
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 #: 0806543

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	7/14/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0806543

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 South cell Air Monitoring
DATE RECEIVED:	06/26/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/10/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	AMS 6 UW	Modified TO-15	8.5 "Hg	5 psi
02A	AMS 1 DW	Modified TO-15	7.5 "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: 07/10/08

Laboratory Director

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0806543

Two 6 Liter Summa Canister samples were received on June 26, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS 6 UW	0806543-01A	6/25/2008	6/26/2008	NA	12	7/ 7/2008	NA	Good
AMS 1 DW	0806543-02A	6/25/2008	6/26/2008	NA	12	7/ 7/2008	NA	Good
Lab Blank	0806543-03A	NA	NA	NA	NA	7/ 7/2008	NA	Good
CCV	0806543-04A	NA	NA	NA	NA	7/ 7/2008	NA	Good
LCS	0806543-05A	NA	NA	NA	NA	7/ 7/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS 6 UW

Lab ID#: 0806543-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.7	7.1	8.9	17
Ethanol	3.7	4.4	7.0	8.3

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 6 UW

Lab ID#: 0806543-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070707**	**Date of Collection:**	**6/25/08**
Dil. Factor:	**1.87**	**Date of Analysis:**	**7/7/08 05:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.94	Not Detected	4.6	Not Detected
Freon 114	0.94	Not Detected	6.5	Not Detected
Vinyl Chloride	0.94	Not Detected	2.4	Not Detected
Bromomethane	0.94	Not Detected	3.6	Not Detected
Chloroethane	0.94	Not Detected	2.5	Not Detected
Freon 11	0.94	Not Detected	5.2	Not Detected
1,1-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Freon 113	0.94	Not Detected	7.2	Not Detected
Methylene Chloride	0.94	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.94	Not Detected	3.8	Not Detected
cis-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
Chloroform	0.94	Not Detected	4.6	Not Detected
1,1,1-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Carbon Tetrachloride	0.94	Not Detected	5.9	Not Detected
Benzene	0.94	Not Detected	3.0	Not Detected
1,2-Dichloroethane	0.94	Not Detected	3.8	Not Detected
Trichloroethene	0.94	Not Detected	5.0	Not Detected
1,2-Dichloropropane	0.94	Not Detected	4.3	Not Detected
cis-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
Toluene	0.94	Not Detected	3.5	Not Detected
trans-1,3-Dichloropropene	0.94	Not Detected	4.2	Not Detected
1,1,2-Trichloroethane	0.94	Not Detected	5.1	Not Detected
Tetrachloroethene	0.94	Not Detected	6.3	Not Detected
1,2-Dibromoethane (EDB)	0.94	Not Detected	7.2	Not Detected
Chlorobenzene	0.94	Not Detected	4.3	Not Detected
Ethyl Benzene	0.94	Not Detected	4.0	Not Detected
m,p-Xylene	0.94	Not Detected	4.1	Not Detected
o-Xylene	0.94	Not Detected	4.1	Not Detected
Styrene	0.94	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.94	Not Detected	6.4	Not Detected
1,3,5-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,2,4-Trimethylbenzene	0.94	Not Detected	4.6	Not Detected
1,3-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,4-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
alpha-Chlorotoluene	0.94	Not Detected	4.8	Not Detected
1,2-Dichlorobenzene	0.94	Not Detected	5.6	Not Detected
1,3-Butadiene	0.94	Not Detected	2.1	Not Detected
Hexane	0.94	Not Detected	3.3	Not Detected
Cyclohexane	0.94	Not Detected	3.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 6 UW

Lab ID#: 0806543-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070707**	**Date of Collection: 6/25/08**	
Dil. Factor:	**1.87**	**Date of Analysis: 7/7/08 05:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.94	Not Detected	3.8	Not Detected
Bromodichloromethane	0.94	Not Detected	6.3	Not Detected
Dibromochloromethane	0.94	Not Detected	8.0	Not Detected
Cumene	0.94	Not Detected	4.6	Not Detected
Propylbenzene	0.94	Not Detected	4.6	Not Detected
Chloromethane	3.7	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	28	Not Detected
Hexachlorobutadiene	3.7	Not Detected	40	Not Detected
Acetone	3.7	7.1	8.9	17
Carbon Disulfide	0.94	Not Detected	2.9	Not Detected
2-Propanol	3.7	Not Detected	9.2	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected	3.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.94	Not Detected	2.8	Not Detected
1,4-Dioxane	3.7	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.94	Not Detected	3.8	Not Detected
2-Hexanone	3.7	Not Detected	15	Not Detected
Bromoform	0.94	Not Detected	9.7	Not Detected
4-Ethyltoluene	0.94	Not Detected	4.6	Not Detected
Ethanol	3.7	4.4	7.0	8.3
Methyl tert-butyl ether	0.94	Not Detected	3.4	Not Detected
3-Chloropropene	3.7	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	0.94	Not Detected	4.4	Not Detected
Naphthalene	3.7	Not Detected	20	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/07Jul2008.b/g070707.d
Lab Smp Id: 0806543-01A
Inj Date : 07-JUL-2008 17:25
Operator : srs Inst ID: msdg.i
Smp Info : 500mL #05363
Misc Info : 8.5"Hg-5psi
Comment :
Method : /chem/msdg.i/08Jul2008.b/t14q702a.m
Meth Date : 10-Jul-2008 08:10 dbailey Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 1.87000
Integrator: HP RTE Compound Sublist: TO15qN.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	198402	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	161008			0.00- 30.00	81.15
9.002	9.002 (1.000)	49	534148			0.00- 30.00	269.22
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	759558	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	129046			0.00- 46.76	16.99
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	723395	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	475635			0.00- 30.00	65.75
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.667	9.668 (1.074)	65	386215	10.1420	10.142	80.00- 120.00	100.00
9.667	9.668 (1.074)	67	191264			0.00- 30.00	49.52
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.523	12.499 (1.229)	98	811238	10.3315	10.331	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	100916			0.00- 42.37	12.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.499 (1.229)	100	502954			33.65- 93.65	62.00
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	395390	9.40901	9.409	80.00- 120.00	100.00
17.226	17.201 (1.125)	95	594990			117.18- 177.18	150.48
17.226	17.226 (1.125)	176	382099			66.43- 126.43	96.64
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	32767	2.36185	4.417	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	8486			0.00- 30.00	25.90
6.225	6.225 (0.692)	46	14398			0.00- 30.00	43.94
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	280393	3.77941	7.067	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	55596			0.00- 30.00	19.83

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070707.d
Lab Smp Id: 0806543-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msdg.i/08Jul2008.b/t14q702a.m
Misc Info: 8.5"Hg-5psi

Calibration Date: 07-JUL-2008
Calibration Time: 11:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	252957	151774	354140	198402	-21.57
51 1,4-Difluorobenze	943147	565888	1320406	759558	-19.47
72 Chlorobenzene-d5	952302	571381	1333223	723395	-24.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 10-Jul-2008 08:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0806543-01A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15qN.sub
Method File: /chem/msdg.i/08Jul2008.b/t14q702a.m
Misc Info: 8.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.142	101.42	70-130
$ 59 Toluene-d8	10.000	10.331	103.31	70-130
$ 81 Bromofluorobenzene	10.000	9.409	94.09	70-130

Data File: /chem/msdg.i/07Jul2008.b/g070707.d

Date : 07-JUL-2008 17:25

Client ID:

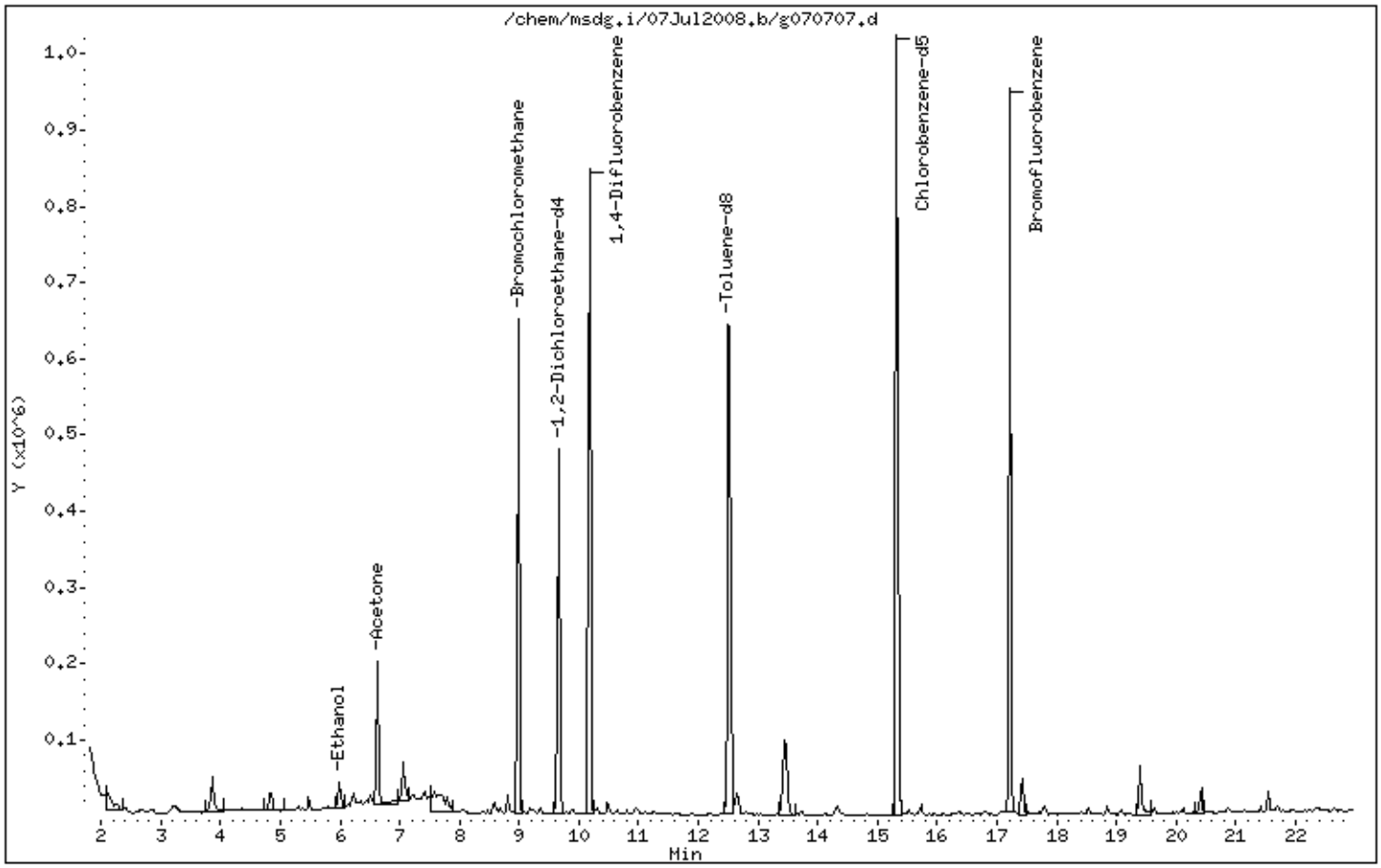
Instrument: msdg.i

Sample Info: 500mL #05363

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdg.i/07Jul2008.b/g070707.d

Date : 07-JUL-2008 17:25

Client ID:

Instrument: msdg.i

Sample Info: 500mL #05363

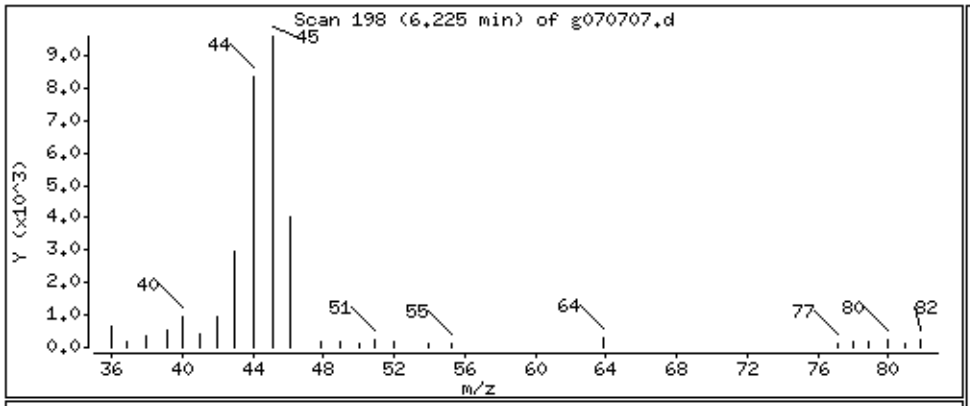
Operator: srs

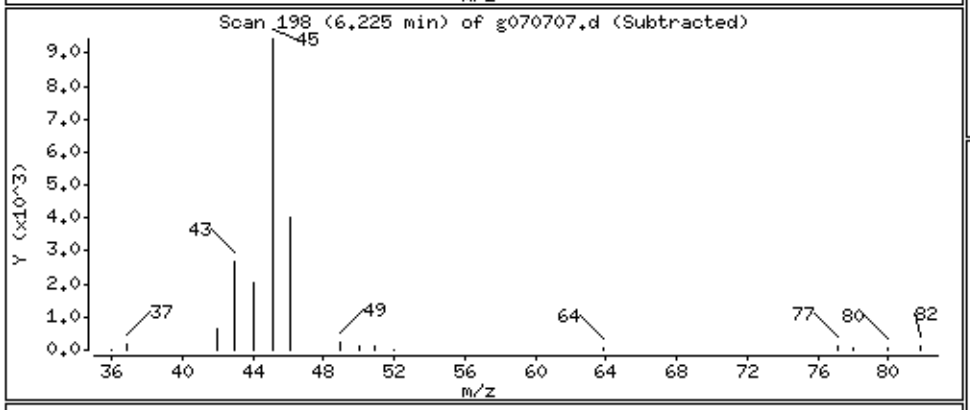
Column phase: RTx-624

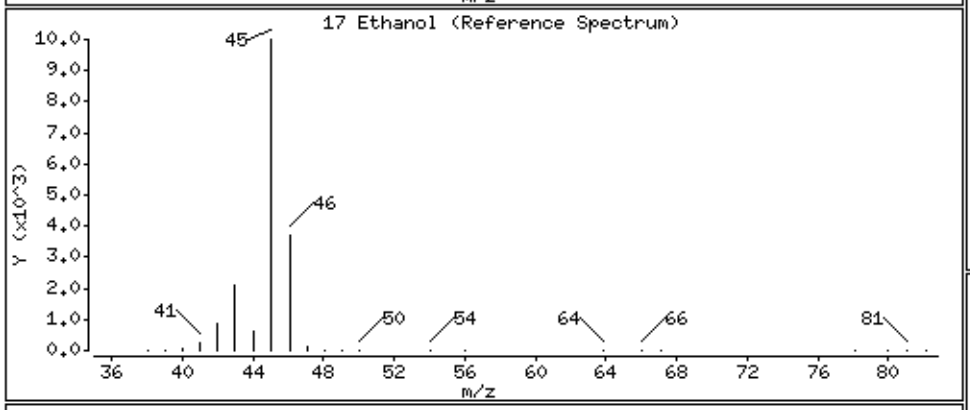
Column diameter: 0.32

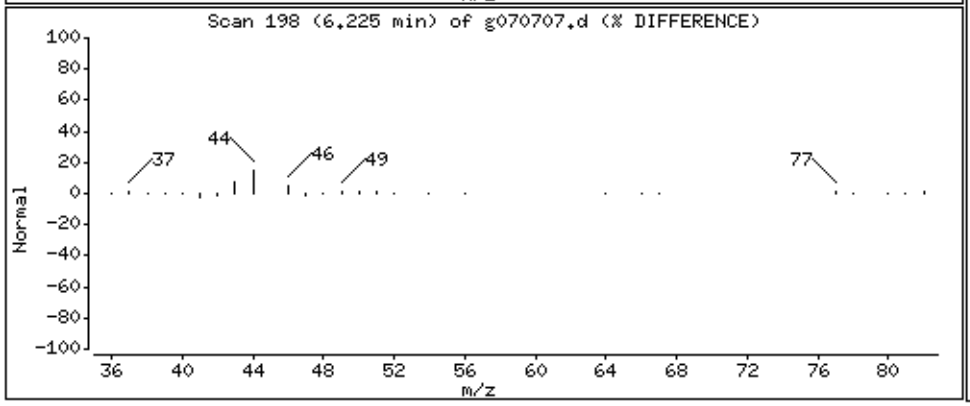
17 Ethanol

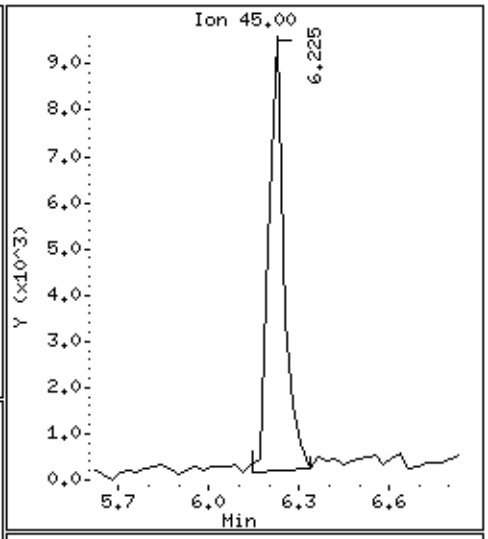
Concentration: 4.417 PPBV

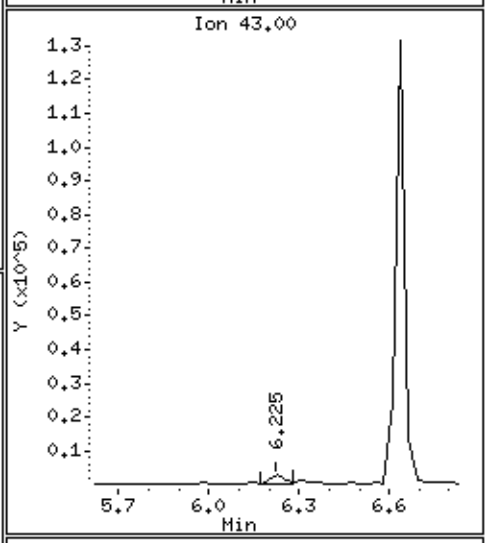


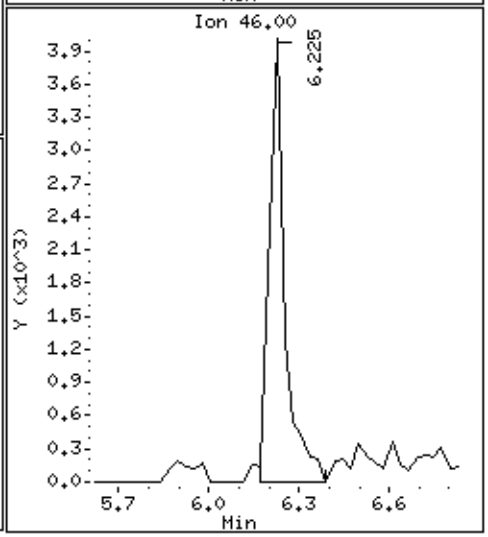












Data File: /chem/msdg.i/07Jul2008.b/g070707.d

Date : 07-JUL-2008 17:25

Client ID:

Instrument: msdg.i

Sample Info: 500mL #05363

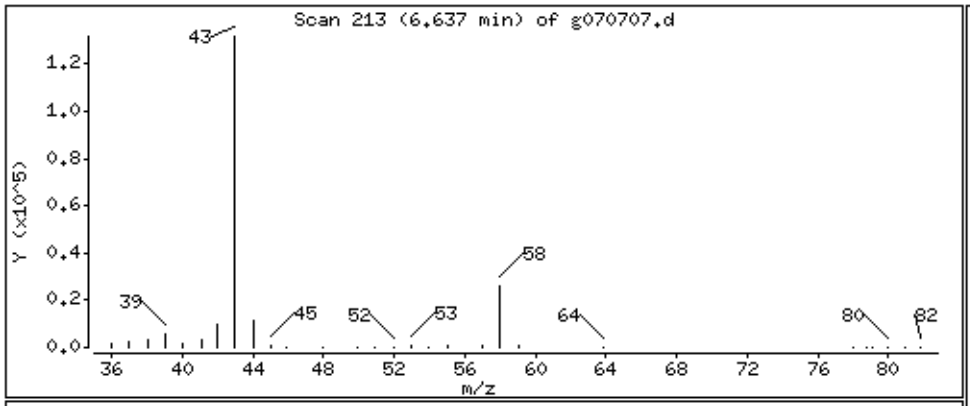
Operator: srs

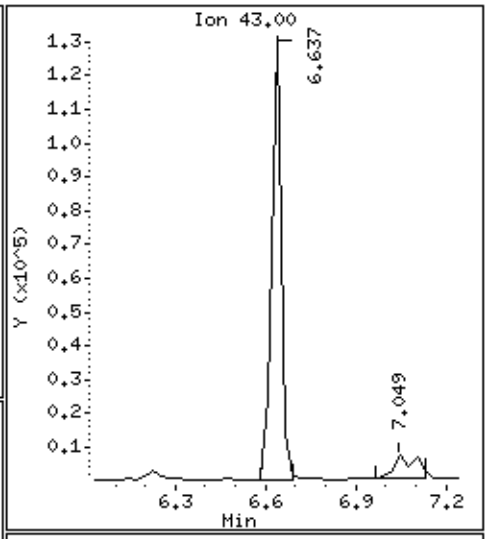
Column phase: RTx-624

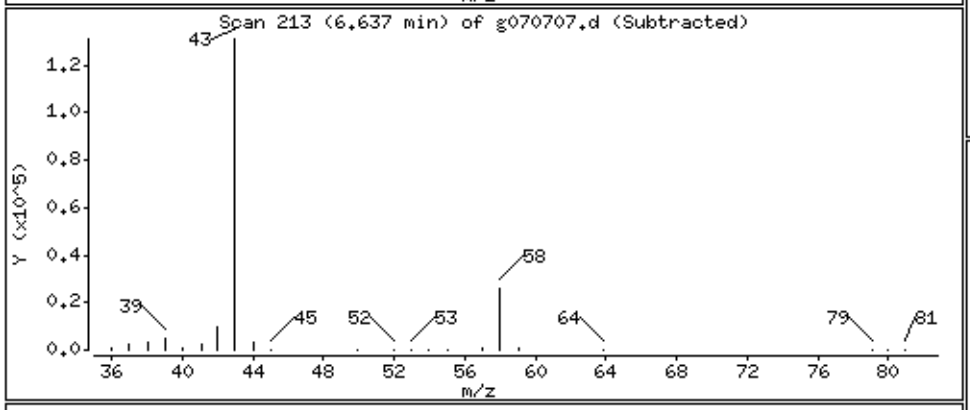
Column diameter: 0.32

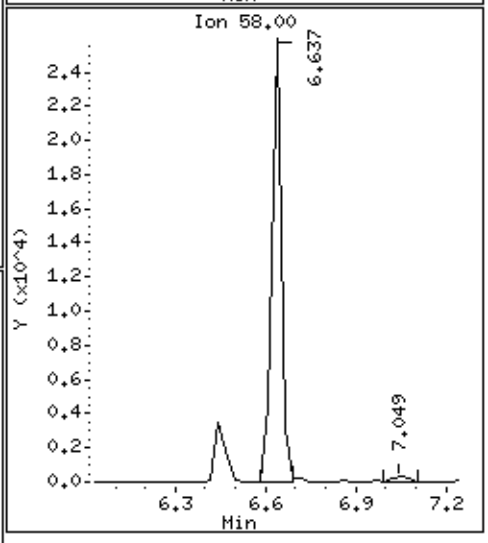
21 Acetone

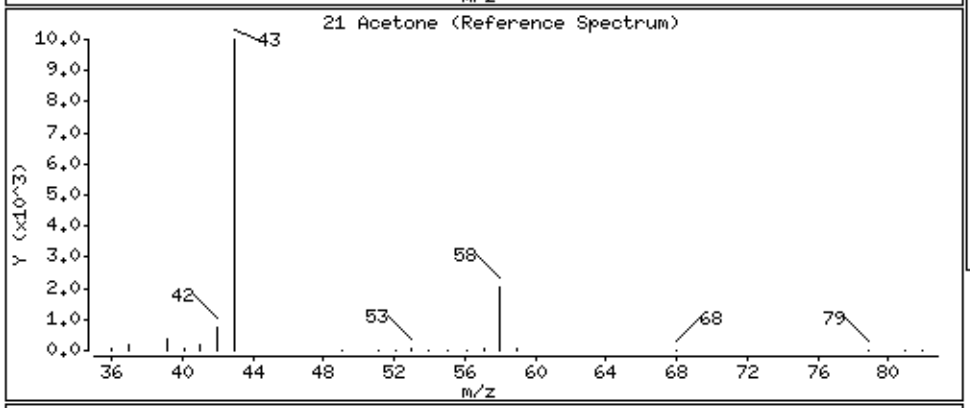
Concentration: 7.067 PPBV

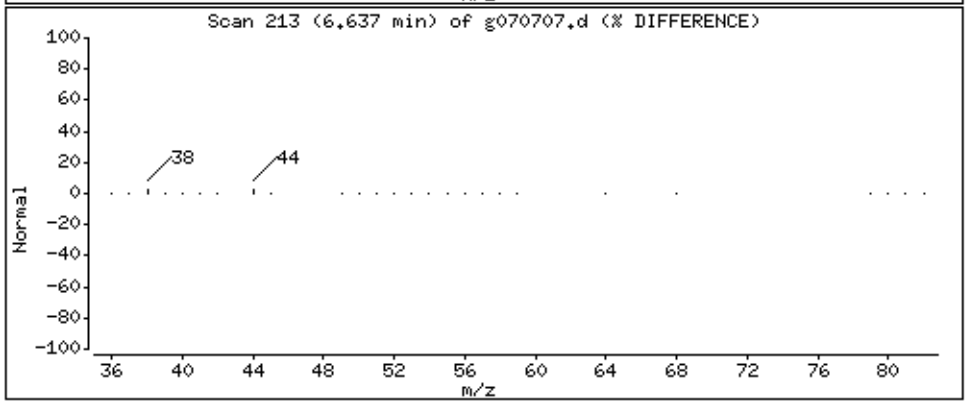












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS 1 DW

Lab ID#: 0806543-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.6	8.6	8.5	20
2-Butanone (Methyl Ethyl Ketone)	0.90	1.0	2.6	3.0
Ethanol	3.6	5.2	6.7	9.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 DW

