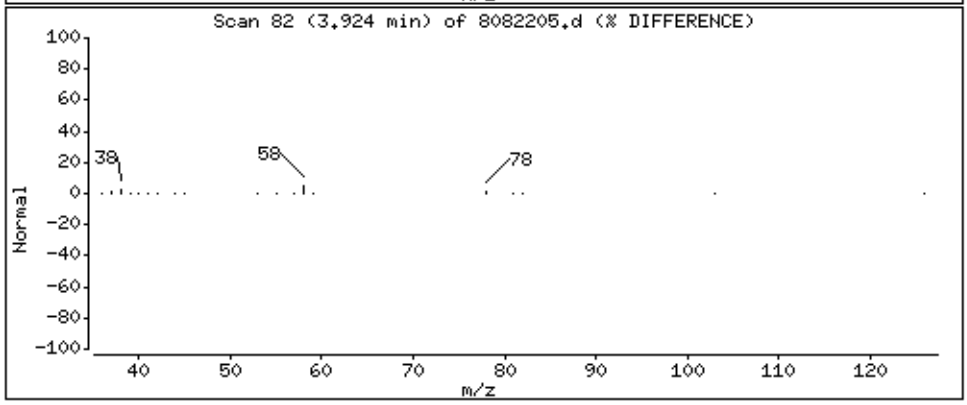












Data File: /chem/msd8.i/8-22aug.b/8082205.d

Date : 22-AUG-2008 12:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #35972

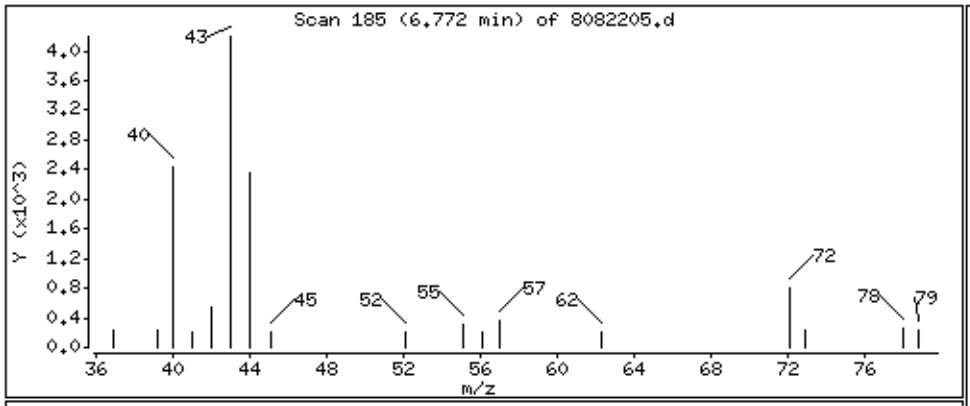
Operator: sjr

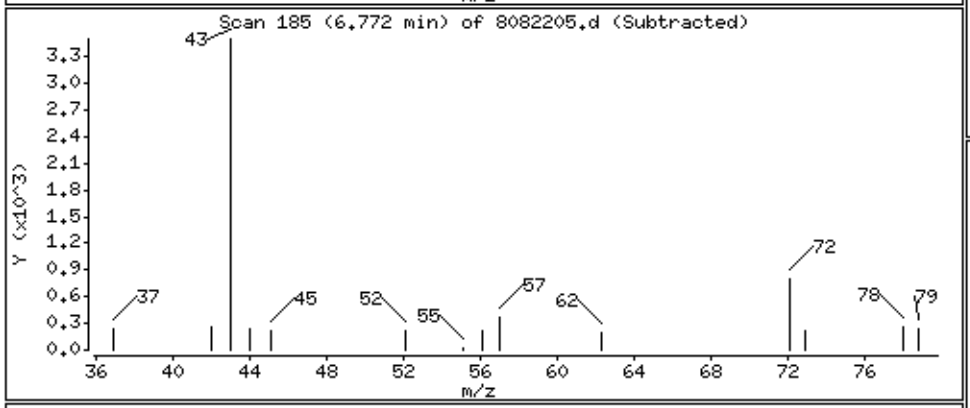
Column phase: RTx-624

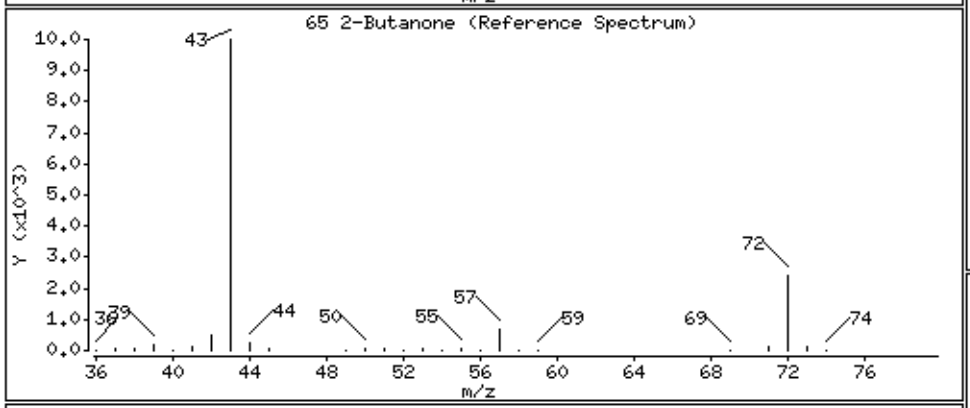
Column diameter: 0.53

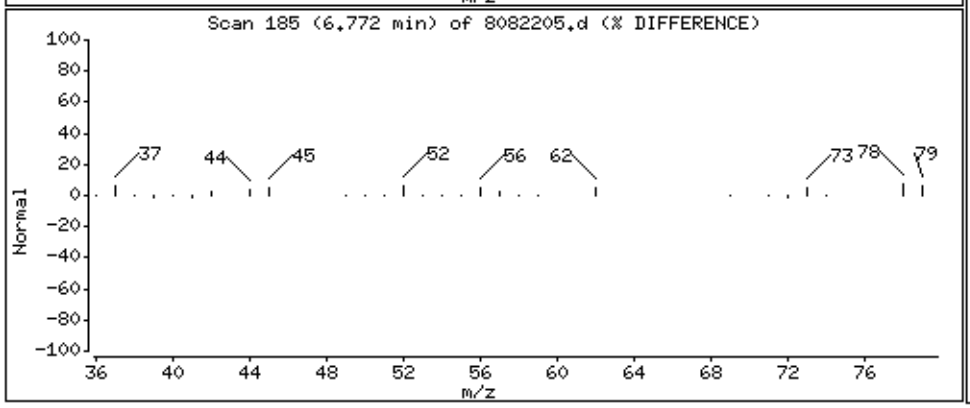
65 2-Butanone

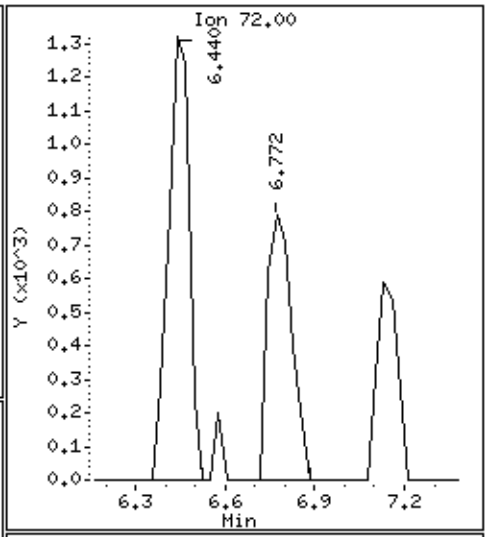
Concentration: 1.010 PPBV

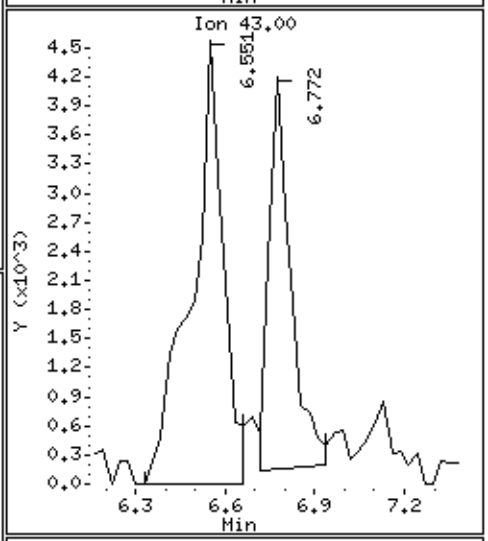


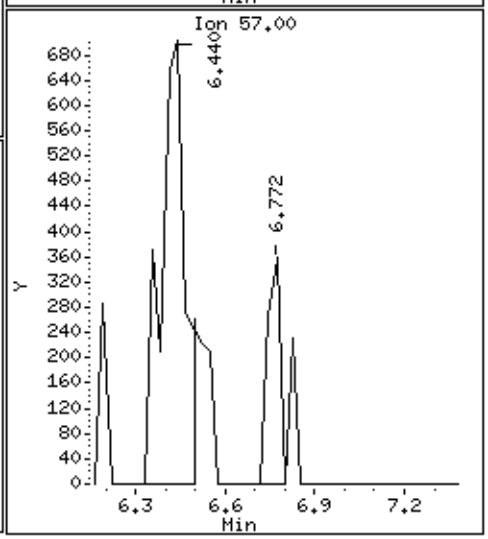












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS1

Lab ID#: 0808325-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	4.1	8.7	9.8

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS1

Lab ID#: 0808325-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082206**	**Date of Collection:**	**8/13/08**
Dil. Factor:	**1.83**	**Date of Analysis:**	**8/22/08 01:12 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 AMS1

Lab ID#: 0808325-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082206**	**Date of Collection: 8/13/08**	
Dil. Factor:	**1.83**	**Date of Analysis: 8/22/08 01:12 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	4.1	8.7	9.8
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	86	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22aug.b/8082206.d
Lab Smp Id: 0808325-02A
Inj Date : 22-AUG-2008 13:12
Operator : sjr Inst ID: msd8.i
Smp Info : 200mL #34468
Misc Info : 8.0"Hg -> 5psi
Comment :
Method : /chem/msd8.i/8-22aug.b/t14q804c.m
Meth Date : 22-Aug-2008 15:15 sruth Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.d
Als bottle: 1
Dil Factor: 1.83000
Integrator: HP RTE Compound Sublist: TO15N.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.159 (1.000)	130	246764	25.0000		80.00- 120.00	100.00
7.132	7.159 (1.000)	128	191302			47.04- 107.04	77.52
7.132	7.159 (1.000)	49	327828			98.74- 158.74	132.85
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	852247	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	128606			0.00- 45.62	15.09
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	670921	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	366242			0.00- 30.00	54.59
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	311882	21.2713	21.271	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	156491			0.00- 30.00	50.18
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	739935	21.3757	21.376	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	75270			0.00- 30.00	10.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	467960			0.00- 30.00	63.24
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	358659	25.2477	25.248	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	510486			107.97- 167.97	142.33
16.035	16.035 (1.115)	176	348151			66.83- 126.83	97.07
30 Acetone					CAS #: 67-64-1		
3.952	3.924 (0.554)	58	15365	2.24664	4.111	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	49406			0.00- 30.00	321.55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8082206.d
Lab Smp Id: 0808325-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 8.0"Hg -> 5psi

Calibration Date: 22-AUG-2008
Calibration Time: 08:55

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	289404	173642	405166	246764	-14.73
88 1,4-Difluorobenze	1002117	601270	1402964	852247	-14.96
125 Chlorobenzene-d5	795663	477398	1113928	670921	-15.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.38
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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

Report Date: 25-Aug-2008 12:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0808325-02A
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15N.sub
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 8.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	21.271	85.09	70-130
$ 104 Toluene-d8	25.000	21.376	85.50	70-130
$ 140 Bromofluorobenzene	25.000	25.248	100.99	70-130

Data File: /chem/msd8.i/8-22aug.b/8082206.d

Date : 22-AUG-2008 13:12

Client ID:

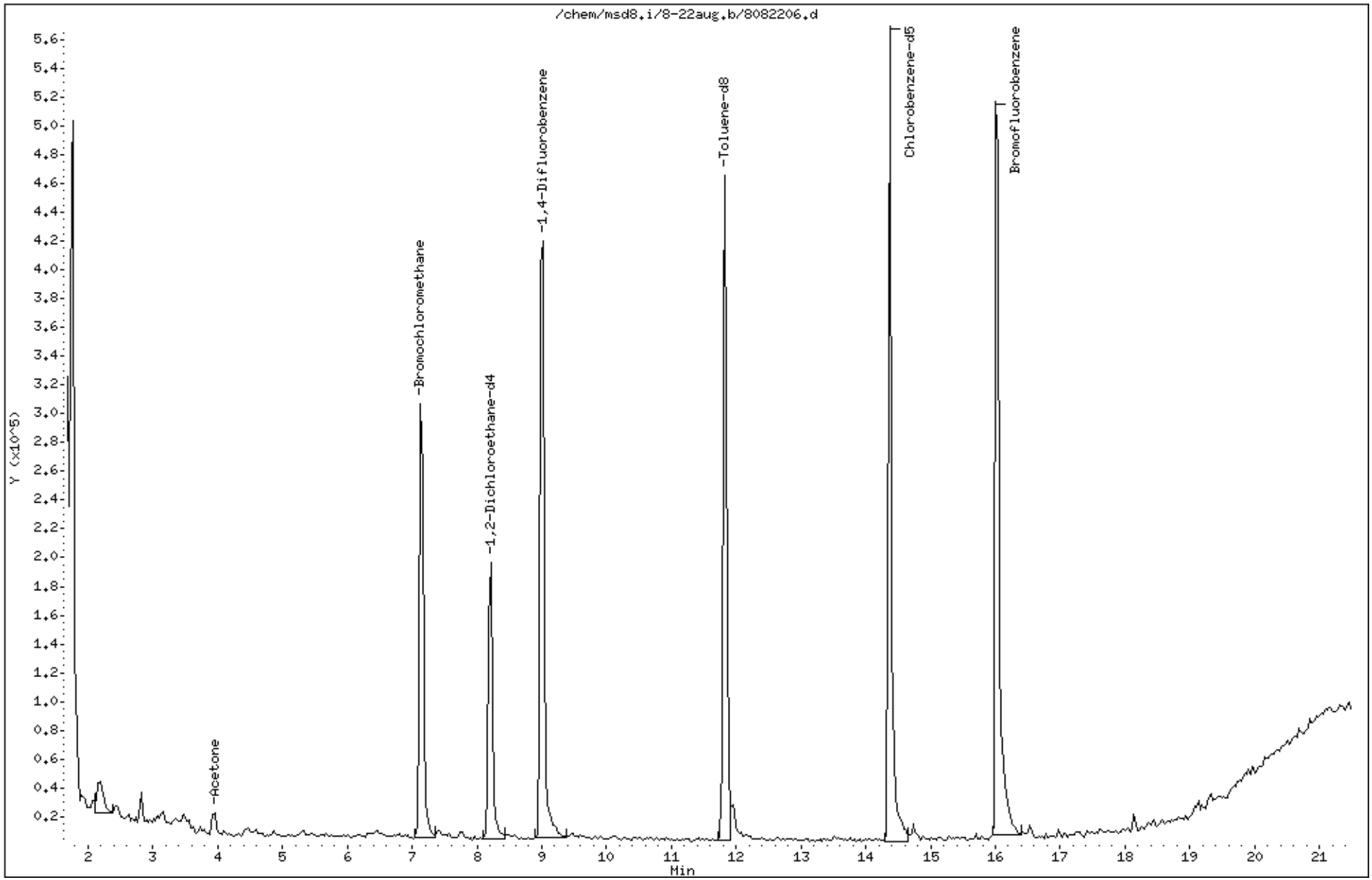
Sample Info: 200mL #34468

Column phase: RTx-624

Instrument: msd8.i

Operator: sjr

Column diameter: 0.53



Data File: /chem/msd8.i/8-22aug.b/8082206.d

Date : 22-AUG-2008 13:12

Client ID:

Instrument: msd8.i

Sample Info: 200mL #34468

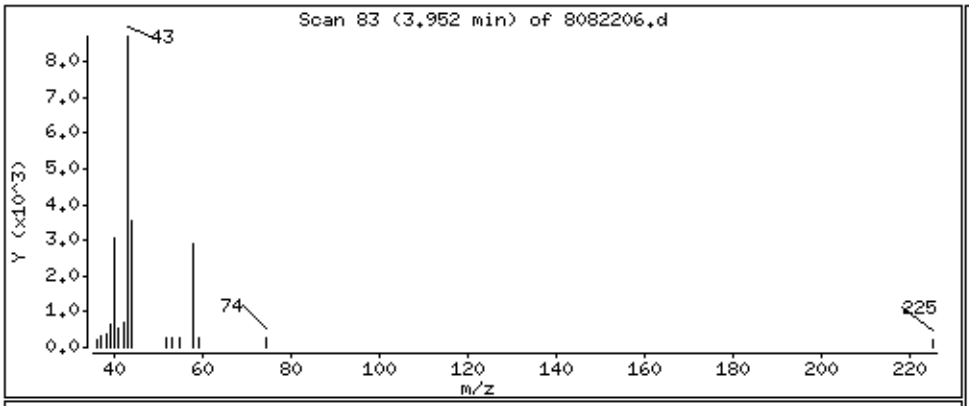
Operator: sjr

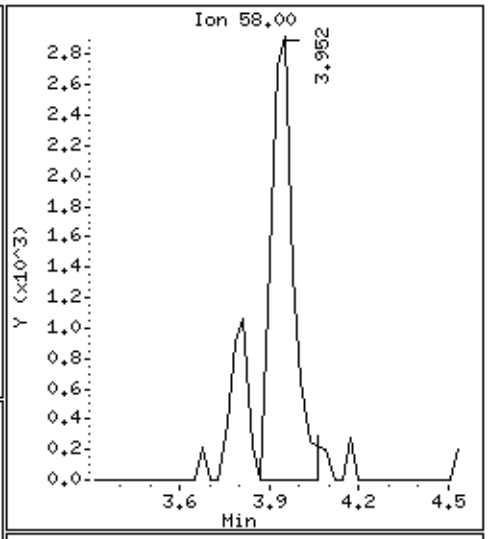
Column phase: RTx-624

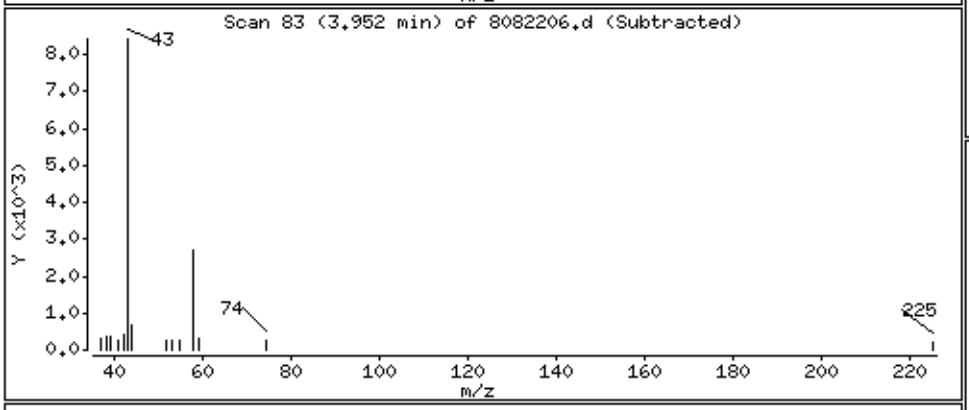
Column diameter: 0.53

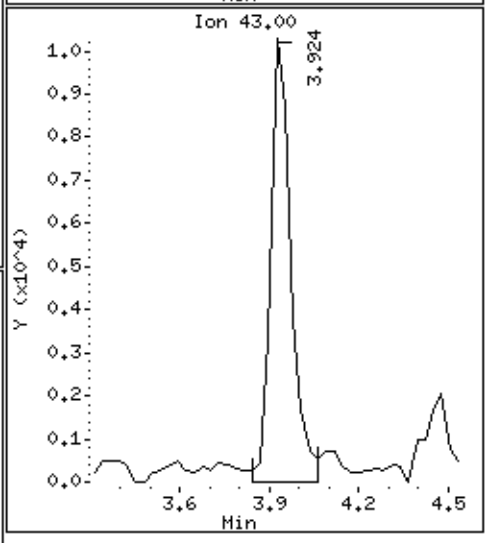
30 Acetone

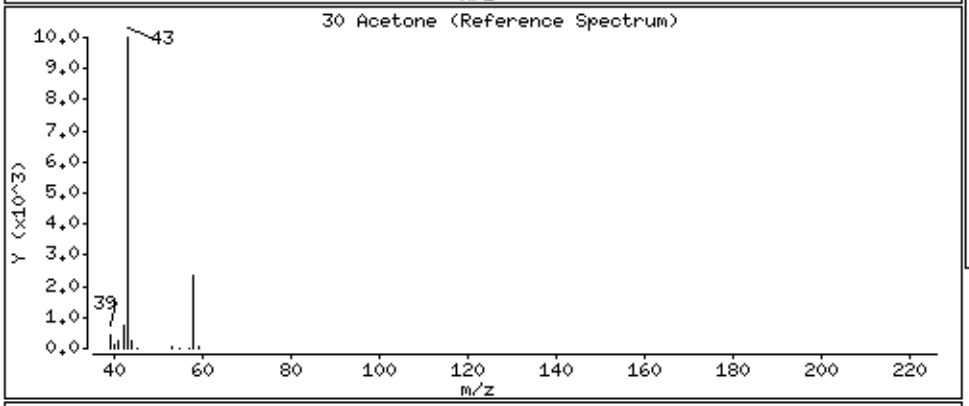
Concentration: 4.111 PPBV

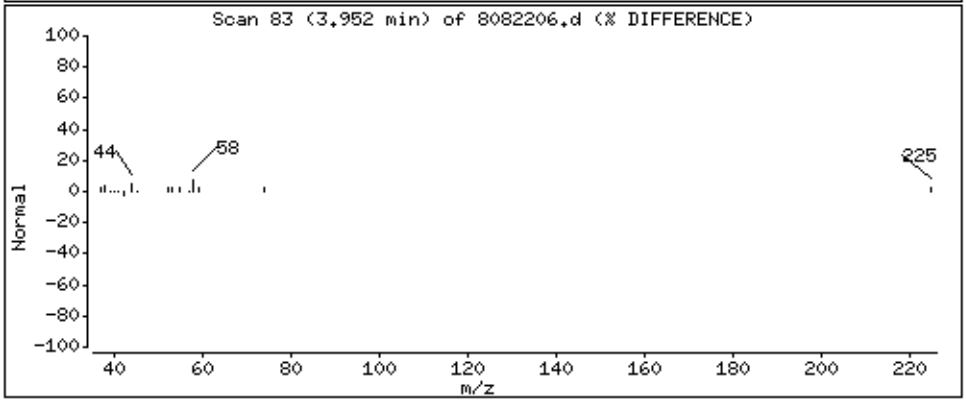












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0808325-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 10:55 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0808325-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 10:55 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	83	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22aug.b/8082204.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 22-AUG-2008 10:55
Operator : sjr Inst ID: msd8.i
Smp Info : 200ml #4214
Misc Info : Cart #11/ Leg #1
Comment :
Method : /chem/msd8.i/8-22aug.b/t14q804c.m
Meth Date : 22-Aug-2008 15:15 sruth Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.159 (1.000)	130	254910	25.0000		80.00- 120.00	100.00
7.132	7.159 (1.000)	128	195611			47.04- 107.04	76.74
7.132	7.159 (1.000)	49	327939			98.74- 158.74	128.65
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	883442	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	140036			0.00- 45.62	15.85
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	698480	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	387537			0.00- 30.00	55.48
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.151)	65	320319	21.1486	21.148	80.00- 120.00	100.00
8.210	8.210 (1.151)	67	157746			0.00- 30.00	49.25
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	747812	20.8404	20.840	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	78246			0.00- 30.00	10.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	486601			0.00- 30.00	65.07
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	368223	24.8983	24.898	80.00- 120.00	100.00
16.007	16.035 (1.113)	95	528434			107.97- 167.97	143.51
16.035	16.035 (1.115)	176	354377			66.83- 126.83	96.24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8082204.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: Cart #11/ Leg #1

Calibration Date: 22-AUG-2008
Calibration Time: 08:55
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	289404	173642	405166	254910	-11.92
88 1,4-Difluorobenze	1002117	601270	1402964	883442	-11.84
125 Chlorobenzene-d5	795663	477398	1113928	698480	-12.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.38
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 26-Aug-2008 13:19

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: Cart #11/ Leg #1

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	21.148	84.59	70-130
$ 104 Toluene-d8	25.000	20.840	83.36	70-130
$ 140 Bromofluorobenzene	25.000	24.898	99.59	70-130

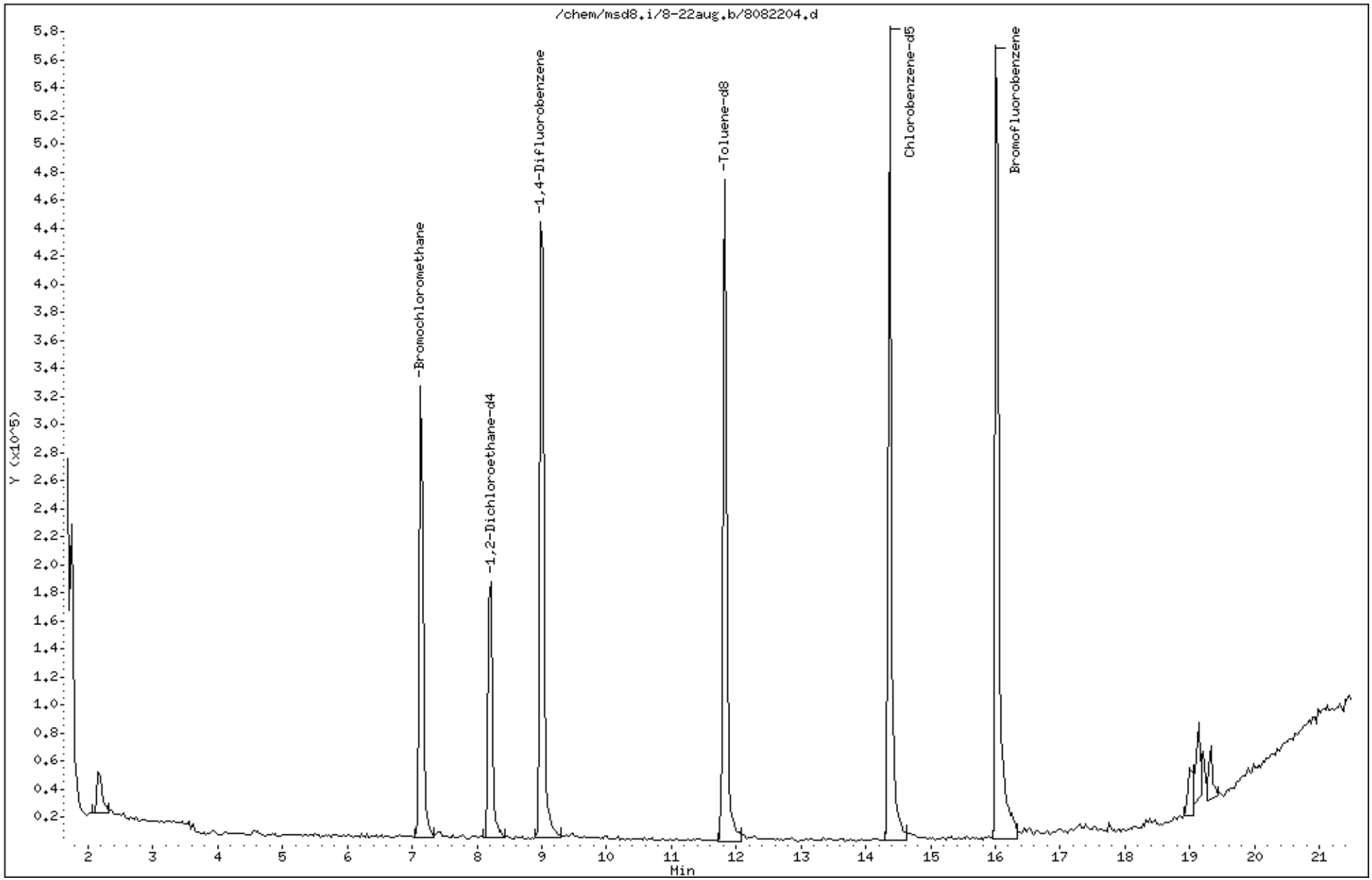
0032

Data File: /chem/msd8.i/8-22aug.b/8082204.d
Date : 22-AUG-2008 10:55
Client ID: Lab Blank
Sample Info: 200ml #4214

Column phase: RTx-624

Instrument: msd8.i

Operator: sjr
Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0808325

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW AMS6	85		85		101				0
02	DW AMS1	85		86		101				0
03	Lab Blank	84		83		100				0
04	CCV	86		91		110				0
05	LCS	87		88		107				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: 0808325
Lab File ID: 8082202.d
Date Analyzed: 08/22/2008
Instrument ID: msd8.i
Time Analyzed: 08:55 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	795663		14.38		1002117		9.01		289404		7.16	
	UPPER LIMIT	1113928		14.71		1402964		09.34		405166		07.49	
	LOWER LIMIT	477398		14.05		601270		08.68		173642		06.83	
	CLIENT SAMPLE NO												
01	UW AMS6	705208		14.38		873057		9.01		251116		7.13	
02	DW AMS1	670921		14.38		852247		9.01		246764		7.13	
03	Lab Blank	698480		14.38		883442		9.01		254910		7.13	
04	CCV	795663		14.38		1002117		9.01		289404		7.16	
05	LCS	715909		14.38		912909		8.98		255663		7.13	
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 : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-04aug.b/8080408.d
Level 2: /chem/msd8.i/8-04aug.b/8080409.d
Level 3: /chem/msd8.i/8-18aug.b/8081802.d
Level 4: /chem/msd8.i/8-04aug.b/8080411.d
Level 5: /chem/msd8.i/8-18aug.b/8081803.d
Level 6: /chem/msd8.i/8-04aug.b/8080413.d
Level 7: /chem/msd8.i/8-18aug.b/8081804.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	___ RRF	% RSD
	200.000 Level 7							
1 Freon 152a	+++++	+++++	1.31181	+++++	0.82589	+++++		
	0.82918						0.98896	28.272
2 Freon 22	+++++	+++++	0.56786	+++++	0.38829	+++++		
	0.35694						0.43770	26.001
3 Propylene	+++++	+++++	1.63694	1.04513	1.01295	1.00908		
	0.93743						1.12830	25.440
4 Dichlorodifluoromethane/Fr12	+++++	4.10212	4.00311	3.99431	3.94889	3.92859		
	3.60333						3.93006	4.351
5 Freon134a	+++++	+++++	2.37896	+++++	1.53321	+++++		
	1.40262						1.77160	29.918
6 Freon 114	+++++	3.09273	2.80462	2.87321	2.74253	2.73469		
	2.62816						2.81266	5.671
7 Isobutane	+++++	+++++	4.41740	+++++	3.08905	+++++		
	2.89470						3.46705	23.904

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Chloromethane	+++++	+++++	1.38878	1.13046	1.13465	1.22487	1.12254	1.20026	9.441
9 Butane	+++++	+++++	0.47768	0.29671	0.31454	0.31287	0.30390	0.34114	22.473
10 1,3-Butadiene	1.41342	1.13094	1.13185	1.07605	1.10430	1.15416	1.05351	1.15203	10.449
11 Vinyl Chloride	+++++	1.84915	1.51254	1.49242	1.51734	1.49984	1.37729	1.54143	10.347
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Bromomethane	+++++	1.58907	0.89612	1.03780	1.08150	1.10926	1.05184	1.12760	21.091
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Isopentane	+++++	+++++	2.24672	1.80239	1.79724	1.78565	1.64259	1.85492	12.337
16 Chloroethane	+++++	0.79588	0.67290	0.79243	0.79168	0.77488	0.74184	0.76160	6.288
17 Dichlorofluoromethane/Fr21	+++++	+++++	3.33081	+++++	2.38990	+++++	2.28742	2.66938	21.545

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Trichlorofluoromethane/Fr11	+++++	4.23712	4.32826	4.14264	4.14427	4.16060	3.89556	4.15141	3.479
19 Pentane	+++++	+++++	5.45862	+++++	3.55120	+++++	3.41884	4.14289	27.550
20 Freon123a	+++++	+++++	2.27138	+++++	1.66540	+++++	1.61981	1.85220	19.638
21 Freon123	+++++	+++++	3.19263	+++++	2.27371	+++++	2.15587	2.54073	22.341
22 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Ethanol	+++++	+++++	0.65902	0.52566	0.51190	0.49163	0.42314	0.52227	16.467
24 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	0.83003	+++++	0.57451	+++++	0.54901	0.65118	23.865
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Freon142b	+++++	+++++	4.23299	+++++	2.92755	+++++	2.74822	3.30292	24.537

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Freon 113	+++++	2.87367	2.45887	2.26892	2.27215	2.26321	2.09323	2.37168	11.460
29 1,1-Dichloroethene	+++++	2.94294	2.43555	2.35194	2.32685	2.32669	2.18677	2.42846	10.890
30 Acetone	+++++	+++++	0.75580	0.66002	0.69915	0.69112	0.65831	0.69288	5.717
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Freon143a	+++++	+++++	0.84329	+++++	0.60073	+++++	0.51604	0.65335	25.997
33 Carbon Disulfide	+++++	4.05925	4.02184	3.95538	3.98878	4.03611	3.82978	3.98186	2.083
34 2-Propanol	+++++	+++++	2.51926	2.51538	2.53806	2.60583	2.42054	2.51981	2.633
35 Acetonitrile	+++++	+++++	1.30541	+++++	0.83648	+++++	0.66222	0.93470	35.589
36 Cyclopentene	+++++	+++++	4.69562	+++++	3.31566	+++++	3.16968	3.72699	22.593
37 3-Chloropropene	+++++	+++++	0.64642	0.68190	0.69791	0.69929	0.66524	0.67815	3.317

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 tert-Butyl-Alcohol	+++++	+++++	3.16198	2.90452	2.80683	2.67485	2.15512	2.74066	13.603
39 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Methylene Chloride	+++++	2.13916	1.66366	1.54391	1.56358	1.56825	1.45692	1.65591	14.840
41 Acrylonitrile	+++++	+++++	2.17000	+++++	1.53804	+++++	1.50547	1.73784	21.556
42 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 MTBE	+++++	5.18263	4.45266	4.15083	4.15834	4.17166	3.80145	4.31960	10.895
44 1-Pentene	+++++	+++++	3.04344	+++++	2.06504	+++++	1.95885	2.35578	25.380
45 trans-1,2-Dichloroethene	+++++	1.80258	1.57050	1.55662	1.54381	1.57536	1.48340	1.58871	6.917
46 Hexane	+++++	2.86291	2.50364	2.46612	2.44201	2.47197	2.33717	2.51397	7.168
47 Ethyl Ether	+++++	+++++	1.52911	+++++	1.01999	+++++	0.97737	1.17549	26.115

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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
48 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Isopropyl ether	+++++	+++++	6.86331	+++++	4.74718	+++++	4.60466	5.40505	23.402
50 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 1-Propanol	+++++	+++++	0.34683	+++++	0.20665	+++++	0.21574	0.25641	30.593
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 1,1-Dichloroethane	+++++	2.97370	2.73533	2.59782	2.61928	2.61792	2.48323	2.67121	6.306
55 Vinyl Acetate	+++++	+++++	0.53505	0.36903	0.38435	0.38410	0.37475	0.40945	17.220
56 Iodomethane	+++++	+++++	2.52626	+++++	4.48950	+++++	3.91959	3.64511	27.708
57 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
58 Ethyl-tert-butyl Ether	+++++	+++++	6.42925	+++++	4.31855	+++++	4.01008	4.91929	26.767	
59 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
60 2,2-Dichloropropane	+++++	+++++	3.57591	+++++	2.66413	+++++	2.57643	2.93883	18.833	
61 Ethyl Acetate	+++++	+++++	0.57256	+++++	0.35198	+++++	0.34368	0.42274	30.707	
62 1-Hexene	+++++	+++++	1.87459	+++++	1.27502	+++++	1.24222	1.46394	24.319	
63 Methyl Acrylate	+++++	+++++	3.71354	+++++	2.93309	+++++	2.99199	3.21287	13.527	
64 cis-1,2-Dichloroethene	+++++	2.00718	1.98575	1.99621	1.97324	1.97089	1.86710	1.96673	2.578	
65 2-Butanone	+++++	1.33958	0.70456	0.70553	0.73718	0.72516	0.68958	0.81693	31.409	<-
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
67 Tetrahydrofuran	+++++	3.51992	1.88675	1.66817	1.63953	1.65436	1.57959	1.99139	37.971	<-

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Chloroform	3.08878	3.12989	2.86118	2.77474	2.77953	2.82428	2.65892	2.87390	6.015
71 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,1-Dichloropropene	+++++	+++++	1.07957	+++++	0.75465	+++++	0.72802	0.85408	22.918
73 Cyclohexane	+++++	2.89855	2.20514	2.14867	2.13618	2.14630	2.01318	2.25800	14.176
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,1,1-Trichloroethane	+++++	3.70586	3.32928	3.24039	3.24382	3.25237	3.07740	3.30819	6.394
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	3.24320	3.17011	3.08452	3.12437	3.16071	3.00683	3.13162	2.579
78 Isobutanol	+++++	+++++	0.36749	+++++	0.27411	+++++	0.28363	0.30841	16.661

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
79 tert-amyl-Methyl Ether	+++++	+++++	5.64210	+++++	3.93199	+++++	3.55052	4.37487	25.461
80 2,2,4-Trimethylpentane	+++++	8.69600	7.63963	7.59187	7.62297	7.72295	7.47876	7.79203	5.774
81 Benzene	1.28507	1.15671	1.13052	1.04547	1.03593	1.00912	1.02678	1.09851	9.033
83 1,2-Dichloroethane	+++++	0.61477	0.54512	0.49725	0.50005	0.48531	0.48331	0.52097	9.815
84 Thiopene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 Heptane	+++++	0.18783	0.15160	0.13116	0.12815	0.12736	0.12653	0.14211	17.109
86 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 1-Butanol	+++++	+++++	0.43161	+++++	0.26653	+++++	0.28435	0.32750	27.667
90 Methyl Methacrylate	+++++	+++++	0.62226	+++++	0.54288	+++++	0.54828	0.57114	7.765

Air Toxics Ltd.

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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
91 2-Pentanone	+++++	+++++	1.25042	+++++	1.04367	+++++	1.05640	1.11683	10.375
92 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Ethyl Acrylate	+++++	+++++	1.11127	+++++	0.88922	+++++	0.92312	0.97454	12.275
94 Trichloroethene	+++++	0.51560	0.45602	0.46559	0.45368	0.44962	0.44517	0.46428	5.613
95 Methyl Cyclohexane	+++++	3.67594	3.01796	2.86029	2.86851	2.88091	2.72109	3.00412	11.395
96 Dibromomethane	+++++	+++++	0.70768	+++++	0.48407	+++++	0.45309	0.54828	25.335
97 1,2-Dichloropropane	+++++	0.42517	0.38843	0.38313	0.37257	0.37078	0.36975	0.38497	5.471
98 1,4-Dioxane	+++++	+++++	0.30353	0.26579	0.26287	0.26114	0.26269	0.27120	6.693
99 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 Bromodichloromethane	+++++	0.80790	0.68930	0.69464	0.70178	0.68932	0.69270	0.71261	6.583

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 cis-1,3-Dichloropropene	+++++	0.75167	0.59624	0.57949	0.57118	0.56190	0.56158	0.60368	12.199
103 4-Methyl-2-pentanone	+++++	0.43483	0.38333	0.34657	0.33473	0.32945	0.33040	0.35989	11.639
105 Toluene	+++++	1.45136	1.26025	1.28337	1.27009	1.24142	1.25418	1.29344	6.081
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 trans-1,3-Dichloropropene	+++++	0.90535	0.69961	0.66375	0.65843	0.65198	0.64892	0.70467	14.190
109 1,3-Dichloropropane	+++++	+++++	0.85923	+++++	0.59153	+++++	0.56903	0.67327	23.979
110 1,1,2-Trichloroethane	+++++	0.63378	0.48456	0.47066	0.48119	0.46047	0.45906	0.49829	13.484
111 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Tetrachloroethene	+++++	0.72124	0.59072	0.58028	0.57080	0.57177	0.57130	0.60102	9.883
113 Butyl Acetate	+++++	+++++	0.44287	+++++	0.39745	+++++	0.39820	0.41284	6.301
114 2-Hexanone	+++++	+++++	0.55536	0.52583	0.53013	0.50661	0.50837	0.52526	3.764
115 trans-1,4-dichloro-2-butene	+++++	+++++	0.10046	+++++	0.08514	+++++	0.09291	0.09284	8.249
116 Dibromochloromethane	+++++	0.82916	0.74493	0.72725	0.75368	0.75974	0.77904	0.76563	4.635
117 1,2-Dibromoethane	0.93906	0.76011	0.74334	0.73933	0.74600	0.74835	0.73808	0.77347	9.488
118 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
120 Diisobutyl Ketone	+++++	+++++	1.45538	+++++	1.21378	+++++	1.29837	1.32251	9.270
121 Alphamethylstyrene	+++++	+++++	0.88791	+++++	0.94689	+++++	1.05563	0.96348	8.831

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
122 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,1,1,2-Tetrachloroethane	+++++	+++++	0.75957	+++++	0.55112	+++++	0.54613	0.61894	19.682
124 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	1.23083	1.29039	1.19690	1.16239	1.15676	1.15503	1.19872	4.481
127 Bis(2-chloroethyl) ether	+++++	+++++	1.43357	+++++	1.26701	+++++	1.32784	1.34280	6.276
128 Nonane	+++++	+++++	1.55636	+++++	1.14683	+++++	1.12582	1.27634	19.018
129 Ethyl Benzene	+++++	0.72097	0.58916	0.59892	0.60174	0.60723	0.60884	0.62114	7.954
130 m,p-Xylene	+++++	0.73097	0.86029	0.77605	0.79082	0.78837	0.80287	0.79156	5.292
131 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.80525	0.76497	0.76003	0.75882	0.76965	0.76139	0.77002	2.299

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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 2-Heptanone	+++++	+++++	0.66508	+++++	0.62105	+++++	0.69842	0.66152	5.867
134 Styrene	1.23105	1.17347	1.09056	1.13272	1.16484	1.16418	1.19660	1.16477	3.842
135 Bromoform	+++++	0.60910	0.56017	0.58673	0.61992	0.63848	0.66700	0.61357	6.145
136 Cyclohexanone	+++++	+++++	0.65426	+++++	0.50376	+++++	0.52457	0.56087	14.540
137 Cumene	2.58934	2.26756	2.23156	2.18077	2.21747	2.18770	2.18136	2.26511	6.465
138 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Bromobenzene	+++++	+++++	0.98120	+++++	0.69944	+++++	0.66481	0.78182	22.196
141 1,2,3-Trichloropropane	+++++	+++++	0.48747	+++++	0.33210	+++++	0.32606	0.38188	23.960
142 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chlorotoluene	+++++	+++++	0.77512	+++++	0.56580	+++++	0.55930	0.63341	19.383

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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 1,1,2,2-Tetrachloroethane	+++++	1.17897	1.03079	0.98458	1.01667	0.99164	1.00669	1.03489	7.009
145 Propylbenzene	+++++	2.46667	2.61767	2.54582	2.67654	2.64942	2.19740	2.52559	7.043
146 4-Chlorotoluene	+++++	+++++	0.73167	+++++	0.49601	+++++	0.51024	0.57931	22.811
147 4-Ethyltoluene	+++++	2.09223	2.24947	2.29143	2.39566	2.47007	2.04363	2.25708	7.375
148 1,3,5-Trimethylbenzene	2.21228	2.15482	1.98639	1.91851	1.94508	1.91316	1.94508	2.01076	6.044
149 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 tert-Butylbenzene	+++++	+++++	3.25792	+++++	2.24681	+++++	2.31891	2.60788	21.631
151 Pentachloroethane	+++++	+++++	0.58100	+++++	0.45202	+++++	0.48615	0.50639	13.198
152 sec-Butylbenzene	+++++	+++++	3.61625	+++++	2.65133	+++++	2.49309	2.92022	20.819
153 1,2,4-Trimethylbenzene	2.24788	2.13455	2.13412	2.06719	2.14108	2.15194	1.77511	2.09312	7.164

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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 p-Cymene	+++++	+++++	0.82981	+++++	0.62527	+++++	0.65124	0.70211	15.860
155 1,2,3-Trimethylbenzene	+++++	+++++	1.12127	+++++	0.85894	+++++	0.86567	0.94863	15.765
156 1,3-Dichlorobenzene	+++++	1.20020	1.19551	1.13949	1.18478	1.18525	1.18503	1.18171	1.834
157 1,4-Dichlorobenzene	+++++	1.58864	1.67822	1.46763	1.50956	1.51367	1.42861	1.53106	5.860
158 alpha-Chlorotoluene	+++++	1.33180	1.59256	1.62217	1.66953	1.71599	1.75295	1.61417	9.312
159 Butylbenzene	+++++	+++++	0.78614	+++++	0.63465	+++++	0.67180	0.69753	11.319
160 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 1,2-Dichlorobenzene	+++++	1.54277	1.33718	1.19573	1.23175	1.25881	1.23110	1.29956	9.872
162 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
163 Indene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
165 1,2-Dibromo-3-Chloropropane	+++++	+++++	0.75680	+++++	0.60168	+++++	0.63155	0.66334	12.408
166 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
167 1,2,4-Trichlorobenzene	+++++	+++++	1.31714	0.95463	1.00631	0.98125	1.00689	1.05324	14.154
168 Hexachlorobutadiene	+++++	+++++	0.88779	0.66114	0.64818	0.65104	0.63665	0.69696	15.357
169 Naphthalene	+++++	+++++	3.17744	2.17716	2.27261	2.23217	2.21412	2.41470	17.715
170 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
171 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
198 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-18aug.b/t14q804c.m
Cal Date : 18-Aug-2008 15:53 ctaylor
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
199 Cyclopentane	+++++	+++++	1.72140	+++++	1.24118	+++++	1.20346	1.38868	20.794
$ 82 1,2-Dichloroethane-d4	1.45022	1.43919	1.43626	1.41646	1.50194	1.57819	1.57583	1.48544	4.566
$ 104 Toluene-d8	0.99665	1.01629	1.00884	1.01910	1.01278	1.02532	1.02901	1.01543	1.063
$ 140 Bromofluorobenzene	0.51480	0.52309	0.52611	0.53163	0.54494	0.52687	0.53789	0.52933	1.871

Calibration History

Method : /chem/msd8.i/8-18aug.b/t14q804c.m
Start Cal Date: 04-AUG-2008 23:47
End Cal Date : 18-AUG-2008 11:24

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
04-AUG-2008 23:47	AFCEElow	/chem/msd8.i/8-04aug.b/8080408.d
Cal Level: 2 , Cal Amount: 0.50000		
05-AUG-2008 00:15	AT08Low	/chem/msd8.i/8-04aug.b/8080409.d
Cal Level: 3 , Cal Amount: 2.00000		
18-AUG-2008 10:26	sp19c	/chem/msd8.i/8-18aug.b/8081802.d
06-AUG-2008 11:39	sp36b	/chem/msd8.i/8-06aug.b/8080605.d
05-AUG-2008 00:43	AT08mdl	/chem/msd8.i/8-04aug.b/8080410.d
Cal Level: 4 , Cal Amount: 25.00000		
05-AUG-2008 01:11	AT08mdl	/chem/msd8.i/8-04aug.b/8080411.d
Cal Level: 5 , Cal Amount: 50.00000		
18-AUG-2008 10:54	sp19c	/chem/msd8.i/8-18aug.b/8081803.d
06-AUG-2008 12:07	sp36b	/chem/msd8.i/8-06aug.b/8080606.d
05-AUG-2008 01:39	AT08mdl	/chem/msd8.i/8-04aug.b/8080412.d
Cal Level: 6 , Cal Amount: 100.00000		
05-AUG-2008 02:07	AT08mdl	/chem/msd8.i/8-04aug.b/8080413.d
Cal Level: 7 , Cal Amount: 200.00000		
18-AUG-2008 11:24	sp19c	/chem/msd8.i/8-18aug.b/8081804.d
06-AUG-2008 12:38	sp36b	/chem/msd8.i/8-06aug.b/8080607.d
05-AUG-2008 02:37	AT08mdl	/chem/msd8.i/8-04aug.b/8080414.d

+------------------+-----------------+--+

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000			
18-AUG-2008 13:05	AT08	/chem/msd8.i/8-18aug.b/8081805.d
Ccal Level: 5 , Ccal Amount: 50.000			
18-AUG-2008 10:54	sp19c	/chem/msd8.i/8-18aug.b/8081803.d
Ccal Level: 5 , Ccal Amount: 50.000			
18-AUG-2008 10:54	sp19cCCV	/chem/msd8.i/8-18aug.b/8081803a.d

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

0055

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.97
75	30.0 – 60.0% of mass 95	46.07
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.53
173	Less than 2.0% of mass 174	(0.92)[1]
174	50.0 – 100% of mass 95	62.77
175	5.0 – 9.0% of mass 174	(7.47)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.54)[1]
177	5.0 – 9.0% of mass 176	(6.26)[2]

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

BFB Injection Date: 8/4/08
BFB Injection Time: 2308
BFB File ID: 8080407
Tekmar Purge Flow: Z 8-6-08
Vacuum: m

IS/S Std.#:	1541-215	Exp. Date: 10-16-08
BCM	29500	
1,4-DFB	1202703	
CB-d5	1079897	

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

Verify 176/174 m/z Ratio: 923840/956928 *100 = 96.54

NOAH Cart #: N/A **File #:** N/A

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 439318\ )}{(\ 292500\ )} \times \frac{(\ 25\ )}{(\ 1.78429\ )} =$ Z m 8-6-08

File ID: 8080412
Compound: 1,2-DCA-d4
Initials: C.T.

Reported Result 25.278

Method: T14q804a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8080407	BFB Tune Check	1476-278	50ng	2.0mL	1.00	DM	8/4/08	2308	DM/C.T.	
2	✓	08	ICAL level 1 (0.5 ppbv)	1612-92	0.3ppbv	0.3mL			↓	2347	C.T.	T14q804a
3	✓	09	2	1612-92	0.5ppbv	0.5mL			8/5/08	0015		
4	✓	10	3		2.0ppbv	2.0mL				0043		
5	✓	11	4		25ppbv	25mL				0111		
6	✓	12	5		50ppbv	50mL				0139		
7	✓	13	6		100ppbv	100mL	↓	↓	↓	0207	↓	

C Taylor
Signature

8-5-08
Date

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

8	80804 14	ICAL level 7	1612-72	200ppbv	200mL	1.00	CF for nm	8-5-08	0237	CT		
9	15	System Blank	4214	Humid	200mL	↓	↓	↓	0307	CT		
10	16	LCS-1 (200ppbv)	1612-72	50ppbv	50mL	↓	↓	↓	0335	CT	ICAL LCS	
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												8-5-08 CT

0056

Comments:

C Taylor
Signature

8-5-08
Date

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

0057

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.37
75	30.0 – 60.0% of mass 95	45.68
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	(0.91)[1]
174	50.0 – 100% of mass 95	64.61
175	5.0 – 9.0% of mass 174	(7.17)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.32)[1]
177	5.0 – 9.0% of mass 176	(6.52)[2]

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

BFB Injection Date: 8-6-08
BFB Injection Time: 0905
BFB File ID: 8080601
Tekmar Purge Flow:
Vacuum: $9.8 * 10^{-6}$

IS/S Std.#:	1541-215	Exp. Date: 10-16-08
BCM	344402	
1,4-DFB	1422031	
CB-d5	1295803	

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

Verify 176/174 m/z Ratio: 1290752 / 1340416 * 100 = 96.29 OK

NOAH Cart #: 11 **File #:** 8080604

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 145521\ )}{(\ 1422031\ )} \times \frac{(\ 25\ )}{(\ 1.01543\ )} =$ 25.131

File ID:	8080602
Compound:	Toluene-d8
Initials:	MR

Reported Result 25.131

Method: ~~T14g 804a~~ T14g 804b

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8080601	BFB Tune Check	1476-275	50mg	2µL	1.00	MR	8-6-08	0905	MR/CT	
2	✓	8080602	CCV-1 50ppbv (200ppbv)	1612-92	50ppbv	50mL	1.00	MR	8-6-08	0925	MR/CT	∅ out
3	✓	↓ 03	LCS-1 50ppbv (200ppbv)	1612-72	↓	↓	↓	↓	↓	0953	MR/CT	∅ out
4	✓	80806 04	Lab Blank	4214	Humid	200mL	1.00	MR	8-6-08	1056	MR/CT	Cert Cart #11 Leg #8
5	✓	8080605	ICAL Level 3	1612-99	2.0ppbv	2.0mL	|	|	|	1139	MR/CT	T14g 8046 Aroject SP 366
6	✓	↓ 06	↓ Level 5	|	50ppbv	50mL	|	|	|	1207	MR/CT	
7	✓	↓ 07	↓ Level 7	↓	200ppbv	200mL	↓	↓	↓	1238	MR/CT	

Signature

8-6-08
Date

@ Air Toxics Ltd. **MSD-8** **Logbook #: 1647**

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.90
75	30.0 – 60.0% of mass 95	46.97
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.46
173	Less than 2.0% of mass 174	(0.86)[1]
174	50.0 – 100% of mass 95	67.87
175	5.0 – 9.0% of mass 174	(7.38)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.02)[1]
177	5.0 – 9.0% of mass 176	(6.3)[2]

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

BFB Injection Date: 8-18-08
BFB Injection Time: 0903
BFB File ID: 8081801
Tekmar Purge Flow: —
Vacuum: $5.1 * 10^{-6}$

IS/S Std.#: 1541-215	Exp. Date: 10-16-08
BCM	278576
1,4-DFB	1009446
CB-d5	798569

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

Verify 176/174 m/z Ratio: 903232/940672 * 100 = 96.02 ✓

NOAH Cart #: 10/5 **File #:** X081706/X081707

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 351515\ )}{(\ 278576\ )} \times \frac{(\ 25\ )}{(\ 1.48544\ )} = 21.237$

File ID:	8081905
Compound:	1,2-DCA-d4
Initials:	MR

MR 8-18-08 C

Reported Result 21.236

Method: ~~T14q8046~~ T14q8046c MR 8-18-08

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8081801	BFB Tune Check	1476-278	50 psig	2µL	1.00	MR	8-18-08	0903	MR/CT	
2	✓	8081802	ICAL Level 3 (20ppbv)	1541-242	20 ppbv	2mL		MR	8-18-08	1026	MR/CT	T14q804c SPI C
3	✓	03	ICAL Level 5		50 ppbv	50mL				1054	MR/CT	
4	✓	04	ICAL Level 7		200 ppbv	200mL				1124	MR/CT	
5	✓	8081805	CCV-1 50ppbv (200ppbv)	1541-210	50 ppbv	50mL	1.00	MR	8-18-08	1305	MR/CT	Cont
6	✓	06	LCS-1 50ppbv (100ppbv)	1612-757		100mL				1332	MR/CT	Cont
7	X	8081807	Lab Blank	4214	Humid	200mL	1.00	MR	8-18-08	1444	MR/—	Cert Cert#11 Leg#3

Signature 8-18-08 Date

0058

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

8	X	80818O8	Lab Blank	4214	Humid	200mL	1.00	MR	8-18-08	1531	MR		
9	X	09	↓	↓	↓	↓	↓	↓	↓	1639	↓		
10	X	10								1818			
11	✓	11								1907			
12	✓	12	0808137-01A	31138	12"Hg-5psi	200mL	2.23			2028			
13	✓	13	0808184A-01A	34757	29"Hg-5psi		1.00			2111			
14	✓	14	-02A	9923	6.5"Hg-5psi		1.71			2153			
15	✓	15	-02AA	↓	↓		↓			2235			
16	✓	16	-03A	14010	4"Hg-5psi		1.55		↓	2318			
17	✓	17	-04A	5716	7"Hg		1.75		8/19/08	0000			
18	✓	18	-05A	4180	9.5"Hg		1.96			0043			
19	✓	19	-06A	5608	9"Hg		1.91			0125			
20	✓	20	-07A	4168	9"Hg	↓	↓		↓	0207	↓		
21	✓	21	0808184A-08A	4297	14"Hg-5psi	200mL	2.51	MR		0320			
22	✓	22	-09A	941	23"Hg-5psi		5.74			0403			
23	✓	23	-10A	31151	18"Hg-5psi		3.35			0445			
24	✓	24	-11A	33581	22.5"Hg-5psi	53	5.96			0527			
25	✓	25	0808237A-01A	5606	9.0"Hg-5psi	1.0mL	1.91			0610			
26	✓	26	02A	31154	12.5"Hg-5psi	2.0	2.30			0652			
27	✓	27	0808221-01A	21016	2.5"Hg-5psi	1.6mL	1.96			0734		200mL	
28		28	0808214A-01A	34274	25"Hg-5psi	16.0mL	1.20					100X	
29													
30													
31													

0039

Comments: MR 8-19-08

Signature

8-19-08
Date

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-8 on 8-04-2008.

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

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080416.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 05-AUG-2008 03:35
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1612-72
Misc Info : 200ppbv ->50ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:48 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 02:37 Cal File: 8080414.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.132 (1.000)	130	296743	25.0000		70.00- 130.00	100.00
7.132	7.132 (1.000)	128	223619			47.98- 107.98	75.36
7.132	7.132 (1.000)	49	383484			106.00- 166.00	129.23
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1208939	25.0000		70.00- 130.00	100.00
8.984	9.012 (1.000)	88	199853			0.00- 46.07	16.53
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1071330	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	593625			0.00- 30.00	55.41
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.182	8.210 (1.147)	65	435998	24.7280	24.728	70.00- 130.00	100.00
8.182	8.210 (1.147)	67	252798			0.00- 30.00	57.98
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1222480	24.8960	24.896	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	127346			0.00- 30.00	10.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	845641			0.00- 30.00	69.17
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	590369	26.0263	26.026	70.00- 130.00	100.00
16.007	16.035 (1.113)	95	884982			118.42- 178.42	149.90
16.035	16.035 (1.115)	176	574551			67.67- 127.67	97.32
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	647152	48.3214	48.321	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	440326			0.00- 30.00	68.04
1.906	1.906 (0.267)	39	479475			0.00- 30.00	74.09
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	2368366	50.7702	50.770	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	769165			0.00- 30.00	32.48
6 Freon 114					CAS #: 76-14-2		
2.044	2.072 (0.287)	135	1633706	48.9347	48.935	70.00- 130.00	100.00
2.044	2.072 (0.287)	137	508538			1.42- 61.42	31.13
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	711942	49.9723	49.972	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	211910			0.00- 30.00	29.77
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	892391	48.7743	48.774	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	287483			0.00- 30.00	32.21
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	641814	46.9358	46.936	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	422286			0.00- 30.00	65.80
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	641284	47.9133	47.913	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	602904			66.53- 126.53	94.02
16 Chloroethane					CAS #: 75-00-3		
2.791	2.818 (0.391)	64	466288	51.5806	51.580	70.00- 130.00	100.00
2.791	2.818 (0.391)	49	127020			0.00- 30.00	27.24
2.791	2.818 (0.391)	66	145973			0.00- 30.00	31.31
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	2480219	50.3331	50.333	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	1594028			34.28- 94.28	64.27

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.344	3.371 (0.469)	45	313463	50.5650	50.565	70.00- 130.00	100.00
3.344	3.371 (0.469)	43	69327			0.00- 30.00	22.12
3.344	3.371 (0.469)	46	128021			0.00- 30.00	40.84
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1525030	54.1730	54.173	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	962200			34.49- 94.49	63.09
3.758	3.758 (0.527)	101	1849983			92.46- 152.46	121.31
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	1545116	53.6032	53.603	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	913649			29.64- 89.64	59.13
3.786	3.786 (0.531)	98	589353			7.66- 67.66	38.14
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	417917	50.8149	50.815	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	1354920			0.00- 30.00	324.21
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	1538974	51.4544	51.454	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	357595			0.00- 30.00	23.24
4.090	4.090 (0.574)	59	62010			0.00- 30.00	4.03
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	2383699	50.4342	50.434	70.00- 130.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	426291	52.9588	52.959	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	1139331			0.00- 30.00	267.27
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.615 (0.643)	49	1003563	51.0584	51.058	70.00- 130.00	100.00
4.588	4.615 (0.643)	84	758246			46.03- 106.03	75.56
4.588	4.615 (0.643)	51	298448			0.00- 30.00	29.74
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	2404173	46.8902	46.890	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	545228			0.00- 52.36	22.68
4.920	4.920 (0.690)	41	522964			0.00- 30.00	21.75
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	938716	49.7793	49.779	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	1352856			117.81- 177.81	144.12
4.975	4.975 (0.698)	98	589629			0.00- 30.00	62.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	1474676	49.4192	49.419	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	884297			0.00- 30.00	59.97
5.307	5.307 (0.744)	86	277576			0.00- 30.00	18.82
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.722	5.721 (0.802)	63	1620597	51.1124	51.112	70.00- 130.00	100.00
5.722	5.721 (0.802)	65	511461			1.12- 61.12	31.56
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	234567	48.2637	48.264	70.00- 130.00	100.00
5.777	5.804 (0.810)	43	2218318			0.00- 30.00	945.71
5.777	5.804 (0.810)	42	201049			0.00- 30.00	85.71
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	427876	44.1257	44.126	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	1683120			352.72- 412.72	393.37
6.772	6.772 (0.950)	57	133977			0.00- 30.00	31.31
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1208853	51.7831	51.783	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	907275			44.78- 104.78	75.05
6.717	6.717 (0.942)	98	561500			17.70- 77.70	46.45
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	967938	40.9497	40.950	70.00- 130.00	100.00
7.132	7.132 (1.000)	71	374366			7.84- 67.84	38.68
7.132	7.132 (1.000)	72	395098			0.00- 30.00	40.82
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	1689339	49.5227	49.523	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	1095095			34.57- 94.57	64.82
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1953885	49.7586	49.759	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	1276320			34.20- 94.20	65.32
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	1295104	48.3214	48.321	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	1478117			86.25- 146.25	114.13
7.491	7.491 (1.050)	41	802286			33.52- 93.52	61.95
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	1868333	50.2625	50.262	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	1917539			73.55- 133.55	102.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	4551287	49.2089	49.209	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	1450256			0.00- 30.00	31.86
8.182	8.210 (1.147)	41	1158373			0.00- 30.00	25.45
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	2546759	47.9422	47.942	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	589828			0.00- 30.00	23.16
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1239506	49.2010	49.201	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	400928			0.00- 30.00	32.35
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	315214	45.8700	45.870	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	1551256			0.00- 30.00	492.13
8.597	8.597 (0.954)	71	944231			0.00- 30.00	299.55
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1132600	50.4466	50.447	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	1172004			74.03- 134.03	103.48
9.399	9.399 (1.043)	97	729858			33.83- 93.83	64.44
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.896 (1.098)	63	920993	49.4723	49.472	70.00- 130.00	100.00
9.897	9.896 (1.098)	62	635544			40.79- 100.79	69.01
9.897	9.896 (1.098)	41	541507			29.63- 89.63	58.80
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	629525	48.0011	48.001	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	436114			40.70- 100.70	69.28
10.145	10.145 (1.126)	57	135520			0.00- 30.00	21.53
100 Bromodichloromethane					CAS #: 75-27-4		
10.450	10.449 (1.160)	83	1712764	49.7031	49.703	70.00- 130.00	100.00
10.450	10.449 (1.160)	85	1094886			33.28- 93.28	63.93
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	1392614	47.7047	47.705	70.00- 130.00	100.00
11.390	11.390 (1.264)	77	426995			1.43- 61.43	30.66
11.390	11.390 (1.264)	39	686422			19.82- 79.82	49.29
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	819354	47.0807	47.081	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	1985507			0.00- 30.00	242.33
11.749	11.749 (1.304)	85	375042			0.00- 30.00	45.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.943 (1.328)	91	3218992	51.4645	51.464	70.00- 130.00	100.00
11.943	11.943 (1.325)	92	1969909			30.55- 90.55	61.20
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1434263	47.4960	47.496	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	455223			1.82- 61.82	31.74
12.606	12.606 (0.877)	39	663193			16.70- 76.70	46.24
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	1043442	48.8658	48.866	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	640619			31.05- 91.05	61.39
12.910	12.910 (0.898)	83	836673			49.24- 109.24	80.18
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1273823	49.4582	49.458	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	1062828			53.94- 113.94	83.44
12.938	12.938 (0.900)	131	1030413			49.66- 109.66	80.89
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1089977	48.4237	48.424	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	1923290			146.80- 206.80	176.45
13.353	13.353 (0.929)	100	246827			0.00- 30.00	22.65
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1653818	50.4062	50.406	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	1276464			0.00- 30.00	77.18
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1592921	48.0584	48.058	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	1494287			63.34- 123.34	93.81
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	2630522	51.2084	51.208	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	847723			1.67- 61.67	32.23
14.403	14.403 (1.002)	77	1481585			28.04- 88.04	56.32
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	1315669	49.4279	49.428	70.00- 130.00	100.00
14.542	14.569 (1.012)	91	4180867			0.00- 30.00	317.77
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1675623	49.3978	49.398	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	3388995			0.00- 30.00	202.25
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1686031	51.0955	51.095	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	3596886			188.03- 248.03	213.33
134 Styrene					CAS #: 100-42-5		
15.316	15.316 (1.065)	104	2538536	50.8579	50.858	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	1292773			20.90- 80.90	50.93
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	1375148	52.3002	52.300	70.00- 130.00	100.00
15.565	15.565 (1.083)	171	700978			20.98- 80.98	50.97
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	2194198	49.4765	49.476	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	1399195			34.03- 94.03	63.77
147 4-Ethyltoluene					CAS #: 622-96-8		
16.450	16.449 (1.144)	105	5300604	54.8018	54.802	70.00- 130.00	100.00
16.450	16.449 (1.144)	120	1572510			0.00- 59.69	29.67
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	4233224	49.1278	49.128	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	2115818			0.00- 30.00	49.98
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	4644065	51.7750	51.775	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	2147933			15.91- 75.91	46.25
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2635950	52.0528	52.053	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	1667744			0.00- 30.00	63.27
17.279	17.279 (1.202)	111	1176226			0.00- 30.00	44.62
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.390	17.389 (1.210)	146	3202278	48.8073	48.807	70.00- 130.00	100.00
17.390	17.389 (1.210)	148	2016328			0.00- 30.00	62.97
17.390	17.389 (1.210)	111	1290380			0.00- 30.00	40.30
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.528 (1.219)	91	3697361	53.4515	53.452	70.00- 130.00	100.00
17.555	17.528 (1.221)	126	738433			0.00- 30.00	19.97
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2667556	47.9000	47.900	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	1662003			33.75- 93.75	62.30
17.749	17.749 (1.235)	111	1197989			17.41- 77.41	44.91

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.132	19.131 (1.331)	180	2077791	46.0352	46.035	70.00- 130.00	100.00
19.132	19.131 (1.331)	182	2004065			65.57- 125.57	96.45
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1399935	46.8722	46.872	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	892409			32.14- 92.14	63.75
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	5876378	54.2955	54.296	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	1431748			0.00- 30.00	24.36
16.311	16.311 (1.135)	105	219570			0.00- 30.00	3.74
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	4948359	50.9787	50.979	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	1365713			0.00- 30.00	27.60
15.786	15.786 (1.098)	51	431766			0.00- 30.00	8.73
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4612207	44.5720	44.572	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	557353			0.00- 30.00	12.08
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1496592	46.0053	46.005	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	315693			0.00- 30.00	21.09
4.726	4.726 (0.663)	57	157278			0.00- 30.00	10.51
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	178120	43.9885	43.988	70.00- 130.00	100.00
2.238	2.238 (0.314)	43	1273347			0.00- 30.00	714.88
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	1039078	47.1936	47.194	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	755676			0.00- 30.00	72.73
2.818	2.818 (0.395)	72	91709			0.00- 30.00	8.83
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	1713934	48.0659	48.066	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	852589			0.00- 30.00	49.74
9.620	9.620 (1.349)	55	1376420			0.00- 30.00	80.31

Report Date: 05-Aug-2008 08:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080416.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv ->50ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	296743	1.45
88 1,4-Difluorobenze	1202703	721622	1683784	1208939	0.52
125 Chlorobenzene-d5	1079897	647938	1511856	1071330	-0.79

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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: 05-Aug-2008 08:55

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-04aug
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: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv ->50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	50.858	101.72	70-130
108 trans-1,3-Dichloro	50.000	47.496	94.99	70-130
3 Propylene	50.000	48.321	96.64	60-140
4 Dichlorodifluorome	50.000	50.770	101.54	70-130
6 Freon 114	50.000	48.935	97.87	70-130
8 Chloromethane	50.000	49.972	99.94	70-130
11 Vinyl Chloride	50.000	48.774	97.55	70-130
10 1,3-Butadiene	50.000	46.936	93.87	60-140
13 Bromomethane	50.000	47.913	95.83	70-130
16 Chloroethane	50.000	51.580	103.16	70-130
18 Trichlorofluoromet	50.000	50.333	100.67	70-130
23 Ethanol	50.000	50.565	101.13	60-140
28 Freon 113	50.000	54.173	108.35	70-130
29 1,1-Dichloroethene	50.000	53.603	107.21	70-130
30 Acetone	50.000	50.815	101.63	60-140
33 Carbon Disulfide	50.000	50.434	100.87	60-140
34 2-Propanol	50.000	51.454	102.91	60-140
40 Methylene Chloride	50.000	51.058	102.12	70-130
43 MTBE	50.000	46.890	93.78	60-140
45 trans-1,2-Dichloro	50.000	49.779	99.56	60-140
46 Hexane	50.000	49.419	98.84	60-140
54 1,1-Dichloroethane	50.000	51.112	102.22	70-130
55 Vinyl Acetate	50.000	48.264	96.53	60-140
64 cis-1,2-Dichloroet	50.000	51.783	103.57	70-130
65 2-Butanone	50.000	44.126	88.25	60-140
67 Tetrahydrofuran	50.000	40.950	81.90	60-140
70 Chloroform	50.000	49.523	99.05	70-130
73 Cyclohexane	50.000	48.321	96.64	60-140
75 1,1,1-Trichloroeth	50.000	49.759	99.52	70-130
77 Carbon Tetrachlori	50.000	50.262	100.53	70-130
81 Benzene	50.000	47.942	95.88	70-130
83 1,2-Dichloroethane	50.000	49.201	98.40	70-130
85 Heptane	50.000	45.870	91.74	60-140

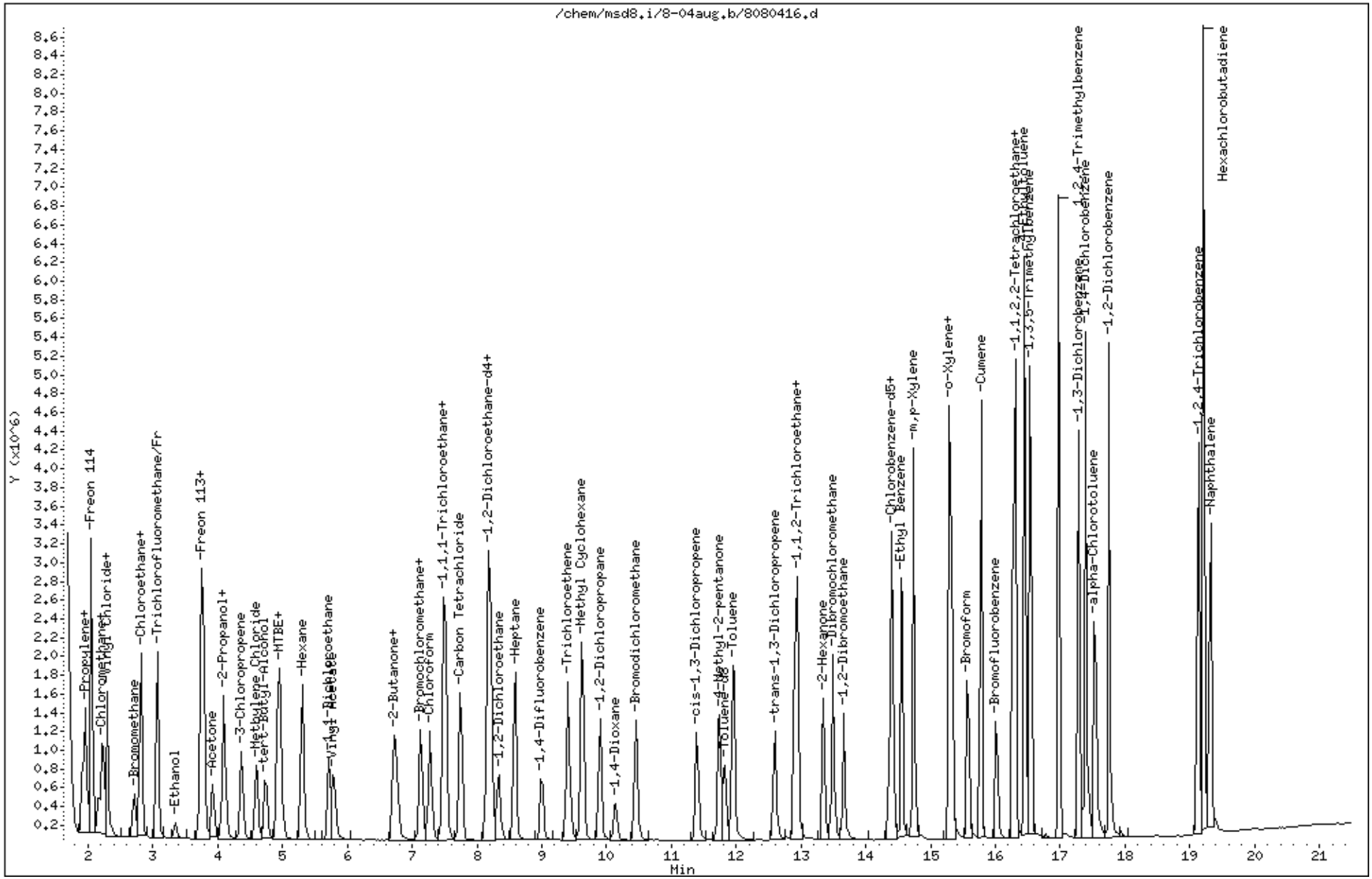
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	50.447	100.89	70-130
97 1,2-Dichloropropan	50.000	49.472	98.94	70-130
98 1,4-Dioxane	50.000	48.001	96.00	60-140
100 Bromodichlorometha	50.000	49.703	99.41	60-140
102 cis-1,3-Dichloropr	50.000	47.705	95.41	70-130
103 4-Methyl-2-pentano	50.000	47.081	94.16	60-140
105 Toluene	50.000	51.464	102.93	70-130
110 1,1,2-Trichloroeth	50.000	48.866	97.73	70-130
112 Tetrachloroethene	50.000	49.458	98.92	70-130
114 2-Hexanone	50.000	48.424	96.85	60-140
116 Dibromochlorometha	50.000	50.406	100.81	60-140
117 1,2-Dibromoethane	50.000	48.058	96.12	70-130
126 Chlorobenzene	50.000	51.208	102.42	70-130
129 Ethyl Benzene	50.000	49.428	98.86	70-130
130 m,p-Xylene	50.000	49.398	98.80	70-130
132 o-Xylene	50.000	51.095	102.19	70-130
135 Bromoform	50.000	52.300	104.60	60-140
144 1,1,2,2-Tetrachlor	50.000	49.476	98.95	70-130
147 4-Ethyltoluene	50.000	54.802	109.60	60-140
148 1,3,5-Trimethylben	50.000	49.128	98.26	70-130
153 1,2,4-Trimethylben	50.000	51.775	103.55	70-130
156 1,3-Dichlorobenzen	50.000	52.053	104.11	70-130
157 1,4-Dichlorobenzen	50.000	48.807	97.61	70-130
158 alpha-Chlorotoluen	50.000	53.452	106.90	70-130
161 1,2-Dichlorobenzen	50.000	47.900	95.80	70-130
167 1,2,4-Trichloroben	50.000	46.035	92.07	70-130
168 Hexachlorobutadien	50.000	46.872	93.74	70-130
137 Cumene	50.000	50.979	101.96	60-140
145 Propylbenzene	50.000	54.296	108.59	60-140
37 3-Chloropropene	50.000	52.959	105.92	60-140
80 2,2,4-Trimethylpen	50.000	49.209	98.42	60-140
169 Naphthalene	50.000	44.572	89.14	60-140
9 Butane	50.000	43.988	87.98	70-130
15 Isopentane	50.000	47.194	94.39	70-130
95 Methyl Cyclohexane	50.000	48.066	96.13	70-130
38 tert-Butyl-Alcohol	50.000	46.005	92.01	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	24.728	98.91	70-130
$ 104 Toluene-d8	25.000	24.896	99.58	70-130
$ 140 Bromofluorobenzene	25.000	26.026	104.11	70-130

Data File: /chem/msd8.i/8-04aug.b/8080416.d
Date : 05-AUG-2008 03:35
Client ID: LCS-1
Sample Info: 50mL #1612-72

Instrument: msd8.i
Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080408.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 04-AUG-2008 23:47
Operator : smd Inst ID: msd8.i
Smp Info : 0.3mL #1612-92
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:46 sdisher Quant Type: ISTD
Cal Date : 04-AUG-2008 23:47 Cal File: 8080408.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.159	7.159 (1.000)	130	355048	25.0000		70.00- 130.00	100.00
7.159	7.159 (1.000)	128	273575			47.98- 107.98	77.05
7.132	7.132 (1.000)	49	483758			106.00- 166.00	136.25
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1415938	25.0000		70.00- 130.00	100.00
9.012	9.012 (1.000)	88	229864			0.00- 46.07	16.23
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1266602	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	701992			0.00- 30.00	55.42
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.210	8.210 (1.147)	65	514897	25.0000	24.407	70.00- 130.00	100.00
8.210	8.210 (1.147)	67	262629			0.00- 30.00	51.01
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1411194	25.0000	24.538	70.00- 130.00	100.00
11.832	11.832 (1.313)	70	144369			0.00- 30.00	10.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	913761			0.00- 30.00	64.75
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	652047	25.0000	24.314	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	971391			118.42- 178.42	148.98
16.035	16.035 (1.115)	176	630019			67.67- 127.67	96.62
70 Chloroform					CAS #: 67-66-3		
7.297	7.297 (1.019)	83	13160	0.30000	0.3224	70.00- 130.00	100.00(a)
7.297	7.297 (1.019)	85	10509			34.57- 94.57	79.86
81 Benzene					CAS #: 71-43-2		
8.182	8.182 (0.908)	78	21835	0.30000	0.3509	70.00- 130.00	100.00(a)
8.182	8.182 (0.908)	77	5723			0.00- 30.00	26.21
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	18711	0.30000	0.3171	70.00- 130.00	100.00(a)
15.343	15.343 (1.067)	78	10009			20.90- 80.90	53.49
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	39356	0.30000	0.3429	70.00- 130.00	100.00(a)
15.786	15.786 (1.098)	120	9340			0.00- 30.00	23.73
15.786	15.786 (1.098)	51	5122			0.00- 30.00	13.01
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	14273	0.30000	0.3642	70.00- 130.00	100.00(a)
13.657	13.657 (0.950)	109	12354			63.34- 123.34	86.56
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.320)	54	6022	0.30000	0.3681	70.00- 130.00	100.00(a)
2.182	2.182 (0.305)	39	50238			0.00- 30.00	834.24
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	33625	0.30000	0.3301	70.00- 130.00	100.00(a)
16.560	16.560 (1.152)	120	14967			0.00- 30.00	44.51
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	34166	0.30000	0.3222	70.00- 130.00	100.00(a)
16.975	16.975 (1.181)	120	17006			15.91- 75.91	49.77

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: msd8.i
Lab File ID: 8080408.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	355048	21.38
88 1,4-Difluorobenze	1202703	721622	1683784	1415938	17.73
125 Chlorobenzene-d5	1079897	647938	1511856	1266602	17.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.16	0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-04aug.b/8080408.d

Date : 04-AUG-2008 23:47

Client ID: Level 1

Sample Info: 0.3mL #1612-92

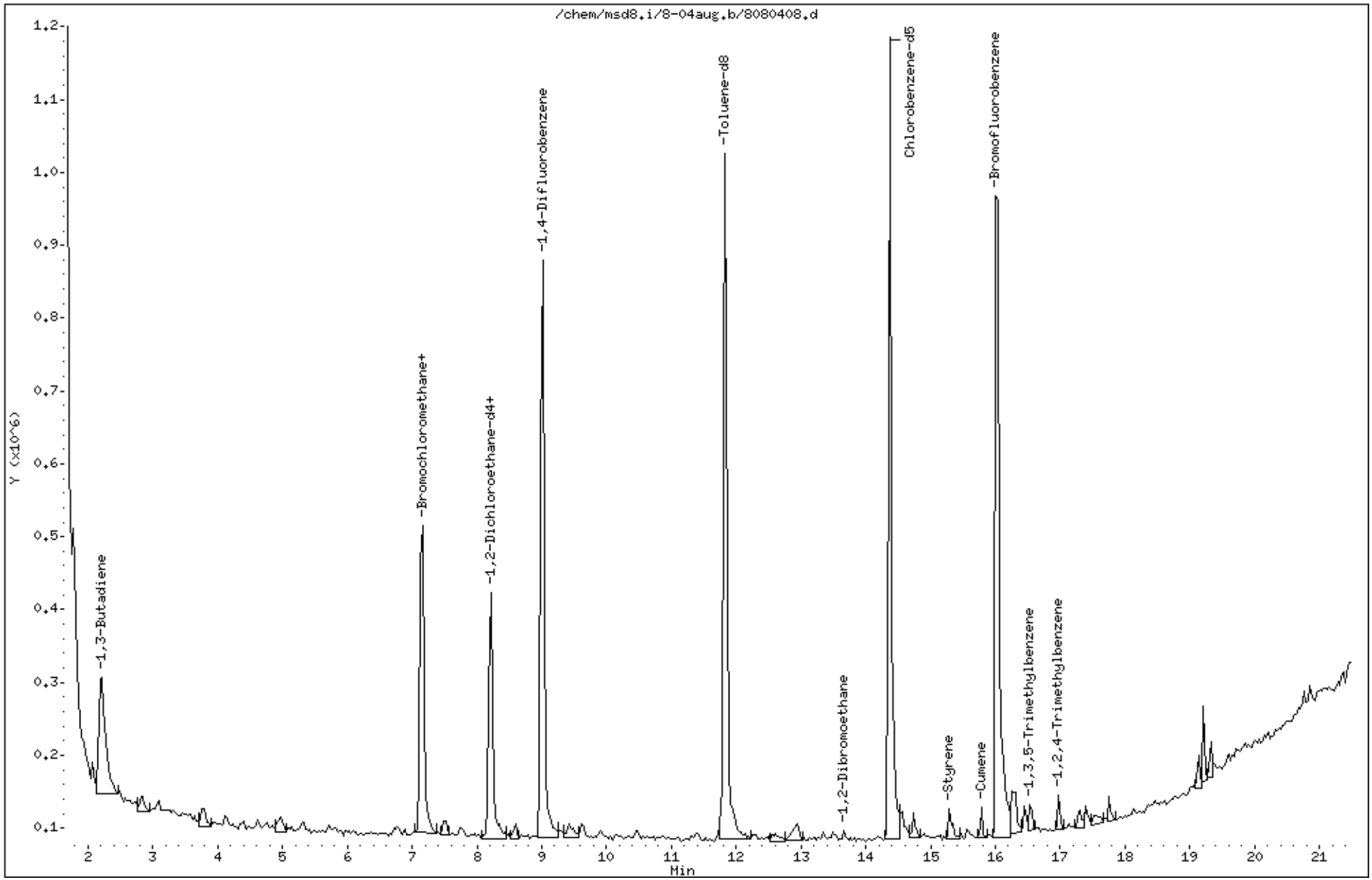
Column phase: RTx-624

Instrument: msd8.i

Operator: smd

Column diameter: 0.53

0078



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080409.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 05-AUG-2008 00:15
Operator : smd Inst ID: msd8.i
Smp Info : 0.5mL #1612-92
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:46 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 00:15 Cal File: 8080409.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Low.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.131	7.131 (1.000)	130	297407	25.0000		70.00- 130.00	100.00
	7.131	7.131 (1.000)	128	227805			47.98- 107.98	76.60
	7.131	7.131 (1.000)	49	405739			106.00- 166.00	136.43
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.012	9.012 (1.000)	114	1189881	25.0000		70.00- 130.00	100.00
	8.984	8.984 (1.000)	88	196599			0.00- 46.07	16.52
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.376	14.376 (1.000)	117	1099904	25.0000		70.00- 130.00	100.00
	14.376	14.376 (1.000)	82	601791			0.00- 30.00	54.71
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.210	8.210 (1.151)	65	428024	25.0000	24.222	70.00- 130.00	100.00
	8.210	8.210 (1.151)	67	215918			0.00- 30.00	50.45
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.832	11.832 (1.313)	98	1209261	25.0000	25.021	70.00- 130.00	100.00
	11.832	11.832 (1.313)	70	127763			0.00- 30.00	10.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	786797			0.00- 30.00	65.06
$ 140 Bromofluorobenzene						CAS #: 460-00-4	
16.035	16.035 (1.115)	174	575344	25.0000	24.705	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	868706			118.42- 178.42	150.99
16.035	16.035 (1.115)	176	542938			67.67- 127.67	94.37
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
1.961	1.961 (0.275)	85	24400	0.50000	0.5219	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	8170			0.00- 30.00	33.48
6 Freon 114						CAS #: 76-14-2	
2.044	2.044 (0.287)	135	18396	0.50000	0.5498	70.00- 130.00	100.00
2.044	2.044 (0.287)	137	7345			1.42- 61.42	39.93
11 Vinyl Chloride						CAS #: 75-01-4	
2.293	2.293 (0.322)	62	10999	0.50000	0.5998	70.00- 130.00	100.00
2.320	2.320 (0.325)	64	4381			0.00- 30.00	39.83
10 1,3-Butadiene						CAS #: 106-99-0	
2.293	2.293 (0.322)	54	6727	0.50000	0.4908	70.00- 130.00	100.00(a)
2.293	2.293 (0.322)	39	5519			0.00- 30.00	82.04
13 Bromomethane						CAS #: 74-83-9	
2.708	2.708 (0.380)	94	9452	0.50000	0.7046	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	8462			66.53- 126.53	89.53
16 Chloroethane						CAS #: 75-00-3	
2.790	2.790 (0.391)	64	4734	0.50000	0.5225	70.00- 130.00	100.00
2.818	2.818 (0.395)	49	3356			0.00- 30.00	70.89
2.818	2.818 (0.395)	66	2218			0.00- 30.00	46.85
18 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.067	3.067 (0.430)	101	25203	0.50000	0.5103	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	17215			34.28- 94.28	68.31
28 Freon 113						CAS #: 76-13-1	
3.758	3.758 (0.527)	151	17093	0.50000	0.6058	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	10307			34.49- 94.49	60.30
3.758	3.758 (0.527)	101	20669			92.46- 152.46	120.92
29 1,1-Dichloroethene						CAS #: 75-35-4	
3.786	3.786 (0.531)	61	17505	0.50000	0.6059	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	9144			29.64- 89.64	52.24
3.786	3.786 (0.531)	98	5794			7.66- 67.66	33.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	24145	0.50000	0.5097	70.00- 130.00	100.00
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	12724	0.50000	0.6459	70.00- 130.00	100.00
4.615	4.615 (0.647)	84	12278			46.03- 106.03	96.49
4.588	4.588 (0.643)	51	4155			0.00- 30.00	32.65
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.694)	73	30827	0.50000	0.5999	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	8243			0.00- 52.36	26.74
4.919	4.919 (0.690)	41	14197			0.00- 30.00	46.05
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	10722	0.50000	0.5673	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	13688			117.81- 177.81	127.66
4.975	4.975 (0.698)	98	6465			0.00- 30.00	60.30
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	17029	0.50000	0.5694	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	9277			0.00- 30.00	54.48
5.334	5.334 (0.748)	86	5842			0.00- 30.00	34.31
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	17688	0.50000	0.5566	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	6700			1.12- 61.12	37.88
65 2-Butanone					CAS #: 78-93-3		
6.800	6.800 (0.953)	72	7968	0.50000	0.8199	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	20073			352.72- 412.72	251.92
6.800	6.800 (0.953)	57	4096			0.00- 30.00	51.41
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	11939	0.50000	0.5103	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	8291			44.78- 104.78	69.44
6.717	6.717 (0.942)	98	8389			17.70- 77.70	70.27
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	20937	0.50000	0.8838	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	7621			7.84- 67.84	36.40
7.131	7.131 (1.000)	72	10066			0.00- 30.00	48.08
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	18617	0.50000	0.5445	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	11717			34.57- 94.57	62.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	22043	0.50000	0.5601	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	16832			34.20- 94.20	76.36
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	17241	0.50000	0.6418	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	16839			86.25- 146.25	97.67
7.463	7.463 (1.047)	41	17779			33.52- 93.52	103.12
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	19291	0.50000	0.5178	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	21022			73.55- 133.55	108.97
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	27527	0.50000	0.5265	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	5622			0.00- 30.00	20.42
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	14630	0.50000	0.5900	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	6345			0.00- 30.00	43.37
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	4470	0.50000	0.6609	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	19878			0.00- 30.00	444.70
8.597	8.597 (0.954)	71	11311			0.00- 30.00	253.04
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	12270	0.50000	0.5553	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	16318			74.03- 134.03	132.99
9.399	9.399 (1.043)	97	7620			33.83- 93.83	62.10
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	10118	0.50000	0.5522	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	8248			40.79- 100.79	81.52
9.896	9.896 (1.098)	41	9057			29.63- 89.63	89.51
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	19226	0.50000	0.5669	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	14144			33.28- 93.28	73.57
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	17888	0.50000	0.6226	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	5152			1.43- 61.43	28.80
11.389	11.389 (1.264)	39	6245			19.82- 79.82	34.91
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	10348	0.50000	0.6041	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 4-Methyl-2-pentanone (continued)							
11.749	11.749 (1.304)	43	33499			0.00- 30.00	323.72
11.749	11.749 (1.304)	85	4553			0.00- 30.00	44.00
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	34539	0.50000	0.5610	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	21027			30.55- 90.55	60.88
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	19916	0.50000	0.6424	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	4671			1.82- 61.82	23.45
12.606	12.606 (0.877)	39	8961			16.70- 76.70	44.99
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	13942	0.50000	0.6360	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	8713			31.05- 91.05	62.49
12.910	12.910 (0.898)	83	11921			49.24- 109.24	85.50
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	15866	0.50000	0.6000	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	10015			53.94- 113.94	63.12
12.938	12.938 (0.900)	131	11792			49.66- 109.66	74.32
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	9313	0.50000	0.4030	70.00- 130.00	100.00(a)
13.353	13.353 (0.929)	43	17932			146.80- 206.80	192.55
13.353	13.353 (0.929)	100	4875			0.00- 30.00	52.35
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	18240	0.50000	0.5415	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	14346			0.00- 30.00	78.65
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	16721	0.50000	0.4914	70.00- 130.00	100.00(a)
13.657	13.657 (0.950)	109	15855			63.34- 123.34	94.82
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	27076	0.50000	0.5134	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	8597			1.67- 61.67	31.75
14.403	14.403 (1.002)	77	23829			28.04- 88.04	88.01
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	15860	0.50000	0.5804	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	47722			0.00- 30.00	300.90
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	16080	0.50000	0.4617	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
14.735	14.735 (1.025)	91	39492			0.00- 30.00	245.60
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	17714	0.50000	0.5229	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	37383			188.03- 248.03	211.04
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	25814	0.50000	0.5037	70.00- 130.00	100.00
15.343	15.343 (1.067)	78	14266			20.90- 80.90	55.26
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	13399	0.50000	0.4964	70.00- 130.00	100.00(a)
15.592	15.592 (1.085)	171	6423			20.98- 80.98	47.94
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	25935	0.50000	0.5696	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	16152			34.03- 94.03	62.28
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	46025	0.50000	0.4635	70.00- 130.00	100.00(a)
16.449	16.449 (1.144)	120	16470			0.00- 59.69	35.78
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	47402	0.50000	0.5358	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	21182			0.00- 30.00	44.69
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	46956	0.50000	0.5099	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	22004			15.91- 75.91	46.86
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.306	17.306 (1.204)	146	26402	0.50000	0.5078	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	15573			0.00- 30.00	58.98
17.279	17.279 (1.202)	111	11563			0.00- 30.00	43.80
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	34947	0.50000	0.5188	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	24374			0.00- 30.00	69.75
17.389	17.389 (1.210)	111	17033			0.00- 30.00	48.74
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	29297	0.50000	0.4125	70.00- 130.00	100.00(a)
17.555	17.555 (1.221)	126	8006			0.00- 30.00	27.33
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	33938	0.50000	0.5936	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene (continued)							
17.749	17.749 (1.235)	148	16888			33.75- 93.75	49.76
17.749	17.749 (1.235)	111	13713			17.41- 77.41	40.41
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	49882	0.50000	0.5005	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	15075			0.00- 30.00	30.22
15.786	15.786 (1.098)	51	6028			0.00- 30.00	12.08
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	54262	0.50000	0.4883	70.00- 130.00	100.00(a)
16.311	16.311 (1.135)	120	14103			0.00- 30.00	25.99
16.311	16.311 (1.135)	105	2601			0.00- 30.00	4.79
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	51725	0.50000	0.5580	70.00- 130.00	100.00
8.182	8.182 (1.147)	56	16279			0.00- 30.00	31.47
8.182	8.182 (1.147)	41	17796			0.00- 30.00	34.41
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	21865	0.50000	0.6118	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	10735			0.00- 30.00	49.10
9.620	9.620 (1.349)	55	21200			0.00- 30.00	96.96