Lab ID#: 0806543-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070708**	**Date of Collection:**	**6/25/08**
Dil. Factor:	**1.79**	**Date of Analysis:**	**7/7/08 06:00 PM**

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 DW

Lab ID#: 0806543-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070708**	**Date of Collection: 6/25/08**	
Dil. Factor:	**1.79**	**Date of Analysis: 7/7/08 06:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.90	Not Detected	3.7	Not Detected
Bromodichloromethane	0.90	Not Detected	6.0	Not Detected
Dibromochloromethane	0.90	Not Detected	7.6	Not Detected
Cumene	0.90	Not Detected	4.4	Not Detected
Propylbenzene	0.90	Not Detected	4.4	Not Detected
Chloromethane	3.6	Not Detected	7.4	Not Detected
1,2,4-Trichlorobenzene	3.6	Not Detected	26	Not Detected
Hexachlorobutadiene	3.6	Not Detected	38	Not Detected
Acetone	3.6	8.6	8.5	20
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
2-Propanol	3.6	Not Detected	8.8	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	1.0	2.6	3.0
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
1,4-Dioxane	3.6	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.90	Not Detected	3.7	Not Detected
2-Hexanone	3.6	Not Detected	15	Not Detected
Bromoform	0.90	Not Detected	9.2	Not Detected
4-Ethyltoluene	0.90	Not Detected	4.4	Not Detected
Ethanol	3.6	5.2	6.7	9.7
Methyl tert-butyl ether	0.90	Not Detected	3.2	Not Detected
3-Chloropropene	3.6	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.90	Not Detected	4.2	Not Detected
Naphthalene	3.6	Not Detected	19	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/07Jul2008.b/g070708.d
Lab Smp Id: 0806543-02A
Inj Date : 07-JUL-2008 18:00
Operator : srs Inst ID: msdg.i
Smp Info : 500mL #35160
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msdg.i/08Jul2008.b/t14q702a.m
Meth Date : 10-Jul-2008 08:10 dbailey Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: TO15qN.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	242004	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	181509			0.00- 30.00	75.00
9.002	9.002 (1.000)	49	580661			0.00- 30.00	239.94
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	888292	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	142268			0.00- 46.76	16.02
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	888428	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	552225			0.00- 30.00	62.16
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	438968	9.45041	9.450	80.00- 120.00	100.00
9.668	9.668 (1.074)	67	208754			0.00- 30.00	47.56
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.523	12.499 (1.229)	98	937074	10.2045	10.204	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	113209			0.00- 42.37	12.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.499 (1.229)	100	586579			33.65- 93.65	62.60
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	510601	9.89357	9.894	80.00- 120.00	100.00
17.226	17.201 (1.125)	95	724891			117.18- 177.18	141.97
17.226	17.226 (1.125)	176	489580			66.43- 126.43	95.88
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	48864	2.88754	5.169	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	13394			0.00- 30.00	27.41
6.225	6.225 (0.692)	46	21409			0.00- 30.00	43.81
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	436993	4.82897	8.644	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	89059			0.00- 30.00	20.38
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	9736	0.55994	1.002	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	97363			730.96- 790.96	1000.01
8.792	8.792 (0.977)	57	4006			0.00- 30.00	41.15

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070708.d
Lab Smp Id: 0806543-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msdg.i/08Jul2008.b/t14q702a.m
Misc Info: 7.5"Hg-5psi

Calibration Date: 07-JUL-2008
Calibration Time: 11:12
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	252957	151774	354140	242004	-4.33
51 1,4-Difluorobenze	943147	565888	1320406	888292	-5.82
72 Chlorobenzene-d5	952302	571381	1333223	888428	-6.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 10-Jul-2008 08:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0806543-02A
Level: LOW Operator: srs
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: TO15qN.sub
Method File: /chem/msdg.i/08Jul2008.b/t14q702a.m
Misc Info: 7.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.450	94.50	70-130
$ 59 Toluene-d8	10.000	10.204	102.05	70-130
$ 81 Bromofluorobenzene	10.000	9.894	98.94	70-130

Data File: /chem/msdg.i/07Jul2008.b/g070708.d

Date : 07-JUL-2008 18:00

Client ID:

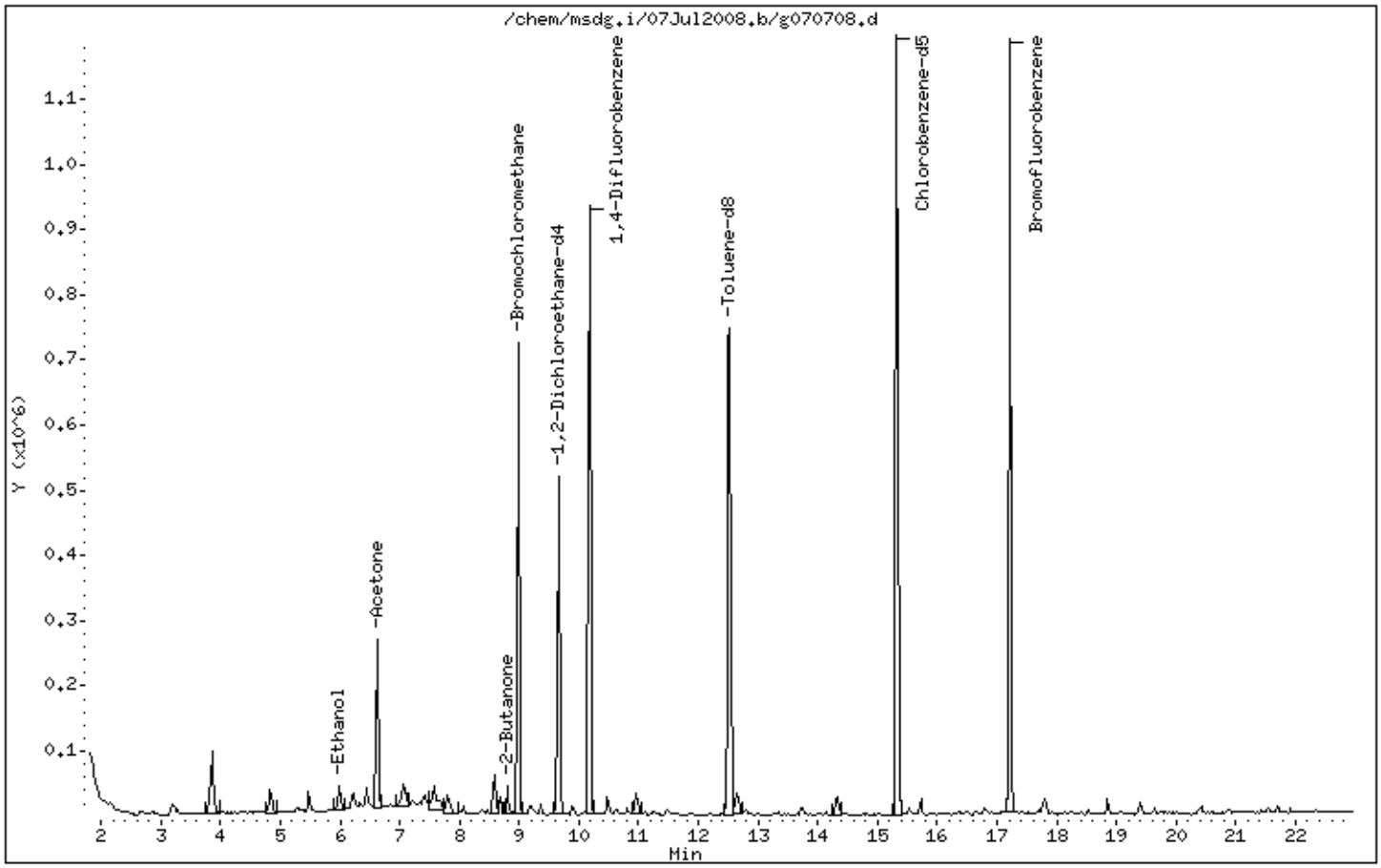
Instrument: msdg.i

Sample Info: 500mL #35160

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msdg.i/07Jul2008.b/g070708.d

Date : 07-JUL-2008 18:00

Client ID:

Instrument: msdg.i

Sample Info: 500mL #35160

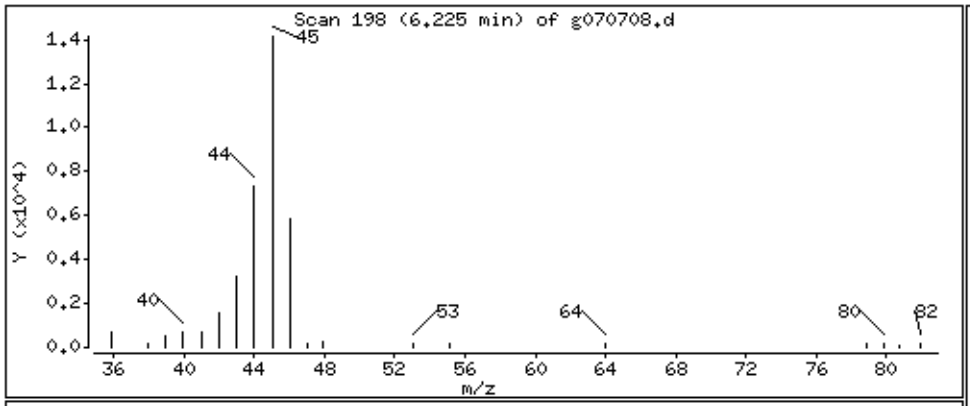
Operator: srs

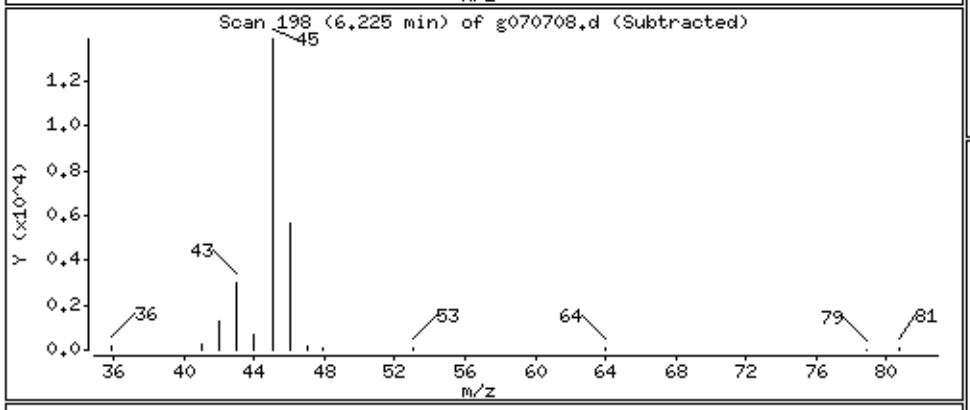
Column phase: RTx-624

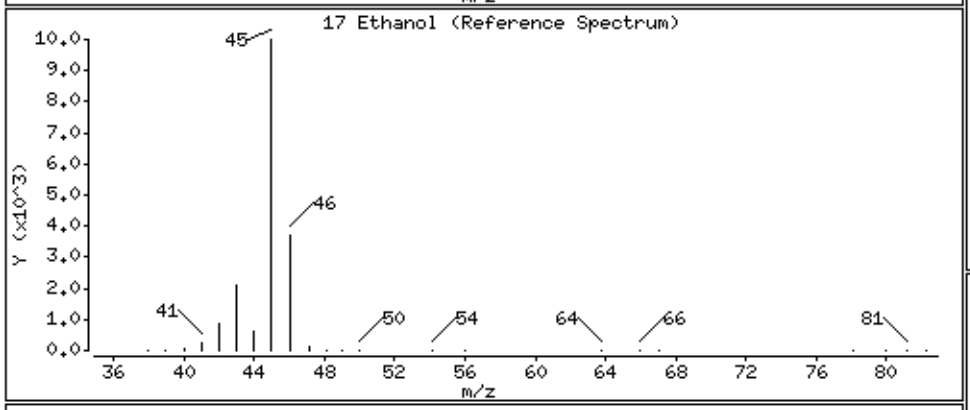
Column diameter: 0.32

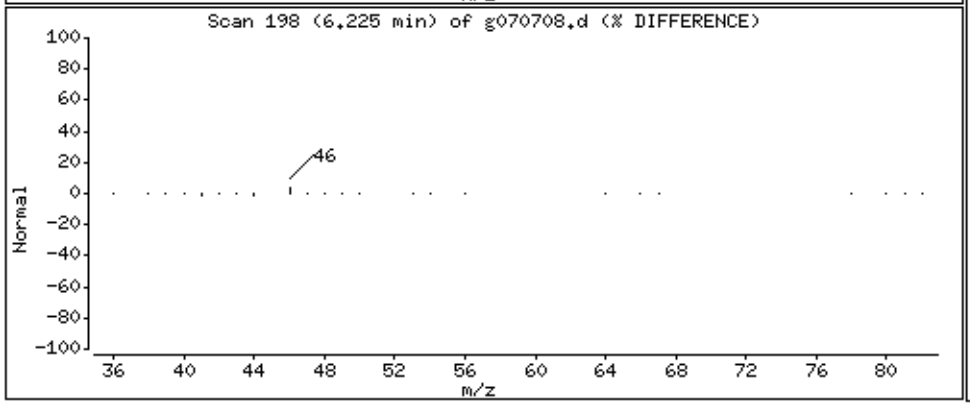
17 Ethanol

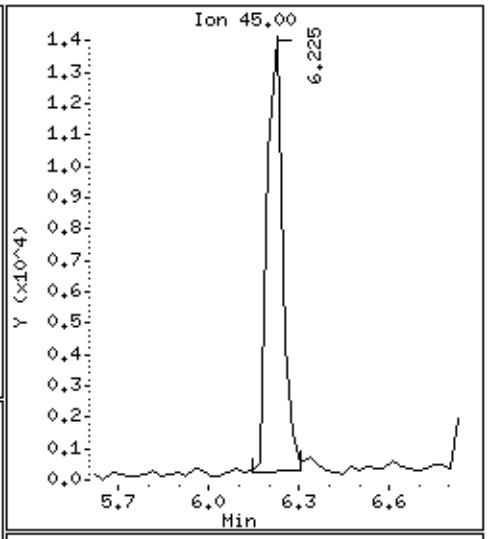
Concentration: 5.169 PPBV

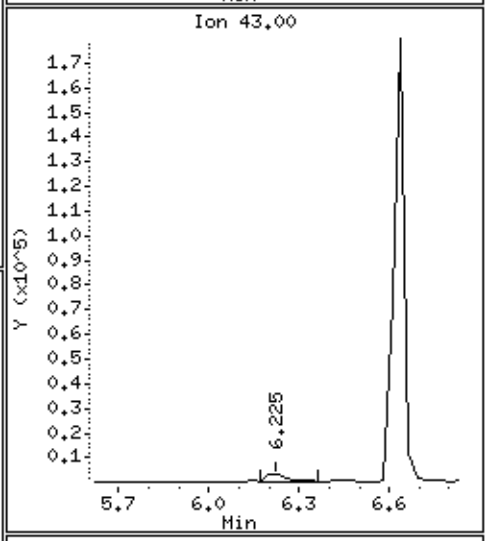


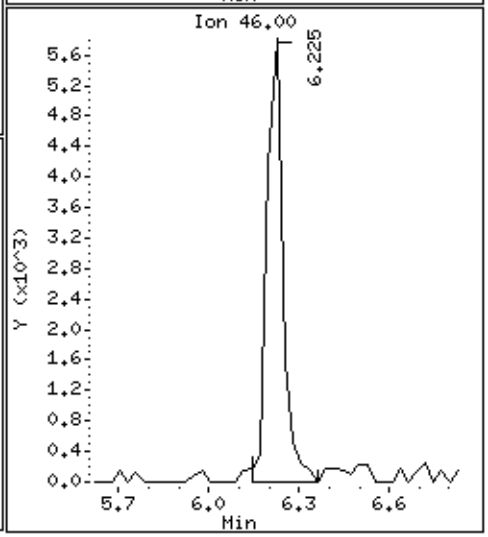












Data File: /chem/msdg.i/07Jul2008.b/g070708.d

Date : 07-JUL-2008 18:00

Client ID:

Instrument: msdg.i

Sample Info: 500mL #35160

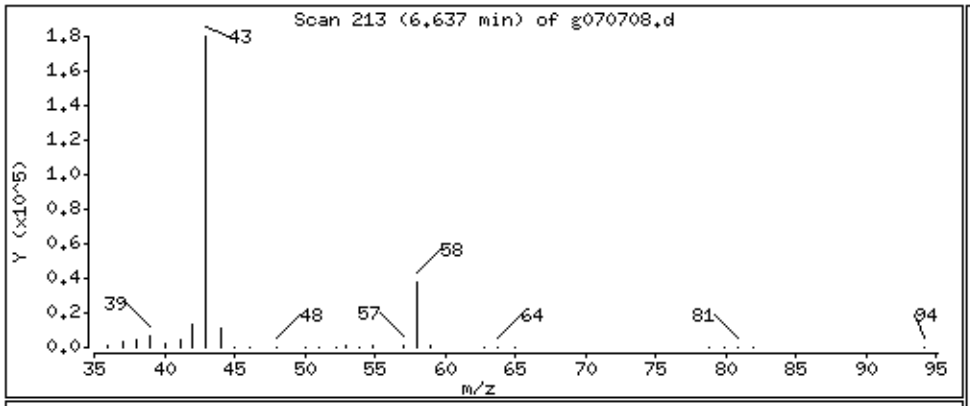
Operator: srs

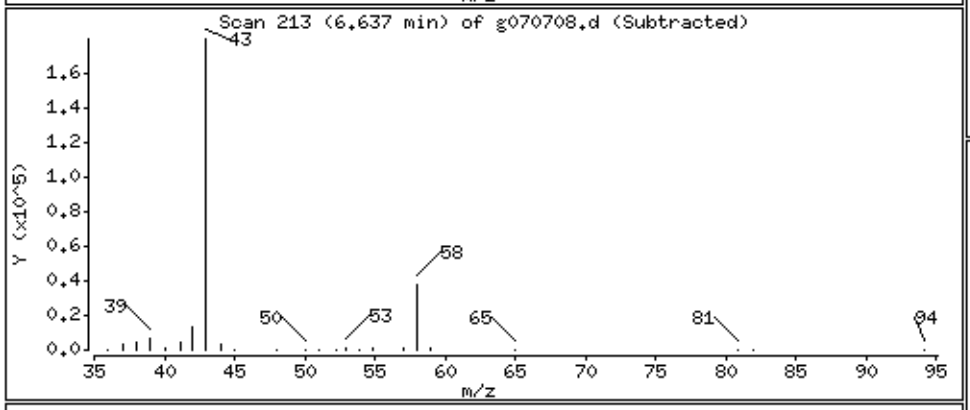
Column phase: RTx-624

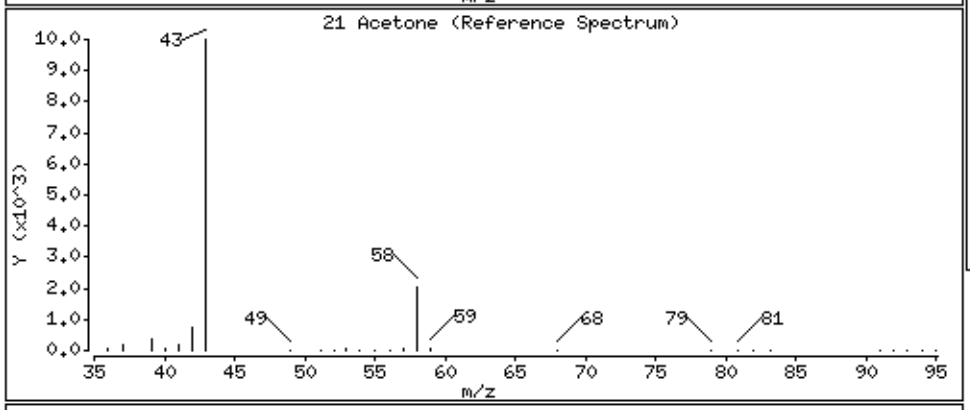
Column diameter: 0.32

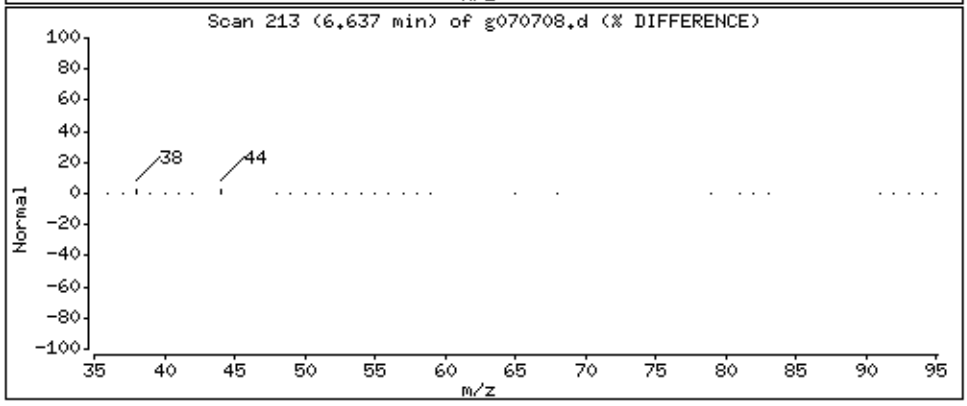
21 Acetone

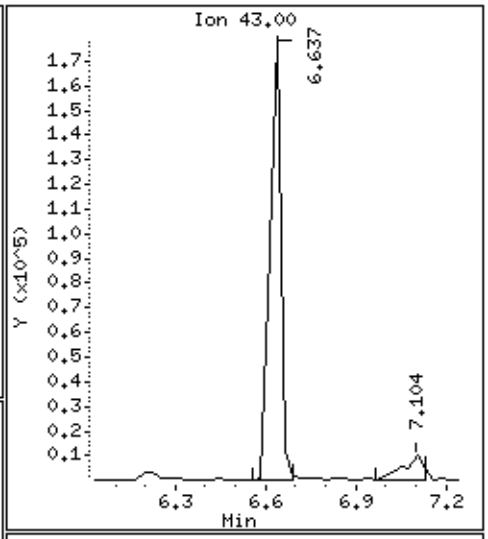
Concentration: 8.644 PPBV

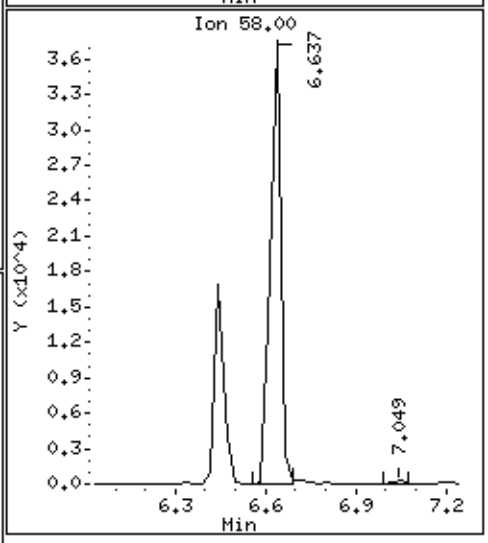












Data File: /chem/msdg.i/07Jul2008.b/g070708.d

Date : 07-JUL-2008 18:00

Client ID:

Instrument: msdg.i

Sample Info: 500mL #35160

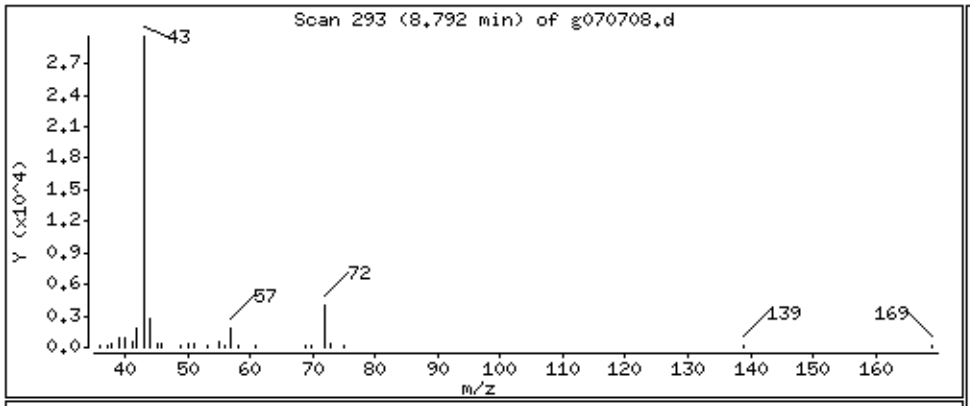
Operator: srs

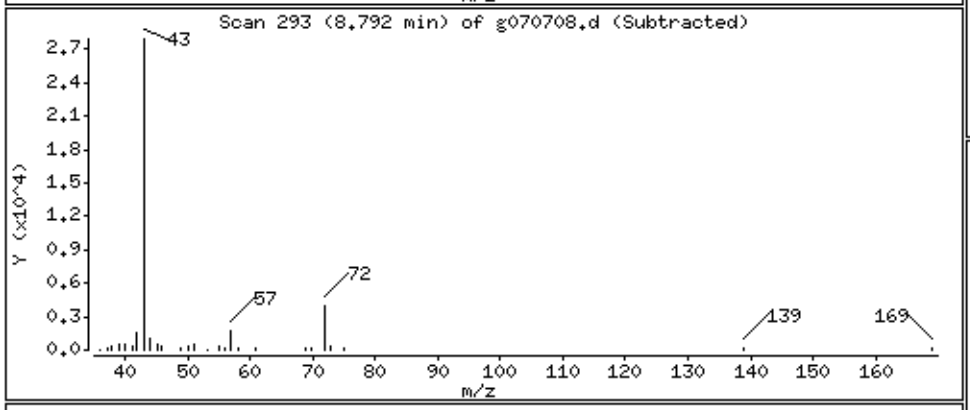
Column phase: RTx-624

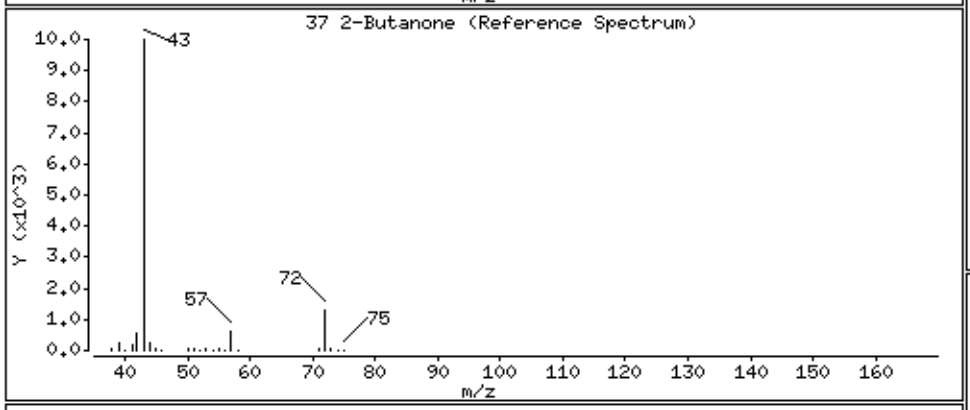
Column diameter: 0.32

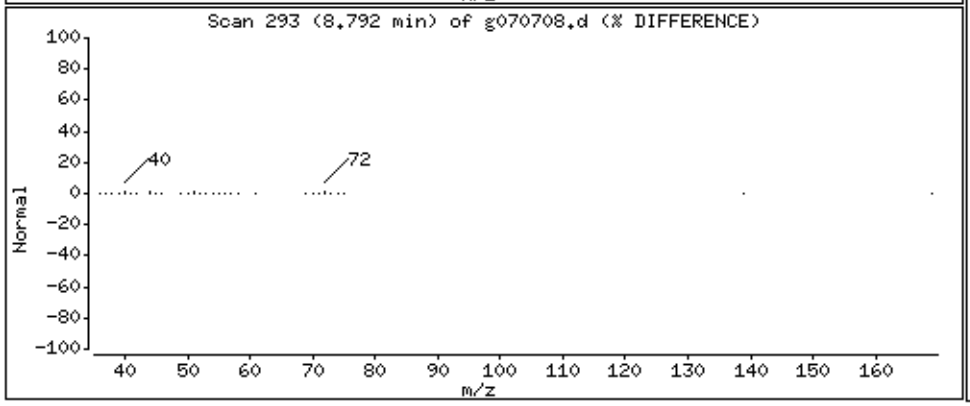
37 2-Butanone

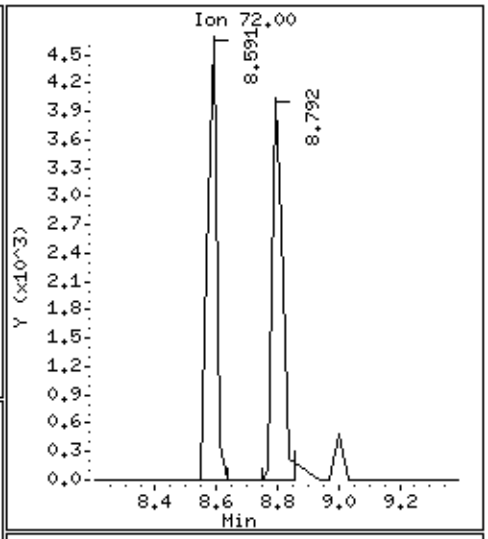
Concentration: 1.002 PPBV

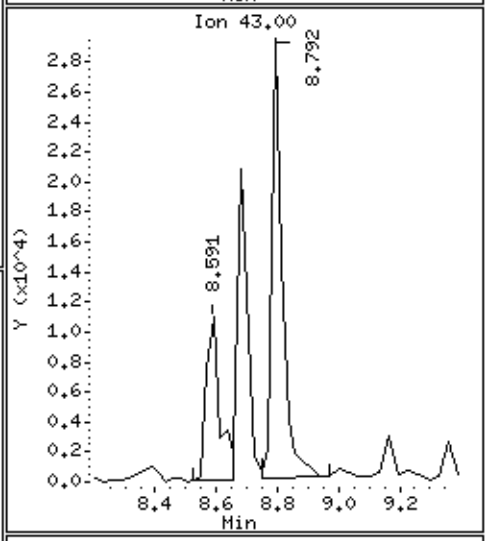


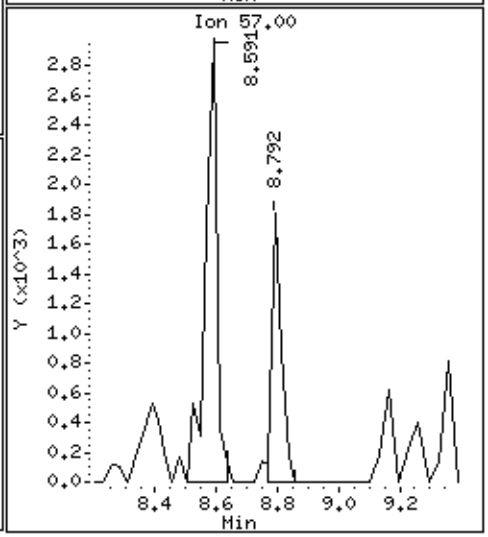












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806543-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 02:53 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0806543-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070706**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 02:53 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/07Jul2008.b/g070706.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 07-JUL-2008 14:53
Operator : lmr Inst ID: msdg.i
Smp Info : 500mL #25246
Misc Info : humid
Comment :
Method : /chem/msdg.i/07Jul2008.b/t14q702a.m
Meth Date : 07-Jul-2008 14:25 lrandolp Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Q.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	242599	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	194451			0.00- 30.00	80.15
9.002	9.002 (1.000)	49	606098			0.00- 30.00	249.84
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	930759	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	151020			0.00- 46.76	16.23
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	938400	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	581664			0.00- 30.00	61.98
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.667	9.668 (1.074)	65	461978	9.92139	9.921	80.00- 120.00	100.00
9.667	9.668 (1.074)	67	215923			0.00- 30.00	46.74
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.523	12.499 (1.229)	98	983451	10.2209	10.221	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	118868			0.00- 42.37	12.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.499 (1.229)	100	614435			33.65- 93.65	62.48
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	549461	10.0796	10.080	80.00- 120.00	100.00
17.226	17.226 (1.125)	95	798170			117.18- 177.18	145.26
17.226	17.226 (1.125)	176	533744			66.43- 126.43	97.14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070706.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/07Jul2008.b/t14q702a.m
Misc Info: humid

Calibration Date: 07-JUL-2008
Calibration Time: 11:12
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	252957	151774	354140	242599	-4.09
51 1,4-Difluorobenze	943147	565888	1320406	930759	-1.31
72 Chlorobenzene-d5	952302	571381	1333223	938400	-1.46

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 07-Jul-2008 15:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08Q.sub
Method File: /chem/msdg.i/07Jul2008.b/t14q702a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.921	99.21	70-130
$ 59 Toluene-d8	10.000	10.221	102.21	70-130
$ 81 Bromofluorobenzene	10.000	10.080	100.80	70-130

Data File: /chem/msdg.i/07Jul2008.b/g070706.d

Date : 07-JUL-2008 14:53

Client ID: Lab Blank

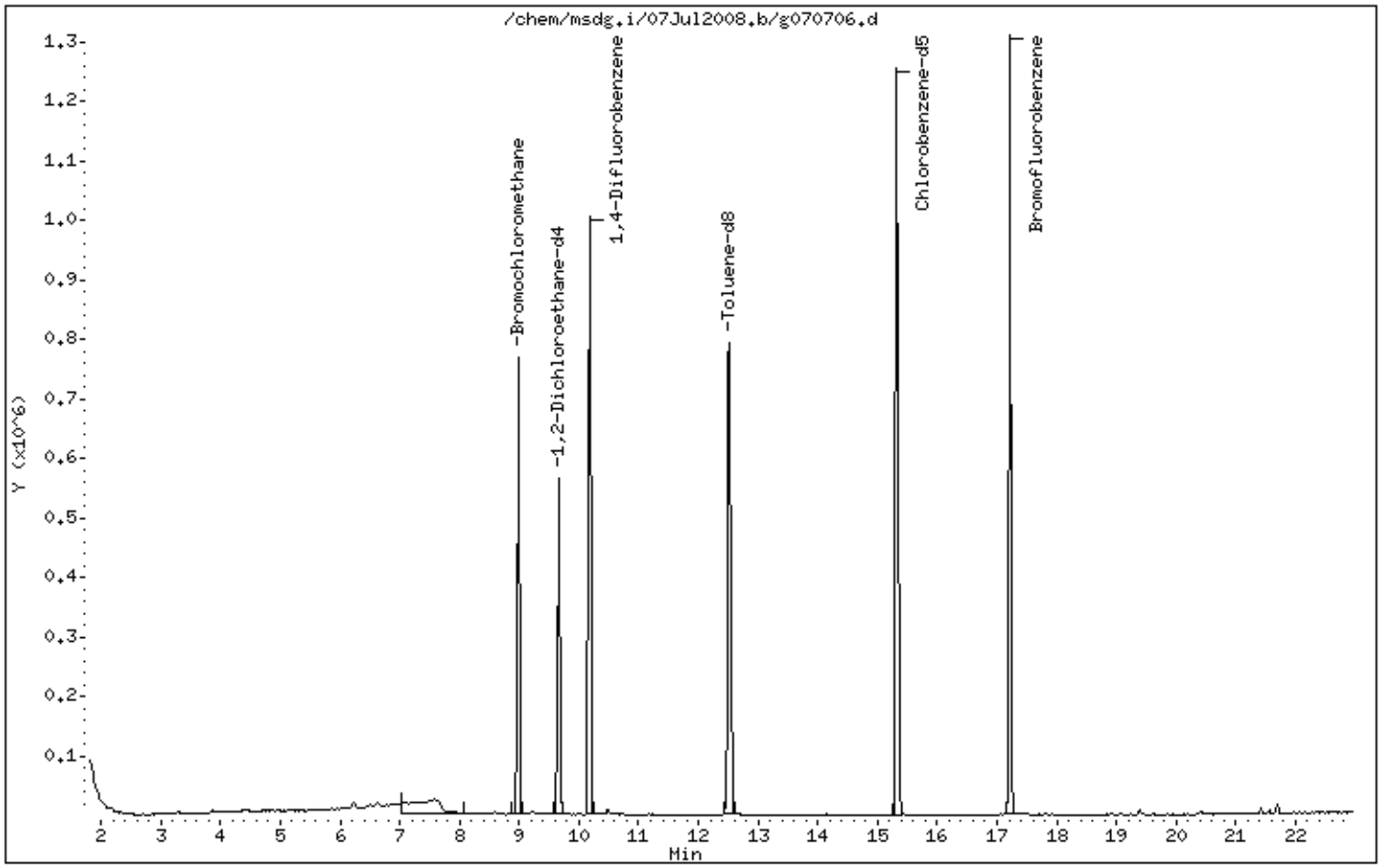
Instrument: msdg.i

Sample Info: 500mL #25246

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0806543

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS 6 UW	101		103		94				0
02	AMS 1 DW	94		102		99				0
03	Lab Blank	99		102		101				0
04	CCV	100		111		99				0
05	LCS	100		106		101				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: 0806543

Lab File ID: g070702.d | Date Analyzed: 07/07/2008

Instrument ID: msdg.i | Time Analyzed: 11:12 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	952302		15.32		943147		10.19		252957		9	
	UPPER LIMIT	1333223		15.65		1320406		10.52		354140		09.33	
	LOWER LIMIT	571381		14.99		565888		09.86		151774		08.67	
	CLIENT SAMPLE NO												
01	AMS 6 UW	723395		15.32		759558		10.19		198402		9	
02	AMS 1 DW	888428		15.32		888292		10.19		242004		9	
03	Lab Blank	938400		15.32		930759		10.19		242599		9	
04	CCV	952302		15.32		943147		10.19		252957		9	
05	LCS	954919		15.32		961701		10.19		257148		9	
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 : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdg.i/02Jul2008.b/g070204.d
Level 2: /chem/msdg.i/02Jul2008.b/g070205.d
Level 3: /chem/msdg.i/02Jul2008.b/g070206.d
Level 4: /chem/msdg.i/02Jul2008.b/g070202.d
Level 5: /chem/msdg.i/02Jul2008.b/g070207.d
Level 6: /chem/msdg.i/02Jul2008.b/g070208.d
Level 7: /chem/msdg.i/02Jul2008.b/g070209.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
3 Freon 134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 Propylene	+++++	1.69705	1.28271	1.35271	1.30467	1.31950	1.34982	1.38441	11.230
5 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Dichlorodifluoromethane/Fr12	+++++	3.73040	3.01076	3.22743	2.93436	2.92748	2.89445	3.12081	10.318
7 Freon 114	+++++	1.76812	1.65259	1.75550	1.59555	1.31808	1.34965	1.57325	12.491
8 Chloromethane	+++++	2.10315	2.20815	2.19223	1.99147	2.25611	2.02427	2.12923	5.013
183 Butane	+++++	0.22914	0.25167	0.25634	0.25137	0.24377	0.25779	0.24835	4.272

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
9 Vinyl Chloride	+++++	1.36424	1.08708	1.14157	1.09789	1.11391	1.13383	1.15642	8.983
10 1,3-Butadiene	1.32784	1.29460	1.13344	1.19142	1.30418	1.21032	1.31861	1.25434	6.015
11 Bromomethane	+++++	0.58250	0.51841	0.55884	0.56555	0.53364	0.65287	0.56863	8.301
12 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Chloroethane	+++++	0.38151	0.38348	0.46719	0.44805	0.44929	0.46150	0.43183	9.009
14 Isopentane	+++++	1.17586	1.27112	1.28829	1.25724	1.26742	1.26610	1.25434	3.171
15 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Trichlorofluoromethane/Fr11	+++++	3.62928	3.98984	4.15787	3.84121	3.48925	3.46935	3.76280	7.446
23 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Ethanol	+++++	0.69862	0.78421	0.66565	0.65546	0.69520	0.69642	0.69926	6.487

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
22 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
18 1,1-Dichloroethene	+++++	0.68997	0.60915	0.68889	0.55609	0.53318		
	0.52555						0.60047	12.466
19 Freon 113	+++++	1.93016	1.33606	1.70294	1.26063	1.12384		
	1.07208						1.40429	24.254
20 Carbon Disulfide	+++++	3.87801	2.98541	3.68970	2.88164	2.73750		
	2.74845						3.15345	15.866
21 Acetone	+++++	3.67885	4.45936	3.50480	3.81915	3.46138		
	3.51261						3.73936	10.093
24 2-Propanol	+++++	3.04487	4.27610	3.61695	4.14951	3.53278		
	3.86422						3.74741	12.002
25 3-Chloroprene	+++++	0.44076	0.43049	0.52425	0.44137	0.54149		
	0.40900						0.46456	11.724
26 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
176 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
27 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
28 Methylene Chloride	+++++	1.07632	0.78663	1.03282	0.71275	0.91261	0.63330	0.85907	20.685
29 MTBE	+++++	3.00204	4.00148	3.10993	4.11183	2.75287	3.11124	3.34823	16.880
30 trans-1,2-Dichloroethene	+++++	0.91071	0.89462	0.87494	0.88029	0.76188	0.52127	0.80728	18.548
179 tert-Butyl Alcohol	+++++	2.62521	3.23409	2.88892	3.45824	2.77301	3.57093	3.09173	12.482
31 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Hexane	+++++	2.61839	2.73707	3.02970	3.06152	2.93872	2.79339	2.86313	6.119
33 1,1-Dichloroethane	+++++	3.19066	2.98796	3.01807	2.92569	2.75789	2.74303	2.93722	5.765
182 Isopropyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Chlorprene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Vinyl Acetate	+++++	6.04160	5.26536	6.48473	6.53517	6.51628	5.50143	6.05743	9.216

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
174 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
180 Ethyl tert-Butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
184 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
36 cis-1,2-Dichloroethene	+++++	0.84821	0.84215	0.94079	0.88952	0.81981		
	0.78583						0.85438	6.364
37 2-Butanone	+++++	0.65460	0.71384	0.78438	0.78191	0.70159		
	0.67457						0.71848	7.542
169 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
38 Tetrahydrofuran	+++++	2.82866	3.20102	2.89749	3.25010	2.87602		
	3.29551						3.05813	6.940
40 Chloroform	3.42006	3.13680	3.09237	3.06071	3.06307	2.75411		
	2.72873						3.03655	7.794
41 Cyclohexane	+++++	1.96974	2.08341	2.23917	2.17983	1.96985		
	1.91122						2.05887	6.348
42 1,1,1-Trichloroethane	+++++	3.28393	3.06651	3.27894	3.19136	2.94794		
	2.93745						3.11769	5.030

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
43 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
44 Carbon Tetrachloride	+++++	3.10000	3.04511	2.60060	2.55497	2.91377		
	2.86342						2.84631	7.918
46 Benzene	1.17872	1.19578	1.21156	1.26242	1.23701	1.03384		
	0.95172						1.15301	9.994
45 2,2,4-Trimethylpentane	+++++	3.24134	3.04769	3.34390	3.26647	3.19760		
	3.20584						3.21714	3.055
48 1,2-Dichloroethane	+++++	0.69251	0.72073	0.73628	0.75456	0.65933		
	0.67267						0.70601	5.286
181 tert-Amyl Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Heptane	+++++	1.00577	1.12136	1.33490	1.42170	1.27954		
	1.24697						1.23504	12.141
50 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 Trichloroethene	+++++	0.52125	0.48002	0.51097	0.50382	0.42687		
	0.39244						0.47256	10.949
2 Methylcyclohexane	+++++	2.79122	2.80110	3.09914	3.01289	2.76069		
	2.67551						2.85676	5.700

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
53 1,2-Dichloropropane	+++++	0.50890	0.51110	0.52675	0.55118	0.48618	0.48529	0.51157	4.900
54 1,4-Dioxane	+++++	0.23379	0.24521	0.27513	0.29372	0.25681	0.26285	0.26125	8.175
66 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
55 Bromodichloromethane	+++++	0.78473	0.80580	0.87484	0.91606	0.79922	0.79501	0.82928	6.431
56 cis-1,3-Dichloropropene	+++++	0.51111	0.54276	0.65325	0.71019	0.62781	0.62162	0.61112	11.948
58 4-Methyl-2-pentanone	+++++	1.22552	1.45324	1.66082	1.88225	1.67153	1.75877	1.60869	14.579
60 Toluene	+++++	1.28955	1.34422	1.45931	1.50287	1.28246	1.24810	1.35442	7.661
57 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 trans-1,3-Dichloropropene	+++++	0.59649	0.63532	0.76333	0.82183	0.76299	0.74606	0.72100	11.962
63 1,1,2-Trichloroethane	+++++	0.52157	0.54162	0.56247	0.56535	0.50573	0.46743	0.52736	7.081