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: msd8.i
Lab File ID: 8080409.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	297407	1.68
88 1,4-Difluorobenze	1202703	721622	1683784	1189881	-1.07
125 Chlorobenzene-d5	1079897	647938	1511856	1099904	1.85

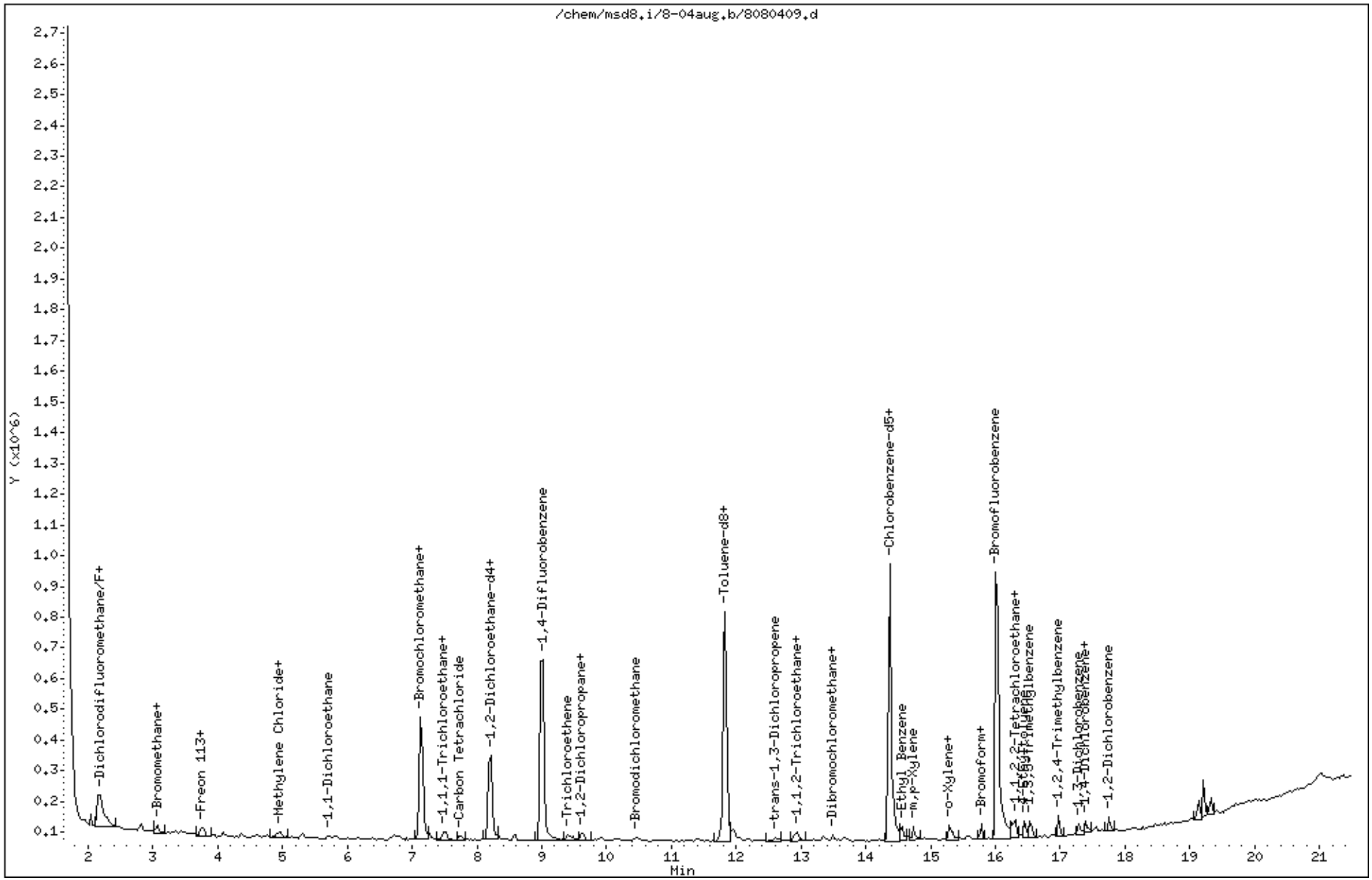
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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.

0087

Data File: /chem/msd8.i/8-04aug.b/8080409.d
Date : 05-AUG-2008 00:15
Client ID: Level 2
Sample Info: 0.5mL #1612-92

Instrument: msd8.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-18aug.b/8081802.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 18-AUG-2008 10:26
Operator : smd Inst ID: msd8.i
Smp Info : 2.0mL #1541-242
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-18aug.b/t14q804c.m
Meth Date : 18-Aug-2008 16:07 sdisher Quant Type: ISTD
Cal Date : 18-AUG-2008 10:26 Cal File: 8081802.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane						CAS #: 74-97-5		
7.159	7.159 (1.000)	130	324764	25.0000		70.00- 130.00		100.00
7.159	7.159 (1.000)	128	244629			45.93- 105.93		75.33
7.159	7.159 (1.000)	49	429252			102.11- 162.11		132.17
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1154104	25.0000		70.00- 130.00		100.00
9.012	9.012 (1.000)	88	174082			0.00- 45.43		15.08
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	911721	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	482087			0.00- 30.00		52.88
7 Isobutane						CAS #: 75-28-5		
2.099	2.099 (0.293)	43	114769	2.00000	2.548	70.00- 130.00		100.00
2.099	2.099 (0.293)	42	36163			0.00- 30.00		31.51
2.099	2.099 (0.293)	58	4541			0.00- 30.00		3.96
19 Pentane						CAS #: 109-66-0		
3.150	3.150 (0.440)	43	141821	2.00000	2.635	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.440)	57	23347			0.00- 30.00	16.46
3.150	3.150 (0.440)	72	16729			0.00- 30.00	11.80
25 Acrolein					CAS #: 107-02-8		
3.731	3.731 (0.521)	55	21565	2.00000	2.549	70.00- 130.00	100.00
3.731	3.731 (0.521)	56	30974			0.00- 30.00	143.63
35 Acetonitrile					CAS #: 75-05-8		
4.477	4.477 (0.625)	40	33916	2.00000	2.793	70.00- 130.00	100.00
4.477	4.477 (0.625)	41	56400			0.00- 30.00	166.29
4.477	4.477 (0.625)	38	8984			0.00- 30.00	26.49
41 Acrylonitrile					CAS #: 107-13-1		
5.113	5.113 (0.714)	53	56379	2.00000	2.497	70.00- 130.00	100.00
5.113	5.113 (0.714)	52	52337			0.00- 30.00	92.83
44 1-Pentene					CAS #: 109-67-1		
3.095	3.095 (0.432)	55	79072	2.00000	2.584	70.00- 130.00	100.00(T)
3.095	3.095 (0.432)	42	87950			0.00- 30.00	111.23
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.454	3.454 (0.482)	74	39728	2.00000	2.602	70.00- 130.00	100.00(T)
3.454	3.454 (0.482)	59	51780			0.00- 30.00	130.34
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.062	4.062 (0.567)	142	65635	2.00000	1.386	70.00- 130.00	100.00(a)
4.062	4.062 (0.567)	127	24470			0.00- 30.00	37.28
62 1-Hexene					CAS #: 592-41-6		
5.224	5.224 (0.730)	55	48704	2.00000	2.561	70.00- 130.00	100.00
5.224	5.224 (0.730)	41	60493			0.00- 30.00	124.21
5.224	5.224 (0.730)	84	21011			0.00- 30.00	43.14
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.965)	55	96482	2.00000	2.312	70.00- 130.00	100.00
6.938	6.938 (0.969)	85	14717			0.00- 30.00	15.25
6.938	6.938 (0.969)	58	8619			0.00- 30.00	8.93
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.129)	41	57452	2.00000	2.179	70.00- 130.00	100.00
10.173	10.173 (1.129)	69	50839			0.00- 30.00	88.49
10.173	10.173 (1.129)	100	17831			0.00- 30.00	31.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.896	9.896 (1.098)	43	115449	2.00000	2.239	70.00- 130.00	100.00
9.896	9.896 (1.098)	58	9623			0.00- 30.00	8.34
9.896	9.896 (1.098)	86	23134			0.00- 30.00	20.04
93 Ethyl Acrylate					CAS #: 140-88-5		
9.730	9.730 (1.080)	55	102602	2.00000	2.281	70.00- 130.00	100.00
9.730	9.730 (1.080)	99	7669			0.00- 30.00	7.47
9.730	9.730 (1.080)	45	9436			0.00- 30.00	9.20
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.126)	174	65339	2.00000	2.581	70.00- 130.00	100.00
10.145	10.145 (1.126)	93	63078			0.00- 30.00	96.54
10.145	10.145 (1.126)	95	55235			0.00- 30.00	84.54
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.366	16.366 (1.138)	89	7327	2.00000	2.164	70.00- 130.00	100.00
16.366	16.366 (1.138)	53	11223			0.00- 30.00	153.17
16.366	16.366 (1.138)	124	3163			0.00- 30.00	43.17
121 Alphamethylstyrene					CAS #: 98-83-9		
16.836	16.836 (1.171)	118	64762	2.00000	1.843	70.00- 130.00	100.00(a)
16.836	16.836 (1.171)	103	40873			0.00- 30.00	63.11
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	104561	2.00000	2.135	70.00- 130.00	100.00
17.279	17.279 (1.202)	95	37282			0.00- 30.00	35.66
17.279	17.279 (1.202)	63	68954			0.00- 30.00	65.95
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	113517	2.00000	2.439	70.00- 130.00	100.00
14.763	14.763 (1.027)	57	110291			0.00- 30.00	97.16
14.763	14.763 (1.027)	85	41904			0.00- 30.00	36.91
199 Cyclopentane					CAS #: 287-92-3		
4.588	4.588 (0.641)	70	44724	2.00000	2.479	70.00- 130.00	100.00
4.588	4.588 (0.641)	55	58053			0.00- 30.00	129.80

QC Flag Legend

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

Report Date: 18-Aug-2008 16:07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8081802.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-18aug.b/t14q804c.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 18-AUG-2008
Calibration Time: 13:05
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	278576	167146	390006	324764	16.58
88 1,4-Difluorobenze	1009446	605668	1413224	1154104	14.33
125 Chlorobenzene-d5	798569	479141	1117997	911721	14.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.16	0.39
88 1,4-Difluorobenze	8.98	8.65	9.31	9.01	0.31
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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

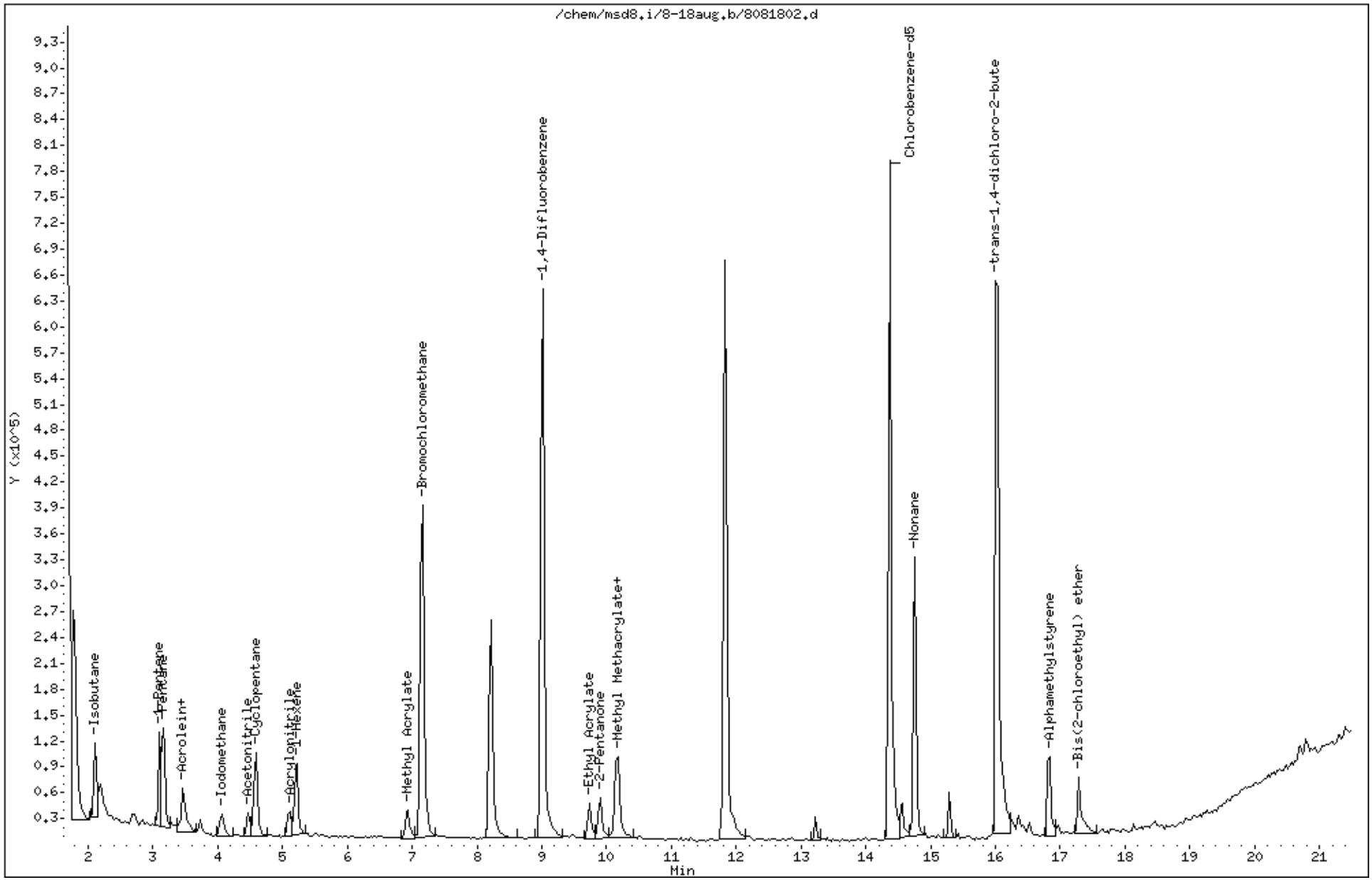
0092

Data File: /chem/msd8.i/8-18aug.b/8081802.d
Date : 18-AUG-2008 10:26
Client ID: Level 3
Sample Info: 2.0mL #1541-242

Column phase: RTx-624

Instrument: msd8.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-06aug.b/8080605.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 06-AUG-2008 11:39
Operator : smd Inst ID: msd8.i
Smp Info : 2.0mL #1612-99
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-06aug.b/t14q804b.m
Meth Date : 06-Aug-2008 15:10 cleonard Quant Type: ISTD
Cal Date : 06-AUG-2008 11:39 Cal File: 8080605.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.131	7.131 (1.000)	130	281872	25.0000		70.00- 130.00		100.00
7.131	7.131 (1.000)	128	209258			48.71- 108.71		74.24
7.131	7.131 (1.000)	49	375104			99.17- 159.17		133.08
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
8.984	8.984 (1.000)	114	1151230	25.0000		70.00- 130.00		100.00
8.984	8.984 (1.000)	88	181350			0.00- 46.61		15.75
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	1000856	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	555174			0.00- 30.00		55.47
1 Freon 152a					CAS #: 75-37-6			
1.906	1.906 (0.267)	65	29581	2.00000	2.653	70.00- 130.00		100.00
1.850	1.850 (0.259)	51	8057			0.00- 30.00		27.24
2 Freon 22					CAS #: 75-45-6			
1.961	1.961 (0.275)	67	12805	2.00000	2.595	70.00- 130.00		100.00
1.961	1.961 (0.275)	51	117035			0.00- 30.00		913.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.850	1.850 (0.259)	83	53645	2.00000	2.686	70.00- 130.00	100.00
1.795	1.795 (0.252)	69	165023			0.00- 30.00	307.62
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.039	3.039 (0.426)	67	75109	2.00000	2.496	70.00- 130.00	100.00(T)
3.039	3.039 (0.426)	69	26157			0.00- 30.00	34.83
0.000	1.000 (0.000)	35	0			0.00- 30.00	0.00
20 Freon123a					CAS #: 354-23-4		
3.509	3.509 (0.492)	67	51219	2.00000	2.453	70.00- 130.00	100.00
3.537	3.537 (0.496)	117	43505			0.00- 30.00	84.94
21 Freon123					CAS #: 306-83-2		
3.620	3.620 (0.508)	83	71993	2.00000	2.513	70.00- 130.00	100.00
3.620	3.620 (0.508)	133	17384			0.00- 30.00	24.15
3.620	3.620 (0.508)	85	47240			0.00- 30.00	65.62
27 Freon142b					CAS #: 75-68-3		
2.127	2.127 (0.298)	65	95453	2.00000	2.563	70.00- 130.00	100.00
2.127	2.127 (0.298)	45	26691			0.00- 30.00	27.96
32 Freon143a					CAS #: 420-46-2		
1.823	1.823 (0.256)	65	19016	2.00000	2.581	70.00- 130.00	100.00
1.795	1.795 (0.252)	69	175110			0.00- 30.00	920.86
49 Isopropyl ether					CAS #: 108-20-3		
5.721	5.721 (0.802)	45	154766	2.00000	2.540	70.00- 130.00	100.00
5.721	5.721 (0.802)	87	45088			0.00- 30.00	29.13
5.721	5.721 (0.802)	59	17135			0.00- 30.00	11.07
52 1-Propanol					CAS #: 71-23-8		
5.915	5.915 (0.829)	42	7821	2.00000	2.705	70.00- 130.00	100.00
5.942	5.942 (0.833)	59	8699			0.00- 30.00	111.23
5.915	5.915 (0.829)	41	3438			0.00- 30.00	43.96
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.330	6.330 (0.888)	59	144978	2.00000	2.614	70.00- 130.00	100.00
6.330	6.330 (0.888)	87	59178			0.00- 30.00	40.82
6.330	6.330 (0.888)	41	27970			0.00- 30.00	19.29
61 Ethyl Acetate					CAS #: 141-78-6		
6.827	6.827 (0.957)	70	12911	2.00000	2.709	70.00- 130.00	100.00
6.827	6.827 (0.957)	45	16485			0.00- 30.00	127.68
6.827	6.827 (0.957)	61	13695			0.00- 30.00	106.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Isobutanol					CAS #: 78-83-1		
8.182	8.182 (0.911)	43	33845	2.00000	2.383	70.00- 130.00	100.00
8.182	8.182 (0.911)	41	24873			0.00- 30.00	73.49
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.376	8.376 (1.174)	73	127228	2.00000	2.579	70.00- 130.00	100.00
8.376	8.376 (1.174)	87	31993			0.00- 30.00	25.15
8.376	8.376 (1.174)	55	34430			0.00- 30.00	27.06
89 1-Butanol					CAS #: 71-36-3		
9.454	9.454 (1.052)	56	39751	2.00000	2.636	70.00- 130.00	100.00
9.454	9.454 (1.052)	41	24473			0.00- 30.00	61.57
9.454	9.454 (1.052)	43	19423			0.00- 30.00	48.86
113 Butyl Acetate					CAS #: 123-86-4		
13.546	13.546 (1.508)	56	40788	2.00000	2.145	70.00- 130.00	100.00
13.574	13.574 (1.511)	73	21084			0.00- 30.00	51.69
13.546	13.546 (1.508)	43	93103			0.00- 30.00	228.26
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.753	16.753 (1.165)	57	116530	2.00000	2.201	70.00- 130.00	100.00
16.753	16.753 (1.165)	85	101960			56.48- 116.48	87.50
133 2-Heptanone					CAS #: 110-43-0		
15.564	15.564 (1.083)	58	53252	2.00000	2.011	70.00- 130.00	100.00
15.564	15.564 (1.083)	43	72040			0.00- 30.00	135.28
136 Cyclohexanone					CAS #: 108-94-1		
15.952	15.952 (1.110)	55	52386	2.00000	2.333	70.00- 130.00	100.00
15.952	15.952 (1.110)	98	25377			0.00- 30.00	48.44
15.952	15.952 (1.110)	42	34105			0.00- 30.00	65.10
36 Cyclopentene					CAS #: 142-29-0		
4.394	4.394 (0.616)	67	105885	2.00000	2.520	70.00- 130.00	100.00
4.394	4.394 (0.616)	68	39631			0.00- 30.00	37.43
4.394	4.394 (0.616)	53	22661			0.00- 30.00	21.40
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.661	6.661 (0.934)	77	80636	2.00000	2.434	70.00- 130.00	100.00
6.661	6.661 (0.934)	79	26238			1.92- 61.92	32.54
6.661	6.661 (0.934)	97	15281			0.00- 30.00	18.95
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.823	7.823 (1.097)	110	24344	2.00000	2.528	70.00- 130.00	100.00
7.823	7.823 (1.097)	75	68816			0.00- 30.00	282.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.468)	76	79134	2.00000	2.552	70.00- 130.00	100.00
13.187	13.187 (1.468)	41	49971			32.54- 92.54	63.15
13.187	13.187 (1.468)	78	26199			0.00- 30.00	33.11
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	60818	2.00000	2.454	70.00- 130.00	100.00
14.569	14.569 (1.013)	117	53317			0.00- 30.00	87.67
14.569	14.569 (1.013)	95	24357			0.00- 30.00	40.05
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	78563	2.00000	2.510	70.00- 130.00	100.00
16.173	16.173 (1.125)	77	119151			122.09- 182.09	151.66
16.173	16.173 (1.125)	158	78525			0.00- 30.00	99.95
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	39031	2.00000	2.553	70.00- 130.00	100.00
16.311	16.311 (1.135)	61	25583			0.00- 30.00	65.55
16.311	16.311 (1.135)	112	23136			0.00- 30.00	59.28
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	62063	2.00000	2.447	70.00- 130.00	100.00
16.422	16.422 (1.142)	91	181682			259.64- 319.64	292.74
16.422	16.422 (1.142)	65	18595			0.00- 30.00	29.96
146 4-Chlorotoluene					CAS #: 106-43-4		
16.587	16.587 (1.154)	126	58584	2.00000	2.526	70.00- 130.00	100.00
16.560	16.560 (1.152)	91	187125			308.92- 368.92	319.41
16.560	16.560 (1.152)	63	26849			0.00- 30.00	45.83
150 tert-Butylbenzene					CAS #: 98-06-6		
16.919	16.919 (1.177)	119	260857	2.00000	2.498	70.00- 130.00	100.00
16.919	16.919 (1.177)	134	61198			0.00- 51.99	23.46
16.892	16.892 (1.175)	91	137514			0.00- 30.00	52.72
151 Pentachloroethane					CAS #: 76-01-7		
16.975	16.975 (1.181)	167	46520	2.00000	2.295	70.00- 130.00	100.00
16.947	16.947 (1.179)	117	56246			0.00- 30.00	120.91
152 sec-Butylbenzene					CAS #: 135-98-8		
17.140	17.140 (1.192)	105	289548	2.00000	2.477	70.00- 130.00	100.00
17.168	17.168 (1.194)	134	58643			0.00- 48.83	20.25
17.140	17.140 (1.192)	91	47427			0.00- 30.00	16.38
154 p-Cymene					CAS #: 99-87-6		
17.306	17.306 (1.204)	134	66442	2.00000	2.364	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.306	17.306 (1.204)	119	278031			401.22- 461.22	418.46
17.306	17.306 (1.204)	91	66746			0.00- 30.00	100.46
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	89778	2.00000	2.364	70.00- 130.00	100.00
17.417	17.417 (1.212)	105	212615			206.70- 266.70	236.82
17.417	17.417 (1.212)	77	26051			0.00- 30.00	29.02
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	62945	2.00000	2.254	70.00- 130.00	100.00
17.721	17.721 (1.233)	91	220700			298.26- 358.26	350.62
17.721	17.721 (1.233)	92	119706			0.00- 30.00	190.18
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	60596	2.00000	2.282	70.00- 130.00	100.00
18.468	18.468 (1.285)	75	69586			79.13- 139.13	114.84
18.468	18.468 (1.285)	155	48590			0.00- 30.00	80.19

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080605.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-06aug.b/t14q804b.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 06-AUG-2008
Calibration Time: 09:25
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	344402	206641	482163	281872	-18.16
88 1,4-Difluorobenze	1422031	853219	1990843	1151230	-19.04
125 Chlorobenzene-d5	1295803	777482	1814124	1000856	-22.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.39
88 1,4-Difluorobenze	9.01	8.68	9.34	8.98	-0.31
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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.

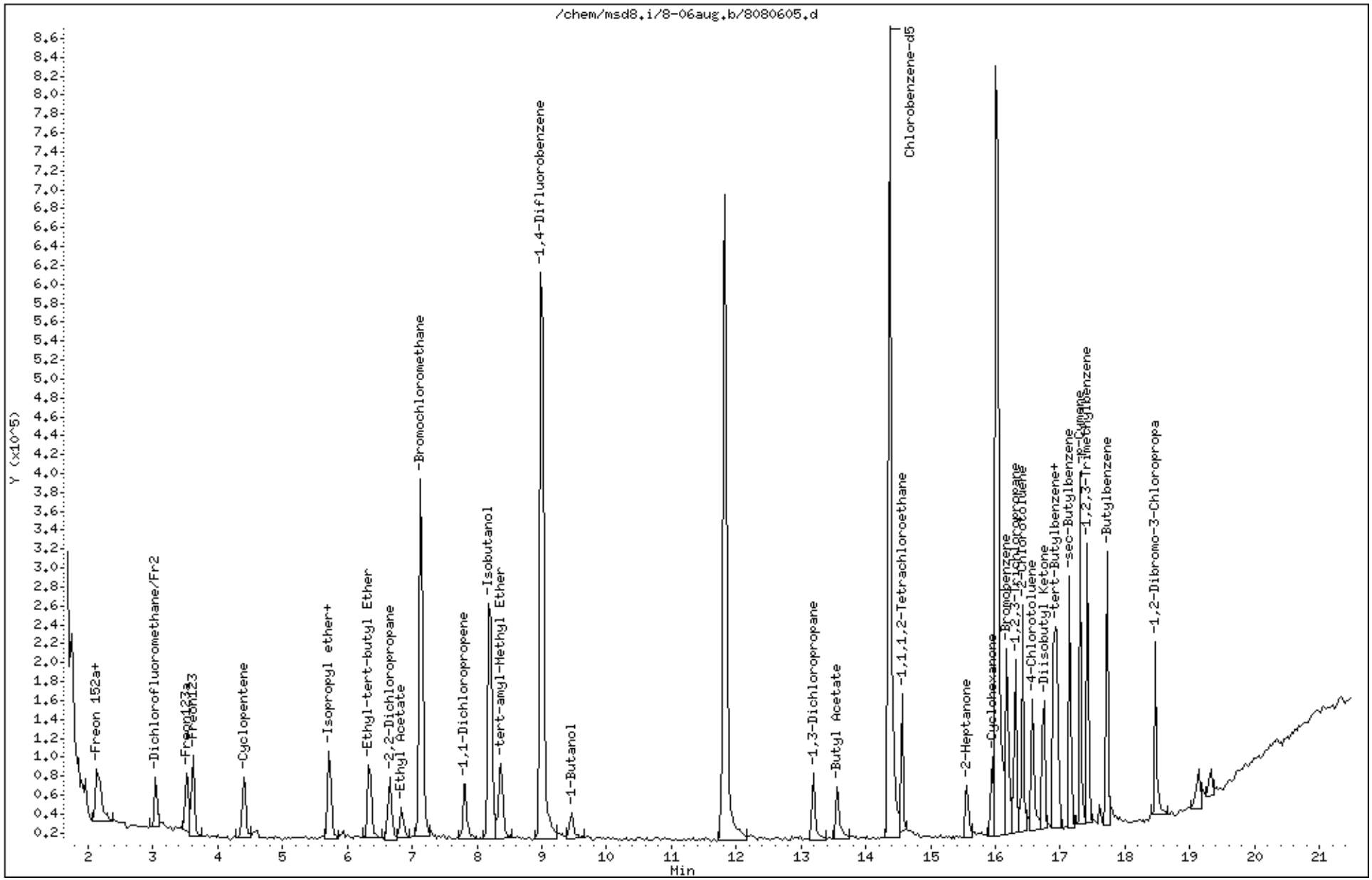
0099

Data File: /chem/msd8.i/8-06aug.b/8080605.d
Date : 06-AUG-2008 11:39
Client ID: Level 3
Sample Info: 2.0mL #1612-99

Instrument: msd8.i

Operator: smd

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080410.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 05-AUG-2008 00:43
Operator : smd Inst ID: msd8.i
Smp Info : 2.0mL #1612-92
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:46 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 00:43 Cal File: 8080410.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.131	7.131 (1.000)	130	293712	25.0000		70.00- 130.00	100.00
	7.131	7.131 (1.000)	128	233203			47.98- 107.98	79.40
	7.131	7.131 (1.000)	49	405477			106.00- 166.00	138.05
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.012	9.012 (1.000)	114	1200443	25.0000		70.00- 130.00	100.00
	8.984	8.984 (1.000)	88	197338			0.00- 46.07	16.44
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.376	14.376 (1.000)	117	1078578	25.0000		70.00- 130.00	100.00
	14.376	14.376 (1.000)	82	607526			0.00- 30.00	56.33
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.210	8.210 (1.151)	65	421848	25.0000	24.172	70.00- 130.00	100.00
	8.210	8.210 (1.151)	67	212844			0.00- 30.00	50.46
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.832	11.832 (1.313)	98	1211053	25.0000	24.838	70.00- 130.00	100.00
	11.832	11.832 (1.313)	70	127708			0.00- 30.00	10.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	795940			0.00- 30.00	65.72
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	567454	25.0000	24.848	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	834372			118.42- 178.42	147.04
16.035	16.035 (1.115)	176	557925			67.67- 127.67	98.32
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	38463	2.00000	2.902	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	26888			0.00- 30.00	69.91
1.906	1.906 (0.267)	39	28878			0.00- 30.00	75.08
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	94061	2.00000	2.037	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	30878			0.00- 30.00	32.83
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	65900	2.00000	1.994	70.00- 130.00	100.00
2.044	2.044 (0.287)	137	23861			1.42- 61.42	36.21
8 Chloromethane					CAS #: 74-87-3		
2.154	2.154 (0.302)	50	32632	2.00000	2.314	70.00- 130.00	100.00
2.154	2.154 (0.302)	52	15405			0.00- 30.00	47.21
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.314)	58	11224	2.00000	2.800	70.00- 130.00	100.00
2.237	2.237 (0.314)	43	96669			0.00- 30.00	861.27
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.321)	62	35540	2.00000	1.962	70.00- 130.00	100.00
2.293	2.293 (0.321)	64	13265			0.00- 30.00	37.32
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.321)	54	26595	2.00000	1.965	70.00- 130.00	100.00
2.293	2.293 (0.321)	39	19192			0.00- 30.00	72.16
13 Bromomethane					CAS #: 74-83-9		
2.707	2.707 (0.380)	94	21056	2.00000	1.589	70.00- 130.00	100.00
2.707	2.707 (0.380)	96	22932			66.53- 126.53	108.91
16 Chloroethane					CAS #: 75-00-3		
2.790	2.790 (0.391)	64	15811	2.00000	1.767	70.00- 130.00	100.00
2.818	2.818 (0.395)	49	6859			0.00- 30.00	43.38
2.790	2.790 (0.391)	66	7045			0.00- 30.00	44.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	52791	2.00000	2.422	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	32802			0.00- 30.00	62.14
2.818	2.818 (0.395)	72	5406			0.00- 30.00	10.24
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	101701	2.00000	2.085	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	65011			34.28- 94.28	63.92
23 Ethanol					CAS #: 64-17-5		
3.343	3.343 (0.469)	45	15485	2.00000	2.524	70.00- 130.00	100.00
3.343	3.343 (0.469)	43	8402			0.00- 30.00	54.26
3.343	3.343 (0.469)	46	4624			0.00- 30.00	29.86
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	57776	2.00000	2.074	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	35367			34.49- 94.49	61.21
3.758	3.758 (0.527)	101	69349			92.46- 152.46	120.03
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	57228	2.00000	2.006	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	31882			29.64- 89.64	55.71
3.786	3.786 (0.531)	98	22068			7.66- 67.66	38.56
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	17759	2.00000	2.182	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	58628			0.00- 30.00	330.13
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	94501	2.00000	2.020	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.577)	45	59195	2.00000	2.000	70.00- 130.00	100.00
4.118	4.118 (0.577)	43	13991			0.00- 30.00	23.64
4.118	4.118 (0.577)	59	4142			0.00- 30.00	7.00
37 3-Chloropropene					CAS #: 107-05-1		
4.366	4.366 (0.612)	76	15189	2.00000	1.906	70.00- 130.00	100.00(a)
4.366	4.366 (0.612)	41	51712			0.00- 30.00	340.46
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	74297	2.00000	2.307	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	17154			0.00- 30.00	23.09
4.726	4.726 (0.663)	57	13232			0.00- 30.00	17.81
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	39091	2.00000	2.009	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.615	4.615 (0.647)	84	29448			46.03- 106.03	75.33
4.588	4.588 (0.643)	51	13724			0.00- 30.00	35.11
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.694)	73	104624	2.00000	2.062	70.00- 130.00	100.00
4.919	4.919 (0.690)	57	26414			0.00- 52.36	25.25
4.919	4.919 (0.690)	41	28822			0.00- 30.00	27.55
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	36902	2.00000	1.977	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	57232			117.81- 177.81	155.09
4.975	4.975 (0.698)	98	23427			0.00- 30.00	63.48
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	58828	2.00000	1.992	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	37028			0.00- 30.00	62.94
5.307	5.307 (0.744)	86	13547			0.00- 30.00	23.03
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	64272	2.00000	2.048	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	22001			1.12- 61.12	34.23
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	12572	2.00000	2.613	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	78647			0.00- 30.00	625.57
5.804	5.804 (0.814)	42	8903			0.00- 30.00	70.82
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	46659	2.00000	2.019	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	37613			44.78- 104.78	80.61
6.717	6.717 (0.942)	98	23396			17.70- 77.70	50.14
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	16555	2.00000	1.725	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	72820			352.72- 412.72	439.87
6.772	6.772 (0.950)	57	7749			0.00- 30.00	46.81
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	44333	2.00000	1.895	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	16384			7.84- 67.84	36.96
7.131	7.131 (1.000)	72	16609			0.00- 30.00	37.46
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	67229	2.00000	1.991	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	42372			34.57- 94.57	63.03

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	51814	2.00000	1.953	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	59752			86.25- 146.25	115.32
7.491	7.491 (1.050)	41	33876			33.52- 93.52	65.38
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.518	7.518 (1.054)	97	78228	2.00000	2.013	70.00- 130.00	100.00
7.518	7.518 (1.054)	99	47805			34.20- 94.20	61.11
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	74488	2.00000	2.024	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	76529			73.55- 133.55	102.74
81 Benzene					CAS #: 71-43-2		
8.154	8.154 (0.905)	78	108570	2.00000	2.058	70.00- 130.00	100.00
8.154	8.154 (0.905)	77	25591			0.00- 30.00	23.57
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	179508	2.00000	1.961	70.00- 130.00	100.00
8.182	8.182 (1.147)	56	62788			0.00- 30.00	34.98
8.182	8.182 (1.147)	41	55547			0.00- 30.00	30.94
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	52351	2.00000	2.093	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	16887			0.00- 30.00	32.26
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	14559	2.00000	2.134	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	64652			0.00- 30.00	444.07
8.597	8.597 (0.954)	71	39499			0.00- 30.00	271.30
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	43794	2.00000	1.964	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	51214			74.03- 134.03	116.94
9.399	9.399 (1.043)	97	29186			33.83- 93.83	66.64
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	70913	2.00000	2.009	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	35642			0.00- 30.00	50.26
9.620	9.620 (1.349)	55	55258			0.00- 30.00	77.92
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	37303	2.00000	2.018	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	30054			40.79- 100.79	80.57
9.896	9.896 (1.098)	41	21229			29.63- 89.63	56.91

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	29150	2.00000	2.238	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	20223			40.70- 100.70	69.38
10.145	10.145 (1.126)	57	9376			0.00- 30.00	32.16
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	66197	2.00000	1.934	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	48658			33.28- 93.28	73.50
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	57260	2.00000	1.975	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	19589			1.43- 61.43	34.21
11.389	11.389 (1.264)	39	32694			19.82- 79.82	57.10
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	36813	2.00000	2.130	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	93697			0.00- 30.00	254.52
11.749	11.749 (1.304)	85	15810			0.00- 30.00	42.95
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	121029	2.00000	1.949	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	77467			30.55- 90.55	64.01
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	60367	2.00000	1.986	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	18735			1.82- 61.82	31.04
12.606	12.606 (0.877)	39	28994			16.70- 76.70	48.03
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	41811	2.00000	1.945	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	25891			31.05- 91.05	61.92
12.910	12.910 (0.898)	83	32690			49.24- 109.24	78.19
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	50971	2.00000	1.966	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	44288			53.94- 113.94	86.89
12.938	12.938 (0.900)	131	43517			49.66- 109.66	85.38
114 2-Hexanone					CAS #: 591-78-6		
13.352	13.352 (0.929)	58	47920	2.00000	2.115	70.00- 130.00	100.00
13.352	13.352 (0.929)	43	74960			146.80- 206.80	156.43
13.352	13.352 (0.929)	100	11944			0.00- 30.00	24.92
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	64277	2.00000	1.946	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	49162			0.00- 30.00	76.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	64140	2.00000	1.922	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	57200			63.34- 123.34	89.18
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	111343	2.00000	2.153	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	34683			1.67- 61.67	31.15
14.403	14.403 (1.002)	77	67858			28.04- 88.04	60.95
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	50836	2.00000	1.897	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	167655			0.00- 30.00	329.80
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	74231	2.00000	2.174	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	145671			0.00- 30.00	196.24
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	66006	2.00000	1.987	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	146766			188.03- 248.03	222.35
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	94100	2.00000	1.872	70.00- 130.00	100.00
15.343	15.343 (1.067)	78	51500			20.90- 80.90	54.73
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	48335	2.00000	1.826	70.00- 130.00	100.00
15.592	15.592 (1.085)	171	23189			20.98- 80.98	47.98
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	192553	2.00000	1.970	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	54260			0.00- 30.00	28.18
15.786	15.786 (1.098)	51	17708			0.00- 30.00	9.20
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	88943	2.00000	1.992	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	55121			34.03- 94.03	61.97
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	225869	2.00000	2.073	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	55400			0.00- 30.00	24.53
16.311	16.311 (1.135)	105	8864			0.00- 30.00	3.92
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	194098	2.00000	1.993	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	59452			0.00- 59.69	30.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	171398	2.00000	1.976	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	84143			0.00- 30.00	49.09
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	184145	2.00000	2.039	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	82088			15.91- 75.91	44.58
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	103156	2.00000	2.023	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	63064			0.00- 30.00	61.13
17.279	17.279 (1.202)	111	43390			0.00- 30.00	42.06
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	144807	2.00000	2.192	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	86928			0.00- 30.00	60.03
17.389	17.389 (1.210)	111	56832			0.00- 30.00	39.25
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	137416	2.00000	1.973	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	33924			0.00- 30.00	24.69
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	115380	2.00000	2.058	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	70846			33.75- 93.75	61.40
17.749	17.749 (1.235)	111	51646			17.41- 77.41	44.76
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	113651	2.00000	2.501	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	104307			65.57- 125.57	91.78
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	76604	2.00000	2.548	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	48013			32.14- 92.14	62.68
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	274169	2.00000	2.632	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	31335			0.00- 30.00	11.43

QC Flag Legend

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

Report Date: 05-Aug-2008 08:46

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080410.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	293712	0.41
88 1,4-Difluorobenze	1202703	721622	1683784	1200443	-0.19
125 Chlorobenzene-d5	1079897	647938	1511856	1078578	-0.12

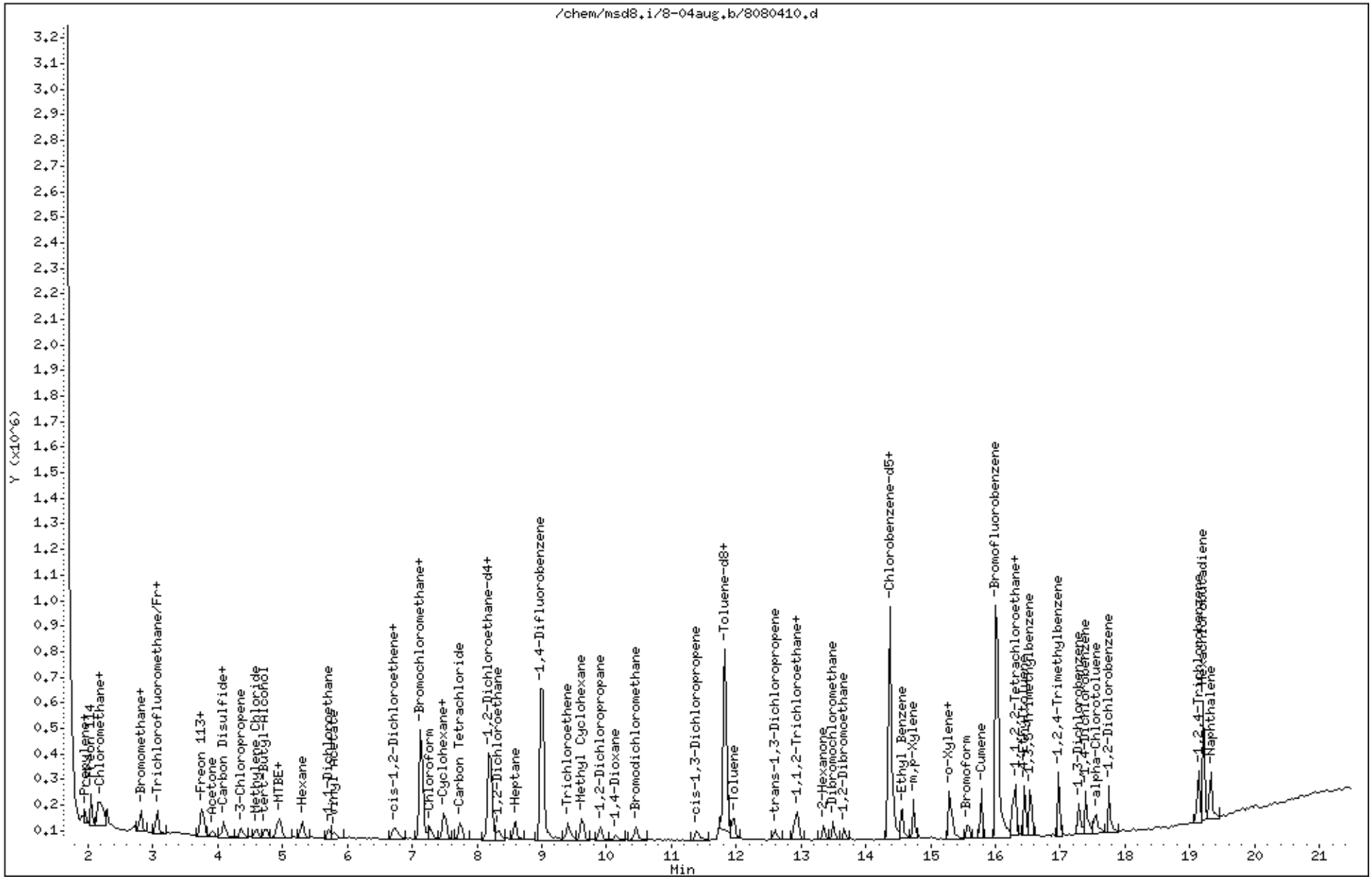
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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.

0109

Data File: /chem/msd8.i/8-04aug.b/8080410.d
Date : 05-AUG-2008 00:43
Client ID: Level 3
Sample Info: 2.0mL #1612-92

Instrument: msd8.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080411.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 05-AUG-2008 01:11
Operator : smd Inst ID: msd8.i
Smp Info : 25mL #1612-92
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:47 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 01:11 Cal File: 8080411.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane						CAS #: 74-97-5		
7.131	7.131 (1.000)	130	300517	25.0000		70.00- 130.00		100.00
7.131	7.131 (1.000)	128	225321			47.98- 107.98		74.98
7.131	7.131 (1.000)	49	385228			106.00- 166.00		128.19
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1213507	25.0000		70.00- 130.00		100.00
8.984	8.984 (1.000)	88	192161			0.00- 46.07		15.84
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1107376	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	591692			0.00- 30.00		53.43
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.182	8.182 (1.147)	65	425669	25.0000	23.839	70.00- 130.00		100.00
8.210	8.210 (1.151)	67	230965			0.00- 30.00		54.26
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.832	11.832 (1.313)	98	1236687	25.0000	25.090	70.00- 130.00		100.00
11.832	11.832 (1.313)	70	129906			0.00- 30.00		10.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	825336			0.00- 30.00	66.74
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	588712	25.0000	25.108	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	880632			118.42- 178.42	149.59
16.035	16.035 (1.115)	176	572170			67.67- 127.67	97.19
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	314078	25.0000	23.157	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	210221			0.00- 30.00	66.93
1.906	1.906 (0.267)	39	235694			0.00- 30.00	75.04
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	1200359	25.0000	25.409	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	388089			0.00- 30.00	32.33
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	863448	25.0000	25.538	70.00- 130.00	100.00
2.044	2.044 (0.287)	137	270017			1.42- 61.42	31.27
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	339721	25.0000	23.546	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	104838			0.00- 30.00	30.86
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	89167	25.0000	21.744	70.00- 130.00	100.00
2.210	2.210 (0.310)	43	617375			0.00- 30.00	692.38
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	448499	25.0000	24.205	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	141753			0.00- 30.00	31.61
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	323372	25.0000	23.351	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	255345			0.00- 30.00	78.96
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	311877	25.0000	23.009	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	290768			66.53- 126.53	93.23
16 Chloroethane					CAS #: 75-00-3		
2.791	2.791 (0.391)	64	238139	25.0000	26.012	70.00- 130.00	100.00
2.791	2.791 (0.391)	49	61533			0.00- 30.00	25.84
2.791	2.791 (0.391)	66	75428			0.00- 30.00	31.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	541650	25.0000	24.292	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	396134			0.00- 30.00	73.13
2.818	2.818 (0.395)	72	46573			0.00- 30.00	8.60
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	1244933	25.0000	24.947	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	809220			34.28- 94.28	65.00
23 Ethanol					CAS #: 64-17-5		
3.344	3.344 (0.469)	45	157971	25.0000	25.162	70.00- 130.00	100.00
3.344	3.344 (0.469)	43	35773			0.00- 30.00	22.65
3.344	3.344 (0.469)	46	63605			0.00- 30.00	40.26
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	681850	25.0000	23.917	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	434623			34.49- 94.49	63.74
3.758	3.758 (0.527)	101	843359			92.46- 152.46	123.69
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	706797	25.0000	24.212	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	412901			29.64- 89.64	58.42
3.786	3.786 (0.531)	98	266899			7.66- 67.66	37.76
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	198347	25.0000	23.814	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	673426			0.00- 30.00	339.52
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	1188660	25.0000	24.834	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	755913	25.0000	24.956	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	179511			0.00- 30.00	23.75
4.118	4.118 (0.577)	59	32257			0.00- 30.00	4.27
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	204922	25.0000	25.138	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	571795			0.00- 30.00	279.03
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	872857	25.0000	26.495	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	180093			0.00- 30.00	20.63
4.726	4.726 (0.663)	57	96588			0.00- 30.00	11.07
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	463971	25.0000	23.309	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.588	4.588 (0.643)	84	354995			46.03- 106.03	76.51
4.588	4.588 (0.643)	51	134840			0.00- 30.00	29.06
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	1247395	25.0000	24.023	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	286563			0.00- 52.36	22.97
4.920	4.920 (0.690)	41	280215			0.00- 30.00	22.46
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	467792	25.0000	24.495	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	679168			117.81- 177.81	145.19
4.975	4.975 (0.698)	98	289621			0.00- 30.00	61.91
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	741111	25.0000	24.524	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	456361			0.00- 30.00	61.58
5.307	5.307 (0.744)	86	136003			0.00- 30.00	18.35
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	780690	25.0000	24.313	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	250412			1.12- 61.12	32.08
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	110899	25.0000	22.532	70.00- 130.00	100.00
5.804	5.804 (0.814)	43	1099351			0.00- 30.00	991.31
5.804	5.804 (0.814)	42	98143			0.00- 30.00	88.50
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	599896	25.0000	25.375	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	442314			44.78- 104.78	73.73
6.717	6.717 (0.942)	98	280037			17.70- 77.70	46.68
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	212025	25.0000	21.591	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	837537			352.72- 412.72	395.02
6.772	6.772 (0.950)	57	67858			0.00- 30.00	32.00
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	501314	25.0000	20.942	70.00- 130.00	100.00
7.131	7.131 (1.000)	71	187972			7.84- 67.84	37.50
7.131	7.131 (1.000)	72	203738			0.00- 30.00	40.64
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	833857	25.0000	24.137	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	542956			34.57- 94.57	65.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	645713	25.0000	23.790	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	756864			86.25- 146.25	117.21
7.491	7.491 (1.050)	41	405929			33.52- 93.52	62.87
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	973793	25.0000	24.488	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	619575			34.20- 94.20	63.62
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	926951	25.0000	24.624	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	951838			73.55- 133.55	102.68
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	1268682	25.0000	23.793	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	297361			0.00- 30.00	23.44
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.182 (1.147)	57	2281485	25.0000	24.358	70.00- 130.00	100.00
8.182	8.182 (1.147)	56	724669			0.00- 30.00	31.76
8.182	8.182 (1.147)	41	583043			0.00- 30.00	25.56
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	603411	25.0000	23.862	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	197157			0.00- 30.00	32.67
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	159161	25.0000	23.074	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	801204			0.00- 30.00	503.39
8.597	8.597 (0.954)	71	454421			0.00- 30.00	285.51
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	564995	25.0000	25.070	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	584866			74.03- 134.03	103.52
9.399	9.399 (1.043)	97	356887			33.83- 93.83	63.17
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	859567	25.0000	23.803	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	422739			0.00- 30.00	49.18
9.620	9.620 (1.349)	55	682764			0.00- 30.00	79.43
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	464926	25.0000	24.880	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	323446			40.79- 100.79	69.57
9.896	9.896 (1.098)	41	281484			29.63- 89.63	60.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	322541	25.0000	24.501	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	222399			40.70- 100.70	68.95
10.145	10.145 (1.126)	57	75073			0.00- 30.00	23.28
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	842951	25.0000	24.370	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	537355			33.28- 93.28	63.75
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	703215	25.0000	23.998	70.00- 130.00	100.00
11.389	11.389 (1.264)	77	221093			1.43- 61.43	31.44
11.389	11.389 (1.264)	39	341691			19.82- 79.82	48.59
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	420568	25.0000	24.075	70.00- 130.00	100.00
11.749	11.749 (1.304)	43	1015639			0.00- 30.00	241.49
11.749	11.749 (1.304)	85	183535			0.00- 30.00	43.64
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	1557375	25.0000	24.805	70.00- 130.00	100.00
11.970	11.970 (1.328)	92	926003			30.55- 90.55	59.46
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	735023	25.0000	23.548	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	224811			1.82- 61.82	30.59
12.606	12.606 (0.877)	39	347835			16.70- 76.70	47.32
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	521203	25.0000	23.614	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	322156			31.05- 91.05	61.81
12.910	12.910 (0.898)	83	417527			49.24- 109.24	80.11
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	642585	25.0000	24.137	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	527240			53.94- 113.94	82.05
12.938	12.938 (0.900)	131	509664			49.66- 109.66	79.31
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	582294	25.0000	25.027	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	1014961			146.80- 206.80	174.30
13.353	13.353 (0.929)	100	122538			0.00- 30.00	21.04
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	805339	25.0000	23.747	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	616930			0.00- 30.00	76.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	818715	25.0000	23.896	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	785694			63.34- 123.34	95.97
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1325421	25.0000	24.962	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	415594			1.67- 61.67	31.36
14.403	14.403 (1.002)	77	754295			28.04- 88.04	56.91
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	663225	25.0000	24.105	70.00- 130.00	100.00
14.569	14.569 (1.013)	91	2084015			0.00- 30.00	314.22
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	859378	25.0000	24.510	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	1728389			0.00- 30.00	201.12
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	841637	25.0000	24.676	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	1793231			188.03- 248.03	213.06
134 Styrene					CAS #: 100-42-5		
15.316	15.316 (1.065)	104	1254351	25.0000	24.312	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	666172			20.90- 80.90	53.11
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	649735	25.0000	23.907	70.00- 130.00	100.00
15.565	15.565 (1.083)	171	335645			20.98- 80.98	51.66
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	2414934	25.0000	24.069	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	664094			0.00- 30.00	27.50
15.786	15.786 (1.098)	51	213709			0.00- 30.00	8.85
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1090297	25.0000	23.784	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	698895			34.03- 94.03	64.10
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	2819184	25.0000	25.200	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	690336			0.00- 30.00	24.49
16.311	16.311 (1.135)	105	108908			0.00- 30.00	3.86
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	2537480	25.0000	25.380	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	768175			0.00- 59.69	30.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	2124514	25.0000	23.853	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	1063306			0.00- 30.00	50.05
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	2289161	25.0000	24.690	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	1064764			15.91- 75.91	46.51
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1261840	25.0000	24.107	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	808624			0.00- 30.00	64.08
17.279	17.279 (1.202)	111	566437			0.00- 30.00	44.89
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	1625222	25.0000	23.964	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	1039077			0.00- 30.00	63.93
17.389	17.389 (1.210)	111	663261			0.00- 30.00	40.81
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	1796356	25.0000	25.124	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	373137			0.00- 30.00	20.77
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1324118	25.0000	23.002	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	846940			33.75- 93.75	63.96
17.749	17.749 (1.235)	111	634611			17.41- 77.41	47.93
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	1057134	25.0000	22.659	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	1002228			65.57- 125.57	94.81
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	732134	25.0000	23.715	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	460312			32.14- 92.14	62.87
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	2410931	25.0000	22.541	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	291343			0.00- 30.00	12.08

Report Date: 05-Aug-2008 08:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080411.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

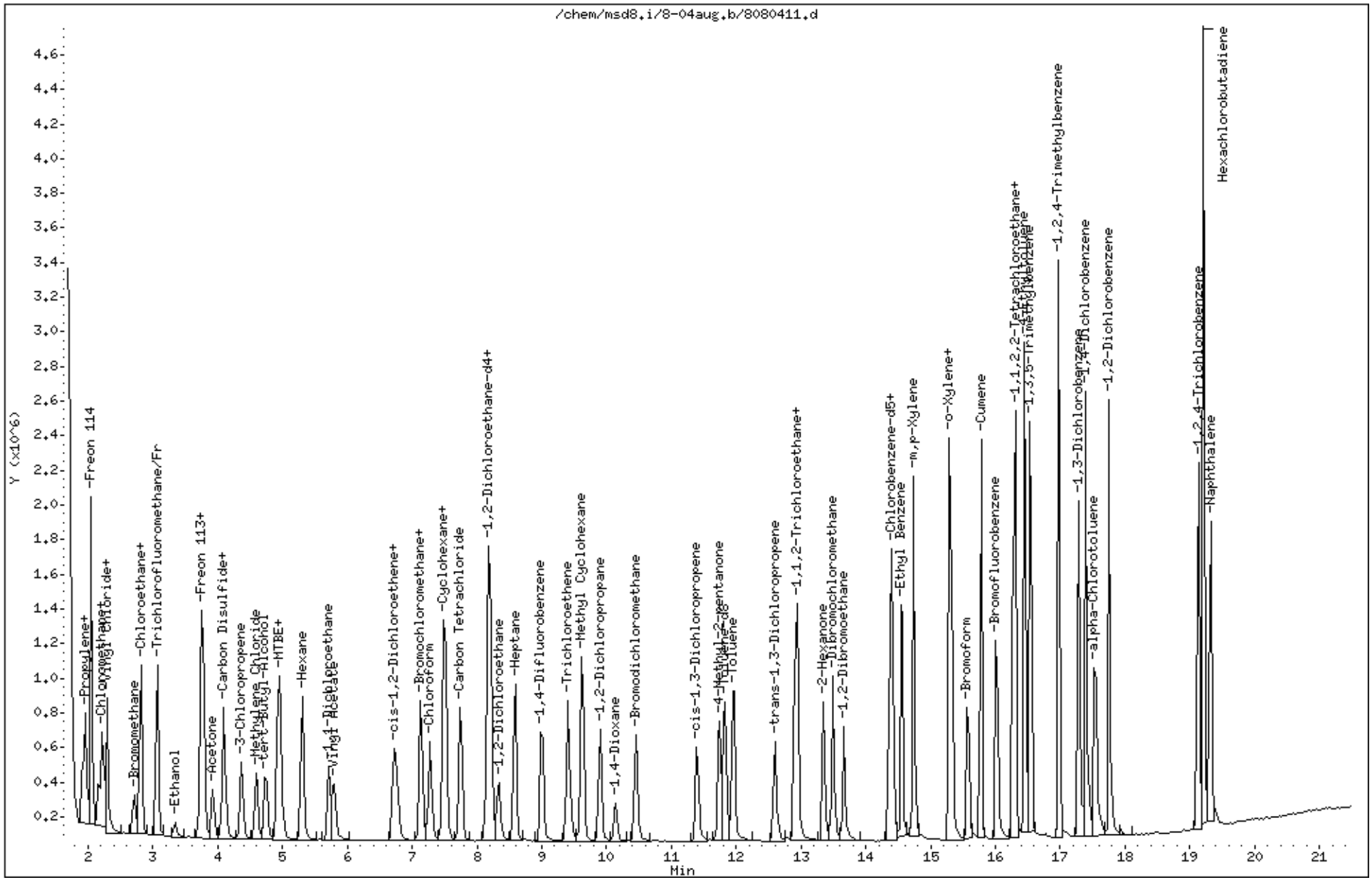
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	300517	2.74
88 1,4-Difluorobenze	1202703	721622	1683784	1213507	0.90
125 Chlorobenzene-d5	1079897	647938	1511856	1107376	2.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-04aug.b/8080411.d
Date : 05-AUG-2008 01:11
Client ID: Level 4
Sample Info: 25mL #1612-92

Instrument: msd8.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



0119

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-18aug.b/8081803.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 18-AUG-2008 10:54
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1541-242
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-18aug.b/t14q804c.m
Meth Date : 18-Aug-2008 15:53 ctaylor Quant Type: ISTD
Cal Date : 18-AUG-2008 10:54 Cal File: 8081803.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

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.132 (1.000)	130	259567	25.0000		80.00- 120.00	100.00
7.132	7.132 (1.000)	128	197462			46.07- 106.07	76.07
7.132	7.132 (1.000)	49	345878			103.25- 163.25	133.25
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	929564	25.0000		80.00- 120.00	100.00
8.984	8.984 (1.000)	88	141971			0.00- 45.27	15.27
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	755543	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	406941			23.86- 83.86	53.86
7 Isobutane					CAS #: 75-28-5		
2.072	2.072 (0.290)	43	1603629	50.0000	44.549	80.00- 120.00	100.00
2.072	2.072 (0.290)	42	524197			2.69- 62.69	32.69
2.072	2.072 (0.290)	58	53092			0.00- 33.31	3.31
19 Pentane					CAS #: 109-66-0		
3.150	3.150 (0.442)	43	1843548	50.0000	42.859	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.442)	57	298246			0.00- 46.18	16.18
3.150	3.150 (0.442)	72	216714			0.00- 41.76	11.76
25 Acrolein					CAS #: 107-02-8		
3.703	3.703 (0.519)	55	298250	50.0000	44.113	80.00- 120.00	100.00
3.703	3.703 (0.519)	56	430175			114.23- 174.23	144.23
35 Acetonitrile					CAS #: 75-05-8		
4.450	4.450 (0.624)	40	434246	50.0000	44.746	80.00- 120.00	100.00
4.450	4.450 (0.624)	41	856055			167.14- 227.14	197.14
4.450	4.450 (0.624)	38	95205			0.00- 51.92	21.92
41 Acrylonitrile					CAS #: 107-13-1		
5.086	5.086 (0.713)	53	798451	50.0000	44.252	80.00- 120.00	100.00
5.086	5.086 (0.713)	52	658169			52.43- 112.43	82.43
44 1-Pentene					CAS #: 109-67-1		
3.067	3.067 (0.430)	55	1072030	50.0000	43.829	80.00- 120.00	100.00(T)
3.067	3.067 (0.430)	42	1175497			79.65- 139.65	109.65
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.427	3.427 (0.480)	74	529512	50.0000	43.386	80.00- 120.00	100.00(T)
3.427	3.427 (0.480)	59	715669			105.16- 165.16	135.16
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.035	4.035 (0.566)	142	2330650	50.0000	61.582	80.00- 120.00	100.00
4.035	4.035 (0.566)	127	943587			10.49- 70.49	40.49
62 1-Hexene					CAS #: 592-41-6		
5.196	5.196 (0.729)	55	661905	50.0000	43.547	80.00- 120.00	100.00
5.196	5.196 (0.729)	41	923654			109.54- 169.54	139.54
5.196	5.196 (0.729)	84	294500			14.49- 74.49	44.49
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.969)	55	1522666	50.0000	45.646	80.00- 120.00	100.00
6.910	6.910 (0.969)	85	249316			0.00- 46.37	16.37
6.910	6.910 (0.969)	58	137728			0.00- 39.05	9.05
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.129)	41	1009282	50.0000	47.526	80.00- 120.00	100.00
10.173	10.173 (1.129)	69	790168			48.29- 108.29	78.29
10.173	10.173 (1.129)	100	347920			4.47- 64.47	34.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.869	9.869 (1.095)	43	1940312	50.0000	46.725	80.00- 120.00	100.00
9.869	9.869 (1.095)	58	154255			0.00- 37.95	7.95
9.869	9.869 (1.095)	86	379939			0.00- 49.58	19.58
93 Ethyl Acrylate					CAS #: 140-88-5		
9.731	9.731 (1.080)	55	1653171	50.0000	45.622	80.00- 120.00	100.00
9.731	9.731 (1.080)	99	125908			0.00- 37.62	7.62
9.731	9.731 (1.080)	45	142189			0.00- 38.60	8.60
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.126)	174	899957	50.0000	44.144	80.00- 120.00	100.00
10.118	10.118 (1.123)	93	925848			72.88- 132.88	102.88
10.118	10.118 (1.123)	95	761290			54.59- 114.59	84.59
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.367	16.367 (1.138)	89	128653	50.0000	45.855	80.00- 120.00	100.00
16.339	16.339 (1.137)	53	210459			133.59- 193.59	163.59
16.367	16.367 (1.138)	124	48991			8.08- 68.08	38.08
121 Alphamethylstyrene					CAS #: 98-83-9		
16.809	16.809 (1.169)	118	1430837	50.0000	49.139	80.00- 120.00	100.00
16.809	16.809 (1.169)	103	793174			25.43- 85.43	55.43
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	1914561	50.0000	47.178	80.00- 120.00	100.00
17.279	17.279 (1.202)	95	616377			2.19- 62.19	32.19
17.279	17.279 (1.202)	63	1209181			33.16- 93.16	63.16
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	1732966	50.0000	44.927	80.00- 120.00	100.00
14.763	14.763 (1.027)	57	1672499			66.51- 126.51	96.51
14.763	14.763 (1.027)	85	663472			8.29- 68.29	38.29
199 Cyclopentane					CAS #: 287-92-3		
4.560	4.560 (0.639)	70	644340	50.0000	44.689	80.00- 120.00	100.00
4.560	4.560 (0.639)	55	820597			97.35- 157.35	127.35

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 18-Aug-2008 15:53

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8081803.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-18aug.b/t14q804c.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 18-AUG-2008
Calibration Time: 10:54
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	259567	155740	363394	259567	0.00
88 1,4-Difluorobenze	929564	557738	1301390	929564	0.00
125 Chlorobenzene-d5	755543	453326	1057760	755543	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-18aug.b/8081803.d

Date : 18-AUG-2008 10:54

Client ID: Level 5

Sample Info: 50mL #1541-242

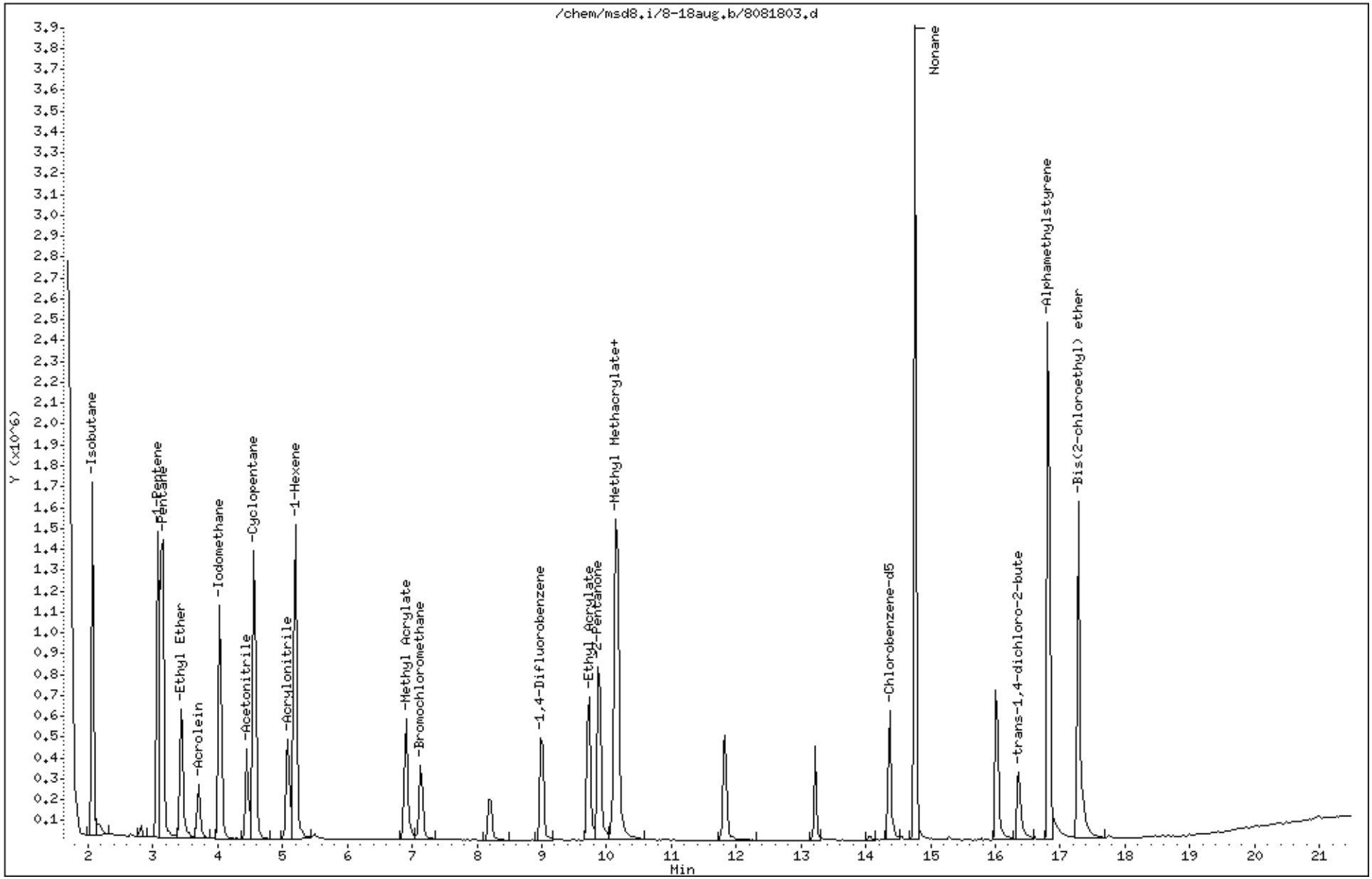
Column phase: RTx-624

Instrument: msd8.i

Operator: smd

Column diameter: 0.53

0124



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-06aug.b/8080606.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 06-AUG-2008 12:07
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1612-99
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-06aug.b/t14q804b.m
Meth Date : 06-Aug-2008 15:10 cleonard Quant Type: ISTD
Cal Date : 06-AUG-2008 12:07 Cal File: 8080606.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.131	7.131 (1.000)	130	281124	25.0000		80.00- 120.00	100.00
7.131	7.131 (1.000)	128	218208			47.62- 107.62	77.62
7.131	7.131 (1.000)	49	380810			105.46- 165.46	135.46
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.012	9.012 (1.000)	114	1158007	25.0000		80.00- 120.00	100.00
8.984	8.984 (1.000)	88	181810			0.00- 45.70	15.70
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1023146	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	557253			24.46- 84.46	54.46
1 Freon 152a					CAS #: 75-37-6		
1.906	1.906 (0.267)	65	464357	50.0000	41.756	80.00- 120.00	100.00
1.850	1.850 (0.259)	51	134303			0.00- 58.92	28.92
2 Freon 22					CAS #: 75-45-6		
1.961	1.961 (0.275)	67	218317	50.0000	44.356	80.00- 120.00	100.00
1.961	1.961 (0.275)	51	2080079			922.78- 982.78	952.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.850	1.850 (0.259)	83	862046	50.0000	43.272	80.00- 120.00	100.00
1.795	1.795 (0.252)	69	2844956			300.02- 360.02	330.02
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.039	3.039 (0.426)	67	1343718	50.0000	44.765	80.00- 120.00	100.00
3.039	3.039 (0.426)	69	427257			1.80- 61.80	31.80
3.067	3.067 (0.430)	35	27492			0.00- 32.05	2.05
20 Freon123a					CAS #: 354-23-4		
3.509	3.509 (0.492)	67	936369	50.0000	44.957	80.00- 120.00	100.00
3.537	3.537 (0.496)	117	739361			48.96- 108.96	78.96
21 Freon123					CAS #: 306-83-2		
3.620	3.620 (0.508)	83	1278387	50.0000	44.745	80.00- 120.00	100.00
3.620	3.620 (0.508)	133	276858			0.00- 51.66	21.66
3.620	3.620 (0.508)	85	882166			39.01- 99.01	69.01
27 Freon142b					CAS #: 75-68-3		
2.127	2.127 (0.298)	65	1646009	50.0000	44.318	80.00- 120.00	100.00
2.099	2.099 (0.294)	45	382582			0.00- 53.24	23.24
32 Freon143a					CAS #: 420-46-2		
1.795	1.795 (0.252)	65	337761	50.0000	45.973	80.00- 120.00	100.00
1.795	1.795 (0.252)	69	2844956			812.30- 872.30	842.30
49 Isopropyl ether					CAS #: 108-20-3		
5.721	5.721 (0.802)	45	2669095	50.0000	43.914	80.00- 120.00	100.00
5.721	5.721 (0.802)	87	765105			0.00- 58.67	28.67
5.721	5.721 (0.802)	59	301582			0.00- 41.30	11.30
52 1-Propanol					CAS #: 71-23-8		
5.915	5.915 (0.829)	42	116188	50.0000	40.297	80.00- 120.00	100.00
5.915	5.915 (0.829)	59	143621			93.61- 153.61	123.61
5.915	5.915 (0.829)	41	84803			42.99- 102.99	72.99
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.330	6.330 (0.888)	59	2428095	50.0000	43.894	80.00- 120.00	100.00
6.330	6.330 (0.888)	87	1040232			12.84- 72.84	42.84
6.330	6.330 (0.888)	41	438014			0.00- 48.04	18.04
61 Ethyl Acetate					CAS #: 141-78-6		
6.827	6.827 (0.957)	70	197902	50.0000	41.631	80.00- 120.00	100.00
6.827	6.827 (0.957)	45	244924			93.76- 153.76	123.76
6.827	6.827 (0.957)	61	252969			97.83- 157.83	127.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Isobutanol					CAS #: 78-83-1		
8.182	8.182 (0.908)	43	634842	50.0000	44.439	80.00- 120.00	100.00
8.154	8.154 (0.905)	41	458515			42.23- 102.23	72.23
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.376	8.376 (1.174)	73	2210755	50.0000	44.938	80.00- 120.00	100.00
8.376	8.376 (1.174)	87	570852			0.00- 55.82	25.82
8.376	8.376 (1.174)	55	613992			0.00- 57.77	27.77
89 1-Butanol					CAS #: 71-36-3		
9.454	9.454 (1.049)	56	617279	50.0000	40.692	80.00- 120.00	100.00
9.454	9.454 (1.049)	41	394861			33.97- 93.97	63.97
9.454	9.454 (1.049)	43	317511			21.44- 81.44	51.44
113 Butyl Acetate					CAS #: 123-86-4		
13.546	13.546 (1.503)	56	920494	50.0000	48.136	80.00- 120.00	100.00
13.546	13.546 (1.503)	73	336604			6.57- 66.57	36.57
13.546	13.546 (1.503)	43	2003174			187.62- 247.62	217.62
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.726	16.726 (1.163)	57	2483748	50.0000	45.889	80.00- 120.00	100.00
16.753	16.753 (1.165)	85	2147855			56.48- 116.48	86.48
133 2-Heptanone					CAS #: 110-43-0		
15.537	15.537 (1.081)	58	1270850	50.0000	46.941	80.00- 120.00	100.00
15.537	15.537 (1.081)	43	1920008			121.08- 181.08	151.08
136 Cyclohexanone					CAS #: 108-94-1		
15.952	15.952 (1.110)	55	1030849	50.0000	44.910	80.00- 120.00	100.00
15.952	15.952 (1.110)	98	510548			19.53- 79.53	49.53
15.952	15.952 (1.110)	42	681283			36.09- 96.09	66.09
36 Cyclopentene					CAS #: 142-29-0		
4.394	4.394 (0.616)	67	1864223	50.0000	44.482	80.00- 120.00	100.00
4.394	4.394 (0.616)	68	714732			8.34- 68.34	38.34
4.394	4.394 (0.616)	53	365081			0.00- 49.58	19.58
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.661	6.661 (0.934)	77	1497904	50.0000	45.326	80.00- 120.00	100.00
6.661	6.661 (0.934)	79	478121			1.92- 61.92	31.92
6.661	6.661 (0.934)	97	295117			0.00- 49.70	19.70
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.823	7.823 (1.097)	110	424299	50.0000	44.179	80.00- 120.00	100.00
7.823	7.823 (1.097)	75	1166613			244.95- 304.95	274.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.463)	76	1369995	50.0000	43.930	80.00- 120.00	100.00
13.187	13.187 (1.463)	41	856833			32.54- 92.54	62.54
13.187	13.187 (1.463)	78	442152			2.27- 62.27	32.27
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	1127753	50.0000	44.521	80.00- 120.00	100.00
14.569	14.569 (1.013)	117	776637			38.87- 98.87	68.87
14.569	14.569 (1.013)	95	449708			9.88- 69.88	39.88
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	1431266	50.0000	44.732	80.00- 120.00	100.00
16.173	16.173 (1.125)	77	2176881			122.09- 182.09	152.09
16.173	16.173 (1.125)	158	1366538			65.48- 125.48	95.48
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	679571	50.0000	43.483	80.00- 120.00	100.00
16.311	16.311 (1.135)	61	429325			33.18- 93.18	63.18
16.311	16.311 (1.135)	112	431849			33.55- 93.55	63.55
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	1157784	50.0000	44.663	80.00- 120.00	100.00
16.422	16.422 (1.142)	91	3353429			259.64- 319.64	289.64
16.422	16.422 (1.142)	65	287566			0.00- 54.84	24.84
146 4-Chlorotoluene					CAS #: 106-43-4		
16.560	16.560 (1.152)	126	1014989	50.0000	42.811	80.00- 120.00	100.00
16.560	16.560 (1.152)	91	3439971			308.92- 368.92	338.92
16.560	16.560 (1.152)	63	412919			10.68- 70.68	40.68
150 tert-Butylbenzene					CAS #: 98-06-6		
16.919	16.919 (1.177)	119	4597634	50.0000	43.077	80.00- 120.00	100.00
16.919	16.919 (1.177)	134	1010866			0.00- 51.99	21.99
16.892	16.892 (1.175)	91	2342451			20.95- 80.95	50.95
151 Pentachloroethane					CAS #: 76-01-7		
16.947	16.947 (1.179)	167	924958	50.0000	44.631	80.00- 120.00	100.00
16.947	16.947 (1.179)	117	1150249			94.36- 154.36	124.36
152 sec-Butylbenzene					CAS #: 135-98-8		
17.140	17.140 (1.192)	105	5425394	50.0000	45.396	80.00- 120.00	100.00
17.140	17.140 (1.192)	134	1021703			0.00- 48.83	18.83
17.140	17.140 (1.192)	91	851412			0.00- 45.69	15.69
154 p-Cymene					CAS #: 99-87-6		
17.306	17.306 (1.204)	134	1279483	50.0000	44.528	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.306	17.306 (1.204)	119	5517347			401.22- 461.22	431.22
17.306	17.306 (1.204)	91	1303110			71.85- 131.85	101.85
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	1757651	50.0000	45.273	80.00- 120.00	100.00
17.417	17.417 (1.212)	105	4160375			206.70- 266.70	236.70
17.417	17.417 (1.212)	77	484139			0.00- 57.54	27.54
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	1298681	50.0000	45.493	80.00- 120.00	100.00
17.721	17.721 (1.233)	91	4263039			298.26- 358.26	328.26
17.721	17.721 (1.233)	92	2351187			151.04- 211.04	181.04
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	1231206	50.0000	45.352	80.00- 120.00	100.00
18.468	18.468 (1.285)	75	1343637			79.13- 139.13	109.13
18.468	18.468 (1.285)	155	956974			47.73- 107.73	77.73

Report Date: 06-Aug-2008 15:10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-06aug.b/t14q804b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 06-AUG-2008
Calibration Time: 12:07
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	281124	168674	393574	281124	0.00
88 1,4-Difluorobenze	1158007	694804	1621210	1158007	0.00
125 Chlorobenzene-d5	1023146	613888	1432404	1023146	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

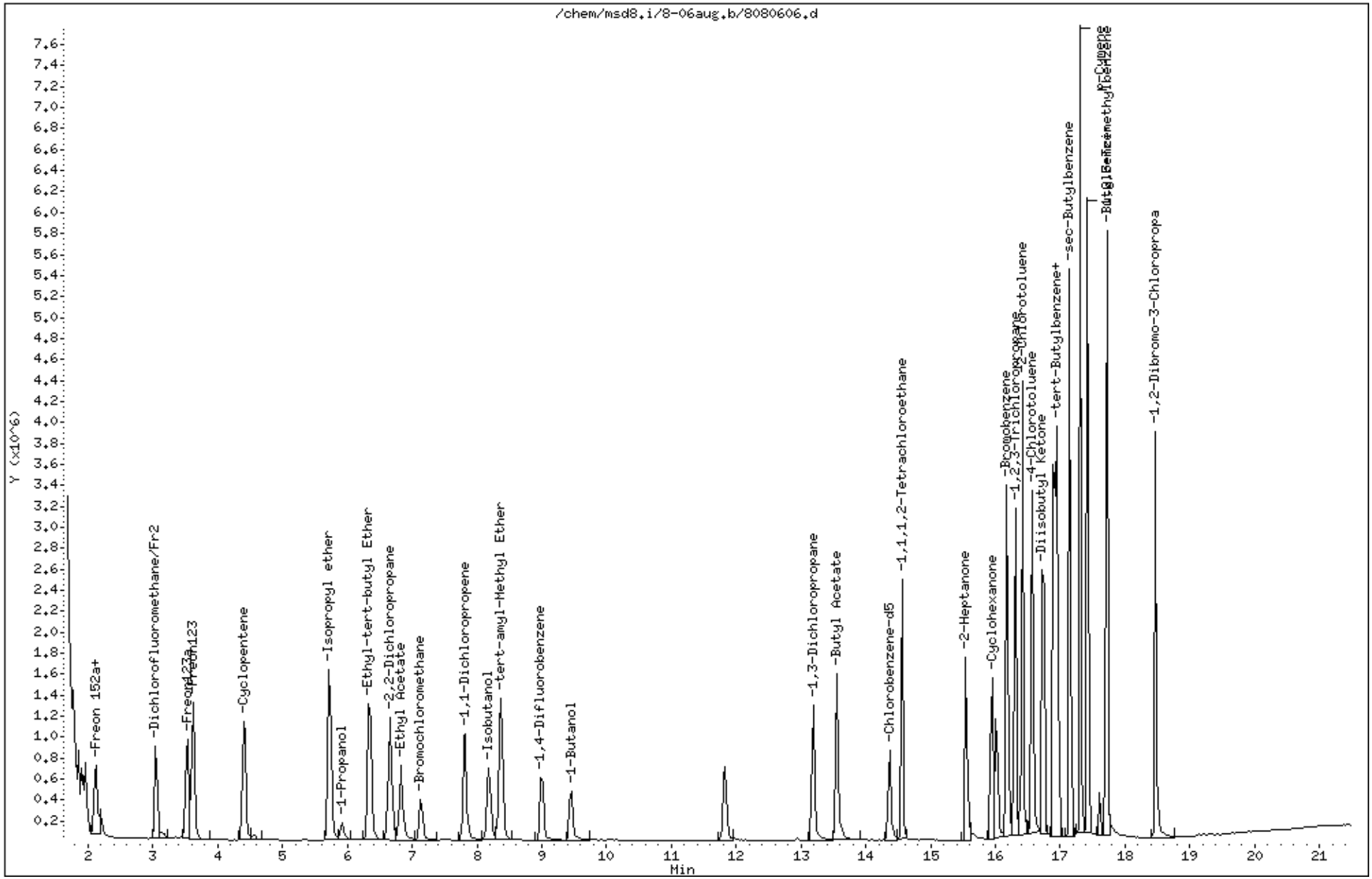
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0131

Data File: /chem/msd8.i/8-06aug.b/8080606.d
Date : 06-AUG-2008 12:07
Client ID: Level 5
Sample Info: 50mL #1612-99

Instrument: msd8.i
Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080412.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 05-AUG-2008 01:39
Operator : smd Inst ID: msd8.i
Smp Info : 50mL #1612-92
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:47 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 01:39 Cal File: 8080412.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.131	7.131 (1.000)	130	292500	25.0000		80.00- 120.00		100.00
7.131	7.131 (1.000)	128	228105			47.98- 107.98		77.98
7.131	7.131 (1.000)	49	397793			106.00- 166.00		136.00
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.012	9.012 (1.000)	114	1202703	25.0000		80.00- 120.00		100.00
8.984	8.984 (1.000)	88	193230			0.00- 46.07		16.07
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	1079897	25.0000		80.00- 120.00		100.00
14.376	14.376 (1.000)	82	581404			23.84- 83.84		53.84
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.182	8.182 (1.147)	65	439318	25.0000	25.278	80.00- 120.00		100.00
8.182	8.182 (1.147)	67	250700			27.07- 87.07		57.07
$ 104 Toluene-d8					CAS #: 2037-26-5			
11.832	11.832 (1.313)	98	1218072	25.0000	24.935	80.00- 120.00		100.00
11.832	11.832 (1.313)	70	131870			0.00- 40.83		10.83