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
64 Tetrachloroethene	+++++	0.69199	0.69792	0.74733	0.73467	0.63693	0.56950	0.67972	9.770
62 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 2-Hexanone	+++++	0.51921	0.61044	0.74152	0.81981	0.74071	0.77617	0.70131	16.162
68 Dibromochloromethane	+++++	0.78184	0.79625	0.91860	0.93583	0.84666	0.79154	0.84512	8.007
69 1,2-Dibromoethane	0.26657	0.27727	0.23885	0.26088	0.23815	0.21836	0.15649	0.23665	17.165
71 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Chlorobenzene	+++++	1.39948	1.37319	1.41986	1.42213	1.24519	1.14570	1.33426	8.500
74 Ethyl Benzene	+++++	0.64659	0.68095	0.75952	0.76646	0.67737	0.62089	0.69196	8.564
168 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
173 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
75 m,p-Xylene	+++++	0.71433	0.84308	0.94656	0.96843	0.84846	0.77616	0.84950	11.444
76 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 o-Xylene	+++++	0.65968	0.76703	0.89619	0.92785	0.79571	0.74085	0.79789	12.516
78 Styrene	0.83922	1.04055	1.26953	1.47991	1.49212	1.31045	1.20371	1.23364	18.964
79 Bromoform	+++++	0.73592	0.76139	0.86929	0.90086	0.81073	0.73994	0.80302	8.671
170 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Cumene	1.80217	1.91338	2.26614	2.66646	2.71236	2.35877	2.12579	2.26358	15.381
82 1,1,2,2-Tetrachloroethane	+++++	1.40240	1.41228	1.47969	1.49371	1.31318	1.21341	1.38578	7.666
83 Propylbenzene	+++++	2.81941	3.14403	3.50301	3.50843	3.02105	1.97430	2.99504	18.989
65 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
172 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
84 4-Ethyltoluene	+++++	+++++	+++++	+++++	2.99311	2.57119		
	1.80445						2.45625	24.534
175 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
85 1,3,5-Trimethylbenzene	1.67800	1.90166	2.20002	2.38115	2.45273	2.10426		
	1.78046						2.07118	14.312
86 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
87 1,2,4-Trimethylbenzene	1.43836	1.63165	1.93092	2.29064	2.37462	2.08797		
	1.85670						1.94441	17.407
88 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 1,3-Dichlorobenzene	+++++	1.27382	1.29445	1.48098	1.46236	1.27508		
	1.16201						1.32478	9.295
70 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
90 1,4-Dichlorobenzene	+++++	1.34402	1.39562	1.52516	1.50514	1.31120		
	1.15382						1.37250	9.981

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	___ RRF	% RSD
	100.000 Level 7							
171 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
91 alpha-chlorotoluene	+++++	1.13013	1.39949	1.88998	2.10712	2.01552		
	1.79623						1.72308	22.062
92 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
94 1,2-Dichlorobenzene	+++++	1.26148	1.29339	1.41512	1.38217	1.21075		
	1.07966						1.27376	9.546
95 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
177 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
96 1,2,4-Trichlorobenzene	+++++	1.02647	0.91850	1.13629	1.05392	1.03482		
	0.87597						1.00766	9.422
97 Hexachlorobutadiene	+++++	0.91669	0.84566	1.00438	0.89558	0.83484		
	0.69464						0.86530	11.936
98 Naphthalene	+++++	1.70392	1.75700	2.34233	2.24743	2.24453		
	1.93233						2.03792	13.543

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdg.i/02Jul2008.b/t14q702a.m
Cal Date : 03-Jul-2008 13:25 cleonard
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	10.000 Level 4	25.000 Level 5	50.000 Level 6	100.000 Level 7	___ RRF	% RSD
178 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
$ 47 1,2-Dichloroethane-d4	1.90933	1.98207	1.80107	1.82545	1.87311	1.94981	2.09479	1.91937	5.240
$ 59 Toluene-d8	1.00416	0.99583	1.04667	1.05361	1.05013	1.02619	1.05982	1.03377	2.460
$ 81 Bromofluorobenzene	0.56930	0.57384	0.57197	0.58262	0.60193	0.59635	0.57033	0.58091	2.288

Calibration History

Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Start Cal Date: 02-JUL-2008 08:28
End Cal Date : 02-JUL-2008 13:24

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
02-JUL-2008 09:43	AFCEElow	/chem/msdg.i/02Jul2008.b/g070204.d
Cal Level: 2 , Cal Amount: 0.50000		
02-JUL-2008 10:12	Hilocurve+Ensr	/chem/msdg.i/02Jul2008.b/g070205.d
Cal Level: 3 , Cal Amount: 2.00000		
02-JUL-2008 11:01	AT08mdl	/chem/msdg.i/02Jul2008.b/g070206.d
Cal Level: 4 , Cal Amount: 10.00000		
02-JUL-2008 08:28	AT08mdl	/chem/msdg.i/02Jul2008.b/g070202.d
Cal Level: 5 , Cal Amount: 25.00000		
02-JUL-2008 11:32	AT08mdl	/chem/msdg.i/02Jul2008.b/g070207.d
Cal Level: 6 , Cal Amount: 50.00000		
02-JUL-2008 12:20	AT08mdl	/chem/msdg.i/02Jul2008.b/g070208.d
Cal Level: 7 , Cal Amount: 100.00000		
02-JUL-2008 13:24	AT08	/chem/msdg.i/02Jul2008.b/g070209.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

| Ccal Level: 5 , Ccal Amount: 25.000 |

02-JUL-2008 11:32	AT08mdl	/chem/msdg.i/02Jul2008.b/g070207a.d
Ccal Level: 5 , Ccal Amount: 25.000		
02-JUL-2008 11:32	AT08mdl	/chem/msdg.i/02Jul2008.b/g070207.d

Initial Calibration Narrative

A 7-point initial calibration curve with a linear range of 0.30ppbv to100ppbv was analyzed on 7/02/08 on MSD-G.

BCM : 356533
1,4-DFB: 1324634
CB-d5: 1242028

@ Air Toxics Ltd.

MSD-G

Logbook #: 1640

0052

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.58
75	30.0 – 60.0% of mass 95	52.60
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.66
173	Less than 2.0% of mass 174	(0.81)[1]
174	Greater than 50.0% of mass 95	69.40
175	5.0 – 9.0% of mass 174	(7.06)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.26)[1]
177	5.0 – 9.0% of mass 176	(6.48)[2]

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

BFB Injection Date: 7/2/08
BFB Injection Time: 0802
BFB File ID: G070201
Tekmar Purge Flow: ~~LR 7/2/08~~
Vacuum: 6.10×10^{-6}

IS/S Std.#: 1541-145	Exp. Date: 8/4/08
BCM ~~3055944~~	~~2883853~~ 514
1,4-DFB 1200887	1272384
CB-d5 ~~1113681~~	~~1176782~~ LR 7/2/08

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

Verify 176/174 m/z Ratio: 453824/466624 x100 = 97.26

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1265268)}{(1200887)} \times \frac{(10.0)}{(1.04536)} = 10.079$

Reported Result 10.079

File ID: G070202
Compound: Total8
Initials: LR

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	G070201	BFB Tune Check	1470-431	50ng	2µl	1.00	7/2/08	0802	LR	
2	✓	02	~~ICAL Lvl 4 (CCV-1 (25ppbv)~~	1541-159A	10ppbv	200mL			0828	LR	
3	✓	03	SYSTEM BLANK	-	dry	500mL			0913	LR	
4	✓	04	ICAL Lvl 1	1612-36	0.3ppbv	75mL			0943	LR	
5	✓	05	2		0.5ppbv	125mL			1012	LR	
6	✓	06	3	✓	2.0ppbv	500mL			1101	LR	
7	✓	07	5	1541-159A	25ppbv	500mL			1132	LR	CCV
8	✓	08	6	1612-36	50ppbv	125mL			1220	LR	
9		09	7	↓	100ppbv	250mL	↓	↓	1324	LR	ICAL 7029

Signature

7/2/08
Date

@ Air Toxics Ltd.

MSD-G-

Logbook #: 1640

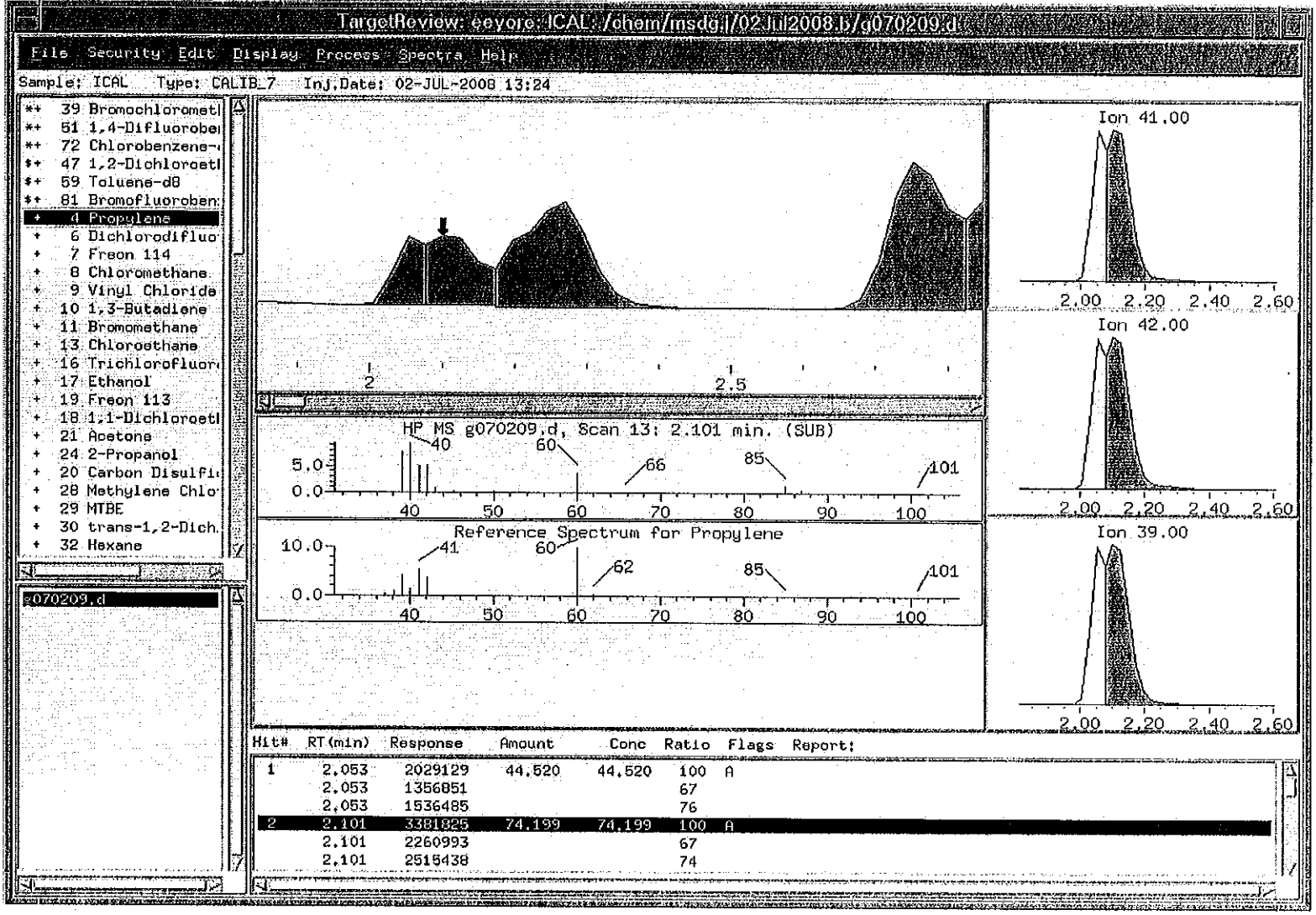
0053

10	X	G070210	ICAL Lvl 8	1612-36	200ppbv	~~5mL~~ 5mL	1.0	71265	1357	LR	
11	X	11	System Blank	—	dry	5mL			1501	LR	
12	✓	12	LCS-1 (50ppbv)	1541-1553	25ppbv	250mL			1550	LR	ICAL LCS
13		13	LCSD (50ppbv)	1	1	1					
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

LR 71265

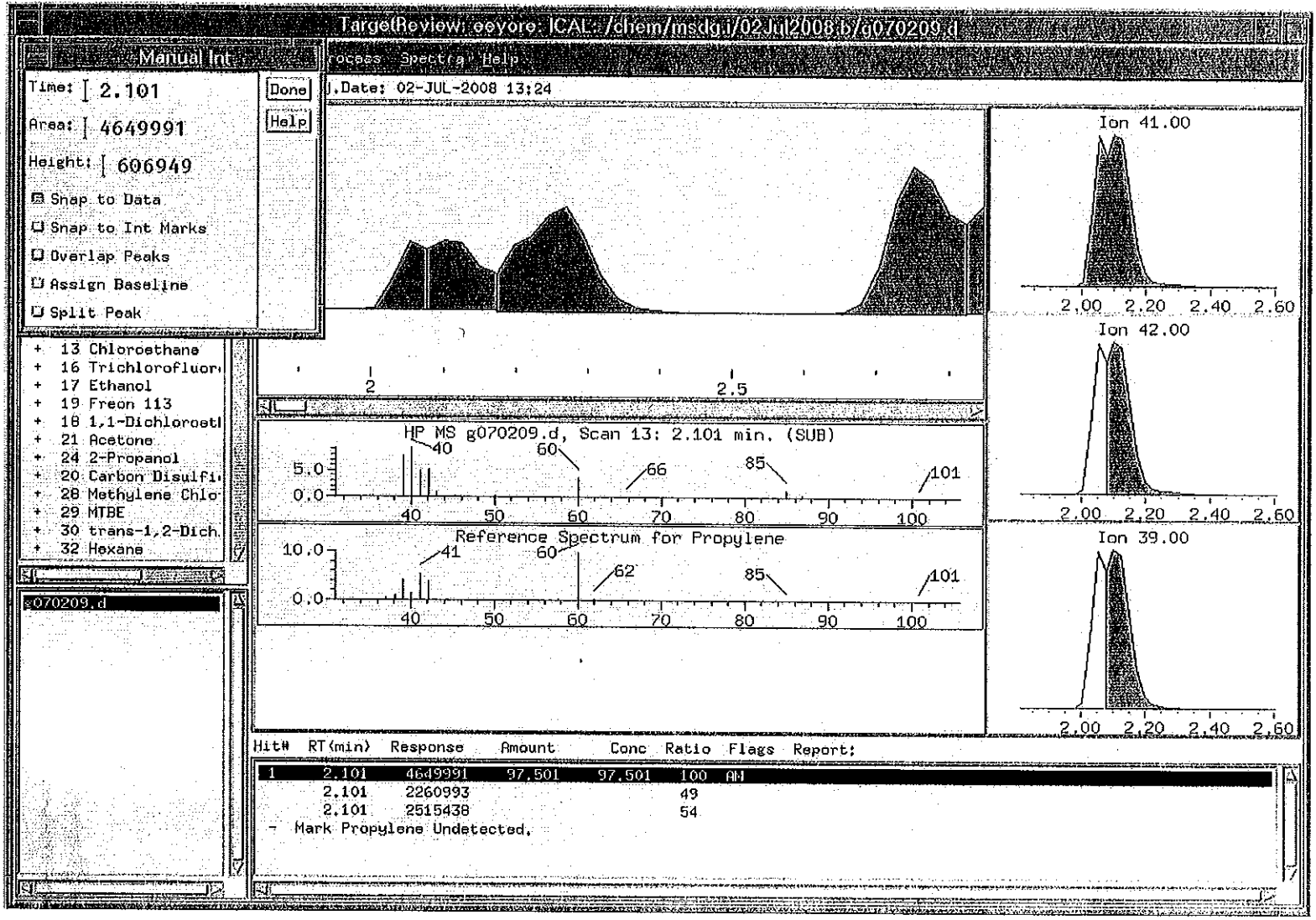
Comments:

_____ Date _____



Team VOC

Date / Initial	7/3/08 cl
Poor Integration	
Split Peak	✓
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	



Team VOC

Date / Initial	7/30/08
Poor Integration	
Split Peak	✓
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	

Air Toxics Ltd.
Modified EPA Methods TO-14A/TO-15 Low Level
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
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
Surrogates:
1,2-Dichloroethane-d4

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070212.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 02-JUL-2008 15:50
Operator : lmr Inst ID: msdg.i
Smp Info : 250ml #1541-153;LCS-1;LCS-1
Misc Info : 50ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 14:14 lrandolp Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	331456	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	258406			0.00- 30.00	77.96
9.002	9.002 (1.000)	49	891173			0.00- 30.00	268.87
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1362037	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	229117			0.00- 46.78	16.82
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1287365	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	822577			0.00- 30.00	63.90
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	652194	10.2516	10.252	80.00- 120.00	100.00
9.668	9.668 (1.074)	67	363202			0.00- 30.00	55.69
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1470013	10.4402	10.440	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	177484			0.00- 42.14	12.07

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	927337			34.50- 94.50	63.08
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	737476	9.86143	9.861	80.00- 120.00	100.00
17.201	17.201 (1.123)	95	1118145			113.13- 173.13	151.62
17.226	17.226 (1.125)	176	713940			66.52- 126.52	96.81
4 Propylene					CAS #: 115-07-1		
2.149	2.101 (0.239)	41	1091086	23.7776	23.778	80.00- 120.00	100.00
2.149	2.125 (0.239)	42	717137			0.00- 30.00	65.73
2.149	2.125 (0.239)	39	791447			0.00- 30.00	72.54
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.270 (0.255)	85	2140682	20.6947	20.695	80.00- 120.00	100.00
2.294	2.270 (0.255)	87	690149			1.53- 61.53	32.24
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1077377	20.6607	20.661	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	359684			0.00- 30.00	33.39
2.752	2.752 (0.306)	85	1788275			0.00- 30.00	165.98
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1675984	23.7477	23.748	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	483332			0.00- 30.00	28.84
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.291 (0.367)	62	871696	22.7417	22.742	80.00- 120.00	100.00
3.325	3.308 (0.369)	64	273889			0.00- 59.65	31.42
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.430 (0.379)	54	996899	23.9778	23.978	80.00- 120.00	100.00
3.412	3.430 (0.379)	39	1242541			0.00- 30.00	124.64
11 Bromomethane					CAS #: 74-83-9		
4.350	4.351 (0.483)	94	345044	18.3069	18.307	80.00- 120.00	100.00
4.350	4.351 (0.483)	96	325718			64.87- 124.87	94.40
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	338867	23.6748	23.675	80.00- 120.00	100.00
4.724	4.724 (0.525)	49	144132			0.00- 30.00	42.53
4.724	4.724 (0.525)	66	100571			0.00- 30.00	29.68
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2555514	20.4900	20.490	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1652816			33.99- 93.99	64.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	538303	23.2253	23.225	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	109035			0.00- 30.00	20.26
6.225	6.225 (0.692)	46	202573			0.00- 30.00	37.63
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	988653	21.2404	21.240	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	631479			31.73- 91.73	63.87
6.390	6.390 (0.710)	101	1377377			0.00- 30.00	139.32
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	486800	24.4586	24.459	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	2176639			0.00- 30.00	447.13
6.335	6.335 (0.704)	96	775426			0.00- 30.00	159.29
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2905369	23.4411	23.441	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	636084			0.00- 30.00	21.89
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	3250505	26.1694	26.169	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	660224			0.00- 30.00	20.31
7.049	7.049 (0.783)	59	98458			0.00- 30.00	3.03
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	2345966	22.4445	22.444	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	605929	21.2797	21.280	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1915606			297.52- 357.52	316.14
7.213	7.213 (0.801)	51	547394			0.00- 30.00	90.34
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	2566151	23.1228	23.123	80.00- 120.00	100.00
7.515	7.515 (0.835)	57	1282061			0.00- 30.00	49.96
7.543	7.543 (0.838)	41	2047510			0.00- 30.00	79.79
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	447386	16.7198	16.720	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1899426			0.00- 30.00	424.56
7.515	7.515 (0.835)	96	717047			0.00- 30.00	160.27
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2570795	27.0895	27.089	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	2208838			0.00- 30.00	85.92
7.790	7.790 (0.865)	86	259527			0.00- 30.00	10.10

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	2469218	25.3628	25.363	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	731350			0.00- 59.84	29.62
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	586006	24.6071	24.607	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	4557673			672.66- 732.66	777.75
8.792	8.792 (0.977)	57	275071			0.00- 30.00	46.94
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.748 (0.972)	98	709295	25.0465	25.046	80.00- 120.00	100.00
8.747	8.748 (0.972)	61	2035759			241.26- 301.26	287.01
8.747	8.748 (0.972)	96	1084945			128.30- 188.30	152.96
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2712310	26.7582	26.758	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	536989			0.00- 30.00	19.80
9.002	9.002 (1.000)	72	584774			0.00- 30.00	21.56
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	2357343	23.4216	23.422	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1460768			33.23- 93.23	61.97
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2462550	23.8301	23.830	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1589541			33.51- 93.51	64.55
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1700001	24.9112	24.911	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	3180536			0.00- 30.00	187.09
9.197	9.197 (1.022)	41	2179796			0.00- 30.00	128.22
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2334035	24.7400	24.740	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2440589			73.88- 133.88	104.57
46 Benzene					CAS #: 71-43-2		
9.638	9.639 (0.946)	78	3492009	22.2359	22.236	80.00- 120.00	100.00
9.638	9.639 (0.946)	77	816789			0.00- 30.00	23.39
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	2209922	22.9813	22.981	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	671165			0.00- 30.00	30.37
49 Heptane					CAS #: 142-82-5		
9.871	9.872 (0.969)	43	4247341	25.2492	25.249	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.872 (0.969)	57	1704202			0.00- 30.00	40.12
9.871	9.872 (0.969)	100	345780			0.00- 30.00	8.14
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	1356745	21.0791	21.079	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1493649			0.00- 30.00	110.09
10.475	10.475 (1.028)	97	952798			0.00- 30.00	70.23
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	1643093	23.5815	23.581	80.00- 120.00	100.00
10.861	10.861 (1.066)	62	1169608			40.07- 100.07	71.18
10.861	10.861 (1.066)	41	1408905			61.40- 121.40	85.75
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	832776	23.4036	23.404	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	861582			64.32- 124.32	103.46
11.029	11.029 (1.083)	57	282393			0.00- 30.00	33.91
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	2573896	22.7878	22.788	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1602833			31.92- 91.92	62.27
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.090 (1.187)	75	1987033	23.8719	23.872	80.00- 120.00	100.00
12.089	12.090 (1.187)	77	622874			1.56- 61.56	31.35
12.089	12.090 (1.187)	39	1811811			60.10- 120.10	91.18
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	5688249	25.9608	25.961	80.00- 120.00	100.00
12.379	12.379 (1.215)	58	1621163			0.00- 30.00	28.50
12.379	12.379 (1.215)	85	492167			0.00- 30.00	8.65
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	4361241	23.6411	23.641	80.00- 120.00	100.00
12.644	12.644 (1.241)	92	2551162			28.58- 88.58	58.50
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	2181049	23.4978	23.498	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	675355			1.05- 61.05	30.96
13.308	13.308 (0.869)	39	1822349			54.43- 114.43	83.55
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	1446829	21.3111	21.311	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	899546			32.27- 92.27	62.17
13.665	13.665 (0.892)	83	1314174			59.54- 119.54	90.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	1861137	21.2689	21.269	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1419389			46.83- 106.83	76.26
13.747	13.747 (0.897)	131	1378858			42.93- 102.93	74.09
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	2330675	25.8148	25.815	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	5830118			227.44- 287.44	250.15
14.132	14.132 (0.922)	100	306304			0.00- 30.00	13.14
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	2388905	21.9573	21.957	80.00- 120.00	100.00
14.352	14.352 (0.937)	208	129405			0.00- 30.00	5.42
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.517 (0.948)	107	629175	20.6518	20.652	80.00- 120.00	100.00
14.516	14.517 (0.948)	109	581956			64.21- 124.21	92.50
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	3608115	21.0058	21.006	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1151551			1.79- 61.79	31.92
15.370	15.370 (1.003)	77	2353756			33.30- 93.30	65.24
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	1933522	21.7052	21.705	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	6309378			0.00- 30.00	326.32
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	2411723	22.0527	22.053	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	5025580			0.00- 30.00	208.38
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	2314871	22.5364	22.536	80.00- 120.00	100.00
16.376	16.376 (1.069)	91	5118699			186.60- 246.60	221.12
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	3819676	24.0511	24.051	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	2143323			24.82- 84.82	56.11
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	2316928	22.4121	22.412	80.00- 120.00	100.00
16.711	16.711 (1.091)	171	1183478			0.00- 30.00	51.08
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	6896905	23.6677	23.668	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1783960			0.00- 56.16	25.87

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3784884	21.2157	21.216	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2362580			33.53- 93.53	62.42
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	8944699	23.1986	23.199	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1924388			0.00- 30.00	21.51
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	7470156	23.6241	23.624	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	2155379			0.00- 59.12	28.85
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	5987011	22.4538	22.454	80.00- 120.00	100.00
17.820	17.820 (1.163)	120	2772993			16.79- 76.79	46.32
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	5898581	23.5645	23.564	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2568297			13.82- 73.82	43.54
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	3670323	21.5208	21.521	80.00- 120.00	100.00
18.929	18.929 (1.236)	148	2326492			0.00- 30.00	63.39
18.929	18.929 (1.236)	111	1620101			0.00- 30.00	44.14
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3702907	20.9571	20.957	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2326050			0.00- 30.00	62.82
19.083	19.083 (1.246)	111	1564619			0.00- 30.00	42.25
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	5495235	24.7731	24.773	80.00- 120.00	100.00
19.316	19.316 (1.261)	126	1030882			0.00- 30.00	18.76
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	3415594	20.8294	20.829	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	2131141			32.78- 92.78	62.39
19.625	19.625 (1.281)	111	1543895			14.53- 74.53	45.20
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.431 (1.399)	180	2947168	22.7189	22.719	80.00- 120.00	100.00
21.430	21.431 (1.399)	182	2819111			65.13- 125.13	95.65
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2416391	21.6920	21.692	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1530742			0.00- 30.00	63.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	6630340	25.2724	25.272	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	817559			0.00- 30.00	12.33
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	358156	23.2596	23.260	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2598470			0.00- 30.00	725.51
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.639 (1.071)	56	2627303	24.6385	24.638	80.00- 120.00	100.00
9.638	9.639 (1.071)	99	282282			0.00- 30.00	10.74
9.638	9.639 (1.071)	41	2666345			0.00- 30.00	101.49
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	5387536	26.8334	26.833	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	433421			0.00- 30.00	8.04
8.174	8.174 (0.908)	86	244635			0.00- 30.00	4.54
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	209234	25.4184	25.418	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	2205138			0.00- 30.00	1053.91
14 Isopentane					CAS #: 78-78-4		
4.827	4.848 (0.536)	57	961247	23.1204	23.120	80.00- 120.00	100.00
4.827	4.848 (0.536)	43	1803659			0.00- 30.00	187.64
4.827	4.848 (0.536)	42	1546236			0.00- 30.00	160.86
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	2316601	24.4654	24.465	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	1015473			0.00- 30.00	43.83
10.644	10.644 (1.182)	55	2904806			0.00- 30.00	125.39
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2816988	27.4889	27.489	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2047510			0.00- 30.00	72.68
7.515	7.515 (0.835)	57	1282061			0.00- 30.00	45.51

Report Date: 03-Jul-2008 14:14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070212.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	331456	-7.03
51 1,4-Difluorobenze	1324634	794780	1854488	1362037	2.82
72 Chlorobenzene-d5	1242028	745217	1738839	1287365	3.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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: 03-Jul-2008 14:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 02Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Dichlorodifluorome	25.000	20.695	82.78	70-130
7 Freon 114	25.000	20.661	82.64	70-130
8 Chloromethane	25.000	23.748	94.99	70-130
9 Vinyl Chloride	25.000	22.742	90.97	70-130
10 1,3-Butadiene	25.000	23.978	95.91	60-140
11 Bromomethane	25.000	18.307	73.23	70-130
13 Chloroethane	25.000	23.675	94.70	70-130
16 Trichlorofluoromet	25.000	20.490	81.96	70-130
17 Ethanol	25.000	23.225	92.90	60-140
19 Freon 113	25.000	21.240	84.96	70-130
18 1,1-Dichloroethene	25.000	24.459	97.83	70-130
21 Acetone	25.000	23.441	93.76	60-140
20 Carbon Disulfide	25.000	22.444	89.78	60-140
24 2-Propanol	25.000	26.169	104.68	60-140
28 Methylene Chloride	25.000	21.280	85.12	70-130
29 MTBE	25.000	23.123	92.49	60-140
30 trans-1,2-Dichloro	25.000	16.720	66.88	60-140
32 Hexane	25.000	27.089	108.36	60-140
33 1,1-Dichloroethane	25.000	25.363	101.45	70-130
36 cis-1,2-Dichloroet	25.000	25.046	100.19	70-130
37 2-Butanone	25.000	24.607	98.43	60-140
38 Tetrahydrofuran	25.000	26.758	107.03	60-140
40 Chloroform	25.000	23.422	93.69	70-130
41 Cyclohexane	25.000	24.911	99.64	60-140
42 1,1,1-Trichloroeth	25.000	23.830	95.32	70-130
44 Carbon Tetrachlori	25.000	24.740	98.96	70-130
46 Benzene	25.000	22.236	88.94	70-130
49 Heptane	25.000	25.249	101.00	60-140
48 1,2-Dichloroethane	25.000	22.981	91.93	70-130
52 Trichloroethene	25.000	21.079	84.32	70-130
53 1,2-Dichloropropan	25.000	23.581	94.33	70-130
54 1,4-Dioxane	25.000	23.404	93.61	60-140
55 Bromodichlorometha	25.000	22.788	91.15	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
56 cis-1,3-Dichloropr	25.000	23.872	95.49	70-130
58 4-Methyl-2-pentano	25.000	25.961	103.84	60-140
60 Toluene	25.000	23.641	94.56	70-130
61 trans-1,3-Dichloro	25.000	23.498	93.99	70-130
63 1,1,2-Trichloroeth	25.000	21.311	85.24	70-130
67 2-Hexanone	25.000	25.815	103.26	60-140
64 Tetrachloroethene	25.000	21.269	85.08	70-130
68 Dibromochlorometha	25.000	21.957	87.83	60-140
69 1,2-Dibromoethane	25.000	20.652	82.61	70-130
73 Chlorobenzene	25.000	21.006	84.02	70-130
74 Ethyl Benzene	25.000	21.705	86.82	70-130
75 m,p-Xylene	25.000	22.053	88.21	70-130
77 o-Xylene	25.000	22.536	90.15	70-130
78 Styrene	25.000	24.051	96.20	70-130
79 Bromoform	25.000	22.412	89.65	60-140
80 Cumene	25.000	23.668	94.67	60-140
82 1,1,2,2-Tetrachlor	25.000	21.216	84.86	70-130
83 Propylbenzene	25.000	23.199	92.79	60-140
84 4-Ethyltoluene	25.000	23.624	94.50	60-140
85 1,3,5-Trimethylben	25.000	22.454	89.82	70-130
87 1,2,4-Trimethylben	25.000	23.564	94.26	70-130
89 1,3-Dichlorobenzen	25.000	21.521	86.08	70-130
90 1,4-Dichlorobenzen	25.000	20.957	83.83	70-130
91 alpha-chlorotoluen	25.000	24.773	99.09	70-130
94 1,2-Dichlorobenzen	25.000	20.829	83.32	70-130
96 1,2,4-Trichloroben	25.000	22.719	90.88	70-130
97 Hexachlorobutadien	25.000	21.692	86.77	60-130
98 Naphthalene	25.000	25.272	101.09	60-140
25 3-Chloroprene	25.000	23.260	93.04	60-140
45 2,2,4-Trimethylpen	25.000	24.638	98.55	60-140
179 tert-Butyl Alcohol	25.000	27.489	109.96	60-140
183 Butane	25.000	25.418	101.67	60-140
14 Isopentane	25.000	23.120	92.48	60-140
2 Methylcyclohexane	25.000	24.465	97.86	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	10.252	102.52	70-130
$ 59 Toluene-d8	10.000	10.440	104.40	70-130
$ 81 Bromofluorobenzene	10.000	9.861	98.61	70-130

Data File: /chem/msdg.i/02Jul2008.b/g070212.d

Date : 02-JUL-2008 15:50

Client ID: LCS-1

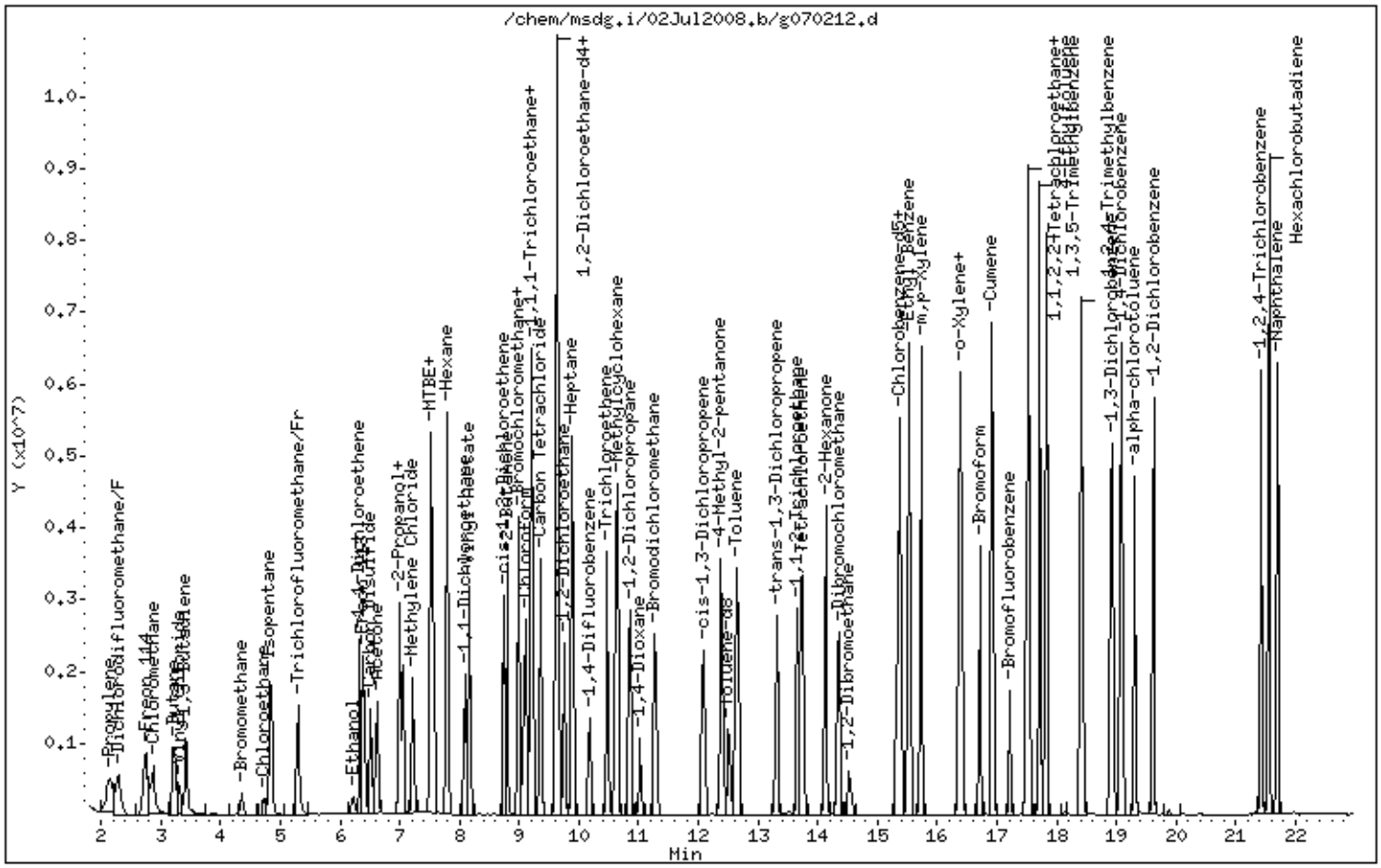
Instrument: msdg.i

Sample Info: 250ml #1541-153;LCS-1;LCS-1

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070204.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 02-JUL-2008 09:43
Operator : lmr Inst ID: msdg.i
Smp Info : 75mL #1612-56
Misc Info : 2.0ppbv -> 0.3ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:47 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 09:43 Cal File: g070204.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	268631	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	199822			0.00- 30.00		74.39
9.002	9.002 (1.000)	49	622008			0.00- 30.00		231.55
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1147547	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	191199			0.00- 46.78		16.66
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1042115	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	630399			0.00- 30.00		60.49
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	512906	10.0000	9.948	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	247256			0.00- 30.00		48.21
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1152318	10.0000	9.714	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	142314			0.00- 42.14		12.35

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	737490			34.50- 94.50	64.00
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	593275	10.0000	9.800	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	837644			113.13- 173.13	141.19
17.226	17.226 (1.125)	176	571216			66.52- 126.52	96.28
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	10701	0.30000	0.3176	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	16557			0.00- 30.00	154.72
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	27562	0.30000	0.3379	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	17153			33.23- 93.23	62.23
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	40579	0.30000	0.3067	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	9998			0.00- 30.00	24.64
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	26237	0.30000	0.2041	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	16079			24.82- 84.82	61.28
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	56342	0.30000	0.2388	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	15231			0.00- 56.16	27.03
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	8334	0.30000	0.3379	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	6523			64.21- 124.21	78.27
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	52460	0.30000	0.2430	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	25934			16.79- 76.79	49.44
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	44968	0.30000	0.2219	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	20097			13.82- 73.82	44.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070204.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 0.3ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	268631	-24.65
51 1,4-Difluorobenze	1324634	794780	1854488	1147547	-13.37
72 Chlorobenzene-d5	1242028	745217	1738839	1042115	-16.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070204.d

Date : 02-JUL-2008 09:43

Client ID: Level 1

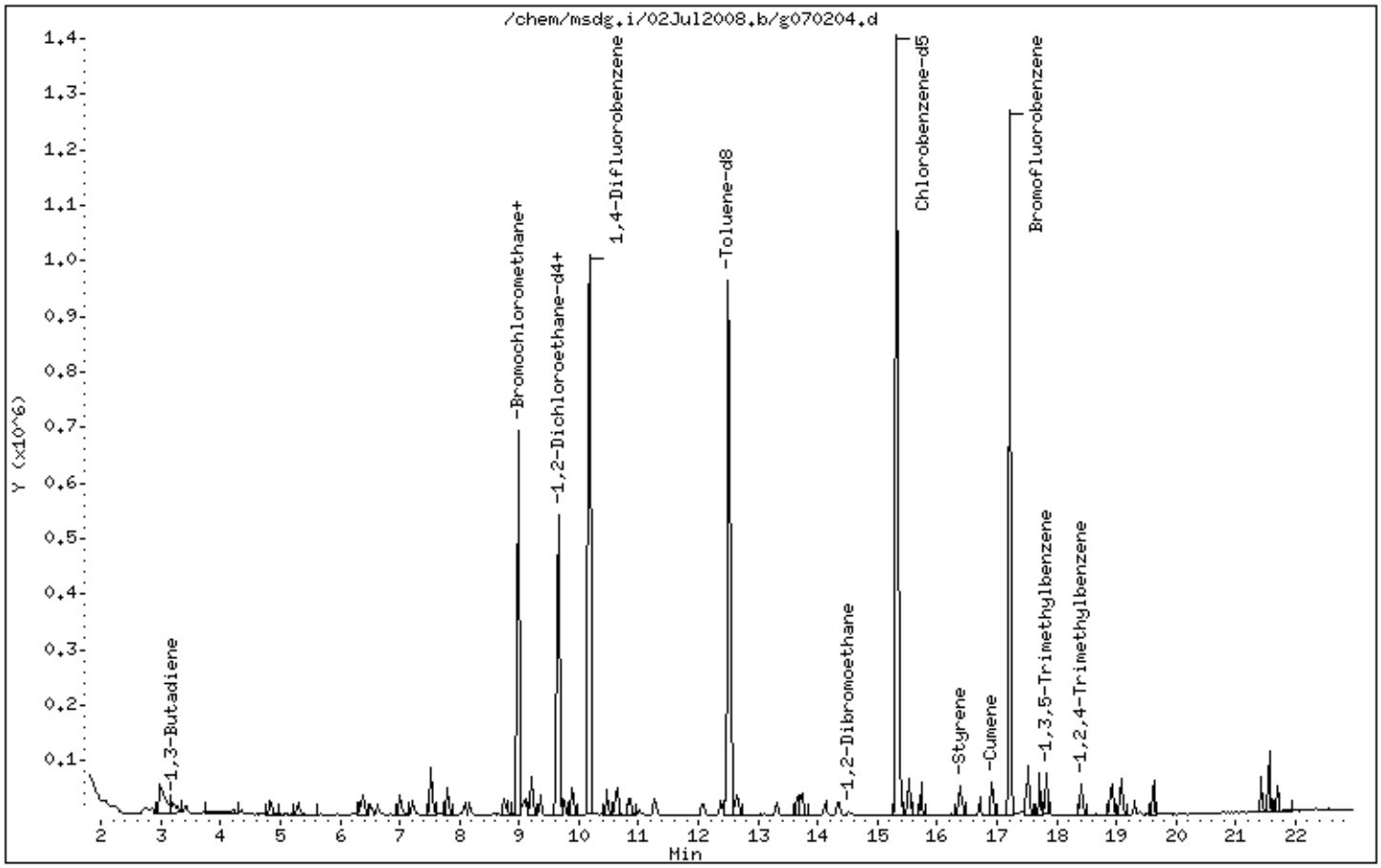
Instrument: msdg.i

Sample Info: 75mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070205.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 02-JUL-2008 10:12
Operator : lmr Inst ID: msdg.i
Smp Info : 125mL #1612-56
Misc Info : 2.0ppbv -> 0.5ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 10:12 Cal File: g070205.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Hilocurve+Ensr.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)		TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======		==========	=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	252155	10.0000			70.00- 130.00	100.00
9.002	9.002 (1.000)	128	197769				0.00- 30.00	78.43
9.002	9.002 (1.000)	49	586693				0.00- 30.00	232.67
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1088424	10.0000			70.00- 130.00	100.00
10.186	10.186 (1.000)	88	183217				0.00- 46.78	16.83
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	964315	10.0000			70.00- 130.00	100.00
15.319	15.319 (1.000)	82	602426				0.00- 30.00	62.47
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	499788	10.0000	10.327		70.00- 130.00	100.00
9.668	9.668 (1.074)	67	237343				0.00- 30.00	47.49
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1083880	10.0000	9.633		70.00- 130.00	100.00
12.499	12.499 (1.227)	70	127598				0.00- 42.14	11.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	679968			34.50- 94.50	62.73
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	553361	10.0000	9.878	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	787510			113.13- 173.13	142.31
17.226	17.226 (1.125)	176	515429			66.52- 126.52	93.15
4 Propylene					CAS #: 115-07-1		
2.077	2.077 (0.231)	41	21396	0.50000	0.6129	70.00- 130.00	100.00
2.101	2.101 (0.233)	42	12622			0.00- 30.00	58.99
2.077	2.077 (0.231)	39	16270			0.00- 30.00	76.04
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	47032	0.50000	0.5977	70.00- 130.00	100.00
2.246	2.246 (0.249)	87	16158			1.53- 61.53	34.36
7 Freon 114					CAS #: 76-14-2		
2.728	2.728 (0.303)	135	22292	0.50000	0.5619	70.00- 130.00	100.00
2.728	2.728 (0.303)	137	7082			0.00- 30.00	31.77
2.728	2.728 (0.303)	85	37979			0.00- 30.00	170.37
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	26516	0.50000	0.4939	70.00- 130.00	100.00
2.848	2.848 (0.316)	52	8315			0.00- 30.00	31.36
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	17200	0.50000	0.5898	70.00- 130.00	100.00
3.291	3.291 (0.366)	64	18530			0.00- 59.65	107.73
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	16322	0.50000	0.5160	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	19101			0.00- 30.00	117.03
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	7344	0.50000	0.5122	70.00- 130.00	100.00
4.350	4.350 (0.483)	96	6709			64.87- 124.87	91.35
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	4810	0.50000	0.4417	70.00- 130.00	100.00
4.724	4.724 (0.525)	49	2640			0.00- 30.00	54.89
4.724	4.724 (0.525)	66	1873			0.00- 30.00	38.94
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	45757	0.50000	0.4822	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	28686			33.99- 93.99	62.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	8808	0.50000	0.4995	70.00- 130.00	100.00
6.225	6.225 (0.692)	43	1816			0.00- 30.00	20.62
6.225	6.225 (0.692)	46	2558			0.00- 30.00	29.04
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	8699	0.50000	0.5745	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	30389			0.00- 30.00	349.34
6.335	6.335 (0.704)	96	13918			0.00- 30.00	160.00
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	24335	0.50000	0.6872	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	15348			31.73- 91.73	63.07
6.390	6.390 (0.710)	101	32286			0.00- 30.00	132.67
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	48893	0.50000	0.6149	70.00- 130.00	100.00
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	46382	0.50000	0.4919	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	11476			0.00- 30.00	24.74
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	38389	0.50000	0.4063	70.00- 130.00	100.00
7.021	7.021 (0.780)	43	11893			0.00- 30.00	30.98
7.021	7.021 (0.780)	59	1050			0.00- 30.00	2.74
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	5557	0.50000	0.4744	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	40499			0.00- 30.00	728.79
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	13570	0.50000	0.6264	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	34607			297.52- 357.52	255.03
7.213	7.213 (0.801)	51	11238			0.00- 30.00	82.82
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	37849	0.50000	0.4483	70.00- 130.00	100.00
7.515	7.515 (0.835)	57	16985			0.00- 30.00	44.88
7.515	7.515 (0.835)	41	38715			0.00- 30.00	102.29
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	11482	0.50000	0.5640	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	35728			0.00- 30.00	311.17
7.515	7.515 (0.835)	96	17581			0.00- 30.00	153.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	33012	0.50000	0.4572	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	31726			0.00- 30.00	96.10
7.790	7.790 (0.865)	86	3670			0.00- 30.00	11.12
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	40227	0.50000	0.5431	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	12298			0.00- 59.84	30.57
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	76171	0.50000	0.4987	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	7124			0.00- 30.00	9.35
8.174	8.174 (0.908)	86	3018			0.00- 30.00	3.96
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	10694	0.50000	0.4964	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	31712			241.26- 301.26	296.54
8.747	8.747 (0.972)	96	17367			128.30- 188.30	162.40
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	8253	0.50000	0.4555	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	62634			672.66- 732.66	758.92
8.792	8.792 (0.977)	57	3888			0.00- 30.00	47.11
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	35663	0.50000	0.4625	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	7173			0.00- 30.00	20.11
9.002	9.002 (1.000)	72	8848			0.00- 30.00	24.81
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	39548	0.50000	0.5165	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	24821			33.23- 93.23	62.76
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	24834	0.50000	0.4784	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	39484			0.00- 30.00	158.99
9.197	9.197 (1.022)	41	30302			0.00- 30.00	122.02
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	41403	0.50000	0.5267	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	25299			33.51- 93.51	61.10
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	39084	0.50000	0.5446	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	43473			73.88- 133.88	111.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	65076	0.50000	0.5186	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	15733			0.00- 30.00	24.18
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	40866	0.50000	0.5038	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	5296			0.00- 30.00	12.96
9.638	9.638 (1.071)	41	45568			0.00- 30.00	111.51
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	37687	0.50000	0.4904	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	14688			0.00- 30.00	38.97
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	54735	0.50000	0.4072	70.00- 130.00	100.00
9.872	9.872 (0.969)	57	23356			0.00- 30.00	42.67
9.872	9.872 (0.969)	100	4286			0.00- 30.00	7.83
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	28367	0.50000	0.5515	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	28263			0.00- 30.00	99.63
10.475	10.475 (1.028)	97	18463			0.00- 30.00	65.09
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.836	10.836 (1.064)	63	27695	0.50000	0.4974	70.00- 130.00	100.00
10.836	10.836 (1.064)	62	18905			40.07- 100.07	68.26
10.861	10.861 (1.066)	41	30026			61.40- 121.40	108.42
54 1,4-Dioxane					CAS #: 123-91-1		
11.005	11.005 (1.080)	88	12723	0.50000	0.4474	70.00- 130.00	100.00
11.029	11.029 (1.083)	58	12675			64.32- 124.32	99.62
11.029	11.029 (1.083)	57	4978			0.00- 30.00	39.13
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	42706	0.50000	0.4731	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	26651			31.92- 91.92	62.41
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	27815	0.50000	0.4182	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	7774			1.56- 61.56	27.95
12.065	12.065 (1.185)	39	24232			60.10- 120.10	87.12
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	66694	0.50000	0.3809	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	18949			0.00- 30.00	28.41
12.379	12.379 (1.215)	85	6853			0.00- 30.00	10.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	70179	0.50000	0.4760	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	41941			28.58- 88.58	59.76
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	28760	0.50000	0.4136	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	8561			1.05- 61.05	29.77
13.308	13.308 (0.869)	39	33021			54.43- 114.43	114.82
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	25148	0.50000	0.4945	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	17065			32.27- 92.27	67.86
13.665	13.665 (0.892)	83	24278			59.54- 119.54	96.54
64 Tetrachloroethene					CAS #: 127-18-4		
13.720	13.720 (0.896)	166	33365	0.50000	0.5090	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	27468			46.83- 106.83	82.33
13.747	13.747 (0.897)	131	22898			42.93- 102.93	68.63
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	25034	0.50000	0.3702	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	66335			227.44- 287.44	264.98
14.132	14.132 (0.922)	100	3342			0.00- 30.00	13.35
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	37697	0.50000	0.4626	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	1819			0.00- 30.00	4.83
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	13369	0.50000	0.5858	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	11875			64.21- 124.21	88.82
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	67477	0.50000	0.5244	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	23397			1.79- 61.79	34.67
15.370	15.370 (1.003)	77	52317			33.30- 93.30	77.53
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	31176	0.50000	0.4672	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	99334			0.00- 30.00	318.62
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	34442	0.50000	0.4204	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	72654			0.00- 30.00	210.95
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	31807	0.50000	0.4134	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
77 o-Xylene (continued)							
16.376	16.376 (1.069)	91	69614			186.60- 246.60	218.86
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	50171	0.50000	0.4217	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	29267			24.82- 84.82	58.33
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	35483	0.50000	0.4582	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	17731			0.00- 30.00	49.97
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	92255	0.50000	0.4226	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	26378			0.00- 56.16	28.59
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	67618	0.50000	0.5060	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	42675			33.53- 93.53	63.11
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	135940	0.50000	0.4707	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	28535			0.00- 30.00	20.99
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	110142	0.50000	0.4650	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	32221			0.00- 59.12	29.25
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	91690	0.50000	0.4591	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	43444			16.79- 76.79	47.38
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	78671	0.50000	0.4196	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	33873			13.82- 73.82	43.06
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	61418	0.50000	0.4808	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	37983			0.00- 30.00	61.84
18.929	18.929 (1.236)	111	27006			0.00- 30.00	43.97
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	64803	0.50000	0.4896	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	41245			0.00- 30.00	63.65
19.083	19.083 (1.246)	111	28060			0.00- 30.00	43.30
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	54490	0.50000	0.3279	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 alpha-chlorotoluene (continued)							
19.316	19.316 (1.261)	126	10198			0.00- 30.00	18.72
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	60823	0.50000	0.4952	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	38567			32.78- 92.78	63.41
19.625	19.625 (1.281)	111	26253			14.53- 74.53	43.16
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	49492	0.50000	0.5093	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	45990			65.13- 125.13	92.92
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	44199	0.50000	0.5297	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	29257			0.00- 30.00	66.19
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	82156	0.50000	0.4180	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	11596			0.00- 30.00	14.11
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	35191	0.50000	0.4885	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	14549			0.00- 30.00	41.34
10.644	10.644 (1.182)	55	41227			0.00- 30.00	117.15
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	14825	0.50000	0.4687	70.00- 130.00	100.00
4.827	4.827 (0.536)	43	31490			0.00- 30.00	212.41
4.827	4.827 (0.536)	42	29689			0.00- 30.00	200.26
183 Butane					CAS #: 106-97-8		
3.204	3.204 (0.356)	58	2889	0.50000	0.4613	70.00- 130.00	100.00
3.221	3.221 (0.358)	43	38516			0.00- 30.00	1333.19
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.515	7.515 (0.835)	59	33098	0.50000	0.4246	70.00- 130.00	100.00
7.515	7.515 (0.835)	41	38715			0.00- 30.00	116.97
7.515	7.515 (0.835)	57	16985			0.00- 30.00	51.32