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	863303			40.87- 100.87	70.87
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	588480	25.0000	25.737	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	873398			118.42- 178.42	148.42
16.035	16.035 (1.115)	176	574755			67.67- 127.67	97.67
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	592574	50.0000	44.888	80.00- 120.00	100.00
1.906	1.906 (0.267)	42	405452			38.42- 98.42	68.42
1.906	1.906 (0.267)	39	446549			45.36- 105.36	75.36
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	2310102	50.0000	50.240	80.00- 120.00	100.00
1.961	1.961 (0.275)	87	754221			2.65- 62.65	32.65
6 Freon 114					CAS #: 76-14-2		
2.044	2.044 (0.287)	135	1604380	50.0000	48.753	80.00- 120.00	100.00
2.044	2.044 (0.287)	137	504024			1.42- 61.42	31.42
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	663770	50.0000	47.267	80.00- 120.00	100.00
2.155	2.155 (0.302)	52	213981			2.24- 62.24	32.24
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	184004	50.0000	46.101	80.00- 120.00	100.00
2.238	2.238 (0.314)	43	1257953			653.66- 713.66	683.66
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	887641	50.0000	49.218	80.00- 120.00	100.00
2.293	2.293 (0.322)	64	284523			2.05- 62.05	32.05
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	646015	50.0000	47.928	80.00- 120.00	100.00
2.293	2.293 (0.322)	39	470778			42.87- 102.87	72.87
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	632677	50.0000	47.956	80.00- 120.00	100.00
2.708	2.708 (0.380)	96	610735			66.53- 126.53	96.53
16 Chloroethane					CAS #: 75-00-3		
2.791	2.791 (0.391)	64	463133	50.0000	51.975	80.00- 120.00	100.00
2.791	2.791 (0.391)	49	123121			0.00- 56.58	26.58
2.791	2.791 (0.391)	66	151665			2.75- 62.75	32.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	1051387	50.0000	48.445	80.00- 120.00	100.00
2.818	2.818 (0.395)	57	757212			42.02- 102.02	72.02
2.818	2.818 (0.395)	72	91500			0.00- 38.70	8.70
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	2424396	50.0000	49.914	80.00- 120.00	100.00
3.067	3.067 (0.430)	103	1558429			34.28- 94.28	64.28
23 Ethanol					CAS #: 64-17-5		
3.344	3.344 (0.469)	45	299461	50.0000	49.007	80.00- 120.00	100.00
3.344	3.344 (0.469)	43	65430			0.00- 51.85	21.85
3.344	3.344 (0.469)	46	124690			11.64- 71.64	41.64
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1329208	50.0000	47.902	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	857229			34.49- 94.49	64.49
3.758	3.758 (0.527)	101	1627736			92.46- 152.46	122.46
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	1361209	50.0000	47.908	80.00- 120.00	100.00
3.786	3.786 (0.531)	96	811862			29.64- 89.64	59.64
3.786	3.786 (0.531)	98	512666			7.66- 67.66	37.66
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	409003	50.0000	50.452	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	1327322			294.53- 354.53	324.53
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	2333436	50.0000	50.087	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	1484766	50.0000	50.362	80.00- 120.00	100.00
4.090	4.090 (0.574)	43	340896			0.00- 52.96	22.96
4.090	4.090 (0.574)	59	61409			0.00- 34.14	4.14
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	408276	50.0000	51.456	80.00- 120.00	100.00
4.367	4.367 (0.612)	41	1110780			242.07- 302.07	272.07
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	1641998	50.0000	51.207	80.00- 120.00	100.00
4.726	4.726 (0.663)	41	357813			0.00- 51.79	21.79
4.726	4.726 (0.663)	57	171889			0.00- 40.47	10.47
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.588 (0.643)	49	914692	50.0000	47.212	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.588	4.588 (0.643)	84	695480			46.03- 106.03	76.03
4.588	4.588 (0.643)	51	269121			0.00- 59.42	29.42
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	2432631	50.0000	48.133	80.00- 120.00	100.00
4.920	4.920 (0.690)	57	544040			0.00- 52.36	22.36
4.920	4.920 (0.690)	41	514029			0.00- 51.13	21.13
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	903126	50.0000	48.587	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1334871			117.81- 177.81	147.81
4.975	4.975 (0.698)	98	579037			34.11- 94.11	64.11
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	1428575	50.0000	48.569	80.00- 120.00	100.00
5.307	5.307 (0.744)	43	864828			30.54- 90.54	60.54
5.307	5.307 (0.744)	86	267336			0.00- 48.71	18.71
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	1532276	50.0000	49.028	80.00- 120.00	100.00
5.721	5.721 (0.802)	65	476777			1.12- 61.12	31.12
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	224845	50.0000	46.934	80.00- 120.00	100.00
5.777	5.777 (0.810)	43	2182500			940.67-1000.67	970.67
5.777	5.777 (0.810)	42	190838			54.88- 114.88	84.88
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	1154347	50.0000	50.166	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	863252			44.78- 104.78	74.78
6.717	6.717 (0.942)	98	550617			17.70- 77.70	47.70
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	431252	50.0000	45.119	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	1650504			352.72- 412.72	382.72
6.772	6.772 (0.950)	57	138294			2.07- 62.07	32.07
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (1.000)	42	959126	50.0000	41.166	80.00- 120.00	100.00
7.131	7.131 (1.000)	71	362920			7.84- 67.84	37.84
7.131	7.131 (1.000)	72	395983			11.29- 71.29	41.29
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	1626024	50.0000	48.358	80.00- 120.00	100.00
7.270	7.270 (1.019)	85	1049892			34.57- 94.57	64.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	1249663	50.0000	47.302	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1452776			86.25- 146.25	116.25
7.491	7.491 (1.050)	41	793730			33.52- 93.52	63.52
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1897635	50.0000	49.027	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	1218359			34.20- 94.20	64.20
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	1827756	50.0000	49.884	80.00- 120.00	100.00
7.740	7.740 (1.085)	117	1892661			73.55- 133.55	103.55
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	2491823	50.0000	47.151	80.00- 120.00	100.00
8.155	8.155 (0.905)	77	571646			0.00- 52.94	22.94
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	4459436	50.0000	48.915	80.00- 120.00	100.00
8.210	8.210 (1.151)	56	1417419			1.78- 61.78	31.78
8.182	8.182 (1.147)	41	1146551			0.00- 55.71	25.71
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1202831	50.0000	47.993	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	386727			2.15- 62.15	32.15
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	308262	50.0000	45.091	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	1541048			469.92- 529.92	499.92
8.597	8.597 (0.954)	71	901748			262.53- 322.53	292.53
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	1091295	50.0000	48.859	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	1135250			74.03- 134.03	104.03
9.399	9.399 (1.043)	97	696547			33.83- 93.83	63.83
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	1678077	50.0000	47.743	80.00- 120.00	100.00
9.620	9.620 (1.349)	98	833727			19.68- 79.68	49.68
9.620	9.620 (1.349)	55	1348321			50.35- 110.35	80.35
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	896193	50.0000	48.390	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	634386			40.79- 100.79	70.79
9.896	9.896 (1.098)	41	534432			29.63- 89.63	59.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	632309	50.0000	48.463	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	447029			40.70- 100.70	70.70
10.145	10.145 (1.126)	57	143556			0.00- 52.70	22.70
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	1688072	50.0000	49.240	80.00- 120.00	100.00
10.449	10.449 (1.160)	85	1068158			33.28- 93.28	63.28
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	1373930	50.0000	47.309	80.00- 120.00	100.00
11.389	11.389 (1.264)	77	431839			1.43- 61.43	31.43
11.389	11.389 (1.264)	39	684537			19.82- 79.82	49.82
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	805169	50.0000	46.505	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	1981844			216.14- 276.14	246.14
11.749	11.749 (1.304)	85	363624			15.16- 75.16	45.16
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	3055072	50.0000	49.097	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1849996			30.55- 90.55	60.55
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1422066	50.0000	46.718	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	452490			1.82- 61.82	31.82
12.606	12.606 (0.877)	39	664169			16.70- 76.70	46.70
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	1039266	50.0000	48.284	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	634511			31.05- 91.05	61.05
12.910	12.910 (0.898)	83	823562			49.24- 109.24	79.24
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	1232813	50.0000	47.486	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	1034846			53.94- 113.94	83.94
12.938	12.938 (0.900)	131	982027			49.66- 109.66	79.66
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	1144982	50.0000	50.464	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	2024273			146.80- 206.80	176.80
13.353	13.353 (0.929)	100	258969			0.00- 52.62	22.62
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1627792	50.0000	49.219	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1251312			46.87- 106.87	76.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1611211	50.0000	48.224	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1503938			63.34- 123.34	93.34
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	2510524	50.0000	48.485	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	795208			1.67- 61.67	31.67
14.403	14.403 (1.002)	77	1457081			28.04- 88.04	58.04
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	1299645	50.0000	48.438	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	4182382			291.81- 351.81	321.81
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1708003	50.0000	49.953	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	3413576			169.86- 229.86	199.86
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1638892	50.0000	49.273	80.00- 120.00	100.00
15.288	15.288 (1.063)	91	3573341			188.03- 248.03	218.03
134 Styrene					CAS #: 100-42-5		
15.316	15.316 (1.065)	104	2515818	50.0000	50.003	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	1280535			20.90- 80.90	50.90
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	1338907	50.0000	50.518	80.00- 120.00	100.00
15.565	15.565 (1.083)	171	682590			20.98- 80.98	50.98
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	4789279	50.0000	48.948	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1338628			0.00- 57.95	27.95
15.786	15.786 (1.098)	51	417815			0.00- 38.72	8.72
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	2195801	50.0000	49.120	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1405970			34.03- 94.03	64.03
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	5780783	50.0000	52.988	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1409208			0.00- 54.38	24.38
16.311	16.311 (1.135)	105	208247			0.00- 33.60	3.60
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	5174142	50.0000	53.070	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1536054			0.00- 59.69	29.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	4200964	50.0000	48.367	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	2119519			20.45- 80.45	50.45
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	4624296	50.0000	51.146	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	2123083			15.91- 75.91	45.91
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2558871	50.0000	50.130	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1620413			33.33- 93.33	63.33
17.279	17.279 (1.202)	111	1111641			13.44- 73.44	43.44
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	3260343	50.0000	49.298	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	2056914			33.09- 93.09	63.09
17.389	17.389 (1.210)	111	1378008			12.27- 72.27	42.27
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.528 (1.219)	91	3605834	50.0000	51.715	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	730842			0.00- 50.27	20.27
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2660325	50.0000	47.391	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1695960			33.75- 93.75	63.75
17.749	17.749 (1.235)	111	1261364			17.41- 77.41	47.41
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	2173416	50.0000	47.772	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2077094			65.57- 125.57	95.57
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1399942	50.0000	46.501	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	869921			32.14- 92.14	62.14
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4908363	50.0000	47.058	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	605702			0.00- 42.34	12.34

Report Date: 05-Aug-2008 08:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080412.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	292500	0.00
88 1,4-Difluorobenze	1202703	721622	1683784	1202703	0.00
125 Chlorobenzene-d5	1079897	647938	1511856	1079897	0.00

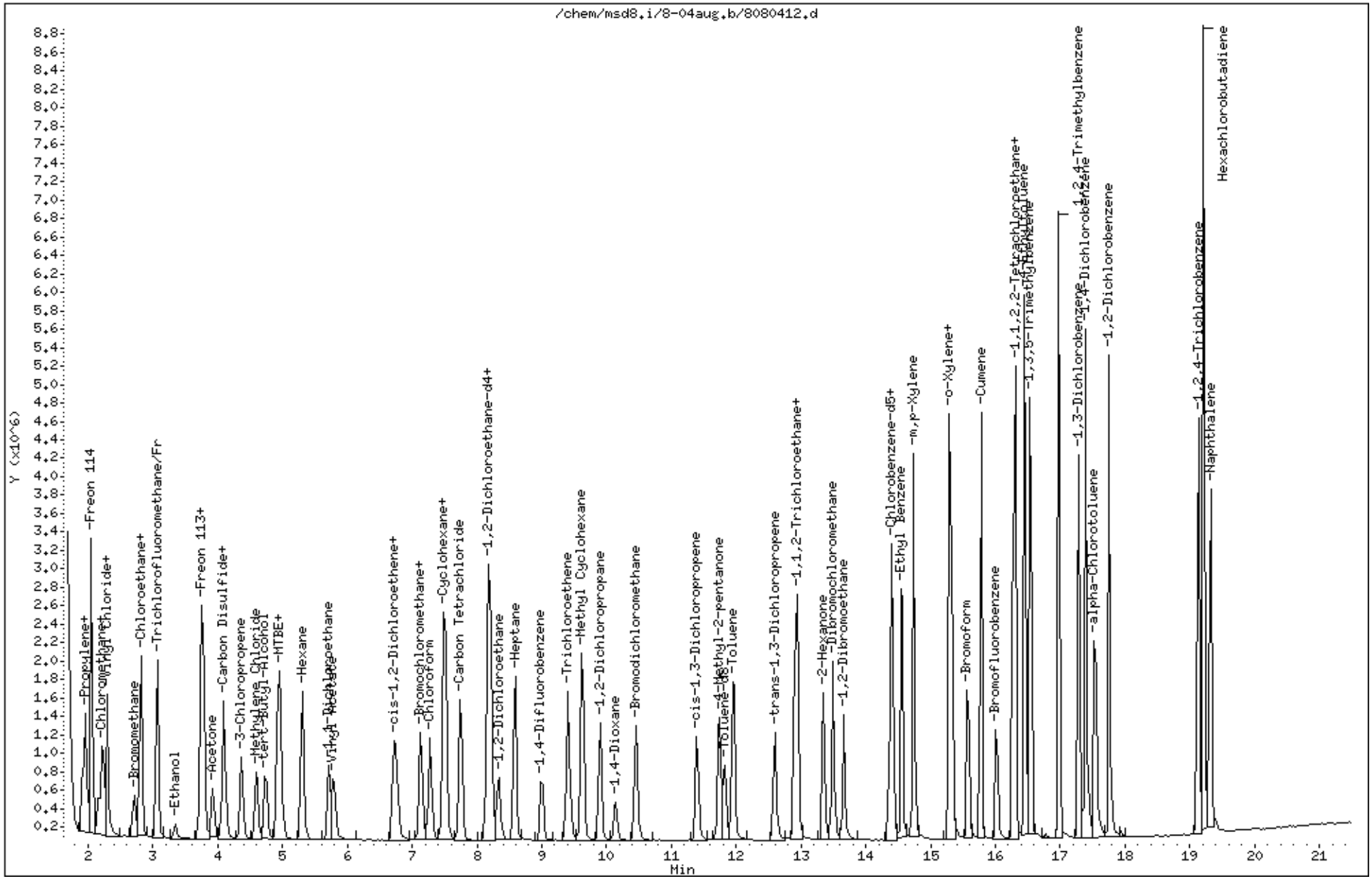
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

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/msd8.i/8-04aug.b/8080412.d
Date : 05-AUG-2008 01:39
Client ID: Level 5
Sample Info: 50mL #1612-92

Instrument: msd8.i
Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080413.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 05-AUG-2008 02:07
Operator : smd Inst ID: msd8.i
Smp Info : 100mL #1612-92
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:47 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 02:07 Cal File: 8080413.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.132	7.132 (1.000)	130	290969	25.0000		70.00- 130.00	100.00
	7.132	7.132 (1.000)	128	230603			47.98- 107.98	79.25
	7.132	7.132 (1.000)	49	406063			106.00- 166.00	139.56
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.012	9.012 (1.000)	114	1229886	25.0000		70.00- 130.00	100.00
	8.984	8.984 (1.000)	88	198583			0.00- 46.07	16.15
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.376	14.376 (1.000)	117	1097164	25.0000		70.00- 130.00	100.00
	14.376	14.376 (1.000)	82	591715			0.00- 30.00	53.93
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.210	8.210 (1.151)	65	459203	25.0000	26.561	70.00- 130.00	100.00
	8.210	8.210 (1.151)	67	293470			0.00- 30.00	63.91
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.832	11.832 (1.313)	98	1261025	25.0000	25.244	70.00- 130.00	100.00
	11.832	11.832 (1.313)	70	132925			0.00- 30.00	10.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	880559			0.00- 30.00	69.83
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	578058	25.0000	24.884	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	880557			118.42- 178.42	152.33
16.035	16.035 (1.115)	176	561969			67.67- 127.67	97.22
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	1174447	100.000	89.434	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	786186			0.00- 30.00	66.94
1.906	1.906 (0.267)	39	865560			0.00- 30.00	73.70
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	4572396	100.000	99.963	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	1461993			0.00- 30.00	31.97
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	3182844	100.000	97.228	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	1014266			1.42- 61.42	31.87
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	1425596	100.000	102.05	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	444215			0.00- 30.00	31.16
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	364145	100.000	91.714	70.00- 130.00	100.00
2.238	2.238 (0.314)	43	2445764			0.00- 30.00	671.65
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	1745624	100.000	97.302	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	550406			0.00- 30.00	31.53
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	1343294	100.000	100.18	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	983581			0.00- 30.00	73.22
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	1291046	100.000	98.374	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	1239884			66.53- 126.53	96.04
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.395)	64	901865	100.000	101.74	70.00- 130.00	100.00
2.791	2.791 (0.391)	49	235450			0.00- 30.00	26.11
2.818	2.818 (0.395)	66	277885			0.00- 30.00	30.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	2078272	100.000	96.266	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	1497645			0.00- 30.00	72.06
2.818	2.818 (0.395)	72	185471			0.00- 30.00	8.92
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	4842423	100.000	100.22	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	3141276			34.28- 94.28	64.87
23 Ethanol					CAS #: 64-17-5		
3.344	3.344 (0.469)	45	572199	100.000	94.134	70.00- 130.00	100.00
3.344	3.344 (0.469)	43	120524			0.00- 30.00	21.06
3.344	3.344 (0.469)	46	231503			0.00- 30.00	40.46
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	2634096	100.000	95.427	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	1664182			34.49- 94.49	63.18
3.758	3.758 (0.527)	101	3235814			92.46- 152.46	122.84
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	2707981	100.000	95.810	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	1598346			29.64- 89.64	59.02
3.786	3.786 (0.531)	98	1024202			7.66- 67.66	37.82
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	804381	100.000	99.746	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	2657925			0.00- 30.00	330.43
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	4697532	100.000	101.36	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	3032866	100.000	103.41	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	652716			0.00- 30.00	21.52
4.090	4.090 (0.574)	59	116858			0.00- 30.00	3.85
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	813888	100.000	103.12	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	2232463			0.00- 30.00	274.30
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	3113188	100.000	97.598	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	668733			0.00- 30.00	21.48
4.726	4.726 (0.663)	57	334306			0.00- 30.00	10.74
40 Methylene Chloride					CAS #: 75-09-2		
4.616	4.616 (0.647)	49	1825246	100.000	94.706	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.616	4.616 (0.647)	84	1380514			46.03- 106.03	75.63
4.616	4.616 (0.647)	51	539362			0.00- 30.00	29.55
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	4855300	100.000	96.575	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	1096406			0.00- 52.36	22.58
4.920	4.920 (0.690)	41	1042095			0.00- 30.00	21.46
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	1833525	100.000	99.160	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	2651442			117.81- 177.81	144.61
4.975	4.975 (0.698)	98	1152586			0.00- 30.00	62.86
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	2877067	100.000	98.329	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	1736120			0.00- 30.00	60.34
5.307	5.307 (0.744)	86	534458			0.00- 30.00	18.58
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.722	5.722 (0.802)	63	3046930	100.000	98.005	70.00- 130.00	100.00
5.722	5.722 (0.802)	65	972216			1.12- 61.12	31.91
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	447039	100.000	93.806	70.00- 130.00	100.00
5.777	5.777 (0.810)	43	4398999			0.00- 30.00	984.03
5.777	5.777 (0.810)	42	392512			0.00- 30.00	87.80
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	2293876	100.000	100.21	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	1710329			44.78- 104.78	74.56
6.717	6.717 (0.942)	98	1092813			17.70- 77.70	47.64
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	843999	100.000	88.766	70.00- 130.00	100.00
6.772	6.772 (0.950)	43	3295326			352.72- 412.72	390.44
6.772	6.772 (0.950)	57	274572			0.00- 30.00	32.53
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	1925465	100.000	83.076	70.00- 130.00	100.00
7.132	7.132 (1.000)	71	749169			7.84- 67.84	38.91
7.132	7.132 (1.000)	72	798169			0.00- 30.00	41.45
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	3287113	100.000	98.273	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	2111333			34.57- 94.57	64.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	2498024	100.000	95.053	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	2893034			86.25- 146.25	115.81
7.491	7.491 (1.050)	41	1559516			33.52- 93.52	62.43
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	3785358	100.000	98.313	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	2427929			34.20- 94.20	64.14
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	3678673	100.000	100.93	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	3796901			73.55- 133.55	103.21
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	4964413	100.000	91.862	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	1148176			0.00- 30.00	23.13
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	8988554	100.000	99.113	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	2850543			0.00- 30.00	31.71
8.210	8.210 (1.151)	41	2285455			0.00- 30.00	25.43
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	2387491	100.000	93.155	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	776794			0.00- 30.00	32.54
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	626549	100.000	89.623	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	3083871			0.00- 30.00	492.20
8.597	8.597 (0.954)	71	1833246			0.00- 30.00	292.59
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	2211944	100.000	96.843	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	2264326			74.03- 134.03	102.37
9.399	9.399 (1.043)	97	1411651			33.83- 93.83	63.82
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	3353023	100.000	95.899	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	1661679			0.00- 30.00	49.56
9.620	9.620 (1.349)	55	2704752			0.00- 30.00	80.67
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.897 (1.098)	63	1824085	100.000	96.314	70.00- 130.00	100.00
9.897	9.897 (1.098)	62	1264176			40.79- 100.79	69.30
9.897	9.897 (1.098)	41	1057091			29.63- 89.63	57.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	1284688	100.000	96.289	70.00- 130.00	100.00
10.145	10.145 (1.126)	58	876305			40.70- 100.70	68.21
10.118	10.118 (1.123)	57	283350			0.00- 30.00	22.06
100 Bromodichloromethane					CAS #: 75-27-4		
10.450	10.450 (1.160)	83	3391132	100.000	96.732	70.00- 130.00	100.00
10.450	10.450 (1.160)	85	2170293			33.28- 93.28	64.00
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	2764300	100.000	93.080	70.00- 130.00	100.00
11.390	11.390 (1.264)	77	874137			1.43- 61.43	31.62
11.390	11.390 (1.264)	39	1370016			19.82- 79.82	49.56
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	1620730	100.000	91.542	70.00- 130.00	100.00
11.721	11.721 (1.301)	43	3964346			0.00- 30.00	244.60
11.749	11.749 (1.304)	85	730996			0.00- 30.00	45.10
105 Toluene					CAS #: 108-88-3		
11.943	11.943 (1.325)	91	6107198	100.000	95.978	70.00- 130.00	100.00
11.943	11.943 (1.325)	92	3662625			30.55- 90.55	59.97
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	2861302	100.000	92.522	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	911697			1.82- 61.82	31.86
12.579	12.579 (0.875)	39	1346853			16.70- 76.70	47.07
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	2020845	100.000	92.410	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	1267519			31.05- 91.05	62.72
12.910	12.910 (0.898)	83	1664569			49.24- 109.24	82.37
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	2509309	100.000	95.134	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	2113040			53.94- 113.94	84.21
12.938	12.938 (0.900)	131	2005021			49.66- 109.66	79.90
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	2223343	100.000	96.449	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	3922854			146.80- 206.80	176.44
13.353	13.353 (0.929)	100	514273			0.00- 30.00	23.13
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	3334236	100.000	99.230	70.00- 130.00	100.00
13.491	13.491 (0.938)	127	2572994			0.00- 30.00	77.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	3284239	100.000	96.752	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	3061507			63.34- 123.34	93.22
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	5076639	100.000	96.500	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	1611381			1.67- 61.67	31.74
14.403	14.403 (1.002)	77	2929875			28.04- 88.04	57.71
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	2664926	100.000	97.760	70.00- 130.00	100.00
14.542	14.542 (1.012)	91	8599625			0.00- 30.00	322.70
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	3459900	100.000	99.597	70.00- 130.00	100.00
14.735	14.735 (1.025)	91	6942251			0.00- 30.00	200.65
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	3377710	100.000	99.952	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	7171145			188.03- 248.03	212.31
134 Styrene					CAS #: 100-42-5		
15.316	15.316 (1.065)	104	5109179	100.000	99.949	70.00- 130.00	100.00
15.316	15.316 (1.065)	78	2603730			20.90- 80.90	50.96
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	2802085	100.000	104.06	70.00- 130.00	100.00
15.565	15.565 (1.083)	171	1439418			20.98- 80.98	51.37
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	9601082	100.000	96.583	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	2651788			0.00- 30.00	27.62
15.786	15.786 (1.098)	51	828585			0.00- 30.00	8.63
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	4351967	100.000	95.821	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	2791563			34.03- 94.03	64.14
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	11627383	100.000	104.90	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	2799827			0.00- 30.00	24.08
16.311	16.311 (1.135)	105	430440			0.00- 30.00	3.70
147 4-Ethyltoluene					CAS #: 622-96-8		
16.450	16.450 (1.144)	105	10840297	100.000	109.44	70.00- 130.00	100.00
16.450	16.450 (1.144)	120	3177296			0.00- 59.69	29.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	8396198	100.000	95.146	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	4201112			0.00- 30.00	50.04
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	9444129	100.000	102.81	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	4343567			15.91- 75.91	45.99
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	5201636	100.000	100.30	70.00- 130.00	100.00
17.279	17.279 (1.202)	148	3248164			0.00- 30.00	62.45
17.279	17.279 (1.202)	111	2254892			0.00- 30.00	43.35
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.390	17.390 (1.210)	146	6642997	100.000	98.865	70.00- 130.00	100.00
17.390	17.390 (1.210)	148	4143794			0.00- 30.00	62.38
17.390	17.390 (1.210)	111	2363227			0.00- 30.00	35.57
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.528 (1.219)	91	7530876	100.000	106.31	70.00- 130.00	100.00
17.555	17.555 (1.221)	126	1459153			0.00- 30.00	19.38
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	5524488	100.000	96.865	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	3433527			33.75- 93.75	62.15
17.749	17.749 (1.235)	111	2498238			17.41- 77.41	45.22
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.132	19.132 (1.331)	180	4306372	100.000	93.165	70.00- 130.00	100.00
19.132	19.132 (1.331)	182	4132973			65.57- 125.57	95.97
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	2857191	100.000	93.411	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	1816326			32.14- 92.14	63.57
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	9796237	100.000	92.441	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	1168742			0.00- 30.00	11.93

Report Date: 05-Aug-2008 08:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080413.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

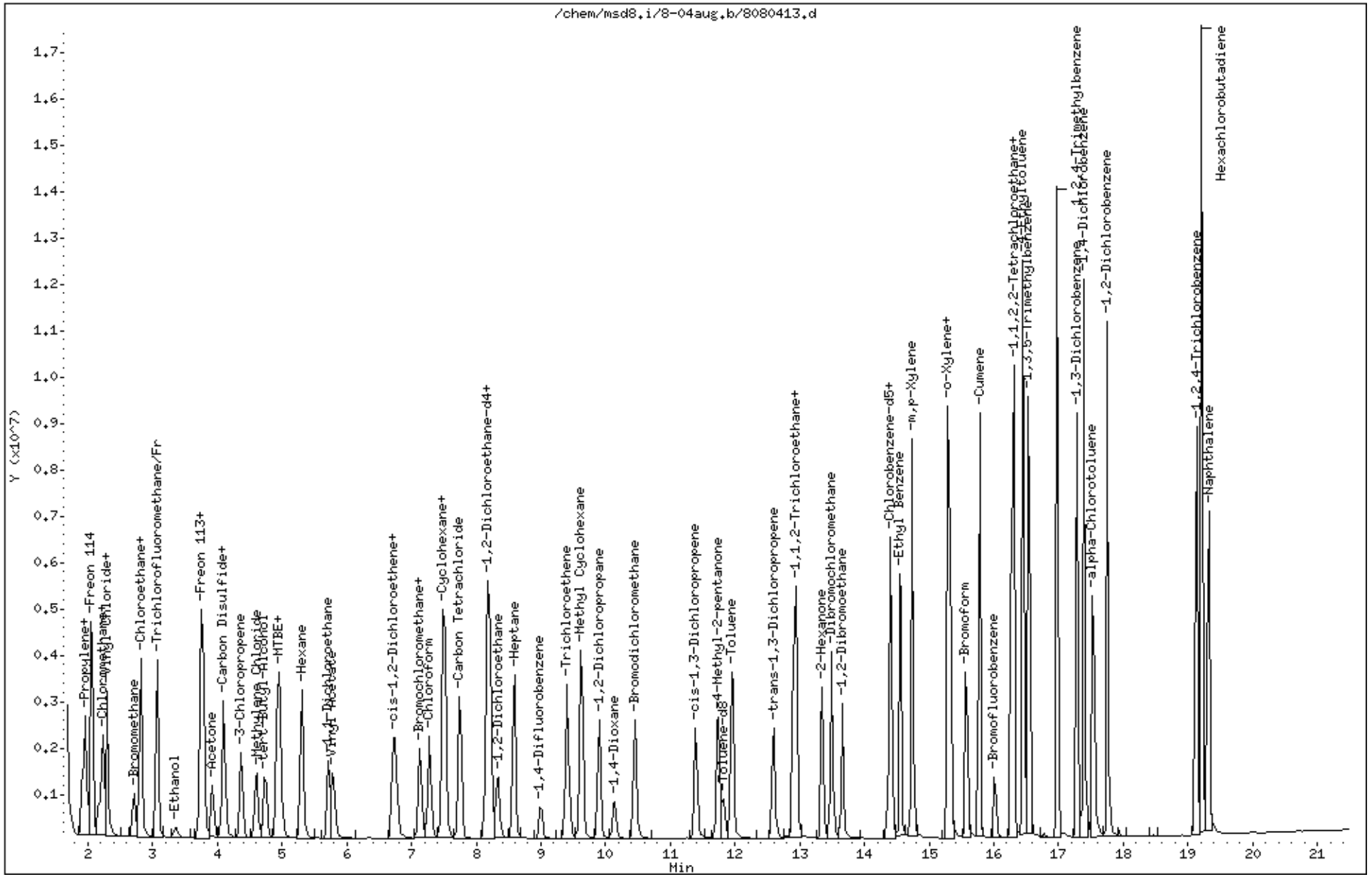
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	290969	-0.52
88 1,4-Difluorobenze	1202703	721622	1683784	1229886	2.26
125 Chlorobenzene-d5	1079897	647938	1511856	1097164	1.60

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-04aug.b/8080413.d
Date : 05-AUG-2008 02:07
Client ID: Level 6
Sample Info: 100mL #1612-92

Instrument: msd8.i
Operator: smd
Column phase: RTx-624
Column diameter: 0.53



0151

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-18aug.b/8081804.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 18-AUG-2008 11:24
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #1541-242
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-18aug.b/t14q804c.m
Meth Date : 18-Aug-2008 16:07 sdisher Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.131	7.131 (1.000)	130	257413	25.0000		70.00- 130.00		100.00
7.131	7.131 (1.000)	128	203607			45.93- 105.93		79.10
7.131	7.131 (1.000)	49	333986			102.11- 162.11		129.75
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
8.984	8.984 (1.000)	114	931988	25.0000		70.00- 130.00		100.00
8.984	8.984 (1.000)	88	137667			0.00- 45.43		14.77
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.376	14.376 (1.000)	117	779612	25.0000		70.00- 130.00		100.00
14.376	14.376 (1.000)	82	425996			0.00- 30.00		54.64
7 Isobutane					CAS #: 75-28-5			
2.072	2.072 (0.290)	43	5961062	200.000	166.98	70.00- 130.00		100.00
2.072	2.072 (0.290)	42	1951528			0.00- 30.00		32.74
2.072	2.072 (0.290)	58	194693			0.00- 30.00		3.27
19 Pentane					CAS #: 109-66-0			
3.150	3.150 (0.442)	43	7040440	200.000	165.05	70.00- 130.00		100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
19 Pentane (continued)							
3.150	3.150 (0.442)	57	1130318			0.00- 30.00	16.05
3.150	3.150 (0.442)	72	804848			0.00- 30.00	11.43
25 Acrolein					CAS #: 107-02-8		
3.703	3.703 (0.519)	55	1130581	200.000	168.62	70.00- 130.00	100.00
3.703	3.703 (0.519)	56	1670584			0.00- 30.00	147.76
35 Acetonitrile					CAS #: 75-05-8		
4.449	4.449 (0.624)	40	1363714	200.000	141.70	70.00- 130.00	100.00
4.449	4.449 (0.624)	41	2354383			0.00- 30.00	172.64
4.449	4.449 (0.624)	38	253372			0.00- 30.00	18.58
41 Acrylonitrile					CAS #: 107-13-1		
5.085	5.085 (0.713)	53	3100221	200.000	173.26	70.00- 130.00	100.00
5.085	5.085 (0.713)	52	2683715			0.00- 30.00	86.57
44 1-Pentene					CAS #: 109-67-1		
3.067	3.067 (0.430)	55	4033868	200.000	166.30	70.00- 130.00	100.00(T)
3.067	3.067 (0.430)	42	4538586			0.00- 30.00	112.51
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
47 Ethyl Ether					CAS #: 60-29-7		
3.426	3.426 (0.480)	74	2012698	200.000	166.29	70.00- 130.00	100.00(T)
3.426	3.426 (0.480)	59	2780181			0.00- 30.00	138.13
0.000	1.000 (0.000)	31	0			0.00- 30.00	0.00
56 Iodomethane					CAS #: 74-88-4		
4.035	4.035 (0.566)	142	8071622	200.000	215.06	70.00- 130.00	100.00(A)
4.035	4.035 (0.566)	127	3249355			0.00- 30.00	40.26
62 1-Hexene					CAS #: 592-41-6		
5.196	5.196 (0.729)	55	2558101	200.000	169.71	70.00- 130.00	100.00
5.196	5.196 (0.729)	41	3660520			0.00- 30.00	143.10
5.196	5.196 (0.729)	84	1155087			0.00- 30.00	45.15
63 Methyl Acrylate					CAS #: 96-33-3		
6.910	6.910 (0.969)	55	6161419	200.000	186.25	70.00- 130.00	100.00
6.910	6.910 (0.969)	85	1032999			0.00- 30.00	16.77
6.910	6.910 (0.969)	58	560041			0.00- 30.00	9.09
90 Methyl Methacrylate					CAS #: 80-62-6		
10.173	10.173 (1.132)	41	4087952	200.000	192.00	70.00- 130.00	100.00
10.173	10.173 (1.132)	69	3209635			0.00- 30.00	78.51
10.173	10.173 (1.132)	100	1371385			0.00- 30.00	33.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 2-Pentanone					CAS #: 107-87-9		
9.869	9.869 (1.098)	43	7876412	200.000	189.18	70.00- 130.00	100.00
9.869	9.869 (1.098)	58	632210			0.00- 30.00	8.03
9.869	9.869 (1.098)	86	1575984			0.00- 30.00	20.01
93 Ethyl Acrylate					CAS #: 140-88-5		
9.730	9.730 (1.083)	55	6882727	200.000	189.45	70.00- 130.00	100.00
9.730	9.730 (1.083)	99	527973			0.00- 30.00	7.67
9.703	9.703 (1.080)	45	594427			0.00- 30.00	8.64
96 Dibromomethane					CAS #: 74-95-3		
10.145	10.145 (1.129)	174	3378225	200.000	165.28	70.00- 130.00	100.00
10.118	10.118 (1.126)	93	3508935			0.00- 30.00	103.87
10.118	10.118 (1.126)	95	2929397			0.00- 30.00	86.71
115 trans-1,4-dichloro-2-butene					CAS #: 110-57-6		
16.366	16.366 (1.138)	89	579493	200.000	200.17	70.00- 130.00	100.00(A)
16.339	16.339 (1.137)	53	901653			0.00- 30.00	155.59
16.366	16.366 (1.138)	124	214726			0.00- 30.00	37.05
121 Alphamethylstyrene					CAS #: 98-83-9		
16.809	16.809 (1.169)	118	6583865	200.000	219.13	70.00- 130.00	100.00(A)
16.809	16.809 (1.169)	103	3585726			0.00- 30.00	54.46
127 Bis(2-chloroethyl) ether					CAS #: 111-44-4		
17.279	17.279 (1.202)	93	8281591	200.000	197.77	70.00- 130.00	100.00
17.279	17.279 (1.202)	95	2643786			0.00- 30.00	31.92
17.279	17.279 (1.202)	63	5095060			0.00- 30.00	61.52
128 Nonane					CAS #: 111-84-2		
14.763	14.763 (1.027)	43	7021606	200.000	176.41	70.00- 130.00	100.00
14.763	14.763 (1.027)	57	6689272			0.00- 30.00	95.27
14.763	14.763 (1.027)	85	2669999			0.00- 30.00	38.03
199 Cyclopentane					CAS #: 287-92-3		
4.560	4.560 (0.639)	70	2478297	200.000	173.32	70.00- 130.00	100.00
4.560	4.560 (0.639)	55	3141175			0.00- 30.00	126.75

QC Flag Legend

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

Report Date: 18-Aug-2008 16:07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8081804.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-18aug.b/t14q804c.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 18-AUG-2008
Calibration Time: 13:05
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	278576	167146	390006	257413	-7.60
88 1,4-Difluorobenze	1009446	605668	1413224	931988	-7.67
125 Chlorobenzene-d5	798569	479141	1117997	779612	-2.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	8.98	8.65	9.31	8.98	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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.

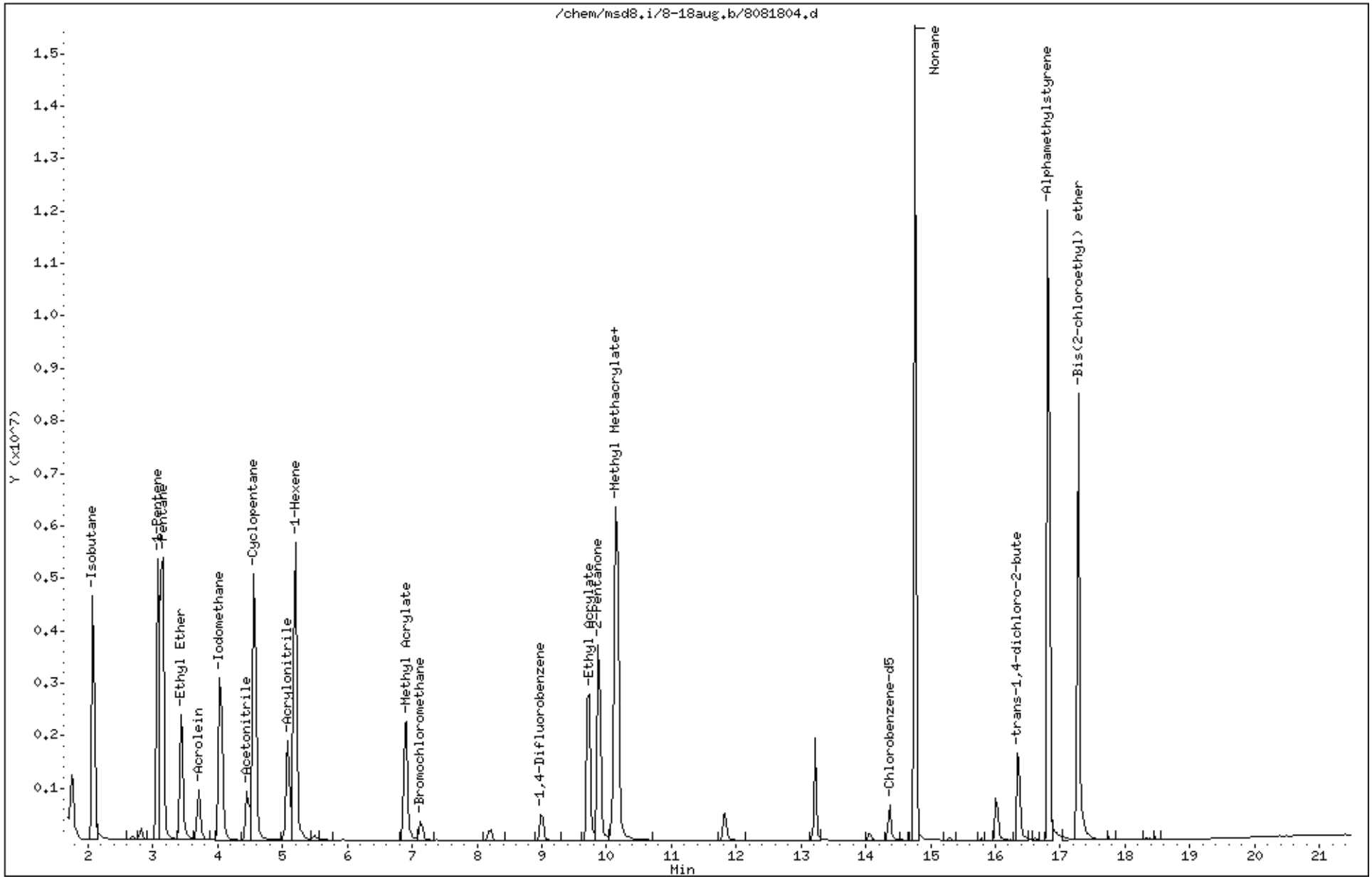
0156

Data File: /chem/msd8.i/8-18aug.b/8081804.d
Date : 18-AUG-2008 11:24
Client ID: Level 7
Sample Info: 200mL #1541-242

Column phase: RTx-624

Instrument: msd8.i

Operator: smd
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-06aug.b/8080607.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 06-AUG-2008 12:38
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #1612-99
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-06aug.b/t14q804b.m
Meth Date : 06-Aug-2008 15:10 cleonard Quant Type: ISTD
Cal Date : 06-AUG-2008 12:38 Cal File: 8080607.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp36b.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.132 (1.000)	130	283695	25.0000		70.00- 130.00	100.00
7.132	7.132 (1.000)	128	209654			47.62- 107.62	73.90
7.132	7.132 (1.000)	49	376153			105.46- 165.46	132.59
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
8.984	8.984 (1.000)	114	1164777	25.0000		70.00- 130.00	100.00
8.984	8.984 (1.000)	88	185545			0.00- 45.70	15.93
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	1003534	25.0000		70.00- 130.00	100.00
14.376	14.376 (1.000)	82	556061			0.00- 30.00	55.41
1 Freon 152a					CAS #: 75-37-6		
1.934	1.934 (0.271)	65	1881866	200.000	167.69	70.00- 130.00	100.00
1.961	1.961 (0.275)	51	8210578			0.00- 30.00	436.30
2 Freon 22					CAS #: 75-45-6		
1.961	1.961 (0.275)	67	810092	200.000	163.10	70.00- 130.00	100.00
1.961	1.961 (0.275)	51	8210578			0.00- 30.00	1013.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
5 Freon134a					CAS #: 811-97-2		
1.851	1.851 (0.259)	83	3183334	200.000	158.34	70.00- 130.00	100.00
1.851	1.851 (0.259)	69	10741430			0.00- 30.00	337.43
17 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
3.067	3.067 (0.430)	67	5191442	200.000	171.38	70.00- 130.00	100.00
3.067	3.067 (0.430)	69	1645095			0.00- 30.00	31.69
3.205	3.205 (0.449)	35	6412			0.00- 30.00	0.12
20 Freon123a					CAS #: 354-23-4		
3.537	3.537 (0.496)	67	3676264	200.000	174.91	70.00- 130.00	100.00
3.537	3.537 (0.496)	117	2757445			0.00- 30.00	75.01
21 Freon123					CAS #: 306-83-2		
3.620	3.620 (0.508)	83	4892871	200.000	169.70	70.00- 130.00	100.00
3.620	3.620 (0.508)	133	1038780			0.00- 30.00	21.23
3.620	3.620 (0.508)	85	3392350			0.00- 30.00	69.33
27 Freon142b					CAS #: 75-68-3		
2.127	2.127 (0.298)	65	6237252	200.000	166.41	70.00- 130.00	100.00
2.127	2.127 (0.298)	45	1399793			0.00- 30.00	22.44
32 Freon143a					CAS #: 420-46-2		
1.823	1.823 (0.256)	65	1171185	200.000	157.97	70.00- 130.00	100.00
1.851	1.851 (0.259)	69	10741430			0.00- 30.00	917.14
49 Isopropyl ether					CAS #: 108-20-3		
5.721	5.721 (0.802)	45	10450546	200.000	170.38	70.00- 130.00	100.00
5.721	5.721 (0.802)	87	2932466			0.00- 30.00	28.06
5.721	5.721 (0.802)	59	1178772			0.00- 30.00	11.28
52 1-Propanol					CAS #: 71-23-8		
5.915	5.915 (0.829)	42	489632	200.000	168.28	70.00- 130.00	100.00
5.915	5.915 (0.829)	59	611529			0.00- 30.00	124.90
5.915	5.915 (0.829)	41	338423			0.00- 30.00	69.12
58 Ethyl-tert-butyl Ether					CAS #: 637-92-3		
6.330	6.330 (0.888)	59	9101126	200.000	163.03	70.00- 130.00	100.00
6.330	6.330 (0.888)	87	3858022			0.00- 30.00	42.39
6.330	6.330 (0.888)	41	1568123			0.00- 30.00	17.23
61 Ethyl Acetate					CAS #: 141-78-6		
6.827	6.827 (0.957)	70	779998	200.000	162.60	70.00- 130.00	100.00
6.827	6.827 (0.957)	45	988908			0.00- 30.00	126.78
6.827	6.827 (0.957)	61	982220			0.00- 30.00	125.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
78 Isobutanol					CAS #: 78-83-1		
8.155	8.155 (0.908)	43	2642951	200.000	183.93	70.00- 130.00	100.00
8.155	8.155 (0.908)	41	1867650			0.00- 30.00	70.67
79 tert-amyl-Methyl Ether					CAS #: 994-05-8		
8.376	8.376 (1.174)	73	8058111	200.000	162.31	70.00- 130.00	100.00
8.376	8.376 (1.174)	87	2033092			0.00- 30.00	25.23
8.376	8.376 (1.174)	55	2122818			0.00- 30.00	26.34
89 1-Butanol					CAS #: 71-36-3		
9.454	9.454 (1.052)	56	2649589	200.000	173.65	70.00- 130.00	100.00
9.427	9.427 (1.049)	41	1711257			0.00- 30.00	64.59
9.427	9.427 (1.049)	43	1378787			0.00- 30.00	52.04
113 Butyl Acetate					CAS #: 123-86-4		
13.546	13.546 (1.508)	56	3710521	200.000	192.91	70.00- 130.00	100.00
13.546	13.546 (1.508)	73	1390741			0.00- 30.00	37.48
13.546	13.546 (1.508)	43	8076680			0.00- 30.00	217.67
120 Diisobutyl Ketone					CAS #: 108-83-8		
16.726	16.726 (1.163)	57	10423691	200.000	196.35	70.00- 130.00	100.00
16.754	16.754 (1.165)	85	8946663			56.48- 116.48	85.83
133 2-Heptanone					CAS #: 110-43-0		
15.537	15.537 (1.081)	58	5607139	200.000	211.16	70.00- 130.00	100.00(A)
15.537	15.537 (1.081)	43	8403737			0.00- 30.00	149.88
136 Cyclohexanone					CAS #: 108-94-1		
15.952	15.952 (1.110)	55	4211369	200.000	187.06	70.00- 130.00	100.00
15.952	15.952 (1.110)	98	2064016			0.00- 30.00	49.01
15.952	15.952 (1.110)	42	2775779			0.00- 30.00	65.91
36 Cyclopentene					CAS #: 142-29-0		
4.422	4.422 (0.620)	67	7193783	200.000	170.09	70.00- 130.00	100.00
4.422	4.422 (0.620)	68	2780222			0.00- 30.00	38.65
4.394	4.394 (0.616)	53	1373764			0.00- 30.00	19.10
60 2,2-Dichloropropane					CAS #: 594-20-7		
6.662	6.662 (0.934)	77	5847362	200.000	175.34	70.00- 130.00	100.00
6.662	6.662 (0.934)	79	1861588			1.92- 61.92	31.84
6.662	6.662 (0.934)	97	1139240			0.00- 30.00	19.48
72 1,1-Dichloropropene					CAS #: 563-58-6		
7.823	7.823 (1.097)	110	1652276	200.000	170.48	70.00- 130.00	100.00
7.795	7.795 (1.093)	75	4510795			0.00- 30.00	273.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
109 1,3-Dichloropropane					CAS #: 142-28-9		
13.187	13.187 (1.468)	76	5302351	200.000	169.04	70.00- 130.00	100.00
13.187	13.187 (1.468)	41	3253764			32.54- 92.54	61.36
13.187	13.187 (1.468)	78	1664327			0.00- 30.00	31.39
123 1,1,1,2-Tetrachloroethane					CAS #: 630-20-6		
14.569	14.569 (1.013)	131	4384481	200.000	176.47	70.00- 130.00	100.00
14.569	14.569 (1.013)	117	2906733			0.00- 30.00	66.30
14.569	14.569 (1.013)	95	1655225			0.00- 30.00	37.75
139 Bromobenzene					CAS #: 108-86-1		
16.173	16.173 (1.125)	156	5337251	200.000	170.07	70.00- 130.00	100.00
16.173	16.173 (1.125)	77	8494020			122.09- 182.09	159.15
16.173	16.173 (1.125)	158	5165634			0.00- 30.00	96.78
141 1,2,3-Trichloropropane					CAS #: 96-18-4		
16.311	16.311 (1.135)	110	2617676	200.000	170.77	70.00- 130.00	100.00
16.311	16.311 (1.135)	61	1684564			0.00- 30.00	64.35
16.311	16.311 (1.135)	112	1662299			0.00- 30.00	63.50
143 2-Chlorotoluene					CAS #: 95-49-8		
16.422	16.422 (1.142)	126	4490236	200.000	176.60	70.00- 130.00	100.00
16.422	16.422 (1.142)	91	13505592			259.64- 319.64	300.78
16.422	16.422 (1.142)	65	1120408			0.00- 30.00	24.95
146 4-Chlorotoluene					CAS #: 106-43-4		
16.560	16.560 (1.152)	126	4096336	200.000	176.15	70.00- 130.00	100.00
16.560	16.560 (1.152)	91	12833015			308.92- 368.92	313.28
16.560	16.560 (1.152)	63	1539663			0.00- 30.00	37.59
150 tert-Butylbenzene					CAS #: 98-06-6		
16.920	16.920 (1.177)	119	18616869	200.000	177.84	70.00- 130.00	100.00
16.920	16.920 (1.177)	134	3958277			0.00- 51.99	21.26
16.892	16.892 (1.175)	91	9288691			0.00- 30.00	49.89
151 Pentachloroethane					CAS #: 76-01-7		
16.947	16.947 (1.179)	167	3902973	200.000	192.01	70.00- 130.00	100.00
16.947	16.947 (1.179)	117	4762209			0.00- 30.00	122.01
152 sec-Butylbenzene					CAS #: 135-98-8		
17.141	17.141 (1.192)	105	20015199	200.000	170.75	70.00- 130.00	100.00
17.141	17.141 (1.192)	134	4034112			0.00- 48.83	20.16
17.141	17.141 (1.192)	91	3364520			0.00- 30.00	16.81
154 p-Cymene					CAS #: 99-87-6		
17.307	17.307 (1.204)	134	5228316	200.000	185.51	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 p-Cymene (continued)							
17.307	17.307 (1.204)	119	16126536			401.22- 461.22	308.45
17.307	17.307 (1.204)	91	5262082			0.00- 30.00	100.65
155 1,2,3-Trimethylbenzene					CAS #: 526-73-8		
17.417	17.417 (1.212)	120	6949857	200.000	182.51	70.00- 130.00	100.00
17.417	17.417 (1.212)	105	15400039			206.70- 266.70	221.59
17.417	17.417 (1.212)	77	1927633			0.00- 30.00	27.74
159 Butylbenzene					CAS #: 104-51-8		
17.721	17.721 (1.233)	134	5393395	200.000	192.62	70.00- 130.00	100.00
17.721	17.721 (1.233)	91	16248073			298.26- 358.26	301.26
17.721	17.721 (1.233)	92	9702455			0.00- 30.00	179.90
165 1,2-Dibromo-3-Chloropropane					CAS #: 96-12-8		
18.468	18.468 (1.285)	157	5070242	200.000	190.41	70.00- 130.00	100.00
18.468	18.468 (1.285)	75	5663029			79.13- 139.13	111.69
18.468	18.468 (1.285)	155	3979700			0.00- 30.00	78.49