Report Date: 03-Jul-2008 13:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070205.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 0.5ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	252155	-29.28
51 1,4-Difluorobenze	1324634	794780	1854488	1088424	-17.83
72 Chlorobenzene-d5	1242028	745217	1738839	964315	-22.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070205.d

Date : 02-JUL-2008 10:12

Client ID: Level 2

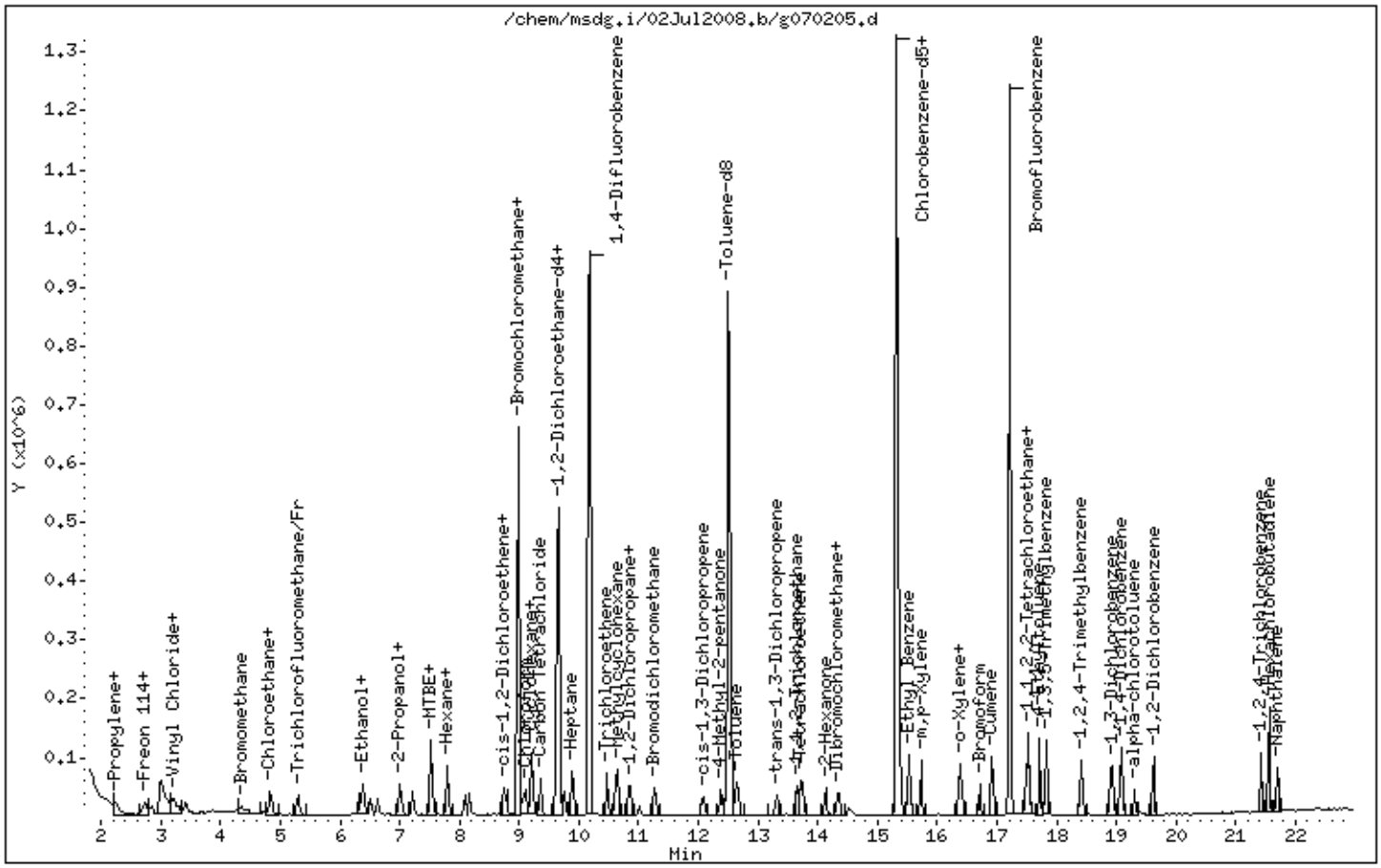
Instrument: msdg.i

Sample Info: 125mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070206.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 02-JUL-2008 11:01
Operator : lmr Inst ID: msdg.i
Smp Info : 500mL #1612-56
Misc Info : 2.0ppbv -> 2.0ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 11:01 Cal File: g070206.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	350227	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	273114			0.00- 30.00		77.98
9.002	9.002 (1.000)	49	787004			0.00- 30.00		224.71
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1385748	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	236198			0.00- 46.78		17.04
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1272763	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	782023			0.00- 30.00		61.44
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	630783	10.0000	9.384	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	314140			0.00- 30.00		49.80
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1450415	10.0000	10.125	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	173845			0.00- 42.14		11.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	914819			34.50- 94.50	63.07
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	727983	10.0000	9.846	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	1042823			113.13- 173.13	143.25
17.226	17.226 (1.125)	176	709021			66.52- 126.52	97.40
4 Propylene					CAS #: 115-07-1		
2.149	2.149 (0.239)	41	89848	2.00000	1.853	70.00- 130.00	100.00
2.149	2.149 (0.239)	42	61247			0.00- 30.00	68.17
2.149	2.149 (0.239)	39	69014			0.00- 30.00	76.81
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.294 (0.255)	85	210890	2.00000	1.929	70.00- 130.00	100.00
2.294	2.294 (0.255)	87	69434			1.53- 61.53	32.92
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	115756	2.00000	2.101	70.00- 130.00	100.00
2.752	2.752 (0.306)	137	36211			0.00- 30.00	31.28
2.752	2.752 (0.306)	85	194688			0.00- 30.00	168.19
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	154671	2.00000	2.074	70.00- 130.00	100.00
2.896	2.896 (0.322)	52	33803			0.00- 30.00	21.85
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	76145	2.00000	1.880	70.00- 130.00	100.00
3.308	3.308 (0.367)	64	39716			0.00- 59.65	52.16
10 1,3-Butadiene					CAS #: 106-99-0		
3.447	3.447 (0.383)	54	79392	2.00000	1.807	70.00- 130.00	100.00
3.430	3.430 (0.381)	39	116444			0.00- 30.00	146.67
11 Bromomethane					CAS #: 74-83-9		
4.371	4.371 (0.486)	94	36312	2.00000	1.823	70.00- 130.00	100.00
4.371	4.371 (0.486)	96	35555			64.87- 124.87	97.92
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	26861	2.00000	1.776	70.00- 130.00	100.00
4.724	4.724 (0.525)	49	13579			0.00- 30.00	50.55
4.724	4.724 (0.525)	66	9607			0.00- 30.00	35.77
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	279470	2.00000	2.121	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	148968			33.99- 93.99	53.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	54930	2.00000	2.243	70.00- 130.00	100.00
6.225	6.225 (0.692)	43	13518			0.00- 30.00	24.61
6.225	6.225 (0.692)	46	21403			0.00- 30.00	38.96
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	93585	2.00000	1.903	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	58770			31.73- 91.73	62.80
6.390	6.390 (0.710)	101	133301			0.00- 30.00	142.44
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	42668	2.00000	2.029	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	178424			0.00- 30.00	418.17
6.335	6.335 (0.704)	96	61313			0.00- 30.00	143.70
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	312358	2.00000	2.385	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	60599			0.00- 30.00	19.40
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	299521	2.00000	2.282	70.00- 130.00	100.00
7.049	7.049 (0.783)	43	73635			0.00- 30.00	24.58
7.049	7.049 (0.783)	59	8916			0.00- 30.00	2.98
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	209114	2.00000	1.893	70.00- 130.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	55100	2.00000	1.831	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	173843			297.52- 357.52	315.50
7.213	7.213 (0.801)	51	50971			0.00- 30.00	92.51
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	280285	2.00000	2.390	70.00- 130.00	100.00
7.543	7.543 (0.838)	57	103268			0.00- 30.00	36.84
7.543	7.543 (0.838)	41	240230			0.00- 30.00	85.71
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	62664	2.00000	2.216	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	206306			0.00- 30.00	329.23
7.515	7.515 (0.835)	96	107797			0.00- 30.00	172.02
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	191719	2.00000	1.912	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	172552			0.00- 30.00	90.00
7.790	7.790 (0.865)	86	22389			0.00- 30.00	11.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	209293	2.00000	2.034	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	62109			0.00- 59.84	29.68
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	50001	2.00000	1.987	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	353296			672.66- 732.66	706.58
8.792	8.792 (0.977)	57	22144			0.00- 30.00	44.29
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	58989	2.00000	1.971	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	160978			241.26- 301.26	272.89
8.747	8.747 (0.972)	96	93365			128.30- 188.30	158.28
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	224217	2.00000	2.093	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	47857			0.00- 30.00	21.34
9.002	9.002 (1.000)	72	53495			0.00- 30.00	23.86
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	216606	2.00000	2.037	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	136911			33.23- 93.23	63.21
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	214795	2.00000	1.967	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	135334			33.51- 93.51	63.01
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	145933	2.00000	2.024	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	222474			0.00- 30.00	152.45
9.197	9.197 (1.022)	41	175978			0.00- 30.00	120.59
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	213296	2.00000	2.140	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	214507			73.88- 133.88	100.57
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	335782	2.00000	2.102	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	78465			0.00- 30.00	23.37
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	199751	2.00000	2.042	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	64156			0.00- 30.00	32.12
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	310785	2.00000	1.816	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.871 (0.969)	57	128058			0.00- 30.00	41.20
9.871	9.871 (0.969)	100	28174			0.00- 30.00	9.07
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	133036	2.00000	2.032	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	137329			0.00- 30.00	103.23
10.475	10.475 (1.028)	97	87403			0.00- 30.00	65.70
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	141652	2.00000	1.998	70.00- 130.00	100.00
10.861	10.861 (1.066)	62	99817			40.07- 100.07	70.47
10.861	10.861 (1.066)	41	131137			61.40- 121.40	92.58
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	67959	2.00000	1.877	70.00- 130.00	100.00
11.029	11.029 (1.083)	58	66544			64.32- 124.32	97.92
11.029	11.029 (1.083)	57	23172			0.00- 30.00	34.10
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	223327	2.00000	1.943	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	139695			31.92- 91.92	62.55
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	150425	2.00000	1.776	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	48992			1.56- 61.56	32.57
12.089	12.089 (1.187)	39	136265			60.10- 120.10	90.59
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	402764	2.00000	1.807	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	107203			0.00- 30.00	26.62
12.379	12.379 (1.215)	85	36164			0.00- 30.00	8.98
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	372550	2.00000	1.985	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	217225			28.58- 88.58	58.31
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	161722	2.00000	1.762	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	49764			1.05- 61.05	30.77
13.308	13.308 (0.869)	39	138803			54.43- 114.43	85.83
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	137871	2.00000	2.054	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	83188			32.27- 92.27	60.34
13.665	13.665 (0.892)	83	118762			59.54- 119.54	86.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	177658	2.00000	2.054	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	135200			46.83- 106.83	76.10
13.747	13.747 (0.897)	131	131454			42.93- 102.93	73.99
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	155388	2.00000	1.741	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	404266			227.44- 287.44	260.17
14.132	14.132 (0.922)	100	22697			0.00- 30.00	14.61
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	202688	2.00000	1.884	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	10568			0.00- 30.00	5.21
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	60801	2.00000	2.019	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	56910			64.21- 124.21	93.60
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	349549	2.00000	2.058	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	112415			1.79- 61.79	32.16
15.370	15.370 (1.003)	77	226234			33.30- 93.30	64.72
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	173337	2.00000	1.968	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	558410			0.00- 30.00	322.15
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	214607	2.00000	1.985	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	444408			0.00- 30.00	207.08
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	195250	2.00000	1.923	70.00- 130.00	100.00
16.376	16.376 (1.069)	91	423862			186.60- 246.60	217.09
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	323163	2.00000	2.058	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	180004			24.82- 84.82	55.70
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	193813	2.00000	1.896	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	100452			0.00- 30.00	51.83
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	576853	2.00000	2.002	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	155331			0.00- 56.16	26.93

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	359499	2.00000	2.038	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	232096			33.53- 93.53	64.56
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	800320	2.00000	2.099	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	178591			0.00- 30.00	22.31
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	673407	2.00000	2.154	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	190760			0.00- 59.12	28.33
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	560022	2.00000	2.124	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	259865			16.79- 76.79	46.40
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	491521	2.00000	1.986	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	223749			13.82- 73.82	45.52
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	329505	2.00000	1.954	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	214174			0.00- 30.00	65.00
18.929	18.929 (1.236)	111	143713			0.00- 30.00	43.61
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	355258	2.00000	2.034	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	227350			0.00- 30.00	64.00
19.083	19.083 (1.246)	111	142707			0.00- 30.00	40.17
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	356243	2.00000	1.624	70.00- 130.00	100.00
19.315	19.315 (1.261)	126	69329			0.00- 30.00	19.46
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	329235	2.00000	2.031	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	197431			32.78- 92.78	59.97
19.625	19.625 (1.281)	111	144589			14.53- 74.53	43.92
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	233807	2.00000	1.823	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	217358			65.13- 125.13	92.96
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	215264	2.00000	1.955	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	134237			0.00- 30.00	62.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	447248	2.00000	1.724	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	58285			0.00- 30.00	13.03
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	30154	2.00000	1.853	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	235914			0.00- 30.00	782.36
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	213477	2.00000	1.895	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	24585			0.00- 30.00	11.52
9.638	9.638 (1.071)	41	242316			0.00- 30.00	113.51
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	368814	2.00000	1.738	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	34744			0.00- 30.00	9.42
8.174	8.174 (0.908)	86	18259			0.00- 30.00	4.95
183 Butane					CAS #: 106-97-8		
3.239	3.239 (0.360)	58	17628	2.00000	2.027	70.00- 130.00	100.00
3.239	3.239 (0.360)	43	187342			0.00- 30.00	1062.75
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	89036	2.00000	2.027	70.00- 130.00	100.00
4.848	4.848 (0.539)	43	179816			0.00- 30.00	201.96
4.848	4.848 (0.539)	42	155371			0.00- 30.00	174.50
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	196204	2.00000	1.961	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	86858			0.00- 30.00	44.27
10.644	10.644 (1.182)	55	222132			0.00- 30.00	113.21
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	226533	2.00000	2.092	70.00- 130.00	100.00
7.543	7.543 (0.838)	41	240230			0.00- 30.00	106.05
7.543	7.543 (0.838)	57	103268			0.00- 30.00	45.59

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070206.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 2.0ppbv -> 2.0ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	350227	-1.77
51 1,4-Difluorobenze	1324634	794780	1854488	1385748	4.61
72 Chlorobenzene-d5	1242028	745217	1738839	1272763	2.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070206.d

Date : 02-JUL-2008 11:01

Client ID: Level 3

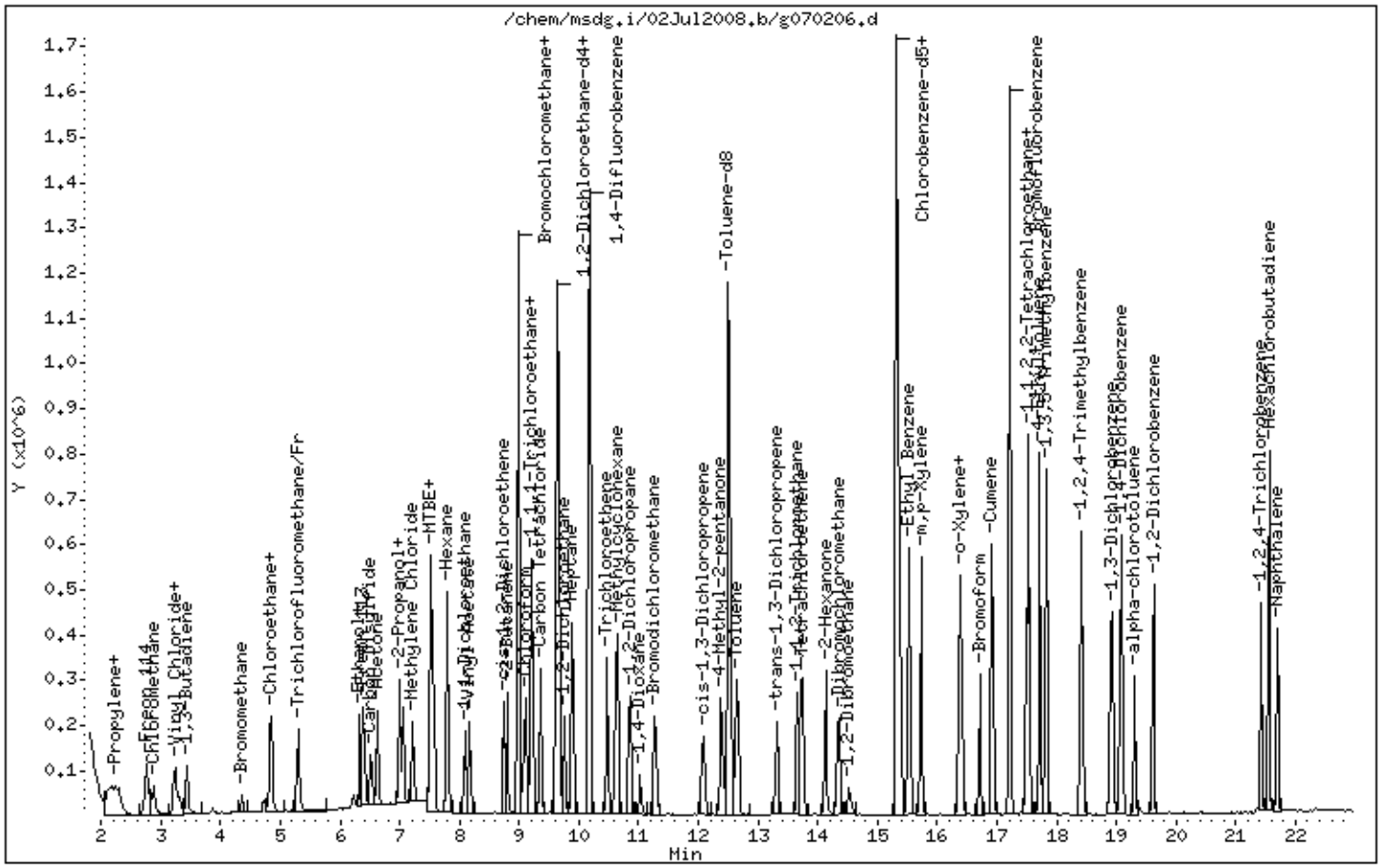
Instrument: msdg.i

Sample Info: 500mL #1612-56

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070202.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 02-JUL-2008 08:28
Operator : lmr Inst ID: msdg.i
Smp Info : 200ml #1541-159A
Misc Info : 25ppbv -> 10ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:47 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 08:28 Cal File: g070202.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	305594	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	227065			0.00- 30.00		74.30
9.002	9.002 (1.000)	49	669589			0.00- 30.00		219.11
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1200887	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	194037			0.00- 46.78		16.16
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1113684	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	700703			0.00- 30.00		62.92
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	557846	10.0000	9.511	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	282845			0.00- 30.00		50.70
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1265268	10.0000	10.192	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	149796			0.00- 42.14		11.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	828841			34.50- 94.50	65.51
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	648860	10.0000	10.030	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	936915			113.13- 173.13	144.39
17.226	17.226 (1.125)	176	632021			66.52- 126.52	97.40
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	413380	10.0000	9.771	70.00- 130.00	100.00
2.101	2.101 (0.233)	42	275574			0.00- 30.00	66.66
2.101	2.101 (0.233)	39	315775			0.00- 30.00	76.39
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	986283	10.0000	10.342	70.00- 130.00	100.00
2.246	2.246 (0.249)	87	315074			1.53- 61.53	31.95
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	536471	10.0000	11.158	70.00- 130.00	100.00
2.752	2.752 (0.306)	137	178765			0.00- 30.00	33.32
2.728	2.728 (0.303)	85	792276			0.00- 30.00	147.68
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	669931	10.0000	10.296	70.00- 130.00	100.00
2.848	2.848 (0.316)	52	184976			0.00- 30.00	27.61
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	348858	10.0000	9.872	70.00- 130.00	100.00
3.291	3.291 (0.366)	64	140897			0.00- 59.65	40.39
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	364090	10.0000	9.498	70.00- 130.00	100.00
3.412	3.412 (0.379)	39	475007			0.00- 30.00	130.46
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	170779	10.0000	9.828	70.00- 130.00	100.00
4.350	4.350 (0.483)	96	159989			64.87- 124.87	93.68
13 Chloroethane					CAS #: 75-00-3		
4.723	4.723 (0.525)	64	142769	10.0000	10.819	70.00- 130.00	100.00
4.723	4.723 (0.525)	49	65115			0.00- 30.00	45.61
4.723	4.723 (0.525)	66	39815			0.00- 30.00	27.89
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	1270619	10.0000	11.050	70.00- 130.00	100.00
5.304	5.304 (0.589)	103	786240			33.99- 93.99	61.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	203420	10.0000	9.519	70.00- 130.00	100.00
6.198	6.198 (0.688)	43	47487			0.00- 30.00	23.34
6.198	6.198 (0.688)	46	78116			0.00- 30.00	38.40
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	520409	10.0000	12.127	70.00- 130.00	100.00
6.390	6.390 (0.710)	153	328024			31.73- 91.73	63.03
6.390	6.390 (0.710)	101	702175			0.00- 30.00	134.93
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	210522	10.0000	11.472	70.00- 130.00	100.00
6.335	6.335 (0.704)	61	798371			0.00- 30.00	379.23
6.335	6.335 (0.704)	96	333196			0.00- 30.00	158.27
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	1071047	10.0000	9.373	70.00- 130.00	100.00
6.637	6.637 (0.737)	58	228637			0.00- 30.00	21.35
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	1105319	10.0000	9.652	70.00- 130.00	100.00
7.021	7.021 (0.780)	43	246192			0.00- 30.00	22.27
7.021	7.021 (0.780)	59	30991			0.00- 30.00	2.80
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	1127551	10.0000	11.700	70.00- 130.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	315623	10.0000	12.022	70.00- 130.00	100.00
7.213	7.213 (0.801)	49	754782			297.52- 357.52	239.14
7.213	7.213 (0.801)	51	219323			0.00- 30.00	69.49
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	950376	10.0000	9.288	70.00- 130.00	100.00
7.515	7.515 (0.835)	57	380653			0.00- 30.00	40.05
7.543	7.543 (0.838)	41	859807			0.00- 30.00	90.47
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	267376	10.0000	10.838	70.00- 130.00	100.00
7.515	7.515 (0.835)	61	843518			0.00- 30.00	315.48
7.515	7.515 (0.835)	96	421178			0.00- 30.00	157.52
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	925858	10.0000	10.582	70.00- 130.00	100.00
7.790	7.790 (0.865)	43	814077			0.00- 30.00	87.93
7.790	7.790 (0.865)	86	104213			0.00- 30.00	11.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	922303	10.0000	10.275	70.00- 130.00	100.00
8.092	8.092 (0.899)	65	271591			0.00- 59.84	29.45
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	239701	10.0000	10.917	70.00- 130.00	100.00
8.792	8.792 (0.977)	43	1642453			672.66- 732.66	685.21
8.792	8.792 (0.977)	57	94889			0.00- 30.00	39.59
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	287499	10.0000	11.011	70.00- 130.00	100.00
8.747	8.747 (0.972)	61	760024			241.26- 301.26	264.36
8.747	8.747 (0.972)	96	432576			128.30- 188.30	150.46
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	885456	10.0000	9.475	70.00- 130.00	100.00
9.002	9.002 (1.000)	71	194182			0.00- 30.00	21.93
9.002	9.002 (1.000)	72	205840			0.00- 30.00	23.25
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	935335	10.0000	10.080	70.00- 130.00	100.00
9.099	9.099 (1.011)	85	592874			33.23- 93.23	63.39
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	1002024	10.0000	10.517	70.00- 130.00	100.00
9.229	9.229 (1.025)	99	634774			33.51- 93.51	63.35
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	684278	10.0000	10.876	70.00- 130.00	100.00
9.197	9.197 (1.022)	56	1143698			0.00- 30.00	167.14
9.197	9.197 (1.022)	41	838371			0.00- 30.00	122.52
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	794728	10.0000	9.137	70.00- 130.00	100.00
9.359	9.359 (1.040)	117	820930			73.88- 133.88	103.30
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	1516024	10.0000	10.949	70.00- 130.00	100.00
9.638	9.638 (0.946)	77	349311			0.00- 30.00	23.04
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	884194	10.0000	10.429	70.00- 130.00	100.00
9.755	9.755 (0.958)	64	270875			0.00- 30.00	30.64
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	1603068	10.0000	10.808	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.871 (0.969)	57	647513			0.00- 30.00	40.39
9.871	9.871 (0.969)	100	144017			0.00- 30.00	8.98
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	613620	10.0000	10.813	70.00- 130.00	100.00
10.475	10.475 (1.028)	95	636515			0.00- 30.00	103.73
10.475	10.475 (1.028)	97	412951			0.00- 30.00	67.30
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.860	10.860 (1.066)	63	632568	10.0000	10.297	70.00- 130.00	100.00
10.860	10.860 (1.066)	62	453247			40.07- 100.07	71.65
10.860	10.860 (1.066)	41	594341			61.40- 121.40	93.96
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	330405	10.0000	10.531	70.00- 130.00	100.00
11.005	11.005 (1.080)	58	316738			64.32- 124.32	95.86
11.005	11.005 (1.080)	57	108378			0.00- 30.00	32.80
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	1050587	10.0000	10.549	70.00- 130.00	100.00
11.270	11.270 (1.106)	85	656424			31.92- 91.92	62.48
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	784480	10.0000	10.689	70.00- 130.00	100.00
12.089	12.089 (1.187)	77	250737			1.56- 61.56	31.96
12.089	12.089 (1.187)	39	696964			60.10- 120.10	88.84
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	1994454	10.0000	10.324	70.00- 130.00	100.00
12.379	12.379 (1.215)	58	568218			0.00- 30.00	28.49
12.379	12.379 (1.215)	85	188069			0.00- 30.00	9.43
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	1752461	10.0000	10.774	70.00- 130.00	100.00
12.644	12.644 (1.241)	92	1016429			28.58- 88.58	58.00
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	850113	10.0000	10.587	70.00- 130.00	100.00
13.308	13.308 (0.869)	77	263512			1.05- 61.05	31.00
13.308	13.308 (0.869)	39	709221			54.43- 114.43	83.43
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	626419	10.0000	10.666	70.00- 130.00	100.00
13.665	13.665 (0.892)	99	379601			32.27- 92.27	60.60
13.665	13.665 (0.892)	83	564160			59.54- 119.54	90.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	832287	10.0000	10.994	70.00- 130.00	100.00
13.747	13.747 (0.897)	129	639529			46.83- 106.83	76.84
13.747	13.747 (0.897)	131	614672			42.93- 102.93	73.85
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	825824	10.0000	10.573	70.00- 130.00	100.00
14.132	14.132 (0.922)	43	2088592			227.44- 287.44	252.91
14.132	14.132 (0.922)	100	119052			0.00- 30.00	14.42
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	1023030	10.0000	10.869	70.00- 130.00	100.00
14.352	14.352 (0.937)	208	54779			0.00- 30.00	5.35
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	290533	10.0000	11.024	70.00- 130.00	100.00
14.516	14.516 (0.948)	109	270643			64.21- 124.21	93.15
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	1581271	10.0000	10.642	70.00- 130.00	100.00
15.370	15.370 (1.003)	114	512114			1.79- 61.79	32.39
15.370	15.370 (1.003)	77	1003344			33.30- 93.30	63.45
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	845867	10.0000	10.976	70.00- 130.00	100.00
15.525	15.525 (1.013)	91	2706168			0.00- 30.00	319.93
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	1054165	10.0000	11.142	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	2167357			0.00- 30.00	205.60
77 o-Xylene					CAS #: 95-47-6		
16.375	16.375 (1.069)	106	998077	10.0000	11.232	70.00- 130.00	100.00
16.375	16.375 (1.069)	91	2182762			186.60- 246.60	218.70
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	1648157	10.0000	11.996	70.00- 130.00	100.00
16.401	16.401 (1.071)	78	885483			24.82- 84.82	53.73
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	968116	10.0000	10.825	70.00- 130.00	100.00
16.711	16.711 (1.091)	171	493628			0.00- 30.00	50.99
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	2969590	10.0000	11.780	70.00- 130.00	100.00
16.917	16.917 (1.104)	120	782854			0.00- 56.16	26.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	1647910	10.0000	10.678	70.00- 130.00	100.00
17.484	17.484 (1.141)	85	1049768			33.53- 93.53	63.70
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	3901244	10.0000	11.696	70.00- 130.00	100.00
17.536	17.536 (1.145)	120	862814			0.00- 30.00	22.12
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	3258369	10.0000	11.911	70.00- 130.00	100.00
17.716	17.716 (1.157)	120	950424			0.00- 59.12	29.17
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	2651845	10.0000	11.496	70.00- 130.00	100.00
17.820	17.820 (1.163)	120	1277500			16.79- 76.79	48.17
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	2551044	10.0000	11.781	70.00- 130.00	100.00
18.413	18.413 (1.202)	120	1135895			13.82- 73.82	44.53
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	1649339	10.0000	11.179	70.00- 130.00	100.00
18.929	18.929 (1.236)	148	1059071			0.00- 30.00	64.21
18.929	18.929 (1.236)	111	700584			0.00- 30.00	42.48
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	1698551	10.0000	11.112	70.00- 130.00	100.00
19.083	19.083 (1.246)	148	1077645			0.00- 30.00	63.44
19.083	19.083 (1.246)	111	694072			0.00- 30.00	40.86
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	2104844	10.0000	10.969	70.00- 130.00	100.00(A)
19.315	19.315 (1.261)	126	415195			0.00- 30.00	19.73
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	1575995	10.0000	11.110	70.00- 130.00	100.00
19.625	19.625 (1.281)	148	984528			32.78- 92.78	62.47
19.625	19.625 (1.281)	111	689956			14.53- 74.53	43.78
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	1265465	10.0000	11.276	70.00- 130.00	100.00
21.430	21.430 (1.399)	182	1233963			65.13- 125.13	97.51
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	1118557	10.0000	11.607	70.00- 130.00	100.00
21.559	21.559 (1.407)	223	714607			0.00- 30.00	63.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	2608619	10.0000	11.494	70.00- 130.00	100.00
21.688	21.688 (1.416)	127	325955			0.00- 30.00	12.50
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	160209	10.0000	11.285	70.00- 130.00	100.00
6.994	6.994 (0.777)	41	1008810			0.00- 30.00	629.68
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	1021877	10.0000	10.394	70.00- 130.00	100.00
9.638	9.638 (1.071)	99	125256			0.00- 30.00	12.26
9.638	9.638 (1.071)	41	1092561			0.00- 30.00	106.92
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	1981695	10.0000	10.705	70.00- 130.00	100.00
8.174	8.174 (0.908)	42	173674			0.00- 30.00	8.76
8.174	8.174 (0.908)	86	101798			0.00- 30.00	5.14
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	78335	10.0000	10.322	70.00- 130.00	100.00
3.221	3.221 (0.358)	43	879789			0.00- 30.00	1123.11
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	393694	10.0000	10.271	70.00- 130.00	100.00
4.827	4.827 (0.536)	43	792186			0.00- 30.00	201.22
4.827	4.827 (0.536)	42	689029			0.00- 30.00	175.02
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	947078	10.0000	10.848	70.00- 130.00	100.00
10.644	10.644 (1.182)	98	425038			0.00- 30.00	44.88
10.644	10.644 (1.182)	55	1069902			0.00- 30.00	112.97
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.543	7.543 (0.838)	59	882838	10.0000	9.344	70.00- 130.00	100.00
7.543	7.543 (0.838)	41	859807			0.00- 30.00	97.39
7.515	7.515 (0.835)	57	380653			0.00- 30.00	43.12

QC Flag Legend

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

Report Date: 03-Jul-2008 13:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070202.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 25ppbv -> 10ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	305594	-14.29
51 1,4-Difluorobenze	1324634	794780	1854488	1200887	-9.34
72 Chlorobenzene-d5	1242028	745217	1738839	1113684	-10.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070202.d

Date : 02-JUL-2008 08:28

Client ID: Level 4

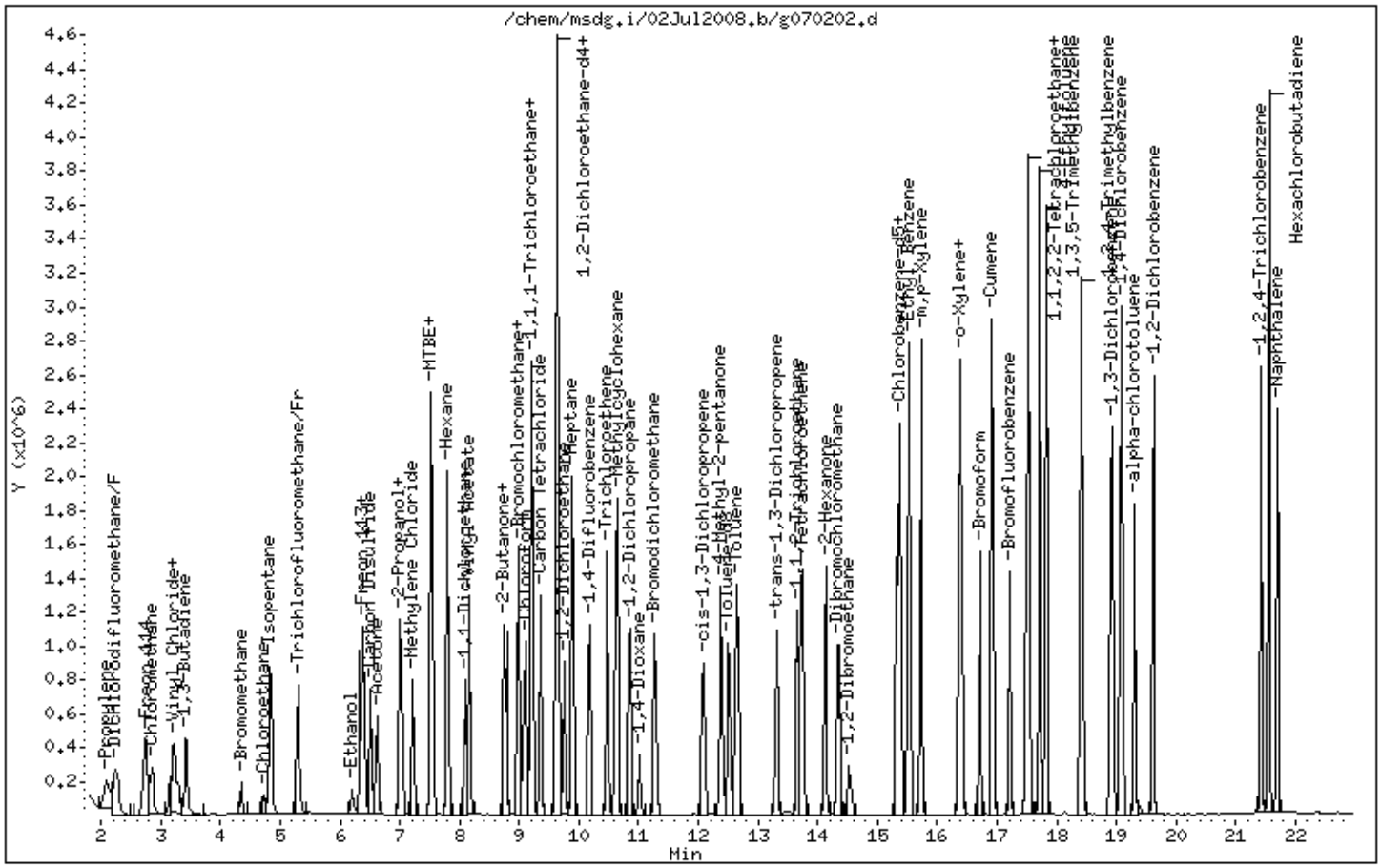
Instrument: msdg.i

Sample Info: 200ml #1541-159A

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070207.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 02-JUL-2008 11:32
Operator : lmr Inst ID: msdg.i
Smp Info : 500mL #1541-159A
Misc Info : 25ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 11:32 Cal File: g070207.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
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	356533	10.0000		80.00- 120.00		100.00
9.002	9.002 (1.000)	128	273179			46.62- 106.62		76.62
9.002	9.002 (1.000)	49	810944			197.45- 257.45		227.45
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1324634	10.0000		80.00- 120.00		100.00
10.186	10.186 (1.000)	88	222248			0.00- 46.78		16.78
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1242028	10.0000		80.00- 120.00		100.00
15.319	15.319 (1.000)	82	773746			32.30- 92.30		62.30
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	667825	10.0000	9.759	80.00- 120.00		100.00
9.668	9.668 (1.074)	67	371698			25.66- 85.66		55.66
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1391044	10.0000	10.158	80.00- 120.00		100.00
12.499	12.499 (1.227)	70	168872			0.00- 42.14		12.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	897216			34.50- 94.50	64.50
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	747620	10.0000	10.362	80.00- 120.00	100.00
17.201	17.201 (1.123)	95	1070053			113.13- 173.13	143.13
17.226	17.226 (1.125)	176	721593			66.52- 126.52	96.52
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	1162891	25.0000	23.560	80.00- 120.00	100.00
2.125	2.125 (0.236)	42	776309			36.76- 96.76	66.76
2.125	2.125 (0.236)	39	886291			46.21- 106.21	76.21
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.270	2.270 (0.252)	85	2615486	25.0000	23.506	80.00- 120.00	100.00
2.270	2.270 (0.252)	87	824741			1.53- 61.53	31.53
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1422162	25.0000	25.354	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	466886			2.83- 62.83	32.83
2.752	2.752 (0.306)	85	2047600			113.98- 173.98	143.98
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1775065	25.0000	23.382	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	510025			0.00- 58.73	28.73
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	978589	25.0000	23.735	80.00- 120.00	100.00
3.308	3.308 (0.367)	64	290180			0.00- 59.65	29.65
10 1,3-Butadiene					CAS #: 106-99-0		
3.430	3.430 (0.381)	54	1162461	25.0000	25.993	80.00- 120.00	100.00
3.430	3.430 (0.381)	39	1512951			100.15- 160.15	130.15
11 Bromomethane					CAS #: 74-83-9		
4.351	4.351 (0.483)	94	504095	25.0000	24.864	80.00- 120.00	100.00
4.351	4.351 (0.483)	96	478222			64.87- 124.87	94.87
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	399358	25.0000	25.938	80.00- 120.00	100.00
4.724	4.724 (0.525)	49	178678			14.74- 74.74	44.74
4.724	4.724 (0.525)	66	118390			0.00- 59.65	29.65
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	3423795	25.0000	25.521	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	2190719			33.99- 93.99	63.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	584235	25.0000	23.434	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	133682			0.00- 52.88	22.88
6.225	6.225 (0.692)	46	221520			7.92- 67.92	37.92
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	1123644	25.0000	22.442	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	693584			31.73- 91.73	61.73
6.390	6.390 (0.710)	101	1540169			107.07- 167.07	137.07
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	495662	25.0000	23.152	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	2224284			418.75- 478.75	448.75
6.335	6.335 (0.704)	96	778606			127.08- 187.08	157.08
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	3404134	25.0000	25.533	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	658265			0.00- 49.34	19.34
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	3698595	25.0000	27.682	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	808587			0.00- 51.86	21.86
7.049	7.049 (0.783)	59	95237			0.00- 32.57	2.57
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	2568503	25.0000	22.845	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	635295	25.0000	20.742	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	2080715			297.52- 357.52	327.52
7.213	7.213 (0.801)	51	602750			64.88- 124.88	94.88
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	3665011	25.0000	30.702	80.00- 120.00	100.00
7.515	7.515 (0.835)	57	1456367			9.74- 69.74	39.74
7.543	7.543 (0.838)	41	2903852			49.23- 109.23	79.23
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	784634	25.0000	27.261	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	2530469			292.50- 352.50	322.50
7.515	7.515 (0.835)	96	1247007			128.93- 188.93	158.93
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	2728829	25.0000	26.732	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	2406264			58.18- 118.18	88.18
7.790	7.790 (0.865)	86	299642			0.00- 40.98	10.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	2607766	25.0000	24.902	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	778037			0.00- 59.84	29.84
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	696945	25.0000	27.207	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	4897150			672.66- 732.66	702.66
8.792	8.792 (0.977)	57	288375			11.38- 71.38	41.38
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.748	8.748 (0.972)	98	792854	25.0000	26.028	80.00- 120.00	100.00
8.748	8.748 (0.972)	61	2150666			241.26- 301.26	271.26
8.748	8.748 (0.972)	96	1255085			128.30- 188.30	158.30
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2896924	25.0000	26.569	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	630802			0.00- 51.77	21.77
9.002	9.002 (1.000)	72	672290			0.00- 53.21	23.21
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	2730211	25.0000	25.218	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1726308			33.23- 93.23	63.23
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2844559	25.0000	25.591	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1806458			33.51- 93.51	63.51
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1942953	25.0000	26.469	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	3247665			137.15- 197.15	167.15
9.197	9.197 (1.022)	41	2422217			94.67- 154.67	124.67
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2277328	25.0000	22.441	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2365600			73.88- 133.88	103.88
46 Benzene					CAS #: 71-43-2		
9.639	9.639 (0.946)	78	4096464	25.0000	26.821	80.00- 120.00	100.00
9.639	9.639 (0.946)	77	955129			0.00- 53.32	23.32
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	2498787	25.0000	26.719	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	761767			0.49- 60.49	30.49
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	4708070	25.0000	28.778	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.872	9.872 (0.969)	57	1842409			9.13- 69.13	39.13
9.872	9.872 (0.969)	100	416044			0.00- 38.84	8.84
52 Trichloroethene						CAS #: 79-01-6	
10.475	10.475 (1.028)	130	1668455	25.0000	26.654	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1766475			75.87- 135.87	105.87
10.475	10.475 (1.028)	97	1161362			39.61- 99.61	69.61
53 1,2-Dichloropropane						CAS #: 78-87-5	
10.861	10.861 (1.066)	63	1825265	25.0000	26.936	80.00- 120.00	100.00
10.861	10.861 (1.066)	62	1278921			40.07- 100.07	70.07
10.861	10.861 (1.066)	41	1668205			61.40- 121.40	91.40
54 1,4-Dioxane						CAS #: 123-91-1	
11.029	11.029 (1.083)	88	972671	25.0000	28.107	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	917454			64.32- 124.32	94.32
11.029	11.029 (1.083)	57	305117			1.37- 61.37	31.37
55 Bromodichloromethane						CAS #: 75-27-4	
11.270	11.270 (1.106)	83	3033603	25.0000	27.616	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1878524			31.92- 91.92	61.92
56 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.090	12.090 (1.187)	75	2351865	25.0000	29.053	80.00- 120.00	100.00
12.090	12.090 (1.187)	77	742243			1.56- 61.56	31.56
12.090	12.090 (1.187)	39	2118944			60.10- 120.10	90.10
58 4-Methyl-2-pentanone						CAS #: 108-10-1	
12.379	12.379 (1.215)	43	6233234	25.0000	29.251	80.00- 120.00	100.00
12.379	12.379 (1.215)	58	1730605			0.00- 57.76	27.76
12.379	12.379 (1.215)	85	567857			0.00- 39.11	9.11
60 Toluene						CAS #: 108-88-3	
12.644	12.644 (1.241)	91	4976893	25.0000	27.740	80.00- 120.00	100.00
12.644	12.644 (1.241)	92	2915635			28.58- 88.58	58.58
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.308	13.308 (0.869)	75	2551830	25.0000	28.496	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	792362			1.05- 61.05	31.05
13.308	13.308 (0.869)	39	2154585			54.43- 114.43	84.43
63 1,1,2-Trichloroethane						CAS #: 79-00-5	
13.665	13.665 (0.892)	97	1755465	25.0000	26.801	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	1093196			32.27- 92.27	62.27
13.665	13.665 (0.892)	83	1571881			59.54- 119.54	89.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	2281209	25.0000	27.021	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1752734			46.83- 106.83	76.83
13.747	13.747 (0.897)	131	1663762			42.93- 102.93	72.93
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	2545575	25.0000	29.224	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	6553217			227.44- 287.44	257.44
14.132	14.132 (0.922)	100	368338			0.00- 44.47	14.47
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	2905811	25.0000	27.683	80.00- 120.00	100.00
14.352	14.352 (0.937)	208	154460			0.00- 35.32	5.32
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.517	14.517 (0.948)	107	739470	25.0000	25.158	80.00- 120.00	100.00
14.517	14.517 (0.948)	109	696660			64.21- 124.21	94.21
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	4415811	25.0000	26.646	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1403971			1.79- 61.79	31.79
15.370	15.370 (1.003)	77	2795050			33.30- 93.30	63.30
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	2379904	25.0000	27.691	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	7738414			295.16- 355.16	325.16
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	3007033	25.0000	28.500	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	6238192			177.45- 237.45	207.45
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	2881032	25.0000	29.072	80.00- 120.00	100.00
16.376	16.376 (1.069)	91	6240333			186.60- 246.60	216.60
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	4633127	25.0000	30.238	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	2539928			24.82- 84.82	54.82
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	2797247	25.0000	28.046	80.00- 120.00	100.00
16.711	16.711 (1.091)	171	1444777			21.65- 81.65	51.65
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	8422060	25.0000	29.956	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	2203228			0.00- 56.16	26.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	4638077	25.0000	26.947	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2946371			33.53- 93.53	63.53
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	10893917	25.0000	29.285	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	2353530			0.00- 51.60	21.60
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	9293812	25.0000	30.464	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	2706617			0.00- 59.12	29.12
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	7615905	25.0000	29.605	80.00- 120.00	100.00
17.820	17.820 (1.163)	120	3563378			16.79- 76.79	46.79
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	7373357	25.0000	30.531	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	3230759			13.82- 73.82	43.82
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	4540729	25.0000	27.596	80.00- 120.00	100.00
18.929	18.929 (1.236)	148	2897970			33.82- 93.82	63.82
18.929	18.929 (1.236)	111	1985948			13.74- 73.74	43.74
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	4673580	25.0000	27.416	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2937403			32.85- 92.85	62.85
19.083	19.083 (1.246)	111	1949392			11.71- 71.71	41.71
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	6542757	25.0000	30.572	80.00- 120.00	100.00(A)
19.316	19.316 (1.261)	126	1238175			0.00- 48.92	18.92
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	4291731	25.0000	27.128	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	2694144			32.78- 92.78	62.78
19.625	19.625 (1.281)	111	1911185			14.53- 74.53	44.53
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.431	21.431 (1.399)	180	3272503	25.0000	26.148	80.00- 120.00	100.00
21.431	21.431 (1.399)	182	3113059			65.13- 125.13	95.13
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2780854	25.0000	25.875	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1761301			33.34- 93.34	63.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	6978415	25.0000	27.570	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	862499			0.00- 42.36	12.36
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	393409	25.0000	23.752	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	3012882			735.84- 795.84	765.84
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.639	9.639 (1.071)	56	2911515	25.0000	25.383	80.00- 120.00	100.00
9.639	9.639 (1.071)	99	359142			0.00- 42.34	12.34
9.639	9.639 (1.071)	41	3279618			82.64- 142.64	112.64
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	5825010	25.0000	26.972	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	507562			0.00- 38.71	8.71
8.174	8.174 (0.908)	86	284253			0.00- 34.88	4.88
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	224052	25.0000	25.304	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	2506718			1088.81-1148.81	1118.81
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	1120615	25.0000	25.058	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	2262139			171.87- 231.87	201.87
4.848	4.848 (0.539)	42	1980908			146.77- 206.77	176.77
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	2685490	25.0000	26.366	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	1183998			14.09- 74.09	44.09
10.644	10.644 (1.182)	55	3086527			84.93- 144.93	114.93
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	3082443	25.0000	27.964	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	2903852			64.21- 124.21	94.21
7.515	7.515 (0.835)	57	1456367			17.25- 77.25	47.25