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: msd8.i
Lab File ID: 8080607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-06aug.b/t14q804b.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 06-AUG-2008
Calibration Time: 12:07
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	281124	168674	393574	283695	0.91
88 1,4-Difluorobenze	1158007	694804	1621210	1164777	0.58
125 Chlorobenzene-d5	1023146	613888	1432404	1003534	-1.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	8.98	-0.30
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

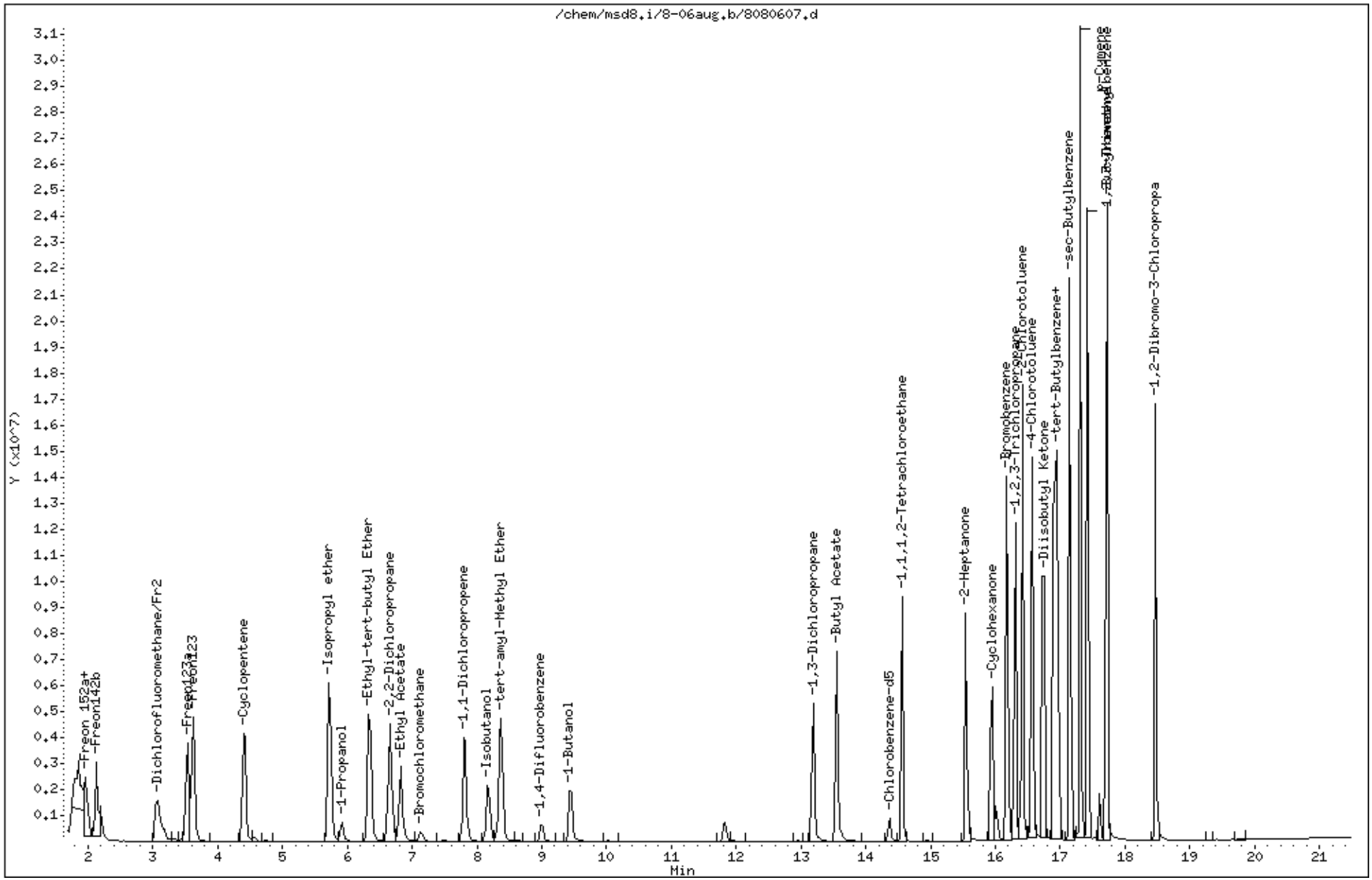
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0163

Data File: /chem/msd8.i/8-06aug.b/8080607.d
Date : 06-AUG-2008 12:38
Client ID: Level 7
Sample Info: 200mL #1612-99

Instrument: msd8.i
Operator: smd
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-04aug.b/8080414.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 05-AUG-2008 02:37
Operator : smd Inst ID: msd8.i
Smp Info : 200mL #1612-92
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd8.i/8-04aug.b/t14q804a.m
Meth Date : 05-Aug-2008 08:47 sdisher Quant Type: ISTD
Cal Date : 05-AUG-2008 02:37 Cal File: 8080414.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.132	7.132 (1.000)	130	306380	25.0000		70.00- 130.00	100.00
	7.132	7.132 (1.000)	128	231825			47.98- 107.98	75.67
	7.132	7.132 (1.000)	49	414492			106.00- 166.00	135.29
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.012	9.012 (1.000)	114	1227396	25.0000		70.00- 130.00	100.00
	8.984	8.984 (1.000)	88	194753			0.00- 46.07	15.87
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.376	14.376 (1.000)	117	1106224	25.0000		70.00- 130.00	100.00
	14.376	14.376 (1.000)	82	610848			0.00- 30.00	55.22
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.210	8.210 (1.151)	65	482804	25.0000	26.521	70.00- 130.00	100.00
	8.210	8.210 (1.151)	67	371163			0.00- 30.00	76.88
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.832	11.832 (1.313)	98	1263004	25.0000	25.334	70.00- 130.00	100.00
	11.832	11.832 (1.313)	70	136034			0.00- 30.00	10.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	1006395			0.00- 30.00	79.68
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	595026	25.0000	25.404	70.00- 130.00	100.00
16.007	16.007 (1.113)	95	921571			118.42- 178.42	154.88
16.035	16.035 (1.115)	176	576261			67.67- 127.67	96.85
3 Propylene					CAS #: 115-07-1		
1.906	1.906 (0.267)	41	2297679	200.000	166.17	70.00- 130.00	100.00
1.906	1.906 (0.267)	42	1544646			0.00- 30.00	67.23
1.906	1.906 (0.267)	39	1693111			0.00- 30.00	73.69
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.275)	85	8831907	200.000	183.37	70.00- 130.00	100.00
1.961	1.961 (0.275)	87	2803069			0.00- 30.00	31.74
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	6441719	200.000	186.88	70.00- 130.00	100.00
2.072	2.072 (0.290)	137	2021066			1.42- 61.42	31.37
8 Chloromethane					CAS #: 74-87-3		
2.155	2.155 (0.302)	50	2751391	200.000	187.05	70.00- 130.00	100.00
2.155	2.155 (0.302)	52	854862			0.00- 30.00	31.07
9 Butane					CAS #: 106-97-8		
2.238	2.238 (0.314)	58	744878	200.000	178.17	70.00- 130.00	100.00
2.238	2.238 (0.314)	43	5016054			0.00- 30.00	673.41
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.293 (0.322)	62	3375804	200.000	178.70	70.00- 130.00	100.00
2.293	2.293 (0.322)	64	1079834			0.00- 30.00	31.99
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.293 (0.322)	54	2582187	200.000	182.90	70.00- 130.00	100.00
2.293	2.293 (0.322)	39	2103479			0.00- 30.00	81.46
13 Bromomethane					CAS #: 74-83-9		
2.708	2.708 (0.380)	94	2578094	200.000	186.56	70.00- 130.00	100.00
2.708	2.708 (0.380)	96	2448425			66.53- 126.53	94.97
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.395)	64	1818277	200.000	194.81	70.00- 130.00	100.00
2.818	2.818 (0.395)	49	476730			0.00- 30.00	26.22
2.818	2.818 (0.395)	66	556745			0.00- 30.00	30.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.818	2.818 (0.395)	43	4026064	200.000	177.11	70.00- 130.00	100.00
2.818	2.818 (0.395)	57	2928556			0.00- 30.00	72.74
2.818	2.818 (0.395)	72	354738			0.00- 30.00	8.81
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.067 (0.430)	101	9548182	200.000	187.67	70.00- 130.00	100.00
3.067	3.067 (0.430)	103	6139058			34.28- 94.28	64.30
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.473)	45	1037127	200.000	162.04	70.00- 130.00	100.00
3.371	3.371 (0.473)	43	211766			0.00- 30.00	20.42
3.371	3.371 (0.473)	46	432529			0.00- 30.00	41.70
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	5130590	200.000	176.52	70.00- 130.00	100.00
3.758	3.758 (0.527)	153	3256477			34.49- 94.49	63.47
3.758	3.758 (0.527)	101	6327862			92.46- 152.46	123.34
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.786 (0.531)	61	5359854	200.000	180.10	70.00- 130.00	100.00
3.786	3.786 (0.531)	96	3169782			29.64- 89.64	59.14
3.786	3.786 (0.531)	98	2012936			7.66- 67.66	37.56
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	1613540	200.000	190.02	70.00- 130.00	100.00
3.924	3.924 (0.550)	43	5318850			0.00- 30.00	329.64
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.090 (0.574)	76	9386948	200.000	192.36	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.090 (0.574)	45	5932829	200.000	192.12	70.00- 130.00	100.00
4.090	4.090 (0.574)	43	1278035			0.00- 30.00	21.54
4.090	4.090 (0.574)	59	239911			0.00- 30.00	4.04
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.367 (0.612)	76	1630538	200.000	196.19	70.00- 130.00	100.00
4.367	4.367 (0.612)	41	4454914			0.00- 30.00	273.22
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.726 (0.663)	59	5282279	200.000	157.27	70.00- 130.00	100.00
4.726	4.726 (0.663)	41	1122825			0.00- 30.00	21.26
4.726	4.726 (0.663)	57	560677			0.00- 30.00	10.61
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.647)	49	3570965	200.000	175.96	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.615	4.615 (0.647)	84	2735259			46.03- 106.03	76.60
4.615	4.615 (0.647)	51	1113198			0.00- 30.00	31.17
43 MTBE					CAS #: 1634-04-4		
4.920	4.920 (0.690)	73	9317504	200.000	176.01	70.00- 130.00	100.00
4.920	4.920 (0.690)	57	2097565			0.00- 52.36	22.51
4.920	4.920 (0.690)	41	1974680			0.00- 30.00	21.19
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	3635864	200.000	186.74	70.00- 130.00	100.00
4.975	4.975 (0.698)	61	5265771			117.81- 177.81	144.83
4.975	4.975 (0.698)	98	2303521			0.00- 30.00	63.36
46 Hexane					CAS #: 110-54-3		
5.307	5.307 (0.744)	57	5728485	200.000	185.93	70.00- 130.00	100.00
5.307	5.307 (0.744)	43	3455471			0.00- 30.00	60.32
5.307	5.307 (0.744)	86	1062465			0.00- 30.00	18.55
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.802)	63	6086488	200.000	185.92	70.00- 130.00	100.00
5.721	5.721 (0.802)	65	1906517			1.12- 61.12	31.32
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	918536	200.000	183.05	70.00- 130.00	100.00
5.777	5.777 (0.810)	43	8889014			0.00- 30.00	967.74
5.777	5.777 (0.810)	42	772316			0.00- 30.00	84.08
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	4576336	200.000	189.87	70.00- 130.00	100.00
6.717	6.717 (0.942)	96	3395617			44.78- 104.78	74.20
6.717	6.717 (0.942)	98	2162814			17.70- 77.70	47.26
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	1690184	200.000	168.82	70.00- 130.00	100.00
6.744	6.744 (0.946)	43	6623662			352.72- 412.72	391.89
6.744	6.744 (0.946)	57	544435			0.00- 30.00	32.21
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.132 (1.000)	42	3871639	200.000	158.64	70.00- 130.00	100.00
7.132	7.132 (1.000)	71	1488919			7.84- 67.84	38.46
7.132	7.132 (1.000)	72	1595544			0.00- 30.00	41.21
70 Chloroform					CAS #: 67-66-3		
7.270	7.270 (1.019)	83	6517111	200.000	185.04	70.00- 130.00	100.00
7.270	7.270 (1.019)	85	4236895			34.57- 94.57	65.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	4934394	200.000	178.32	70.00- 130.00	100.00
7.491	7.491 (1.050)	56	5746361			86.25- 146.25	116.46
7.491	7.491 (1.050)	41	3051213			33.52- 93.52	61.84
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	7542827	200.000	186.05	70.00- 130.00	100.00
7.519	7.519 (1.054)	99	4824477			34.20- 94.20	63.96
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.740 (1.085)	119	7369863	200.000	192.03	70.00- 130.00	100.00
7.740	7.740 (1.085)	117	7664443			73.55- 133.55	104.00
81 Benzene					CAS #: 71-43-2		
8.155	8.155 (0.905)	78	10082173	200.000	186.94	70.00- 130.00	100.00
8.155	8.155 (0.905)	77	2298675			0.00- 30.00	22.80
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.151)	57	18330749	200.000	191.96	70.00- 130.00	100.00
8.210	8.210 (1.151)	56	5772064			0.00- 30.00	31.49
8.210	8.210 (1.151)	41	4575804			0.00- 30.00	24.96
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	4745662	200.000	185.54	70.00- 130.00	100.00
8.348	8.348 (0.926)	64	1544336			0.00- 30.00	32.54
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	1242433	200.000	178.08	70.00- 130.00	100.00
8.597	8.597 (0.954)	43	6224126			0.00- 30.00	500.96
8.597	8.597 (0.954)	71	3707372			0.00- 30.00	298.40
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	4371158	200.000	191.77	70.00- 130.00	100.00
9.399	9.399 (1.043)	130	4521224			74.03- 134.03	103.43
9.399	9.399 (1.043)	97	2826449			33.83- 93.83	64.66
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.620 (1.349)	83	6669495	200.000	181.16	70.00- 130.00	100.00
9.620	9.620 (1.349)	98	3333400			0.00- 30.00	49.98
9.620	9.620 (1.349)	55	5401435			0.00- 30.00	80.99
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	3630668	200.000	192.09	70.00- 130.00	100.00
9.896	9.896 (1.098)	62	2550128			40.79- 100.79	70.24
9.896	9.896 (1.098)	41	2101583			29.63- 89.63	57.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	2579383	200.000	193.72	70.00- 130.00	100.00
10.118	10.118 (1.123)	58	1779835			40.70- 100.70	69.00
10.118	10.118 (1.123)	57	578662			0.00- 30.00	22.43
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	6801736	200.000	194.41	70.00- 130.00	100.00
10.449	10.449 (1.160)	85	4343184			33.28- 93.28	63.85
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.390 (1.264)	75	5514290	200.000	186.05	70.00- 130.00	100.00
11.390	11.390 (1.264)	77	1709290			1.43- 61.43	31.00
11.390	11.390 (1.264)	39	2711877			19.82- 79.82	49.18
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	3244257	200.000	183.61	70.00- 130.00	100.00
11.721	11.721 (1.301)	43	7923755			0.00- 30.00	244.24
11.749	11.749 (1.304)	85	1456403			0.00- 30.00	44.89
105 Toluene					CAS #: 108-88-3		
11.943	11.943 (1.325)	91	12314961	200.000	193.93	70.00- 130.00	100.00
11.943	11.943 (1.325)	92	7378236			30.55- 90.55	59.91
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	5742832	200.000	184.18	70.00- 130.00	100.00
12.606	12.606 (0.877)	77	1815866			1.82- 61.82	31.62
12.578	12.578 (0.875)	39	2639403			16.70- 76.70	45.96
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	4062552	200.000	184.25	70.00- 130.00	100.00
12.910	12.910 (0.898)	99	2497719			31.05- 91.05	61.48
12.910	12.910 (0.898)	83	3276314			49.24- 109.24	80.65
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.938 (0.900)	166	5055858	200.000	190.11	70.00- 130.00	100.00
12.938	12.938 (0.900)	129	4209646			53.94- 113.94	83.26
12.938	12.938 (0.900)	131	4020296			49.66- 109.66	79.52
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	4498985	200.000	193.57	70.00- 130.00	100.00
13.353	13.353 (0.929)	43	7877812			146.80- 206.80	175.10
13.353	13.353 (0.929)	100	1039706			0.00- 30.00	23.11
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	6894307	200.000	203.50	70.00- 130.00	100.00(A)
13.491	13.491 (0.938)	127	5284585			0.00- 30.00	76.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	6531861	200.000	190.85	70.00- 130.00	100.00
13.657	13.657 (0.950)	109	6012373			63.34- 123.34	92.05
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	10221802	200.000	192.71	70.00- 130.00	100.00
14.403	14.403 (1.002)	114	3208870			1.67- 61.67	31.39
14.403	14.403 (1.002)	77	5847910			28.04- 88.04	57.21
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	5388093	200.000	196.04	70.00- 130.00	100.00
14.542	14.542 (1.012)	91	17192054			0.00- 30.00	319.07
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	7105254	200.000	202.86	70.00- 130.00	100.00(A)
14.735	14.735 (1.025)	91	14466864			0.00- 30.00	203.61
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	6738108	200.000	197.76	70.00- 130.00	100.00
15.288	15.288 (1.063)	91	14533769			188.03- 248.03	215.70
134 Styrene					CAS #: 100-42-5		
15.316	15.316 (1.065)	104	10589677	200.000	205.46	70.00- 130.00	100.00(A)
15.316	15.316 (1.065)	78	5301004			20.90- 80.90	50.06
135 Bromoform					CAS #: 75-25-2		
15.565	15.565 (1.083)	173	5902828	200.000	217.42	70.00- 130.00	100.00(A)
15.565	15.565 (1.083)	171	3018557			20.98- 80.98	51.14
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	19304553	200.000	192.60	70.00- 130.00	100.00
15.786	15.786 (1.098)	120	5444835			0.00- 30.00	28.20
15.786	15.786 (1.098)	51	1665808			0.00- 30.00	8.63
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	8909007	200.000	194.55	70.00- 130.00	100.00
16.256	16.256 (1.131)	85	5665707			34.03- 94.03	63.60
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	19446532	200.000	174.01	70.00- 130.00	100.00
16.311	16.311 (1.135)	120	5785314			0.00- 30.00	29.75
16.311	16.311 (1.135)	105	835288			0.00- 30.00	4.30
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	18085696	200.000	181.08	70.00- 130.00	100.00
16.449	16.449 (1.144)	120	6545128			0.00- 59.69	36.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	17213518	200.000	193.47	70.00- 130.00	100.00
16.532	16.532 (1.150)	120	8551333			0.00- 30.00	49.68
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	15709336	200.000	169.61	70.00- 130.00	100.00
16.975	16.975 (1.181)	120	8594349			15.91- 75.91	54.71
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	10487247	200.000	200.56	70.00- 130.00	100.00(A)
17.279	17.279 (1.202)	148	6678521			0.00- 30.00	63.68
17.279	17.279 (1.202)	111	4650860			0.00- 30.00	44.35
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	12642931	200.000	186.62	70.00- 130.00	100.00
17.389	17.389 (1.210)	148	7677437			0.00- 30.00	60.73
17.389	17.389 (1.210)	111	5032942			0.00- 30.00	39.81
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.528 (1.219)	91	15513280	200.000	217.20	70.00- 130.00	100.00(A)
17.555	17.555 (1.221)	126	3085229			0.00- 30.00	19.89
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	10894973	200.000	189.46	70.00- 130.00	100.00
17.749	17.749 (1.235)	148	6799233			33.75- 93.75	62.41
17.749	17.749 (1.235)	111	5119607			17.41- 77.41	46.99
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	8910741	200.000	191.20	70.00- 130.00	100.00
19.131	19.131 (1.331)	182	8569737			65.57- 125.57	96.17
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	5634252	200.000	182.69	70.00- 130.00	100.00
19.214	19.214 (1.337)	223	3561843			32.14- 92.14	63.22
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	19594520	200.000	183.39	70.00- 130.00	100.00
19.325	19.325 (1.344)	127	2458969			0.00- 30.00	12.55

QC Flag Legend

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

Report Date: 05-Aug-2008 08:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8080414.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: smd
Method File: /chem/msd8.i/8-04aug.b/t14q804a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 05-AUG-2008
Calibration Time: 01:39
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	292500	175500	409500	306380	4.75
88 1,4-Difluorobenze	1202703	721622	1683784	1227396	2.05
125 Chlorobenzene-d5	1079897	647938	1511856	1106224	2.44

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.13	6.80	7.46	7.13	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

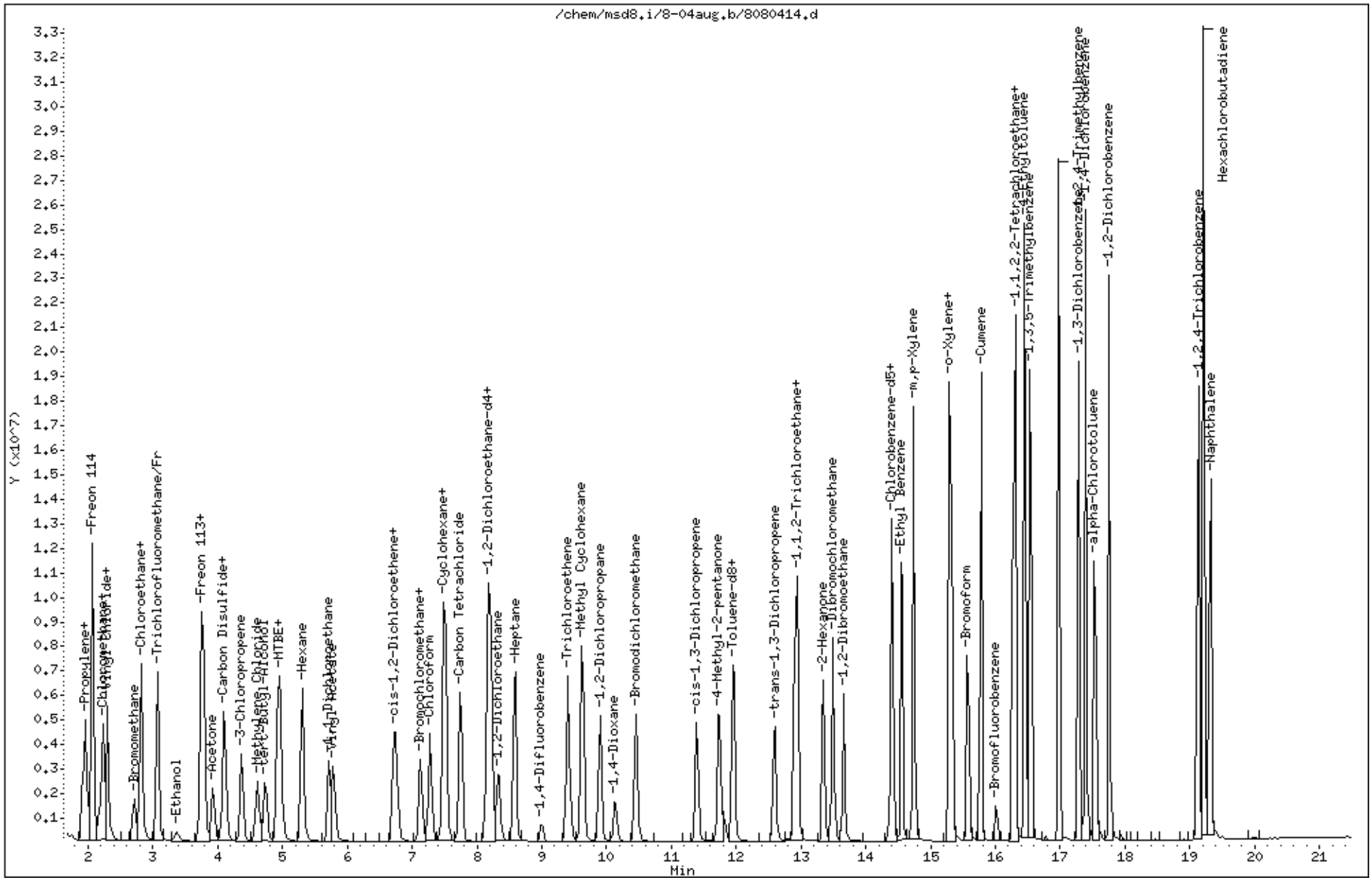
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0173

Data File: /chem/msd8.i/8-04aug.b/8080414.d
Date : 05-AUG-2008 02:37
Client ID: Level 7
Sample Info: 200mL #1612-92

Instrument: msd8.i
Operator: smd
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0808325-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 08:55 AM**	

Compound	%Recovery
Freon 12	93
Freon 114	102
Vinyl Chloride	106
Bromomethane	99
Chloroethane	108
Freon 11	92
1,1-Dichloroethene	92
Freon 113	98
Methylene Chloride	98
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	94
Chloroform	90
1,1,1-Trichloroethane	88
Carbon Tetrachloride	92
Benzene	104
1,2-Dichloroethane	97
Trichloroethene	106
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	83
Toluene	88
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	98
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	100
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	99
o-Xylene	103
Styrene	96
1,1,2,2-Tetrachloroethane	96
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	105
1,3-Butadiene	104
Hexane	101
Cyclohexane	89

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0808325-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 08:55 AM**	

Compound	%Recovery
Heptane	100
Bromodichloromethane	101
Dibromochloromethane	114
Cumene	103
Propylbenzene	111
Chloromethane	111
1,2,4-Trichlorobenzene	127
Hexachlorobutadiene	123
Acetone	102
Carbon Disulfide	105
2-Propanol	94
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	80
Tetrahydrofuran	78
1,4-Dioxane	86
4-Methyl-2-pentanone	75
2-Hexanone	84
Bromoform	120
4-Ethyltoluene	110
Ethanol	100
Methyl tert-butyl ether	83
3-Chloropropene	101
2,2,4-Trimethylpentane	89
Naphthalene	113

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 22-AUG-2008 08:55
Lab File ID: 8082202.d Init. Cal. Date(s): 04-AUG-2008 18-AUG-2008
Analysis Type: AIR Init. Cal. Times: 23:47 11:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-22aug.b/t14q804c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 82 1,2-Dichloroethane-d4	1.48544	1.28450	0.010	13.52758	30.00000	Averaged
$ 104 Toluene-d8	1.01543	0.92700	0.010	8.70838	30.00000	Averaged
$ 140 Bromofluorobenzene	0.52933	0.58327	0.010	-10.19041	30.00000	Averaged
3 Propylene	1.12830	1.12425	0.010	0.35975	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	3.93006	3.64037	0.010	7.37128	30.00000	Averaged
6 Freon 114	2.81266	2.85938	0.010	-1.66128	30.00000	Averaged
8 Chloromethane	1.20026	1.33429	0.010	-11.16707	30.00000	Averaged
11 Vinyl Chloride	1.54143	1.63431	0.010	-6.02552	30.00000	Averaged
10 1,3-Butadiene	1.15203	1.19476	0.010	-3.70855	30.00000	Averaged
13 Bromomethane	1.12760	1.11710	0.010	0.93100	30.00000	Averaged
16 Chloroethane	0.76160	0.82061	0.010	-7.74855	30.00000	Averaged
18 Trichlorofluoromethane/Fr11	4.15141	3.83034	0.010	7.73393	30.00000	Averaged
23 Ethanol	0.52227	0.52291	0.010	-0.12269	30.00000	Averaged
28 Freon 113	2.37168	2.31915	0.010	2.21463	30.00000	Averaged
29 1,1-Dichloroethene	2.42846	2.24243	0.010	7.66006	30.00000	Averaged
30 Acetone	0.69288	0.70929	0.010	-2.36828	30.00000	Averaged
34 2-Propanol	2.51981	2.36747	0.010	6.04581	30.00000	Averaged
33 Carbon Disulfide	3.98186	4.18155	0.010	-5.01505	30.00000	Averaged
37 3-Chloropropene	0.67815	0.68350	0.010	-0.78917	30.00000	Averaged
40 Methylene Chloride	1.65591	1.63268	0.010	1.40325	30.00000	Averaged
43 MTBE	4.31960	3.58927	0.010	16.90732	30.00000	Averaged
45 trans-1,2-Dichloroethene	1.58871	1.64521	0.010	-3.55634	30.00000	Averaged
46 Hexane	2.51397	2.53416	0.010	-0.80311	30.00000	Averaged
54 1,1-Dichloroethane	2.67121	2.60239	0.010	2.57636	30.00000	Averaged
55 Vinyl Acetate	0.40945	0.37125	0.010	9.32991	30.00000	Averaged
65 2-Butanone	0.81693	0.65160	0.010	20.23851	30.00000	Averaged
64 cis-1,2-Dichloroethene	1.96673	1.85196	0.010	5.83567	30.00000	Averaged
67 Tetrahydrofuran	1.99139	1.54780	0.010	22.27531	30.00000	Averaged
70 Chloroform	2.87390	2.58996	0.010	9.87994	30.00000	Averaged
75 1,1,1-Trichloroethane	3.30819	2.89673	0.010	12.43757	30.00000	Averaged
73 Cyclohexane	2.25800	2.00839	0.010	11.05475	30.00000	Averaged
77 Carbon Tetrachloride	3.13162	2.87191	0.010	8.29322	30.00000	Averaged
80 2,2,4-Trimethylpentane	7.79203	6.96271	0.010	10.64311	30.00000	Averaged
81 Benzene	1.09851	1.13700	0.010	-3.50303	30.00000	Averaged
83 1,2-Dichloroethane	0.52097	0.50423	0.010	3.21244	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 22-AUG-2008 08:55
Lab File ID: 8082202.d Init. Cal. Date(s): 04-AUG-2008 18-AUG-2008
Analysis Type: AIR Init. Cal. Times: 23:47 11:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-22aug.b/t14q804c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
85 Heptane	0.14211	0.14195	0.010	0.11246	30.00000	Averaged
94 Trichloroethene	0.46428	0.49116	0.010	-5.78902	30.00000	Averaged
97 1,2-Dichloropropane	0.38497	0.36791	0.010	4.43121	30.00000	Averaged
98 1,4-Dioxane	0.27120	0.23317	0.010	14.02583	30.00000	Averaged
100 Bromodichloromethane	0.71261	0.71850	0.010	-0.82686	30.00000	Averaged
102 cis-1,3-Dichloropropene	0.60368	0.50188	0.010	16.86249	30.00000	Averaged
103 4-Methyl-2-pentanone	0.35989	0.26976	0.010	25.04241	30.00000	Averaged
105 Toluene	1.29344	1.13285	0.010	12.41608	30.00000	Averaged
108 trans-1,3-Dichloropropene	0.70467	0.65309	0.010	7.31982	30.00000	Averaged
110 1,1,2-Trichloroethane	0.49829	0.48796	0.010	2.07256	30.00000	Averaged
112 Tetrachloroethene	0.60102	0.65809	0.010	-9.49523	30.00000	Averaged
114 2-Hexanone	0.52526	0.43908	0.010	16.40667	30.00000	Averaged
116 Dibromochloromethane	0.76563	0.87295	0.010	-14.01620	30.00000	Averaged
117 1,2-Dibromoethane	0.77347	0.77350	0.010	-0.00430	30.00000	Averaged
126 Chlorobenzene	1.19872	1.21262	0.010	-1.15973	30.00000	Averaged
129 Ethyl Benzene	0.62114	0.61167	0.010	1.52469	30.00000	Averaged
130 m,p-Xylene	0.79156	0.78471	0.010	0.86593	30.00000	Averaged
132 o-Xylene	0.77002	0.79392	0.010	-3.10388	30.00000	Averaged
134 Styrene	1.16477	1.12095	0.010	3.76210	30.00000	Averaged
135 Bromoform	0.61357	0.73613	0.010	-19.97469	30.00000	Averaged
144 1,1,2,2-Tetrachloroethane	1.03489	0.98884	0.010	4.44982	30.00000	Averaged
147 4-Ethyltoluene	2.25708	2.48473	0.010	-10.08606	30.00000	Averaged
148 1,3,5-Trimethylbenzene	2.01076	1.99612	0.010	0.72823	30.00000	Averaged
153 1,2,4-Trimethylbenzene	2.09312	2.22158	0.010	-6.13696	30.00000	Averaged
156 1,3-Dichlorobenzene	1.18171	1.28740	0.010	-8.94382	30.00000	Averaged
157 1,4-Dichlorobenzene	1.53106	1.65127	0.010	-7.85178	30.00000	Averaged
158 alpha-Chlorotoluene	1.61417	1.59272	0.010	1.32894	30.00000	Averaged
161 1,2-Dichlorobenzene	1.29956	1.36637	0.010	-5.14164	30.00000	Averaged
167 1,2,4-Trichlorobenzene	1.05324	1.33544	0.010	-26.79340	30.00000	Averaged
168 Hexachlorobutadiene	0.69696	0.85577	0.010	-22.78616	30.00000	Averaged
145 Propylbenzene	2.52559	2.79954	0.010	-10.84703	30.00000	Averaged
137 Cumene	2.26511	2.33119	0.010	-2.91742	30.00000	Averaged
169 Naphthalene	2.41470	2.72926	0.010	-13.02693	30.00000	Averaged
38 tert-Butyl-Alcohol	2.74066	2.17961	0.010	20.47145	40.00000	Averaged
9 Butane	0.34114	0.35504	0.010	-4.07447	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 22-AUG-2008 08:55
Lab File ID: 8082202.d Init. Cal. Date(s): 04-AUG-2008 18-AUG-2008
Analysis Type: AIR Init. Cal. Times: 23:47 11:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-22aug.b/t14q804c.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
15 Isopentane	1.85492	1.98236	0.010	-6.87051	30.00000	Averaged
95 Methyl Cyclohexane	3.00412	2.37971	0.010	20.78505	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22aug.b/8082202.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 22-AUG-2008 08:55
Operator : sjr Inst ID: msd8.i
Smp Info : 100mL #1541-210A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /chem/msd8.i/8-22aug.b/t14q804c.m
Meth Date : 22-Aug-2008 09:09 sscott Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane						CAS #: 74-97-5	
7.159	7.159 (1.000)	130	289404	25.0000		80.00- 120.00	100.00
7.159	7.159 (1.000)	128	222948			47.04- 107.04	77.04
7.131	7.131 (1.000)	49	372588			98.74- 158.74	128.74
* 88 1,4-Difluorobenzene						CAS #: 540-36-3	
9.012	9.012 (1.000)	114	1002117	25.0000		80.00- 120.00	100.00
9.012	9.012 (1.000)	88	156544			0.00- 45.62	15.62
* 125 Chlorobenzene-d5						CAS #: 3114-55-4	
14.376	14.376 (1.000)	117	795663	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	438603			0.00- 30.00	55.12
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0	
8.210	8.210 (1.147)	65	371738	25.0000	21.618	80.00- 120.00	100.00
8.210	8.210 (1.147)	67	212537			0.00- 30.00	57.17
$ 104 Toluene-d8						CAS #: 2037-26-5	
11.832	11.832 (1.313)	98	928962	25.0000	22.823	80.00- 120.00	100.00
11.832	11.832 (1.313)	70	96017			0.00- 30.00	10.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.313)	100	655084			0.00- 30.00	70.52
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	464088	25.0000	27.548	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	640294			107.97- 167.97	137.97
16.035	16.035 (1.115)	176	449370			66.83- 126.83	96.83
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.270)	41	650722	50.0000	49.820	80.00- 120.00	100.00
1.933	1.933 (0.270)	42	433992			0.00- 30.00	66.69
1.933	1.933 (0.270)	39	432206			0.00- 30.00	66.42
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.278)	85	2107074	50.0000	46.314	80.00- 120.00	100.00
1.989	1.989 (0.278)	87	674866			0.00- 30.00	32.03
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.289)	135	1655034	50.0000	50.831	80.00- 120.00	100.00
2.072	2.072 (0.289)	137	520775			1.47- 61.47	31.47
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.305)	50	772299	50.0000	55.584	80.00- 120.00	100.00
2.182	2.182 (0.305)	52	238899			0.00- 30.00	30.93
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.324)	62	945951	50.0000	53.013	80.00- 120.00	100.00
2.320	2.320 (0.324)	64	296033			0.00- 30.00	31.29
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.324)	54	691535	50.0000	51.854	80.00- 120.00	100.00
2.320	2.320 (0.324)	39	520119			0.00- 30.00	75.21
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.382)	94	646586	50.0000	49.534	80.00- 120.00	100.00
2.735	2.735 (0.382)	96	615176			65.14- 125.14	95.14
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.394)	64	474978	50.0000	53.874	80.00- 120.00	100.00
2.818	2.818 (0.394)	49	114313			0.00- 30.00	24.07
2.818	2.818 (0.394)	66	143423			0.00- 30.00	30.20
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.432)	101	2217034	50.0000	46.133	80.00- 120.00	100.00
3.095	3.095 (0.432)	103	1438696			34.89- 94.89	64.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.471)	45	302665	50.0000	50.061	80.00- 120.00	100.00
3.371	3.371 (0.471)	43	64088			0.00- 30.00	21.17
3.371	3.371 (0.471)	46	125469			0.00- 30.00	41.45
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.525)	151	1342345	50.0000	48.893	80.00- 120.00	100.00
3.758	3.758 (0.525)	153	873898			35.10- 95.10	65.10
3.758	3.758 (0.525)	101	1636891			91.94- 151.94	121.94
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.813	3.813 (0.533)	61	1297940	50.0000	46.170	80.00- 120.00	100.00
3.813	3.813 (0.533)	96	806450			32.13- 92.13	62.13
3.813	3.813 (0.533)	98	514707			9.66- 69.66	39.66
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.548)	58	410542	50.0000	51.184	80.00- 120.00	100.00
3.924	3.924 (0.548)	43	1246343			0.00- 30.00	303.58
34 2-Propanol					CAS #: 67-63-0		
4.118	4.118 (0.575)	45	1370311	50.0000	46.977	80.00- 120.00	100.00
4.118	4.118 (0.575)	43	317722			0.00- 30.00	23.19
4.118	4.118 (0.575)	59	59538			0.00- 30.00	4.34
33 Carbon Disulfide					CAS #: 75-15-0		
4.118	4.118 (0.575)	76	2420316	50.0000	52.508	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.394	4.394 (0.614)	76	395618	50.0000	50.394	80.00- 120.00	100.00
4.366	4.366 (0.610)	41	1093517			0.00- 30.00	276.41
40 Methylene Chloride					CAS #: 75-09-2		
4.615	4.615 (0.645)	49	945006	50.0000	49.298	80.00- 120.00	100.00
4.615	4.615 (0.645)	84	711764			45.32- 105.32	75.32
4.615	4.615 (0.645)	51	279217			0.00- 30.00	29.55
43 MTBE					CAS #: 1634-04-4		
4.947	4.947 (0.691)	73	2077499	50.0000	41.546	80.00- 120.00	100.00
4.947	4.947 (0.691)	57	500490			0.00- 54.09	24.09
4.947	4.947 (0.691)	41	505002			0.00- 30.00	24.31
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.695)	96	952262	50.0000	51.778	80.00- 120.00	100.00
4.975	4.975 (0.695)	61	1309253			107.49- 167.49	137.49
4.975	4.975 (0.695)	98	606910			0.00- 30.00	63.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.334	5.334 (0.745)	57	1466793	50.0000	50.402	80.00- 120.00	100.00
5.334	5.334 (0.745)	43	891637			0.00- 30.00	60.79
5.334	5.334 (0.745)	86	274133			0.00- 30.00	18.69
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.721	5.721 (0.799)	63	1506287	50.0000	48.712	80.00- 120.00	100.00
5.721	5.721 (0.799)	65	477080			1.67- 61.67	31.67
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.811)	86	214884	50.0000	45.335	80.00- 120.00	100.00
5.804	5.804 (0.811)	43	1973363			0.00- 30.00	918.34
5.804	5.804 (0.811)	42	164288			0.00- 30.00	76.45
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.946)	72	377150	50.0000	39.881	80.00- 120.00	100.00
6.772	6.772 (0.946)	43	1497552			367.07- 427.07	397.07
6.772	6.772 (0.946)	57	124200			0.00- 30.00	32.93
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.938)	61	1071928	50.0000	47.082	80.00- 120.00	100.00
6.717	6.717 (0.938)	96	839760			48.34- 108.34	78.34
6.744	6.744 (0.942)	98	535820			19.99- 79.99	49.99
67 Tetrahydrofuran					CAS #: 109-99-9		
7.131	7.131 (0.996)	42	895879	50.0000	38.862	80.00- 120.00	100.00
7.131	7.131 (0.996)	71	335584			7.46- 67.46	37.46
7.131	7.131 (0.996)	72	363992			0.00- 30.00	40.63
70 Chloroform					CAS #: 67-66-3		
7.297	7.297 (1.019)	83	1499092	50.0000	45.060	80.00- 120.00	100.00
7.297	7.297 (1.019)	85	971906			34.83- 94.83	64.83
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.050)	97	1676651	50.0000	43.781	80.00- 120.00	100.00
7.519	7.519 (1.050)	99	1072248			33.95- 93.95	63.95
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.046)	84	1162471	50.0000	44.473	80.00- 120.00	100.00
7.491	7.491 (1.046)	56	1355074			86.57- 146.57	116.57
7.491	7.491 (1.046)	41	684339			28.87- 88.87	58.87
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.767	7.767 (1.085)	119	1662286	50.0000	45.853	80.00- 120.00	100.00
7.767	7.767 (1.085)	117	1739279			74.63- 134.63	104.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.210	8.210 (1.147)	57	4030078	50.0000	44.678	80.00- 120.00	100.00
8.210	8.210 (1.147)	56	1298729			0.00- 30.00	32.23
8.210	8.210 (1.147)	41	954721			0.00- 30.00	23.69
81 Benzene					CAS #: 71-43-2		
8.182	8.182 (0.908)	78	2278807	50.0000	51.752	80.00- 120.00	100.00
8.182	8.182 (0.908)	77	530901			0.00- 30.00	23.30
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.926)	62	1010597	50.0000	48.394	80.00- 120.00	100.00
8.348	8.348 (0.926)	64	332833			0.00- 30.00	32.93
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.954)	100	284493	50.0000	49.944	80.00- 120.00	100.00
8.597	8.597 (0.954)	43	1342421			0.00- 30.00	471.86
8.597	8.597 (0.954)	71	784272			0.00- 30.00	275.67
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.043)	95	984394	50.0000	52.894	80.00- 120.00	100.00
9.399	9.399 (1.043)	130	1049093			76.57- 136.57	106.57
9.399	9.399 (1.043)	97	630542			34.05- 94.05	64.05
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.896	9.896 (1.098)	63	737385	50.0000	47.784	80.00- 120.00	100.00
9.896	9.896 (1.098)	62	520258			40.55- 100.55	70.55
9.896	9.896 (1.098)	41	440682			29.76- 89.76	59.76
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.126)	88	467319	50.0000	42.987	80.00- 120.00	100.00
10.145	10.145 (1.126)	58	325625			39.68- 99.68	69.68
10.145	10.145 (1.126)	57	109127			0.00- 30.00	23.35
100 Bromodichloromethane					CAS #: 75-27-4		
10.449	10.449 (1.160)	83	1440038	50.0000	50.413	80.00- 120.00	100.00
10.477	10.477 (1.163)	85	923606			34.14- 94.14	64.14
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.389	11.389 (1.264)	75	1005891	50.0000	41.569	80.00- 120.00	100.00
11.389	11.389 (1.264)	77	323606			2.17- 62.17	32.17
11.389	11.389 (1.264)	39	517387			21.44- 81.44	51.44
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.304)	58	540665	50.0000	37.479	80.00- 120.00	100.00
11.749	11.749 (1.304)	43	1332144			0.00- 30.00	246.39
11.749	11.749 (1.304)	85	251981			0.00- 30.00	46.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.970	11.970 (1.328)	91	2270494	50.0000	43.792	80.00- 120.00	100.00
11.970	11.970 (1.328)	92	1356599			29.75- 89.75	59.75
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	1039283	50.0000	46.340	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	323679			1.14- 61.14	31.14
12.606	12.606 (0.877)	39	498234			17.94- 77.94	47.94
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	776503	50.0000	48.964	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	495150			33.77- 93.77	63.77
12.910	12.910 (0.898)	83	615246			49.23- 109.23	79.23
112 Tetrachloroethene					CAS #: 127-18-4		
12.965	12.965 (0.902)	166	1047230	50.0000	54.748	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	842594			50.46- 110.46	80.46
12.938	12.938 (0.900)	131	819555			48.26- 108.26	78.26
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	698726	50.0000	41.797	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1283555			153.70- 213.70	183.70
13.353	13.353 (0.929)	100	165820			0.00- 30.00	23.73
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1389140	50.0000	57.008	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	1076795			0.00- 30.00	77.52
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1230891	50.0000	50.002	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	1178313			65.73- 125.73	95.73
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1929675	50.0000	50.580	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	613518			1.79- 61.79	31.79
14.403	14.403 (1.002)	77	1055732			24.71- 84.71	54.71
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	973370	50.0000	49.238	80.00- 120.00	100.00
14.569	14.569 (1.013)	91	3102120			0.00- 30.00	318.70
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1248725	50.0000	49.567	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2583028			0.00- 30.00	206.85
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1263379	50.0000	51.552	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	2699212			183.65- 243.65	213.65
134 Styrene					CAS #: 100-42-5		
15.343	15.343 (1.067)	104	1783803	50.0000	48.119	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	934748			22.40- 82.40	52.40
135 Bromoform					CAS #: 75-25-2		
15.592	15.592 (1.085)	173	1171418	50.0000	59.987	80.00- 120.00	100.00
15.592	15.592 (1.085)	171	608167			21.92- 81.92	51.92
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1573564	50.0000	47.775	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	1027173			35.28- 95.28	65.28
147 4-Ethyltoluene					CAS #: 622-96-8		
16.449	16.449 (1.144)	105	3954020	50.0000	55.043	80.00- 120.00	100.00
16.449	16.449 (1.144)	120	1190647			0.11- 60.11	30.11
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	3176473	50.0000	49.636	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1614049			0.00- 30.00	50.81
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3535256	50.0000	53.068	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1623003			15.91- 75.91	45.91
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	2048667	50.0000	54.472	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1293361			0.00- 30.00	63.13
17.279	17.279 (1.202)	111	898667			0.00- 30.00	43.87
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.389	17.389 (1.210)	146	2627711	50.0000	53.926	80.00- 120.00	100.00
17.389	17.389 (1.210)	148	1660353			0.00- 30.00	63.19
17.389	17.389 (1.210)	111	1072460			0.00- 30.00	40.81
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.555	17.555 (1.221)	91	2534529	50.0000	49.336	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	518961			0.00- 30.00	20.48
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	2174346	50.0000	52.571	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1390444			33.95- 93.95	63.95
17.749	17.749 (1.235)	111	1024221			17.10- 77.10	47.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	2125124	50.0000	63.397	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	2021949			65.15- 125.15	95.15
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1361813	50.0000	61.393	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	881999			34.77- 94.77	64.77
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	4454979	50.0000	55.424	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	1090707			0.00- 30.00	24.48
16.311	16.311 (1.135)	105	164046			0.00- 30.00	3.68
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3709687	50.0000	51.459	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	1031639			0.00- 30.00	27.81
15.786	15.786 (1.098)	51	330786			0.00- 30.00	8.92
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	4343142	50.0000	56.513	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	534564			0.00- 30.00	12.31
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.754	4.754 (0.664)	59	1261574	50.0000	39.764	80.00- 120.00	100.00
4.754	4.754 (0.664)	41	328402			0.00- 30.00	26.03
4.754	4.754 (0.664)	57	126971			0.00- 30.00	10.06
9 Butane					CAS #: 106-97-8		
2.237	2.237 (0.313)	58	205500	50.0000	52.037	80.00- 120.00	100.00
2.237	2.237 (0.313)	43	1450749			0.00- 30.00	705.96
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.398)	43	1147407	50.0000	53.435	80.00- 120.00	100.00
2.846	2.846 (0.398)	57	813115			0.00- 30.00	70.87
2.846	2.846 (0.398)	72	96353			0.00- 30.00	8.40
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.648	9.648 (1.348)	83	1377396	50.0000	39.607	80.00- 120.00	100.00
9.648	9.648 (1.348)	98	700879			0.00- 30.00	50.88
9.620	9.620 (1.344)	55	1097201			0.00- 30.00	79.66

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8082202.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 22-AUG-2008
Calibration Time: 08:55
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	289404	173642	405166	289404	0.00
88 1,4-Difluorobenze	1002117	601270	1402964	1002117	0.00
125 Chlorobenzene-d5	795663	477398	1113928	795663	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.16	0.00
88 1,4-Difluorobenze	9.01	8.68	9.34	9.01	0.00
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	0.00

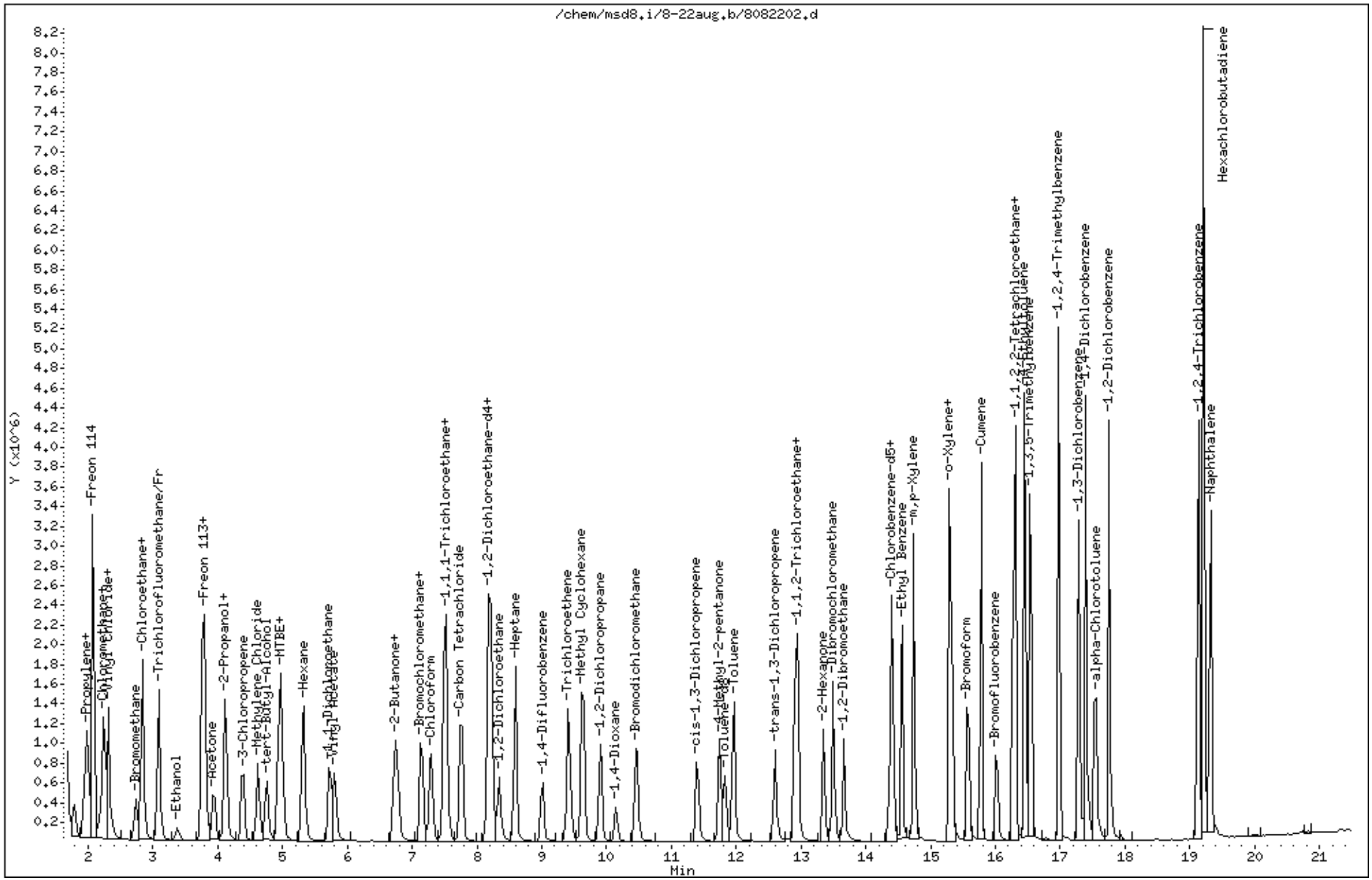
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0188

Data File: /chem/msd8.i/8-22aug.b/8082202.d
Date : 22-AUG-2008 08:55
Client ID: CCV-1
Sample Info: 100mL #1541-210A

Instrument: msd8.i
Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808325-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 09:43 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	94
Vinyl Chloride	102
Bromomethane	98
Chloroethane	104
Freon 11	88
1,1-Dichloroethene	99
Freon 113	106
Methylene Chloride	103
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	94
Chloroform	89
1,1,1-Trichloroethane	87
Carbon Tetrachloride	90
Benzene	98
1,2-Dichloroethane	94
Trichloroethene	98
1,2-Dichloropropane	91
cis-1,3-Dichloropropene	77
Toluene	88
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	95
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	94
Chlorobenzene	98
Ethyl Benzene	94
m,p-Xylene	96
o-Xylene	98
Styrene	90
1,1,2,2-Tetrachloroethane	96
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	104
1,3-Butadiene	98
Hexane	99
Cyclohexane	86

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0808325-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8082203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/22/08 09:43 AM**	

Compound	%Recovery
Heptane	93
Bromodichloromethane	96
Dibromochloromethane	110
Cumene	100
Propylbenzene	106
Chloromethane	118
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	117
Acetone	98
Carbon Disulfide	101
2-Propanol	93
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	78
Tetrahydrofuran	75
1,4-Dioxane	84
4-Methyl-2-pentanone	71
2-Hexanone	79
Bromoform	115
4-Ethyltoluene	108
Ethanol	94
Methyl tert-butyl ether	81
3-Chloropropene	99
2,2,4-Trimethylpentane	88
Naphthalene	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	107	70-130

Report Date: 22-Aug-2008 09:50

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-21aug
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	44.976	89.95	70-130
108 trans-1,3-Dichloro	50.000	44.923	89.85	70-130
3 Propylene	50.000	52.025	104.05	60-140
4 Dichlorodifluorome	50.000	45.075	90.15	70-130
6 Freon 114	50.000	47.271	94.54	70-130
8 Chloromethane	50.000	58.838	117.68	70-130
11 Vinyl Chloride	50.000	51.218	102.44	70-130
10 1,3-Butadiene	50.000	49.216	98.43	60-140
13 Bromomethane	50.000	48.959	97.92	70-130
16 Chloroethane	50.000	52.255	104.51	70-130
18 Trichlorofluoromet	50.000	43.802	87.60	70-130
23 Ethanol	50.000	47.219	94.44	60-140
28 Freon 113	50.000	52.970	105.94	70-130
29 1,1-Dichloroethene	50.000	49.427	98.85	70-130
30 Acetone	50.000	49.016	98.03	60-140
33 Carbon Disulfide	50.000	50.617	101.23	60-140
34 2-Propanol	50.000	46.595	93.19	60-140
40 Methylene Chloride	50.000	51.689	103.38	70-130
43 MTBE	50.000	40.533	81.07	60-140
45 trans-1,2-Dichloro	50.000	49.898	99.80	60-140
46 Hexane	50.000	49.588	99.18	60-140
54 1,1-Dichloroethane	50.000	48.752	97.50	70-130
55 Vinyl Acetate	50.000	42.978	85.96	60-140
64 cis-1,2-Dichloroet	50.000	46.826	93.65	70-130
65 2-Butanone	50.000	39.184	78.37	60-140
67 Tetrahydrofuran	50.000	37.472	74.94	60-140
70 Chloroform	50.000	44.440	88.88	70-130
73 Cyclohexane	50.000	43.144	86.29	60-140
75 1,1,1-Trichloroeth	50.000	43.389	86.78	70-130
77 Carbon Tetrachlori	50.000	44.993	89.99	70-130
81 Benzene	50.000	49.174	98.35	70-130
83 1,2-Dichloroethane	50.000	46.842	93.68	70-130
85 Heptane	50.000	46.411	92.82	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	49.117	98.23	70-130
97 1,2-Dichloropropan	50.000	45.550	91.10	70-130
98 1,4-Dioxane	50.000	41.972	83.94	60-140
100 Bromodichlorometha	50.000	47.815	95.63	60-140
102 cis-1,3-Dichloropr	50.000	38.698	77.40	70-130
103 4-Methyl-2-pentano	50.000	35.630	71.26	60-140
105 Toluene	50.000	43.751	87.50	70-130
110 1,1,2-Trichloroeth	50.000	47.572	95.14	70-130
112 Tetrachloroethene	50.000	52.148	104.30	70-130
114 2-Hexanone	50.000	39.519	79.04	60-140
116 Dibromochlorometha	50.000	54.998	110.00	60-140
117 1,2-Dibromoethane	50.000	47.085	94.17	70-130
126 Chlorobenzene	50.000	49.253	98.51	70-130
129 Ethyl Benzene	50.000	46.829	93.66	70-130
130 m,p-Xylene	50.000	47.897	95.79	70-130
132 o-Xylene	50.000	49.228	98.46	70-130
135 Bromoform	50.000	57.312	114.62	60-140
144 1,1,2,2-Tetrachlor	50.000	47.989	95.98	70-130
147 4-Ethyltoluene	50.000	53.840	107.68	60-140
148 1,3,5-Trimethylben	50.000	48.949	97.90	70-130
153 1,2,4-Trimethylben	50.000	51.325	102.65	70-130
156 1,3-Dichlorobenzen	50.000	53.627	107.25	70-130
157 1,4-Dichlorobenzen	50.000	52.195	104.39	70-130
158 alpha-Chlorotoluen	50.000	49.214	98.43	70-130
161 1,2-Dichlorobenzen	50.000	51.781	103.56	70-130
167 1,2,4-Trichloroben	50.000	58.920	117.84	70-130
168 Hexachlorobutadien	50.000	58.619	117.24	70-130
137 Cumene	50.000	49.753	99.51	60-140
145 Propylbenzene	50.000	52.760	105.52	60-140
37 3-Chloropropene	50.000	49.610	99.22	60-140
80 2,2,4-Trimethylpen	50.000	43.851	87.70	60-140
169 Naphthalene	50.000	52.563	105.13	60-140
9 Butane	50.000	51.362	102.72	70-130
15 Isopentane	50.000	50.384	100.77	70-130
95 Methyl Cyclohexane	50.000	39.264	78.53	70-130
38 tert-Butyl-Alcohol	50.000	35.315	70.63	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	21.844	87.38	70-130
$ 104 Toluene-d8	25.000	21.958	87.83	70-130
$ 140 Bromofluorobenzene	25.000	26.752	107.01	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22aug.b/8082203.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-AUG-2008 09:43
Operator : sjr Inst ID: msd8.i
Smp Info : 100mL #1612-74A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /chem/msd8.i/8-22aug.b/t14q804c.m
Meth Date : 22-Aug-2008 09:09 sscott Quant Type: ISTD
Cal Date : 18-AUG-2008 11:24 Cal File: 8081804.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
* 68 Bromochloromethane					CAS #: 74-97-5		
7.132	7.159 (1.000)	130	255663	25.0000		80.00- 120.00	100.00
7.132	7.159 (1.000)	128	201873			47.04- 107.04	78.96
7.132	7.131 (1.000)	49	322612			98.74- 158.74	126.19
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
8.984	9.012 (1.000)	114	912909	25.0000		80.00- 120.00	100.00
8.984	9.012 (1.000)	88	138508			0.00- 45.62	15.17
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.376	14.376 (1.000)	117	715909	25.0000		80.00- 120.00	100.00
14.376	14.376 (1.000)	82	399694			0.00- 30.00	55.83
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.182	8.210 (1.147)	65	331828	21.8439	21.844	80.00- 120.00	100.00
8.182	8.210 (1.147)	67	189892			0.00- 30.00	57.23
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.832	11.832 (1.317)	98	814189	21.9578	21.958	80.00- 120.00	100.00
11.804	11.832 (1.314)	70	89207			0.00- 30.00	10.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.832	11.832 (1.317)	100	551268			0.00- 30.00	67.71
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.035	16.035 (1.115)	174	405519	26.7526	26.752	80.00- 120.00	100.00
16.007	16.007 (1.113)	95	578410			107.97- 167.97	142.63
16.035	16.035 (1.115)	176	396064			66.83- 126.83	97.67
3 Propylene					CAS #: 115-07-1		
1.906	1.933 (0.267)	41	600297	52.0250	52.025	80.00- 120.00	100.00
1.906	1.933 (0.267)	42	407597			0.00- 30.00	67.90
1.906	1.933 (0.267)	39	415053			0.00- 30.00	69.14
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.989 (0.275)	85	1811602	45.0749	45.075	80.00- 120.00	100.00
1.961	1.989 (0.275)	87	588815			0.00- 30.00	32.50
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.290)	135	1359684	47.2708	47.271	80.00- 120.00	100.00
2.072	2.072 (0.290)	137	435162			1.47- 61.47	32.00
8 Chloromethane					CAS #: 74-87-3		
2.155	2.182 (0.302)	50	722203	58.8378	58.838	80.00- 120.00	100.00
2.155	2.182 (0.302)	52	224212			0.00- 30.00	31.05
11 Vinyl Chloride					CAS #: 75-01-4		
2.293	2.320 (0.322)	62	807368	51.2176	51.218	80.00- 120.00	100.00
2.293	2.320 (0.322)	64	255008			0.00- 30.00	31.59
10 1,3-Butadiene					CAS #: 106-99-0		
2.293	2.320 (0.322)	54	579825	49.2157	49.216	80.00- 120.00	100.00
2.293	2.320 (0.322)	39	373051			0.00- 30.00	64.34
13 Bromomethane					CAS #: 74-83-9		
2.708	2.735 (0.380)	94	564572	48.9595	48.959	80.00- 120.00	100.00
2.708	2.735 (0.380)	96	542133			65.14- 125.14	96.03
16 Chloroethane					CAS #: 75-00-3		
2.791	2.818 (0.391)	64	406989	52.2550	52.255	80.00- 120.00	100.00
2.791	2.818 (0.391)	49	100432			0.00- 30.00	24.68
2.791	2.818 (0.391)	66	129427			0.00- 30.00	31.80
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.067	3.095 (0.430)	101	1859607	43.8023	43.802	80.00- 120.00	100.00
3.067	3.095 (0.430)	103	1217365			34.89- 94.89	65.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.344	3.371 (0.469)	45	252199	47.2193	47.219	80.00- 120.00	100.00
3.344	3.371 (0.469)	43	49877			0.00- 30.00	19.78
3.344	3.371 (0.469)	46	101369			0.00- 30.00	40.19
28 Freon 113					CAS #: 76-13-1		
3.758	3.758 (0.527)	151	1284746	52.9704	52.970	80.00- 120.00	100.00
3.758	3.758 (0.527)	153	831714			35.10- 95.10	64.74
3.758	3.758 (0.527)	101	1526260			91.94- 151.94	118.80
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.786	3.813 (0.531)	61	1227504	49.4270	49.427	80.00- 120.00	100.00
3.786	3.813 (0.531)	96	783074			32.13- 92.13	63.79
3.786	3.813 (0.531)	98	489861			9.66- 69.66	39.91
30 Acetone					CAS #: 67-64-1		
3.924	3.924 (0.550)	58	347318	49.0163	49.016	80.00- 120.00	100.00
3.924	3.924 (0.550)	43	1059316			0.00- 30.00	305.00
34 2-Propanol					CAS #: 67-63-0		
4.090	4.118 (0.574)	45	1200716	46.5954	46.595	80.00- 120.00	100.00
4.090	4.118 (0.574)	43	255880			0.00- 30.00	21.31
4.090	4.118 (0.574)	59	48024			0.00- 30.00	4.00
33 Carbon Disulfide					CAS #: 75-15-0		
4.090	4.118 (0.574)	76	2061176	50.6175	50.617	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.367	4.394 (0.612)	76	344051	49.6097	49.610	80.00- 120.00	100.00
4.367	4.366 (0.612)	41	942766			0.00- 30.00	274.02
40 Methylene Chloride					CAS #: 75-09-2		
4.588	4.615 (0.643)	49	875308	51.6886	51.689	80.00- 120.00	100.00
4.588	4.615 (0.643)	84	650327			45.32- 105.32	74.30
4.588	4.615 (0.643)	51	261143			0.00- 30.00	29.83
43 MTBE					CAS #: 1634-04-4		
4.920	4.947 (0.690)	73	1790541	40.5334	40.533	80.00- 120.00	100.00
4.920	4.947 (0.690)	57	434186			0.00- 54.09	24.25
4.920	4.947 (0.690)	41	421374			0.00- 30.00	23.53
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
4.975	4.975 (0.698)	96	810685	49.8975	49.898	80.00- 120.00	100.00
4.975	4.975 (0.698)	61	1124416			107.49- 167.49	138.70
4.975	4.975 (0.698)	98	507666			0.00- 30.00	62.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.307	5.334 (0.744)	57	1274858	49.5876	49.588	80.00- 120.00	100.00
5.307	5.334 (0.744)	43	767821			0.00- 30.00	60.23
5.307	5.334 (0.744)	86	232950			0.00- 30.00	18.27
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.722	5.721 (0.802)	63	1331778	48.7523	48.752	80.00- 120.00	100.00
5.722	5.721 (0.802)	65	427121			1.67- 61.67	32.07
55 Vinyl Acetate					CAS #: 108-05-4		
5.804	5.804 (0.814)	86	179961	42.9779	42.978	80.00- 120.00	100.00
5.777	5.804 (0.810)	43	1694797			0.00- 30.00	941.75
5.777	5.804 (0.810)	42	140817			0.00- 30.00	78.25
65 2-Butanone					CAS #: 78-93-3		
6.772	6.772 (0.950)	72	327359	39.1841	39.184	80.00- 120.00	100.00
6.772	6.772 (0.950)	43	1298791			367.07- 427.07	396.75
6.772	6.772 (0.950)	57	109315			0.00- 30.00	33.39
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.717	6.717 (0.942)	61	941806	46.8262	46.826	80.00- 120.00	100.00
6.717	6.717 (0.942)	96	726376			48.34- 108.34	77.13
6.717	6.744 (0.942)	98	466661			19.99- 79.99	49.55
67 Tetrahydrofuran					CAS #: 109-99-9		
7.132	7.131 (1.000)	42	763115	37.4719	37.472	80.00- 120.00	100.00
7.132	7.131 (1.000)	71	287307			7.46- 67.46	37.65
7.132	7.131 (1.000)	72	300011			0.00- 30.00	39.31
70 Chloroform					CAS #: 67-66-3		
7.270	7.297 (1.019)	83	1306107	44.4404	44.440	80.00- 120.00	100.00
7.270	7.297 (1.019)	85	864606			34.83- 94.83	66.20
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.519	7.519 (1.054)	97	1467917	43.3893	43.389	80.00- 120.00	100.00
7.519	7.519 (1.054)	99	947352			33.95- 93.95	64.54
73 Cyclohexane					CAS #: 110-82-7		
7.491	7.491 (1.050)	84	996265	43.1442	43.144	80.00- 120.00	100.00
7.491	7.491 (1.050)	56	1167210			86.57- 146.57	117.16
7.491	7.491 (1.050)	41	596699			28.87- 88.87	59.89
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.740	7.767 (1.085)	119	1440942	44.9933	44.993	80.00- 120.00	100.00
7.740	7.767 (1.085)	117	1498247			74.63- 134.63	103.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.182	8.210 (1.147)	57	3494323	43.8514	43.851	80.00- 120.00	100.00
8.182	8.210 (1.147)	56	1114856			0.00- 30.00	31.90
8.182	8.210 (1.147)	41	822857			0.00- 30.00	23.55
81 Benzene					CAS #: 71-43-2		
8.155	8.182 (0.908)	78	1972565	49.1743	49.174	80.00- 120.00	100.00
8.155	8.182 (0.908)	77	447657			0.00- 30.00	22.69
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.348	8.348 (0.929)	62	891106	46.8416	46.842	80.00- 120.00	100.00
8.321	8.348 (0.926)	64	285866			0.00- 30.00	32.08
85 Heptane					CAS #: 142-82-5		
8.597	8.597 (0.957)	100	240837	46.4112	46.411	80.00- 120.00	100.00
8.569	8.597 (0.954)	43	1176118			0.00- 30.00	488.35
8.597	8.597 (0.957)	71	680882			0.00- 30.00	282.72
94 Trichloroethene					CAS #: 79-01-6		
9.399	9.399 (1.046)	95	832717	49.1168	49.117	80.00- 120.00	100.00
9.399	9.399 (1.046)	130	883894			76.57- 136.57	106.15
9.399	9.399 (1.046)	97	529747			34.05- 94.05	63.62
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.897	9.896 (1.102)	63	640329	45.5497	45.550	80.00- 120.00	100.00
9.897	9.896 (1.102)	62	450962			40.55- 100.55	70.43
9.897	9.896 (1.102)	41	385297			29.76- 89.76	60.17
98 1,4-Dioxane					CAS #: 123-91-1		
10.145	10.145 (1.129)	88	415669	41.9723	41.972	80.00- 120.00	100.00
10.118	10.145 (1.126)	58	284667			39.68- 99.68	68.48
10.145	10.145 (1.129)	57	88904			0.00- 30.00	21.39
100 Bromodichloromethane					CAS #: 75-27-4		
10.450	10.449 (1.163)	83	1244236	47.8152	47.815	80.00- 120.00	100.00
10.450	10.477 (1.163)	85	796456			34.14- 94.14	64.01
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.390	11.389 (1.268)	75	853061	38.6978	38.698	80.00- 120.00	100.00
11.390	11.389 (1.268)	77	278016			2.17- 62.17	32.59
11.390	11.389 (1.268)	39	440525			21.44- 81.44	51.64
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.749	11.749 (1.308)	58	468240	35.6300	35.630	80.00- 120.00	100.00
11.749	11.749 (1.308)	43	1165175			0.00- 30.00	248.84
11.749	11.749 (1.308)	85	213070			0.00- 30.00	45.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
11.943	11.970 (1.329)	91	2066450	43.7512	43.751	80.00- 120.00	100.00
11.943	11.970 (1.329)	92	1237569			29.75- 89.75	59.89
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.606	12.606 (0.877)	75	906519	44.9232	44.923	80.00- 120.00	100.00
12.606	12.606 (0.877)	77	278102			1.14- 61.14	30.68
12.606	12.606 (0.877)	39	423413			17.94- 77.94	46.71
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.910	12.910 (0.898)	97	678813	47.5721	47.572	80.00- 120.00	100.00
12.910	12.910 (0.898)	99	425097			33.77- 93.77	62.62
12.910	12.910 (0.898)	83	529929			49.23- 109.23	78.07
112 Tetrachloroethene					CAS #: 127-18-4		
12.938	12.965 (0.900)	166	897519	52.1480	52.148	80.00- 120.00	100.00
12.938	12.938 (0.900)	129	743729			50.46- 110.46	82.87
12.938	12.938 (0.900)	131	714907			48.26- 108.26	79.65
114 2-Hexanone					CAS #: 591-78-6		
13.353	13.353 (0.929)	58	594427	39.5188	39.519	80.00- 120.00	100.00
13.353	13.353 (0.929)	43	1084215			153.70- 213.70	182.40
13.353	13.353 (0.929)	100	140378			0.00- 30.00	23.62
116 Dibromochloromethane					CAS #: 124-48-1		
13.491	13.491 (0.938)	129	1205832	54.9982	54.998	80.00- 120.00	100.00
13.491	13.491 (0.938)	127	916702			0.00- 30.00	76.02
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.657	13.657 (0.950)	107	1042910	47.0854	47.085	80.00- 120.00	100.00
13.657	13.657 (0.950)	109	983884			65.73- 125.73	94.34
126 Chlorobenzene					CAS #: 108-90-7		
14.403	14.403 (1.002)	112	1690695	49.2526	49.253	80.00- 120.00	100.00
14.403	14.403 (1.002)	114	546604			1.79- 61.79	32.33
14.403	14.403 (1.002)	77	944644			24.71- 84.71	55.87
129 Ethyl Benzene					CAS #: 100-41-4		
14.569	14.569 (1.013)	106	832955	46.8287	46.829	80.00- 120.00	100.00
14.542	14.569 (1.012)	91	2669641			0.00- 30.00	320.50
130 m,p-Xylene					CAS #: 108-38-3		
14.735	14.735 (1.025)	106	1085702	47.8969	47.897	80.00- 120.00	100.00
14.735	14.735 (1.025)	91	2220402			0.00- 30.00	204.51
132 o-Xylene					CAS #: 95-47-6		
15.288	15.288 (1.063)	106	1085500	49.2280	49.228	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.288	15.288 (1.063)	91	2312659			183.65- 243.65	213.05
134 Styrene					CAS #: 100-42-5		
15.316	15.343 (1.065)	104	1500185	44.9764	44.976	80.00- 120.00	100.00
15.316	15.316 (1.065)	78	817777			22.40- 82.40	54.51
135 Bromoform					CAS #: 75-25-2		
15.565	15.592 (1.083)	173	1006994	57.3120	57.312	80.00- 120.00	100.00
15.565	15.592 (1.083)	171	516280			21.92- 81.92	51.27
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.256	16.256 (1.131)	83	1422191	47.9894	47.989	80.00- 120.00	100.00
16.256	16.256 (1.131)	85	908149			35.28- 95.28	63.86
147 4-Ethyltoluene					CAS #: 622-96-8		
16.450	16.449 (1.144)	105	3479918	53.8398	53.840	80.00- 120.00	100.00
16.450	16.449 (1.144)	120	1036500			0.11- 60.11	29.79
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.532	16.532 (1.150)	105	2818528	48.9490	48.949	80.00- 120.00	100.00
16.532	16.532 (1.150)	120	1392188			0.00- 30.00	49.39
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
16.975	16.975 (1.181)	105	3076389	51.3249	51.325	80.00- 120.00	100.00
16.975	16.975 (1.181)	120	1416457			15.91- 75.91	46.04
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.279	17.279 (1.202)	146	1814720	53.6268	53.627	80.00- 120.00	100.00
17.279	17.279 (1.202)	148	1135066			0.00- 30.00	62.55
17.279	17.279 (1.202)	111	770295			0.00- 30.00	42.45
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.390	17.389 (1.210)	146	2288419	52.1947	52.195	80.00- 120.00	100.00
17.390	17.389 (1.210)	148	1438204			0.00- 30.00	62.85
17.390	17.389 (1.210)	111	739963			0.00- 30.00	32.34
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.528	17.555 (1.219)	91	2274889	49.2146	49.214	80.00- 120.00	100.00
17.555	17.555 (1.221)	126	487995			0.00- 30.00	21.45
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.749	17.749 (1.235)	146	1927006	51.7809	51.781	80.00- 120.00	100.00
17.749	17.749 (1.235)	148	1207272			33.95- 93.95	62.65
17.749	17.749 (1.235)	111	874686			17.10- 77.10	45.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.131	19.131 (1.331)	180	1777085	58.9198	58.920	80.00- 120.00	100.00
19.131	19.131 (1.331)	182	1685920			65.15- 125.15	94.87
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.214	19.214 (1.337)	225	1169945	58.6190	58.619	80.00- 120.00	100.00
19.214	19.214 (1.337)	223	748413			34.77- 94.77	63.97
145 Propylbenzene					CAS #: 103-65-1		
16.311	16.311 (1.135)	91	3815806	52.7601	52.760	80.00- 120.00	100.00
16.311	16.311 (1.135)	120	941575			0.00- 30.00	24.68
16.311	16.311 (1.135)	105	145482			0.00- 30.00	3.81
137 Cumene					CAS #: 98-82-8		
15.786	15.786 (1.098)	105	3227216	49.7531	49.753	80.00- 120.00	100.00
15.786	15.786 (1.098)	120	913677			0.00- 30.00	28.31
15.786	15.786 (1.098)	51	293193			0.00- 30.00	9.09
169 Naphthalene					CAS #: 91-20-3		
19.325	19.325 (1.344)	128	3634641	52.5630	52.563	80.00- 120.00	100.00
19.325	19.325 (1.344)	127	444733			0.00- 30.00	12.24
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.726	4.754 (0.663)	59	989792	35.3151	35.315	80.00- 120.00	100.00
4.726	4.754 (0.663)	41	253019			0.00- 30.00	25.56
4.726	4.754 (0.663)	57	104006			0.00- 30.00	10.51
9 Butane					CAS #: 106-97-8		
2.238	2.237 (0.314)	58	179185	51.3618	51.362	80.00- 120.00	100.00
2.238	2.237 (0.314)	43	1243629			0.00- 30.00	694.05
15 Isopentane					CAS #: 78-78-4		
2.818	2.846 (0.395)	43	955748	50.3837	50.384	80.00- 120.00	100.00
2.818	2.846 (0.395)	57	673638			0.00- 30.00	70.48
2.818	2.846 (0.395)	72	77012			0.00- 30.00	8.06
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.620	9.648 (1.349)	83	1206270	39.2644	39.264	80.00- 120.00	100.00
9.620	9.648 (1.349)	98	613755			0.00- 30.00	50.88
9.620	9.620 (1.349)	55	960243			0.00- 30.00	79.60

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8082203.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22aug.b/t14q804c.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 22-AUG-2008
Calibration Time: 08:55
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	289404	173642	405166	255663	-11.66
88 1,4-Difluorobenze	1002117	601270	1402964	912909	-8.90
125 Chlorobenzene-d5	795663	477398	1113928	715909	-10.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.16	6.83	7.49	7.13	-0.38
88 1,4-Difluorobenze	9.01	8.68	9.34	8.98	-0.30
125 Chlorobenzene-d5	14.38	14.05	14.71	14.38	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/msd8.i/8-22aug.b/8082203.d

Date : 22-AUG-2008 09:43

Client ID: LCS-1

Sample Info: 100mL #1612-74A

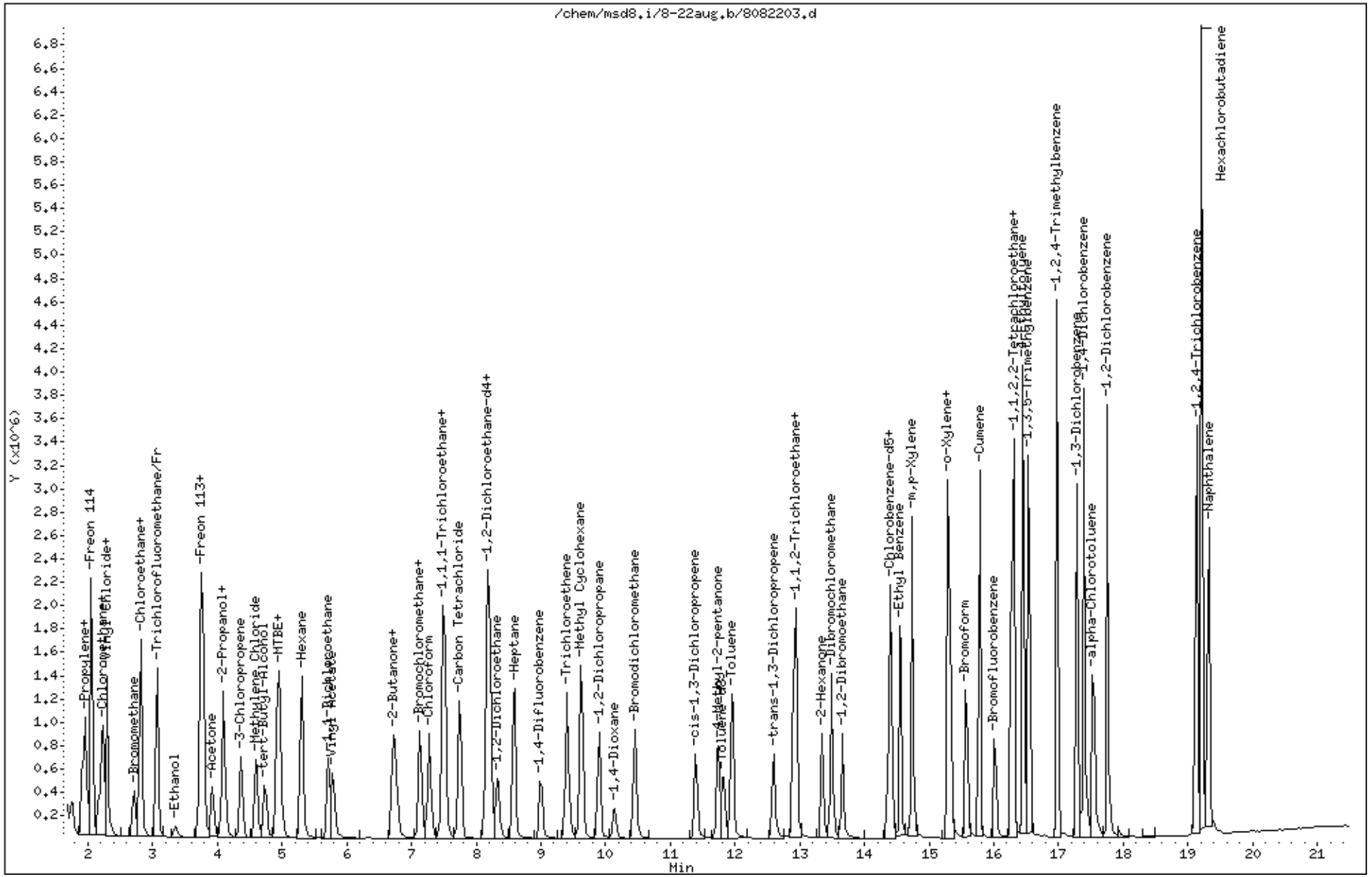
Column phase: RTx-624

Instrument: msd8.i

Operator: sjr

Column diameter: 0.53

0203



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MSD-8

Logbook #: 1647

0204

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.23
75	30.0 – 60.0% of mass 95	49.00
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	(0.37)[1]
174	50.0 – 100% of mass 95	70.82
175	5.0 – 9.0% of mass 174	(7.33)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.53)[1]
177	5.0 – 9.0% of mass 176	(6.31)[2]

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

BFB Injection Date: 8/22/08
BFB Injection Time: 0832
BFB File ID: 8082201
Tekmar Purge Flow: —
Vacuum: 6.10e-05

IS/S Std.#: 1541-215	Exp. Date: 10/16/08
BCM 289404	
1,4-DFB 1002247	
CB-d5 795663	

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

Verify 176/174 m/z Ratio: (108032 ÷ 111932) x 100 = 96.523

NOAH Cart #: 11 File #: 8082204

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(371735)}{(289404)} \times \frac{(25.0)}{(1.48544)} = 21.618$

Reported Result 21.618

File ID: 8082202
Compound: 1,2-DCA-d4
Initials: SJM

Method: TO14QB04C

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8082201	BFB Tune Check	[illegible]	50ng	2.0ul	1.00	SS	8/22/08	0832	SS	
2	✓	02	1541-209A 100ppbv	CCV-1	50ppbv	100ml				0855	SS	
3	✓	03	1612-794 100ppbv	LCS-1						0943	SS	
4	✓	04	Lab Blank	4214	[illegible]	200ml				1055	SS	Cart#11 / Log#1
5	✓	05	0808325-01A	35972	8"Hg-5psi	200ml	1.83			1230	SJM	
6	✓	06	-02A	34468						1312	SJM	
7	✓	07	0808311A-01A	36546	6.0"Hg-15psi		2.02			1354	SJM	

Signature: [signature] Date: 8/22/08

Revision 01/2008
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Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-04aug.b/8080407.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 04-AUG-2008 23:08
Operator : dfm Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-04aug.b/bfb30.m
Meth Date : 04-Aug-2008 08:18 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	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.588	3.748	-0.160	95	1524682			100.00- 100.00	100.00
3.588	3.748	-0.160	50	273913			15.00- 40.00	17.97
3.588	3.748	-0.160	75	702346			30.00- 60.00	46.07
3.588	3.748	-0.160	96	99569			5.00- 9.00	6.53
3.588	3.748	-0.160	173	8825			0.00- 2.00	0.92
3.588	3.748	-0.160	174	956988			50.00- 100.00	62.77
3.588	3.748	-0.160	175	71512			5.00- 9.00	7.47
3.588	3.748	-0.160	176	923858			95.00- 101.00	96.54
3.588	3.748	-0.160	177	57859			5.00- 9.00	6.26

Data File: /var/chem/msd8.i/8-04aug.b/8080407.d

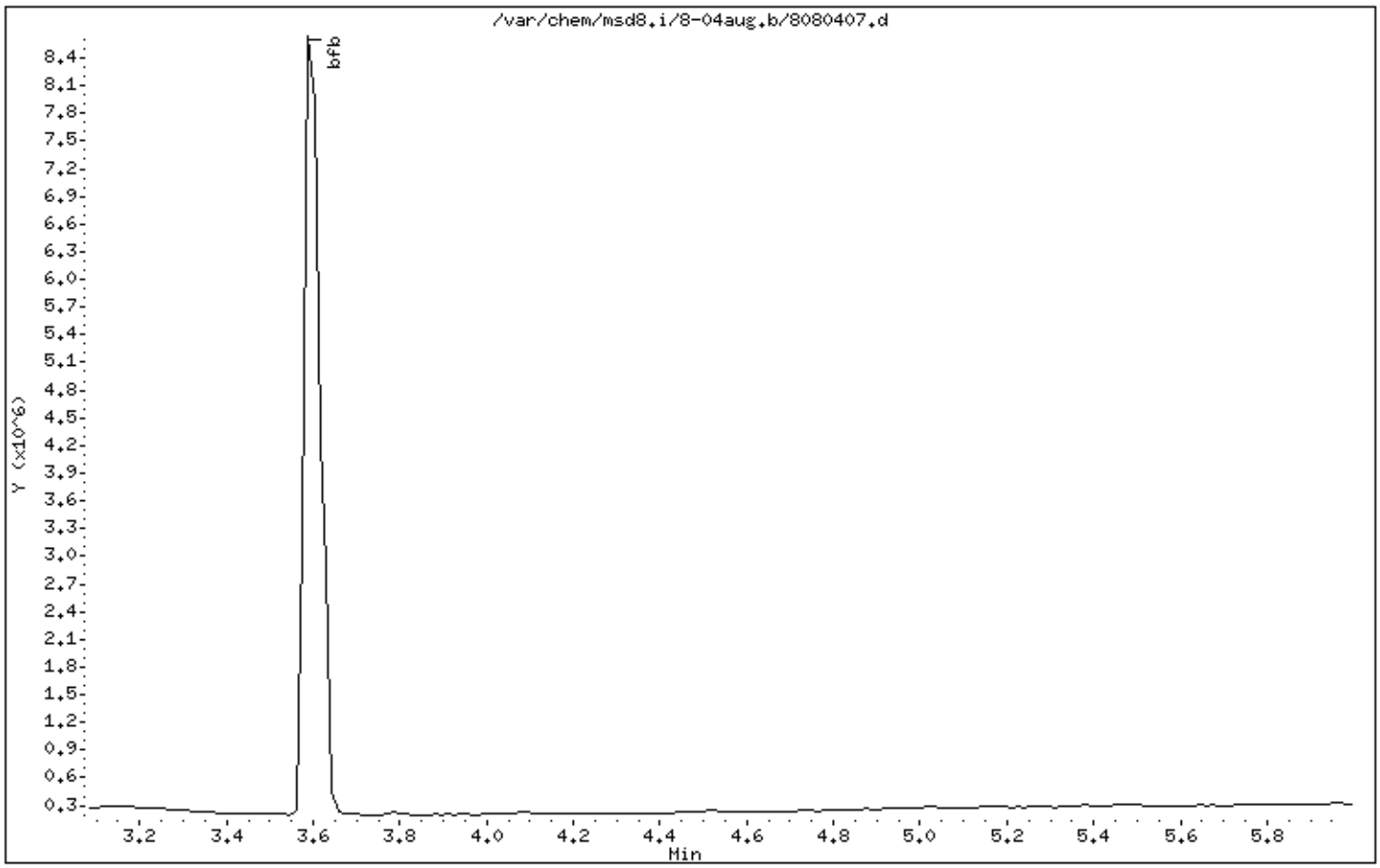
Date : 04-AUG-2008 23:08

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: dfm

Column phase: Column diameter: 0.53



Data File: /var/chem/msd8.i/8-04aug.b/8080407.d

Date : 04-AUG-2008 23:08

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

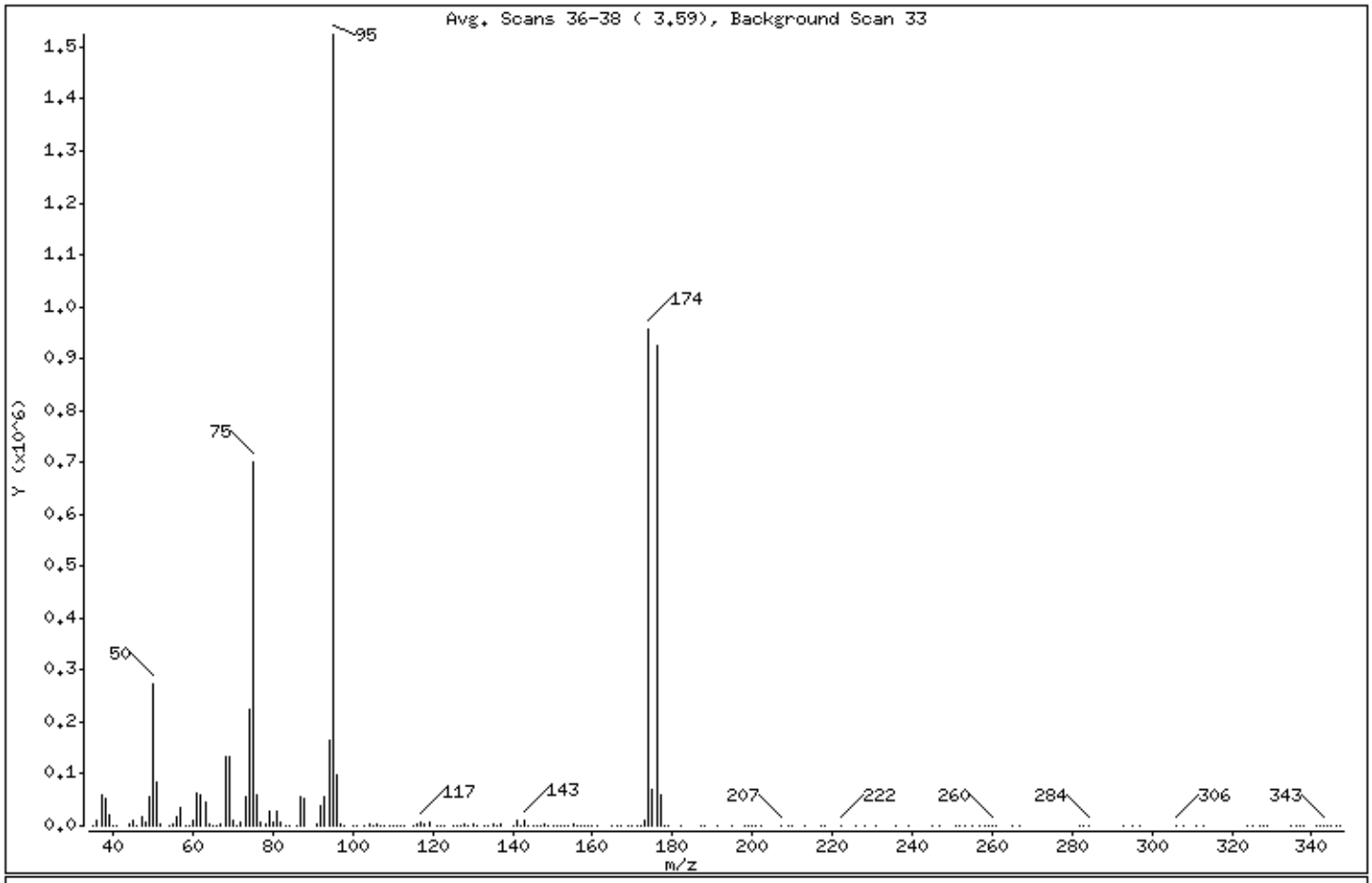
Volume Injected (uL): 2.0

Operator: dfm

Column phase:

Column diameter: 0.53

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	17.97
75	30.00 - 60.00% of mass 95	46.07
96	5.00 - 9.00% of mass 95	6.53
173	Less than 2.00% of mass 174	0.58 (0.92)
174	50.00 - 100.00% of mass 95	62.77
175	5.00 - 9.00% of mass 174	4.69 (7.47)
176	95.00 - 101.00% of mass 174	60.59 (96.54)
177	5.00 - 9.00% of mass 176	3.79 (6.26)

Date : 04-AUG-2008 23:08

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: dfm

Column phase: Column diameter: 0.53

Data File: 8080407.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	101	87.00	54624	145.00	1007	226.00	87
36.00	10702	88.00	53064	146.00	1547	228.00	68
37.00	58808	91.00	3790	147.00	877	231.00	75
38.00	53432	92.00	37776	148.00	2266	236.00	123
39.00	21008	93.00	56096	149.00	1050	239.00	127
40.00	647	94.00	163840	150.00	1112	245.00	69
41.00	117	95.00	1524224	151.00	423	247.00	48
44.00	3701	96.00	99568	152.00	694	251.00	263
45.00	9419	97.00	3542	153.00	1030	252.00	109
46.00	774	98.00	209	154.00	878	253.00	122
47.00	16616	100.00	19	155.00	2248	255.00	205
48.00	7019	101.00	337	156.00	381	257.00	104
49.00	54616	103.00	369	157.00	1424	258.00	168
50.00	273856	104.00	4598	158.00	20	259.00	98
51.00	83896	105.00	1044	159.00	1046	260.00	589
52.00	3520	106.00	4947	160.00	286	261.00	204
54.00	7	107.00	1182	161.00	1236	265.00	25
55.00	2797	108.00	6	165.00	159	267.00	228
56.00	17992	109.00	509	166.00	205	282.00	305
57.00	34552	110.00	629	167.00	193	283.00	141
58.00	1439	111.00	952	169.00	498	284.00	357
59.00	263	112.00	692	170.00	455	293.00	85
60.00	10659	113.00	729	171.00	115	295.00	74
61.00	61704	115.00	1044	172.00	213	297.00	69
62.00	60128	116.00	4819	173.00	8825	306.00	287
63.00	46656	117.00	7417	174.00	956928	308.00	88
64.00	3917	118.00	4106	175.00	71512	311.00	74
65.00	263	119.00	5995	176.00	923840	313.00	94
66.00	296	121.00	59	177.00	57856	324.00	205
67.00	3029	122.00	116	178.00	1191	325.00	109
68.00	134656	123.00	580	179.00	32	327.00	143
69.00	133632	125.00	179	182.00	98	328.00	180
70.00	10090	126.00	619	187.00	120	329.00	135
71.00	218	127.00	15	188.00	216	335.00	364
72.00	5666	128.00	4391	191.00	98	336.00	101

Date : 04-AUG-2008 23:08

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: dfm

Column phase: Column diameter: 0.53

Data File: 8080407.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 188

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	55968	129.00	1632	195.00	287	337.00	71
74.00	222848	130.00	4409	198.00	79	338.00	84
75.00	702336	131.00	1594	199.00	133	341.00	2
76.00	60488	133.00	542	200.00	140	342.00	211
77.00	6588	134.00	317	201.00	163	343.00	410
78.00	4926	135.00	1880	202.00	156	344.00	36
79.00	28816	136.00	458	207.00	308	345.00	122
80.00	8399	137.00	2405	209.00	95	346.00	323
81.00	29456	140.00	993	210.00	160	347.00	97
82.00	6677	141.00	10888	213.00	77		
83.00	845	142.00	1090	217.00	101		
84.00	323	143.00	11440	218.00	91		
86.00	1280	144.00	464	222.00	168		

Air Toxics Ltd.

Data file : /chem/msd8.i/8-06aug.b/8080601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 06-AUG-2008 09:05
Operator : smd Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-06aug.b/bfb30.m
Meth Date : 06-Aug-2008 08:52 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.588	3.748	-0.160	95	2074575			100.00- 100.00	100.00
3.588	3.748	-0.160	50	360420			15.00- 40.00	17.37
3.588	3.748	-0.160	75	947660			30.00- 60.00	45.68
3.588	3.748	-0.160	96	138012			5.00- 9.00	6.65
3.588	3.748	-0.160	173	12253			0.00- 1.99	0.91
3.588	3.748	-0.160	174	1340439			50.01- 100.00	64.61
3.588	3.748	-0.160	175	96101			5.00- 9.00	7.17
3.588	3.748	-0.160	176	1291114			95.01- 100.99	96.32
3.588	3.748	-0.160	177	84129			5.00- 9.00	6.52

Data File: /chem/msd8.i/8-06aug.b/8080601.d

Date : 06-AUG-2008 09:05

Client ID: BFB

Instrument: msd8.i

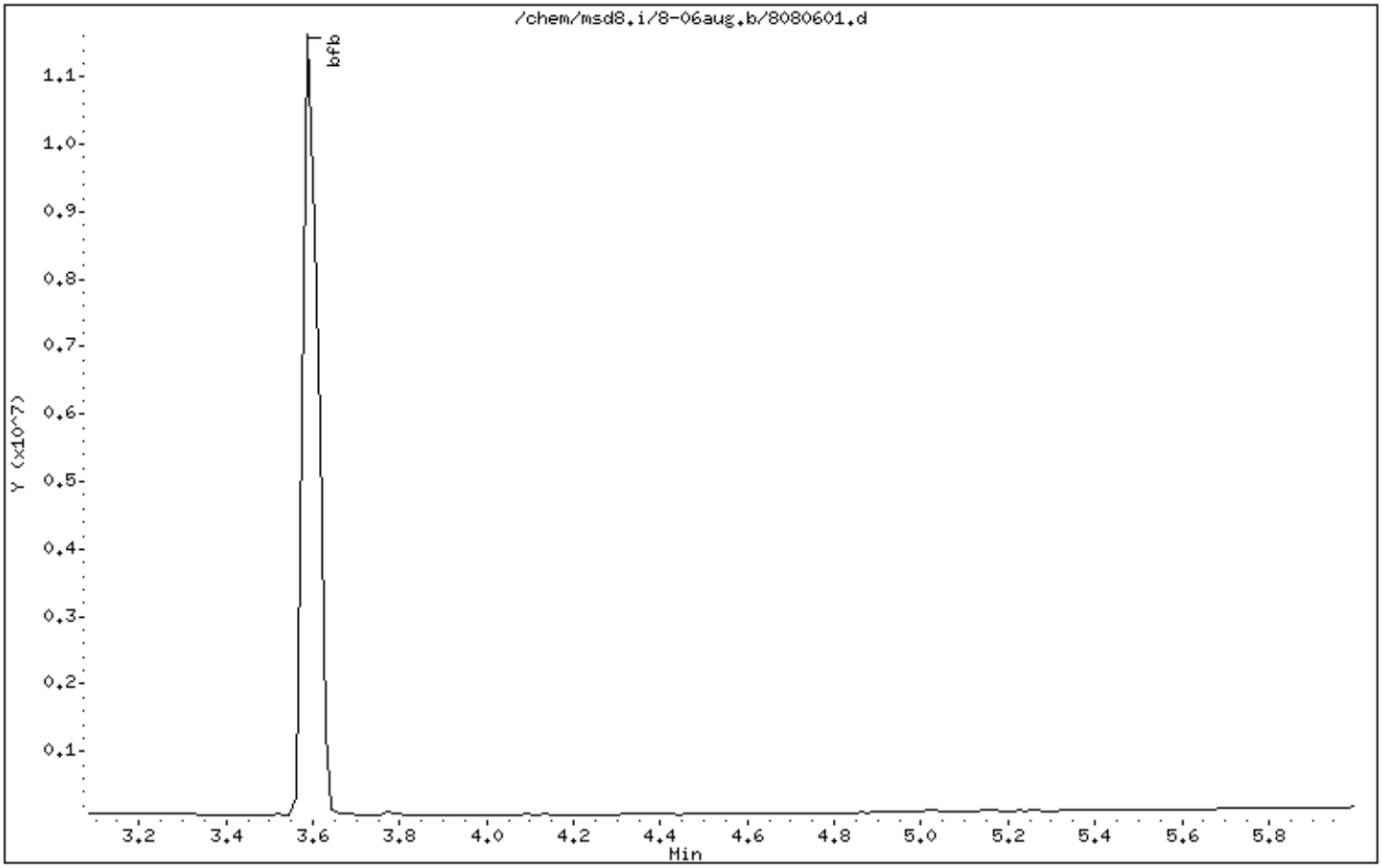
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-06aug.b/8080601.d

Date : 06-AUG-2008 09:05

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

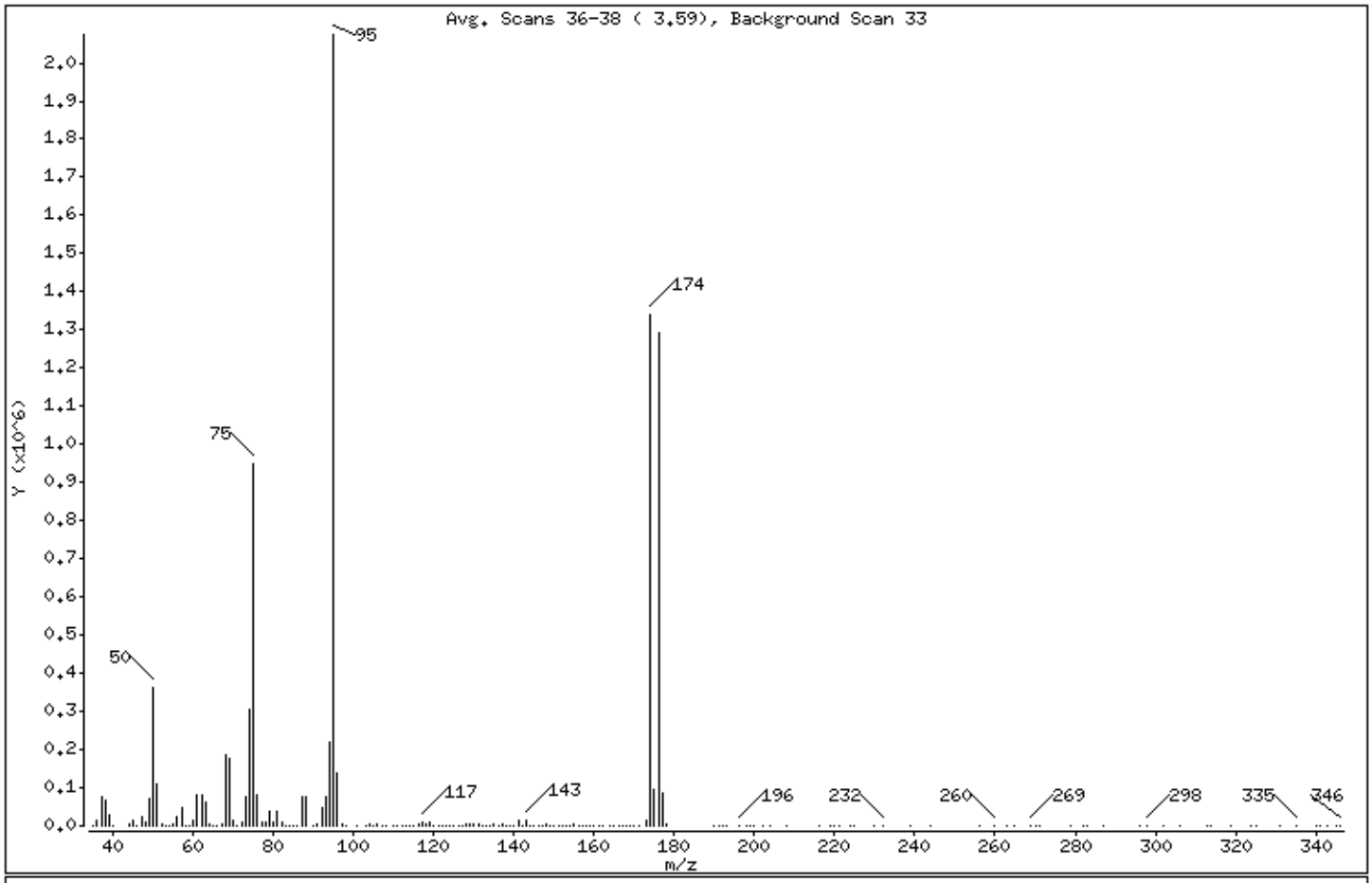
Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53

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	17.37
75	30.00 - 60.00% of mass 95	45.68
96	5.00 - 9.00% of mass 95	6.65
173	Less than 1.99% of mass 174	0.59 (0.91)
174	50.01 - 100.00% of mass 95	64.61
175	5.00 - 9.00% of mass 174	4.63 (7.17)
176	95.01 - 100.99% of mass 174	62.24 (96.32)
177	5.00 - 9.00% of mass 176	4.06 (6.52)

Date : 06-AUG-2008 09:05

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8080601.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	94	84.00	431	135.00	2845	196.00	168
36.00	13227	85.00	100	136.00	648	198.00	91
37.00	76168	86.00	1721	137.00	3047	199.00	75
38.00	68104	87.00	74640	138.00	166	200.00	71
39.00	26656	88.00	74472	139.00	595	202.00	86
40.00	731	90.00	194	140.00	1098	204.00	138
44.00	6927	91.00	5524	141.00	16339	208.00	152
45.00	14083	92.00	49432	142.00	1624	216.00	92
46.00	662	93.00	77392	143.00	16584	219.00	107
47.00	22576	94.00	221056	144.00	765	220.00	90
48.00	10246	95.00	2074112	145.00	1447	221.00	78
49.00	73760	96.00	137984	146.00	1971	224.00	148
50.00	360384	97.00	4173	147.00	1448	225.00	149
51.00	108640	98.00	176	148.00	3835	230.00	142
52.00	4010	101.00	143	149.00	1202	232.00	158
53.00	84	103.00	819	150.00	1669	239.00	84
54.00	104	104.00	6818	151.00	464	244.00	74
55.00	3906	105.00	2140	152.00	1153	256.00	74
56.00	25336	106.00	6879	153.00	1228	260.00	260
57.00	47424	107.00	1120	154.00	1047	263.00	89
58.00	1728	108.00	208	155.00	3894	265.00	77
59.00	503	110.00	806	156.00	614	269.00	454
60.00	15177	111.00	1690	157.00	2292	270.00	10
61.00	82968	112.00	1037	158.00	485	271.00	35
62.00	81424	113.00	854	159.00	1883	279.00	81
63.00	62912	114.00	74	160.00	192	282.00	172
64.00	5209	115.00	1511	161.00	1328	283.00	93
65.00	506	116.00	5380	162.00	77	287.00	76
66.00	315	117.00	9051	164.00	344	296.00	70
67.00	3766	118.00	6274	165.00	180	298.00	89
68.00	184064	119.00	7982	166.00	84	302.00	71
69.00	177408	120.00	191	167.00	353	306.00	74
70.00	13561	121.00	396	168.00	239	313.00	78
71.00	462	122.00	505	169.00	207	314.00	75
72.00	8227	123.00	618	170.00	423	319.00	68

Data File: /chem/msd8.i/8-06aug.b/8080601.d

Date : 06-AUG-2008 09:05

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53

Data File: 8080601.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 182

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	76472	124.00	1076	171.00	713	324.00	69
74.00	302784	125.00	84	173.00	12253	325.00	79
75.00	947648	126.00	695	174.00	1340416	331.00	71
76.00	81712	127.00	498	175.00	96096	335.00	219
77.00	9373	128.00	6249	176.00	1290752	340.00	123
78.00	7742	129.00	2994	177.00	84128	341.00	174
79.00	38208	130.00	6057	178.00	2434	343.00	49
80.00	11209	131.00	2470	190.00	79	345.00	102
81.00	40528	132.00	424	191.00	5	346.00	78
82.00	8581	133.00	24	192.00	153		
83.00	924	134.00	40	193.00	21		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-18aug.b/8081801.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 18-AUG-2008 09:03
Operator : smd Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-18aug.b/bfb30.m
Meth Date : 18-Aug-2008 08:50 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.588	3.748	-0.160	95	1385984			100.00- 100.00	100.00
3.588	3.748	-0.160	50	248045			15.00- 40.00	17.90
3.588	3.748	-0.160	75	651012			30.00- 60.00	46.97
3.588	3.748	-0.160	96	89552			5.00- 9.00	6.46
3.588	3.748	-0.160	173	8066			0.00- 1.99	0.86
3.588	3.748	-0.160	174	940691			50.01- 100.00	67.87
3.588	3.748	-0.160	175	69384			5.00- 9.00	7.38
3.588	3.748	-0.160	176	903232			95.01- 100.99	96.02
3.588	3.748	-0.160	177	56980			5.00- 9.00	6.31

Data File: /var/chem/msd8.i/8-18aug.b/8081801.d

Date : 18-AUG-2008 09:03

Client ID: BFB

Instrument: msd8.i

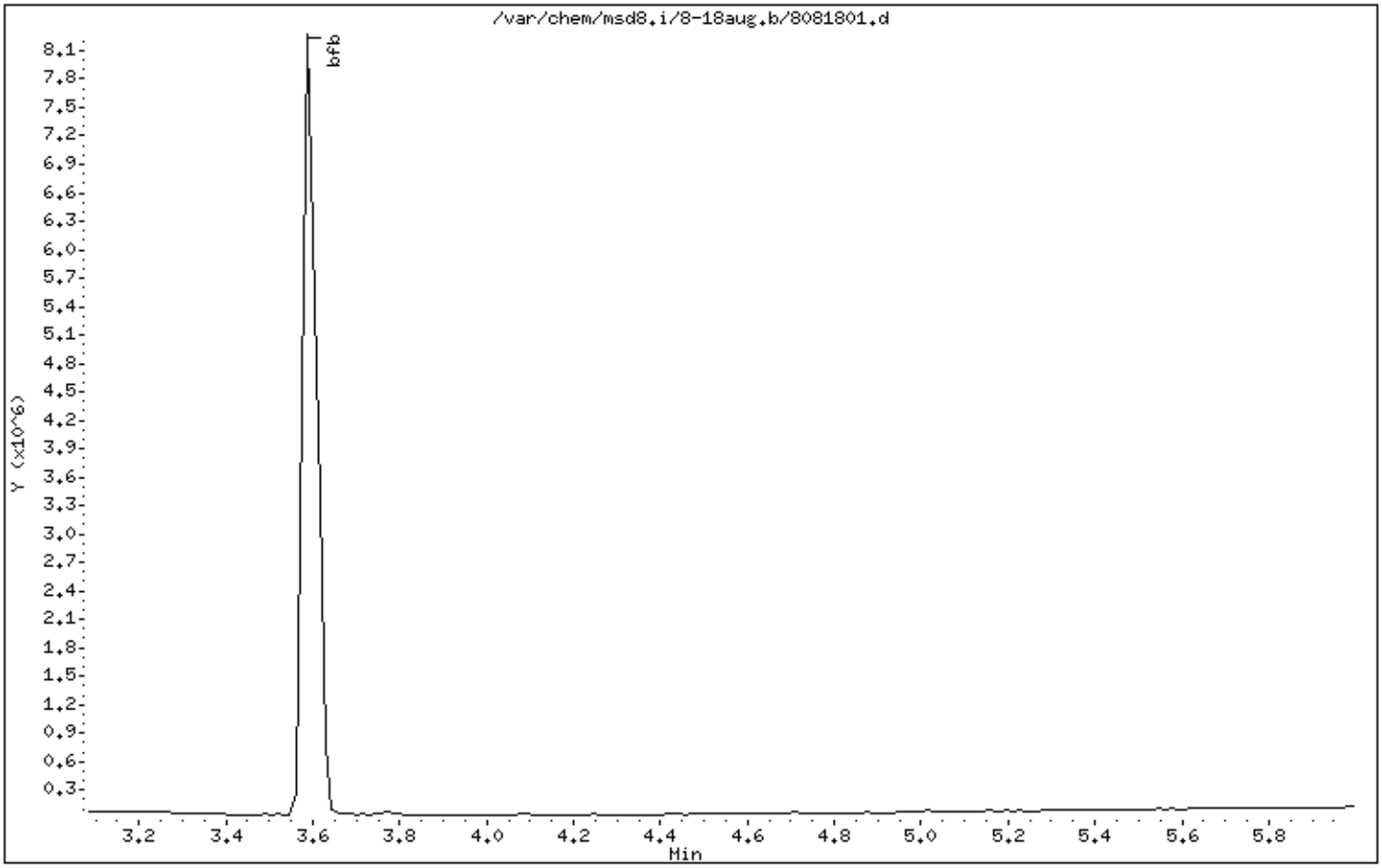
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-18aug.b/8081801.d

Date : 18-AUG-2008 09:03

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

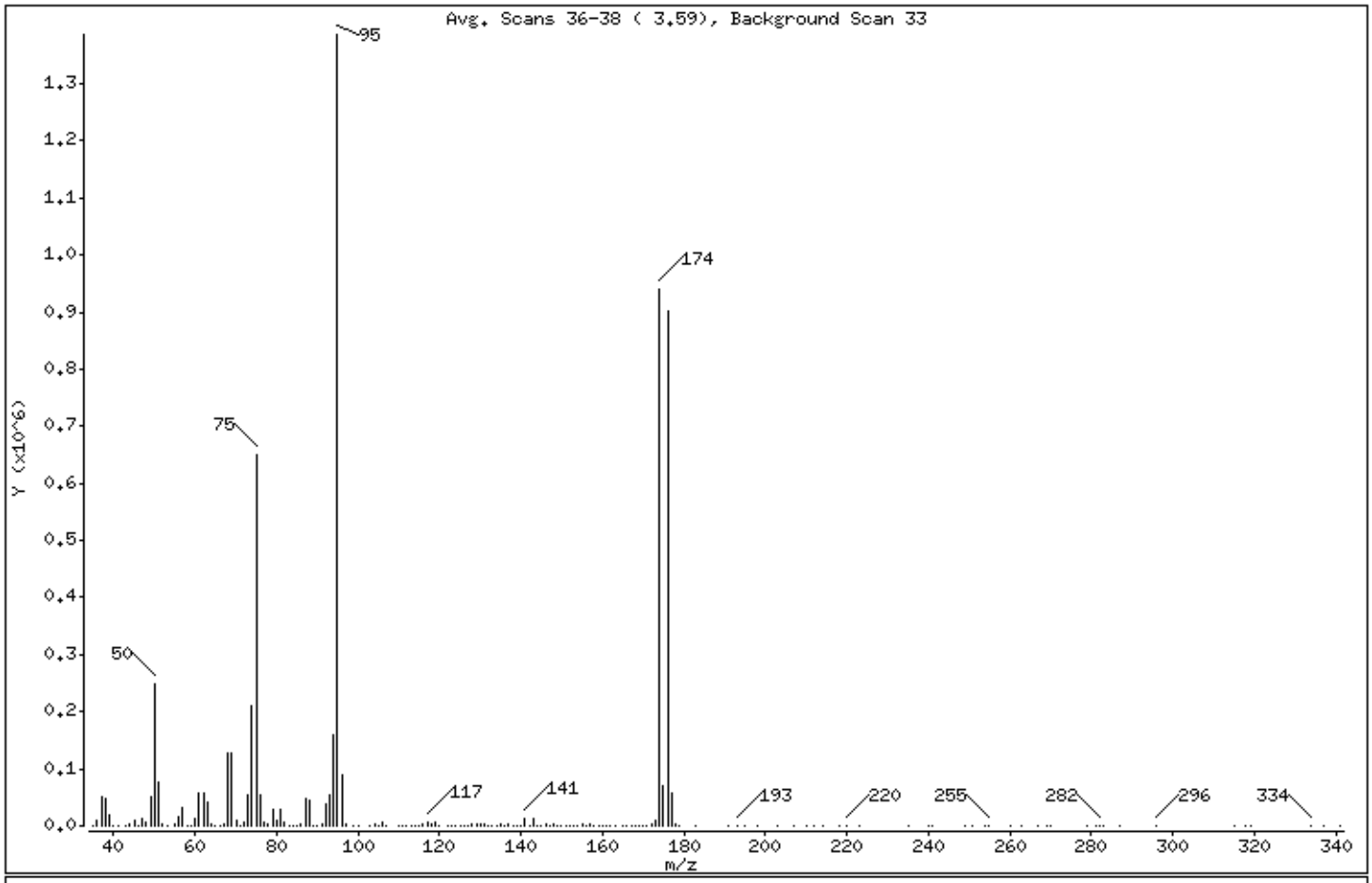
Volume Injected (uL): 2.0

Operator: smd

Column phase:

Column diameter: 0.53

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	17.90
75	30.00 - 60.00% of mass 95	46.97
96	5.00 - 9.00% of mass 95	6.46
173	Less than 1.99% of mass 174	0.58 (0.86)
174	50.01 - 100.00% of mass 95	67.87
175	5.00 - 9.00% of mass 174	5.01 (7.38)
176	95.01 - 100.99% of mass 174	65.17 (96.02)
177	5.00 - 9.00% of mass 176	4.11 (6.31)

Date : 18-AUG-2008 09:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8081801.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 173

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	74	81.00	27896	131.00	1698	176.00	903232
36.00	9197	82.00	5769	132.00	213	177.00	56976
37.00	52104	83.00	841	133.00	299	178.00	1837
38.00	47792	84.00	86	134.00	435	179.00	71
39.00	17632	85.00	220	135.00	2242	183.00	73
40.00	252	86.00	1643	136.00	807	191.00	118
41.00	592	87.00	46576	137.00	2268	193.00	254
43.00	163	88.00	43504	138.00	301	195.00	73
44.00	4680	89.00	151	139.00	287	198.00	70
45.00	9658	90.00	83	140.00	896	203.00	102
46.00	797	91.00	3643	141.00	12907	207.00	202
47.00	14222	92.00	36824	142.00	1497	210.00	82
48.00	6653	93.00	55328	143.00	12382	212.00	74
49.00	50272	94.00	157888	144.00	648	214.00	68
50.00	248000	95.00	1385984	145.00	1291	218.00	74
51.00	75056	96.00	89552	146.00	1884	220.00	149
52.00	2641	97.00	2133	147.00	577	223.00	78
53.00	305	99.00	85	148.00	2623	235.00	88
55.00	3223	100.00	68	149.00	952	240.00	94
56.00	16728	103.00	583	150.00	1390	241.00	83
57.00	32968	104.00	4551	151.00	341	249.00	150
58.00	1335	105.00	1438	152.00	697	251.00	67
59.00	351	106.00	4809	153.00	805	254.00	138
60.00	11460	107.00	1125	154.00	509	255.00	190
61.00	57408	110.00	725	155.00	3134	260.00	157
62.00	55848	111.00	1088	156.00	674	263.00	73
63.00	42768	112.00	868	157.00	2638	267.00	88
64.00	4451	113.00	846	158.00	479	269.00	174
65.00	886	114.00	74	159.00	1336	270.00	83
66.00	330	115.00	1280	160.00	90	279.00	73
67.00	2928	116.00	4442	161.00	1224	281.00	139
68.00	126632	117.00	7417	162.00	89	282.00	184
69.00	128560	118.00	4559	163.00	245	283.00	167
70.00	8697	119.00	6356	165.00	198	287.00	96
71.00	555	120.00	179	166.00	179	296.00	140

Date : 18-AUG-2008 09:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: smd

Column phase: Column diameter: 0.53

Data File: 8081801.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 33
Location of Maximum: 95.00
Number of points: 173

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	5575	122.00	386	167.00	206	315.00	90
73.00	52720	123.00	524	168.00	118	318.00	69
74.00	210432	124.00	729	169.00	68	319.00	91
75.00	651008	125.00	442	170.00	565	334.00	164
76.00	54896	126.00	627	171.00	198	337.00	96
77.00	6180	127.00	683	172.00	1729	341.00	70
78.00	4268	128.00	3999	173.00	8066		
79.00	28088	129.00	2123	174.00	940672		
80.00	9135	130.00	4710	175.00	69384		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-22aug.b/8082201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-AUG-2008 08:32
Operator : srs Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-22aug.b/bfb30.m
Meth Date : 22-Aug-2008 08:19 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	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.588	3.748	-0.160	95	1580490			100.00- 100.00	100.00
3.588	3.748	-0.160	50	288083			15.00- 40.00	18.23
3.588	3.748	-0.160	75	774462			30.00- 60.00	49.00
3.588	3.748	-0.160	96	103577			5.00- 9.00	6.55
3.588	3.748	-0.160	173	9739			0.00- 1.99	0.87
3.588	3.748	-0.160	174	1119375			50.01- 100.00	70.82
3.588	3.748	-0.160	175	82058			5.00- 9.00	7.33
3.588	3.748	-0.160	176	1080581			95.01- 100.99	96.53
3.588	3.748	-0.160	177	68185			5.00- 9.00	6.31

Data File: /chem/msd8.i/8-22aug.b/8082201.d

Date : 22-AUG-2008 08:32

Client ID: BFB

Instrument: msd8.i

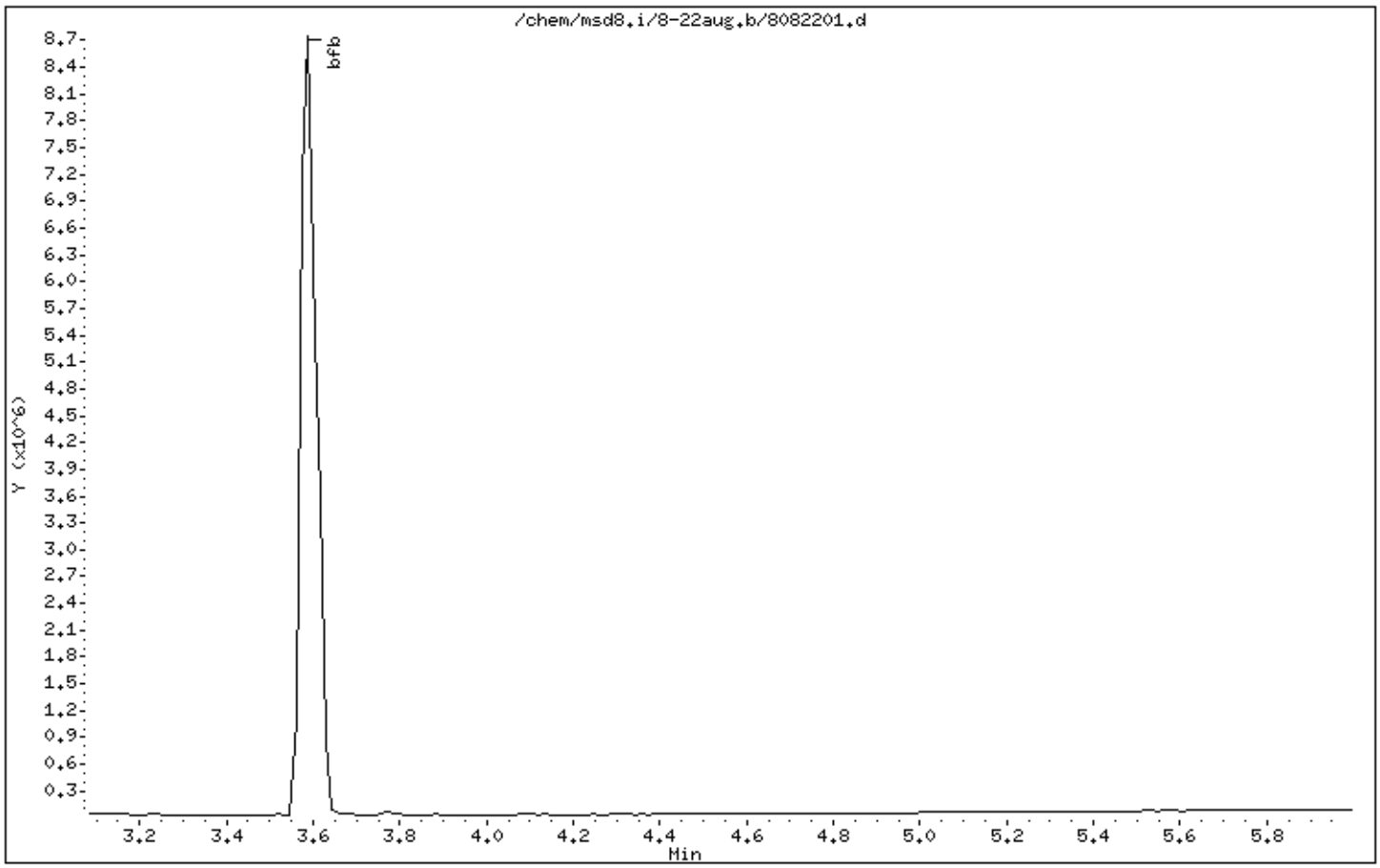
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-22aug.b/8082201.d

Date : 22-AUG-2008 08:32

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

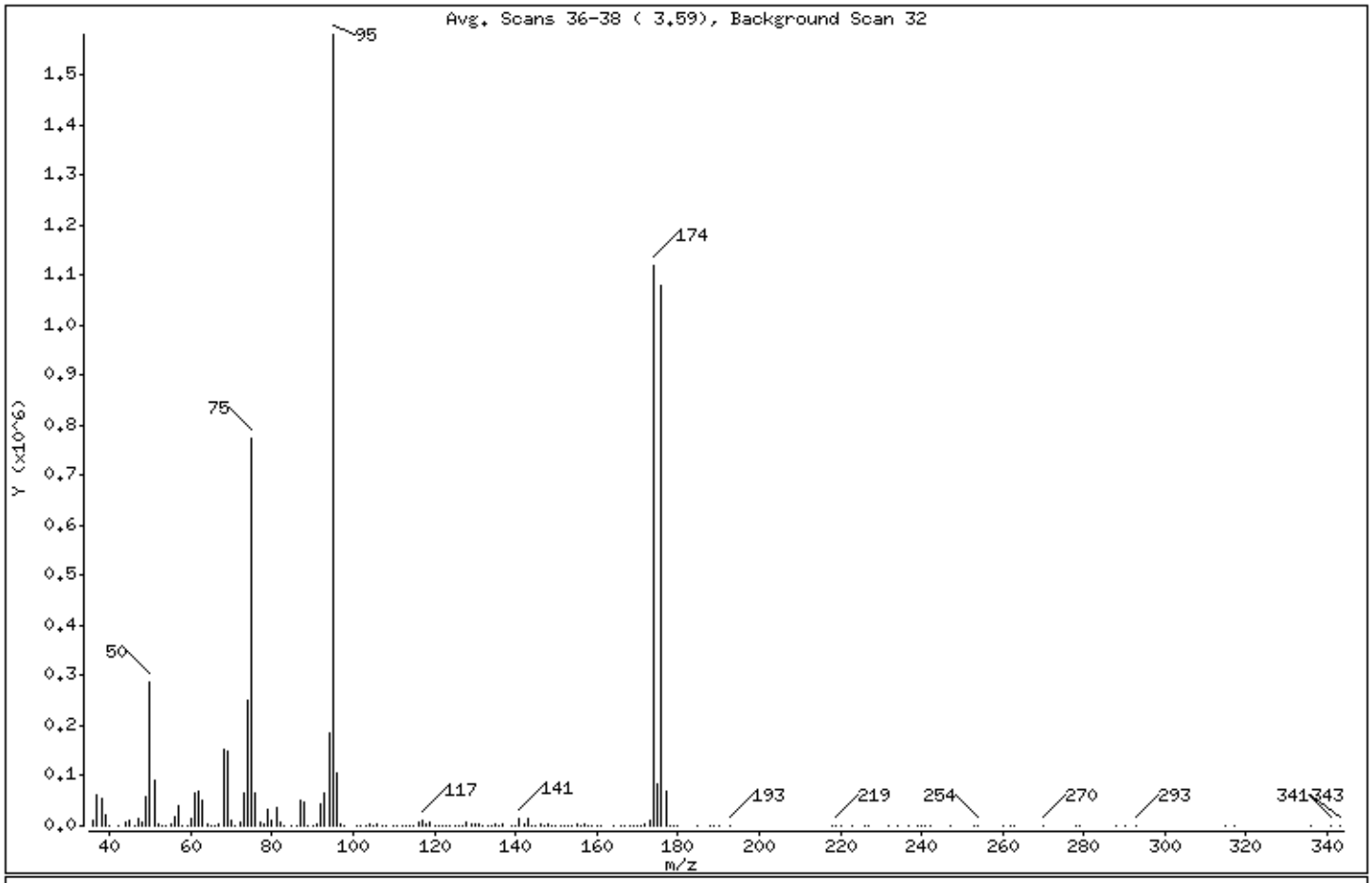
Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53

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	18.23
75	30.00 - 60.00% of mass 95	49.00
96	5.00 - 9.00% of mass 95	6.55
173	Less than 1.99% of mass 174	0.62 (0.87)
174	50.01 - 100.00% of mass 95	70.82
175	5.00 - 9.00% of mass 174	5.19 (7.33)
176	95.01 - 100.99% of mass 174	68.37 (96.53)
177	5.00 - 9.00% of mass 176	4.31 (6.31)

Date : 22-AUG-2008 08:32

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8082201.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 32
Location of Maximum: 95.00
Number of points: 170

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	10205	81.00	35072	128.00	5483	175.00	82056
37.00	61152	82.00	7436	129.00	2040	176.00	1080320
38.00	54640	83.00	1033	130.00	5325	177.00	68184
39.00	20248	85.00	197	131.00	2228	178.00	1766
40.00	998	86.00	1397	132.00	431	179.00	73
42.00	224	87.00	49344	133.00	26	180.00	158
44.00	5856	88.00	48064	134.00	470	185.00	66
45.00	9766	89.00	4	135.00	3067	188.00	80
46.00	119	90.00	115	136.00	504	189.00	153
47.00	15277	91.00	4237	137.00	2162	190.00	71
48.00	7613	92.00	42840	139.00	544	193.00	81
49.00	59440	93.00	65496	140.00	1171	218.00	82
50.00	288064	94.00	185536	141.00	16183	219.00	105
51.00	90208	95.00	1580032	142.00	1906	220.00	69
52.00	3527	96.00	103576	143.00	15609	223.00	67
53.00	128	97.00	3242	144.00	701	226.00	84
54.00	140	98.00	154	145.00	1381	227.00	93
55.00	3380	101.00	76	146.00	2126	232.00	23
56.00	18944	102.00	85	147.00	925	234.00	103
57.00	39904	103.00	803	148.00	3072	237.00	71
58.00	1410	104.00	5441	149.00	1216	239.00	74
59.00	380	105.00	1705	150.00	1478	240.00	67
60.00	13112	106.00	5416	151.00	290	241.00	96
61.00	66952	107.00	1015	152.00	896	242.00	82
62.00	67848	108.00	176	153.00	987	247.00	138
63.00	52184	110.00	860	154.00	746	253.00	61
64.00	4582	111.00	1199	155.00	3642	254.00	152
65.00	915	112.00	1083	156.00	843	260.00	148
66.00	105	113.00	946	157.00	2483	262.00	75
67.00	3216	114.00	79	158.00	627	263.00	78
68.00	151872	115.00	1599	159.00	1812	270.00	360
69.00	150592	116.00	5453	160.00	71	278.00	69
70.00	11354	117.00	9296	161.00	1451	279.00	159
71.00	466	118.00	5307	164.00	185	288.00	67
72.00	6751	119.00	6698	166.00	77	290.00	91

Data File: /chem/msd8.i/8-22aug.b/8082201.d

Date : 22-AUG-2008 08:32

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53

Data File: 8082201.d
Spectrum: Avg. Scans 36-38 (3.59), Background Scan 32
Location of Maximum: 95.00
Number of points: 170

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	63832	120.00	191	167.00	104	293.00	157
74.00	251968	121.00	77	168.00	205	315.00	106
75.00	774400	122.00	272	169.00	269	317.00	90
76.00	65832	123.00	473	170.00	464	336.00	76
77.00	7148	124.00	923	171.00	748	341.00	98
78.00	3819	125.00	671	172.00	1941	343.00	97
79.00	33216	126.00	460	173.00	9739		
80.00	10479	127.00	702	174.00	1119232		

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 #: 0808325
# of pages (Including Cover): 1

9/3/2008

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.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0227

Contact

Company GEI Consultants, Inc.

Address 455 Winding Brook Glastonbury CT 06033

Phone 860-368-5300 Cell:

Collected By: Signature: MZL

Project Info:

P.O. #

Project # 061140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

☒ Normal

☐ Rush _____

Specify

Lab I.D.	Field Sample I.D.	CAN #	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW AMS6	35972	08/13/08 0537-1340	TO-15 + Naphthalene	-30	-8	
02A	DW AMS1	34468	08/13/08 0541-1343	TO-15 + Naphthalene	29.5	7.5	

Relinquished By: (Signature) Date/Time MZL 8/13/08 1400

Received By: (Signature) Date/Time Monica FIREBAUGH AIR 8/14/08 920

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Relinquished By: (Signature) Date/Time

Received By: (Signature) Date/Time

Notes: used flow controllers included

Initial and final can pressures in inches Hg\

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

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8631 8423 4451	MG	24	Cool	Yes No (None)	0808325

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0808325

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: 08/28/08
Date Completed: 8/26/08
Date Received: 8/14/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 634.00
Logged By: EF

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW AMS6	Modified TO-15	8/13/2008	8.0 "Hg	$225.00
02A	DW AMS1	Modified TO-15	8/13/2008	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 58432	$100.00
	Blue Body Flow Controller (100% Certified) (1) @ $40.00 each., Shipmen	$40.00
	Blue Body Flow Controller (100% Certified) (1) @ $40.00 each., Shipmen	$40.00
	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 #: 0808325

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 8/27
		☑	☐	☐	☐	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	N/A			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
☑	☐	☐	☐	N/A	☐	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
		☐		☐		Special units for all samples in the final report are correctly calculated
		☑	☑	☑		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) Sps.
☐	☐	☑				Verify receipt pressures
☐	☐	☑				Verify canister ID #'s
		☑		☑		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
		☑	N/A	N/A	☐	Client LUMEN report reviewed for accuracy and completeness

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

A/R: Cont in CCV

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
Taylor 8-25-08			
A_1: 8-25-08	R: 8/25/08	TJS 8-26-08	
A_2:	T: TJS 8-26-08		

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