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: msdg.i
Lab File ID: g070207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 25ppbv -> 25ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	356533	0.00
51 1,4-Difluorobenze	1324634	794780	1854488	1324634	0.00
72 Chlorobenzene-d5	1242028	745217	1738839	1242028	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070207.d

Date : 02-JUL-2008 11:32

Client ID: Level 5

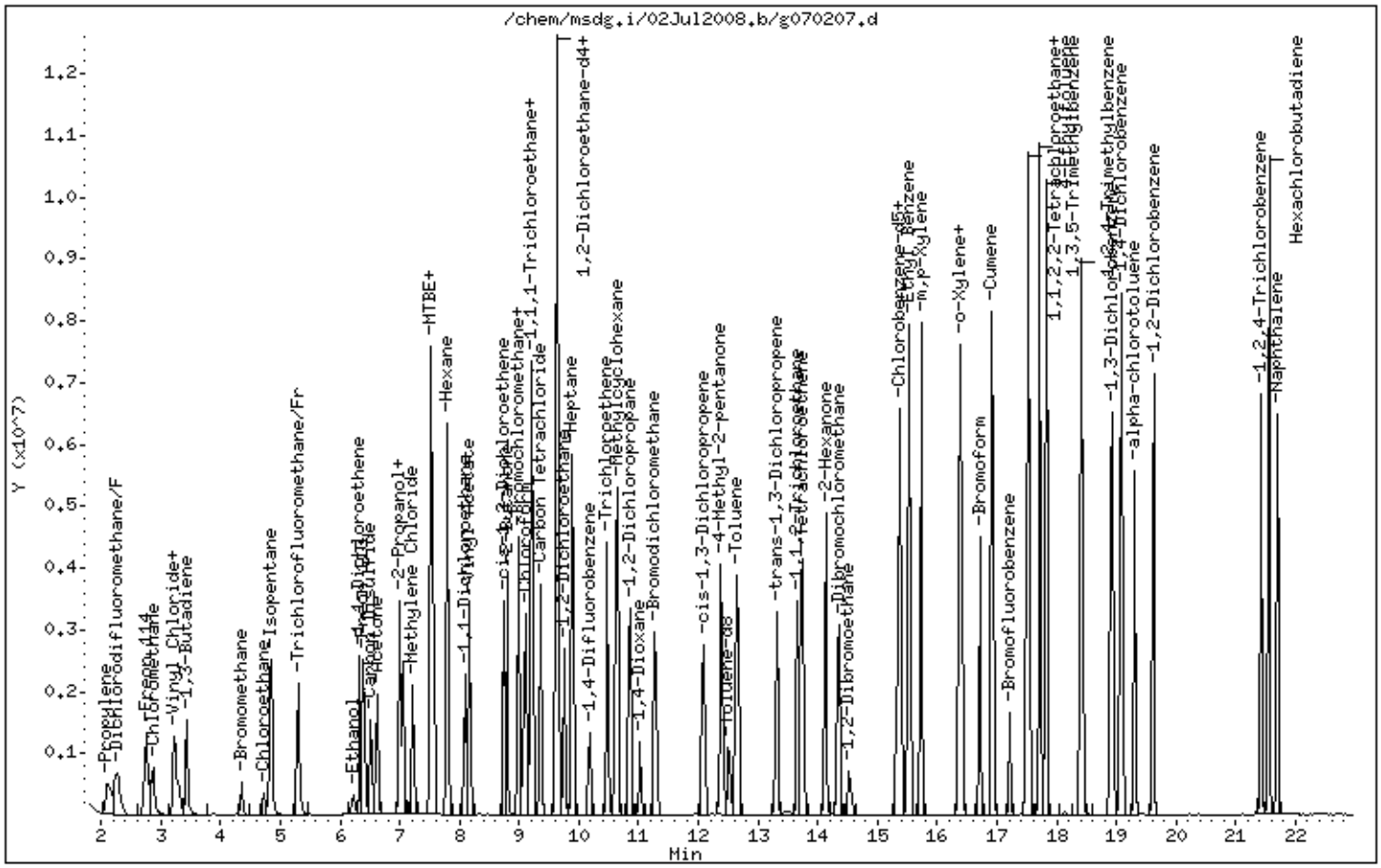
Instrument: msdg.i

Sample Info: 500mL #1541-159A

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070208.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 02-JUL-2008 12:20
Operator : lmr Inst ID: msdg.i
Smp Info : 125mL #1612-36
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 12:20 Cal File: g070208.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	317124	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	239656			0.00- 30.00		75.57
9.002	9.002 (1.000)	49	1027855			0.00- 30.00		324.12
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1253502	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	208268			0.00- 46.78		16.61
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1113933	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	702621			0.00- 30.00		63.08
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	618330	10.0000	10.158	70.00- 130.00		100.00
9.668	9.668 (1.074)	67	392462			0.00- 30.00		63.47
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1286330	10.0000	9.927	70.00- 130.00		100.00
12.499	12.499 (1.227)	70	148921			0.00- 42.14		11.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	829691			34.50- 94.50	64.50
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	664291	10.0000	10.266	70.00- 130.00	100.00
17.201	17.201 (1.123)	95	972106			113.13- 173.13	146.34
17.226	17.226 (1.125)	176	643234			66.52- 126.52	96.83
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	2092222	50.0000	47.656	70.00- 130.00	100.00(A)
2.101	2.101 (0.233)	42	1403294			0.00- 30.00	67.07
2.101	2.101 (0.233)	39	1590911			0.00- 30.00	76.04
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.246	2.246 (0.249)	85	4641866	50.0000	46.902	70.00- 130.00	100.00(A)
2.246	2.246 (0.249)	87	1484692			1.53- 61.53	31.98
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	2089978	50.0000	41.890	70.00- 130.00	100.00(A)
2.752	2.752 (0.306)	137	700460			0.00- 30.00	33.52
2.752	2.752 (0.306)	85	3502730			0.00- 30.00	167.60
8 Chloromethane					CAS #: 74-87-3		
2.848	2.848 (0.316)	50	3577339	50.0000	52.980	70.00- 130.00	100.00(A)
2.848	2.848 (0.316)	52	948589			0.00- 30.00	26.52
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.291 (0.366)	62	1766244	50.0000	48.162	70.00- 130.00	100.00(A)
3.291	3.291 (0.366)	64	565012			0.00- 59.65	31.99
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.412 (0.379)	54	1919109	50.0000	48.245	70.00- 130.00	100.00(A)
3.412	3.412 (0.379)	39	2407962			0.00- 30.00	125.47
11 Bromomethane					CAS #: 74-83-9		
4.351	4.351 (0.483)	94	846143	50.0000	46.922	70.00- 130.00	100.00(A)
4.351	4.351 (0.483)	96	796211			64.87- 124.87	94.10
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	712398	50.0000	52.021	70.00- 130.00	100.00(A)
4.724	4.724 (0.525)	49	318202			0.00- 30.00	44.67
4.724	4.724 (0.525)	66	213330			0.00- 30.00	29.95
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	5532629	50.0000	46.365	70.00- 130.00	100.00(A)
5.304	5.304 (0.589)	103	3627614			33.99- 93.99	65.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.198	6.198 (0.688)	45	1102320	50.0000	49.710	70.00- 130.00	100.00(A)
6.198	6.198 (0.688)	43	245834			0.00- 30.00	22.30
6.198	6.198 (0.688)	46	416813			0.00- 30.00	37.81
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	1781989	50.0000	40.015	70.00- 130.00	100.00(A)
6.390	6.390 (0.710)	153	1144161			31.73- 91.73	64.21
6.390	6.390 (0.710)	101	2554076			0.00- 30.00	143.33
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	845421	50.0000	44.397	70.00- 130.00	100.00(A)
6.335	6.335 (0.704)	61	3840555			0.00- 30.00	454.28
6.335	6.335 (0.704)	96	1339985			0.00- 30.00	158.50
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	5488433	50.0000	46.283	70.00- 130.00	100.00(A)
6.637	6.637 (0.737)	58	1082951			0.00- 30.00	19.73
24 2-Propanol					CAS #: 67-63-0		
7.021	7.021 (0.780)	45	5601641	50.0000	47.136	70.00- 130.00	100.00(A)
7.021	7.021 (0.780)	43	1123154			0.00- 30.00	20.05
7.021	7.021 (0.780)	59	155076			0.00- 30.00	2.77
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	4340642	50.0000	43.405	70.00- 130.00	100.00(A)
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	1447058	50.0000	53.116	70.00- 130.00	100.00(A)
7.213	7.213 (0.801)	49	3546125			297.52- 357.52	245.06
7.213	7.213 (0.801)	51	1026325			0.00- 30.00	70.92
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	4365003	50.0000	41.109	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	57	1863755			0.00- 30.00	42.70
7.543	7.543 (0.838)	41	3753401			0.00- 30.00	85.99
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	1208047	50.0000	47.188	70.00- 130.00	100.00(A)
7.515	7.515 (0.835)	61	4050897			0.00- 30.00	335.33
7.515	7.515 (0.835)	96	1888766			0.00- 30.00	156.35
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	4659696	50.0000	51.320	70.00- 130.00	100.00(A)
7.790	7.790 (0.865)	43	4112791			0.00- 30.00	88.26
7.790	7.790 (0.865)	86	494807			0.00- 30.00	10.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	4372960	50.0000	46.947	70.00- 130.00	100.00(A)
8.092	8.092 (0.899)	65	1318240			0.00- 59.84	30.15
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	1112453	50.0000	48.824	70.00- 130.00	100.00(A)
8.792	8.792 (0.977)	43	8132277			672.66- 732.66	731.02
8.792	8.792 (0.977)	57	485715			0.00- 30.00	43.66
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.748	8.748 (0.972)	98	1299914	50.0000	47.977	70.00- 130.00	100.00(A)
8.748	8.748 (0.972)	61	3668328			241.26- 301.26	282.20
8.748	8.748 (0.972)	96	2025914			128.30- 188.30	155.85
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	4560269	50.0000	47.022	70.00- 130.00	100.00(A)
9.002	9.002 (1.000)	71	951874			0.00- 30.00	20.87
9.002	9.002 (1.000)	72	1033105			0.00- 30.00	22.65
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	4366970	50.0000	45.349	70.00- 130.00	100.00(A)
9.099	9.099 (1.011)	85	2782837			33.23- 93.23	63.72
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	4674314	50.0000	47.278	70.00- 130.00	100.00(A)
9.229	9.229 (1.025)	99	2984878			33.51- 93.51	63.86
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	3123426	50.0000	47.838	70.00- 130.00	100.00(A)
9.197	9.197 (1.022)	56	5573864			0.00- 30.00	178.45
9.197	9.197 (1.022)	41	4032544			0.00- 30.00	129.11
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	4620134	50.0000	51.185	70.00- 130.00	100.00(A)
9.359	9.359 (1.040)	117	4810954			73.88- 133.88	104.13
46 Benzene					CAS #: 71-43-2		
9.639	9.639 (0.946)	78	6479594	50.0000	44.832	70.00- 130.00	100.00(A)
9.639	9.639 (0.946)	77	1485240			0.00- 30.00	22.92
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	4132384	50.0000	46.694	70.00- 130.00	100.00(A)
9.755	9.755 (0.958)	64	1278053			0.00- 30.00	30.93
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	8019546	50.0000	51.802	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.872	9.872 (0.969)	57	3126708			0.00- 30.00	38.99
9.872	9.872 (0.969)	100	681431			0.00- 30.00	8.50
52 Trichloroethene						CAS #: 79-01-6	
10.475	10.475 (1.028)	130	2675381	50.0000	45.165	70.00- 130.00	100.00(A)
10.475	10.475 (1.028)	95	2881949			0.00- 30.00	107.72
10.475	10.475 (1.028)	97	1850499			0.00- 30.00	69.17
53 1,2-Dichloropropane						CAS #: 78-87-5	
10.861	10.861 (1.066)	63	3047164	50.0000	47.519	70.00- 130.00	100.00(A)
10.861	10.861 (1.066)	62	2158424			40.07- 100.07	70.83
10.861	10.861 (1.066)	41	2762136			61.40- 121.40	90.65
54 1,4-Dioxane						CAS #: 123-91-1	
11.029	11.029 (1.083)	88	1609539	50.0000	49.149	70.00- 130.00	100.00(A)
11.005	11.005 (1.080)	58	1562239			64.32- 124.32	97.06
11.005	11.005 (1.080)	57	525524			0.00- 30.00	32.65
55 Bromodichloromethane						CAS #: 75-27-4	
11.270	11.270 (1.106)	83	5009098	50.0000	48.188	70.00- 130.00	100.00(A)
11.270	11.270 (1.106)	85	3126948			31.92- 91.92	62.43
56 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.090	12.090 (1.187)	75	3934825	50.0000	51.365	70.00- 130.00	100.00(A)
12.090	12.090 (1.187)	77	1240117			1.56- 61.56	31.52
12.090	12.090 (1.187)	39	3609749			60.10- 120.10	91.74
58 4-Methyl-2-pentanone						CAS #: 108-10-1	
12.379	12.379 (1.215)	43	10476320	50.0000	51.953	70.00- 130.00	100.00(A)
12.379	12.379 (1.215)	58	2920433			0.00- 30.00	27.88
12.379	12.379 (1.215)	85	932096			0.00- 30.00	8.90
60 Toluene						CAS #: 108-88-3	
12.644	12.644 (1.241)	91	8037838	50.0000	47.344	70.00- 130.00	100.00(A)
12.644	12.644 (1.241)	92	4705127			28.58- 88.58	58.54
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.308	13.308 (0.869)	75	4249575	50.0000	52.912	70.00- 130.00	100.00(A)
13.308	13.308 (0.869)	77	1341531			1.05- 61.05	31.57
13.308	13.308 (0.869)	39	3680624			54.43- 114.43	86.61
63 1,1,2-Trichloroethane						CAS #: 79-00-5	
13.665	13.665 (0.892)	97	2816756	50.0000	47.949	70.00- 130.00	100.00(A)
13.665	13.665 (0.892)	99	1714039			32.27- 92.27	60.85
13.665	13.665 (0.892)	83	2514038			59.54- 119.54	89.25

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	3547472	50.0000	46.852	70.00- 130.00	100.00(A)
13.747	13.747 (0.897)	129	2785912			46.83- 106.83	78.53
13.747	13.747 (0.897)	131	2670107			42.93- 102.93	75.27
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	4125516	50.0000	52.809	70.00- 130.00	100.00(A)
14.132	14.132 (0.922)	43	10609274			227.44- 287.44	257.16
14.132	14.132 (0.922)	100	574849			0.00- 30.00	13.93
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	4715612	50.0000	50.091	70.00- 130.00	100.00(A)
14.352	14.352 (0.937)	208	250024			0.00- 30.00	5.30
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.517	14.517 (0.948)	107	1216166	50.0000	46.134	70.00- 130.00	100.00(A)
14.517	14.517 (0.948)	109	1116959			64.21- 124.21	91.84
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	6935283	50.0000	46.662	70.00- 130.00	100.00(A)
15.370	15.370 (1.003)	114	2222761			1.79- 61.79	32.05
15.370	15.370 (1.003)	77	4524633			33.30- 93.30	65.24
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	3772717	50.0000	48.945	70.00- 130.00	100.00(A)
15.525	15.525 (1.013)	91	12178830			0.00- 30.00	322.81
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	4725643	50.0000	49.939	70.00- 130.00	100.00
15.731	15.731 (1.027)	91	9856342			0.00- 30.00	208.57
77 o-Xylene					CAS #: 95-47-6		
16.376	16.376 (1.069)	106	4431850	50.0000	49.864	70.00- 130.00	100.00(A)
16.376	16.376 (1.069)	91	9834210			186.60- 246.60	221.90
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	7298745	50.0000	53.113	70.00- 130.00	100.00(A)
16.401	16.401 (1.071)	78	4043454			24.82- 84.82	55.40
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	4515498	50.0000	50.480	70.00- 130.00	100.00(A)
16.711	16.711 (1.091)	171	2315275			0.00- 30.00	51.27
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	13137564	50.0000	52.103	70.00- 130.00	100.00(A)
16.917	16.917 (1.104)	120	3339205			0.00- 56.16	25.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	7313951	50.0000	47.380	70.00- 130.00	100.00(A)
17.484	17.484 (1.141)	85	4589198			33.53- 93.53	62.75
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	16826230	50.0000	50.434	70.00- 130.00	100.00(A)
17.536	17.536 (1.145)	120	3611120			0.00- 30.00	21.46
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	14320659	50.0000	52.340	70.00- 130.00	100.00(A)
17.716	17.716 (1.157)	120	4125836			0.00- 59.12	28.81
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	11720026	50.0000	50.798	70.00- 130.00	100.00(A)
17.820	17.820 (1.163)	120	5445545			16.79- 76.79	46.46
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	11629290	50.0000	53.692	70.00- 130.00	100.00(A)
18.413	18.413 (1.202)	120	5086485			13.82- 73.82	43.74
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	7101777	50.0000	48.124	70.00- 130.00	100.00(A)
18.929	18.929 (1.236)	148	4554341			0.00- 30.00	64.13
18.929	18.929 (1.236)	111	3141198			0.00- 30.00	44.23
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	7302948	50.0000	47.767	70.00- 130.00	100.00(A)
19.083	19.083 (1.246)	148	4613336			0.00- 30.00	63.17
19.083	19.083 (1.246)	111	3093379			0.00- 30.00	42.36
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	11225779	50.0000	58.486	70.00- 130.00	100.00(A)
19.316	19.316 (1.261)	126	2094151			0.00- 30.00	18.65
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	6743453	50.0000	47.526	70.00- 130.00	100.00(A)
19.625	19.625 (1.281)	148	4277543			32.78- 92.78	63.43
19.625	19.625 (1.281)	111	3085309			14.53- 74.53	45.75
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	5763593	50.0000	51.347	70.00- 130.00	100.00(A)
21.430	21.430 (1.399)	182	5512402			65.13- 125.13	95.64
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	4649778	50.0000	48.240	70.00- 130.00	100.00(A)
21.559	21.559 (1.407)	223	2923058			0.00- 30.00	62.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	12501282	50.0000	55.069	70.00- 130.00	100.00(A)
21.688	21.688 (1.416)	127	1536432			0.00- 30.00	12.29
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	858598	50.0000	58.280	70.00- 130.00	100.00(A)
6.994	6.994 (0.777)	41	5378031			0.00- 30.00	626.37
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.639	9.639 (1.071)	56	5070184	50.0000	49.696	70.00- 130.00	100.00(A)
9.639	9.639 (1.071)	99	568577			0.00- 30.00	11.21
9.639	9.639 (1.071)	41	5472238			0.00- 30.00	107.93
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	10332337	50.0000	53.787	70.00- 130.00	100.00(A)
8.174	8.174 (0.908)	42	861671			0.00- 30.00	8.34
8.174	8.174 (0.908)	86	484070			0.00- 30.00	4.69
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	386532	50.0000	49.079	70.00- 130.00	100.00(A)
3.221	3.221 (0.358)	43	4271146			0.00- 30.00	1104.99
14 Isopentane					CAS #: 78-78-4		
4.827	4.827 (0.536)	57	2009650	50.0000	50.522	70.00- 130.00	100.00(A)
4.827	4.827 (0.536)	43	4008252			0.00- 30.00	199.45
4.827	4.827 (0.536)	42	3460992			0.00- 30.00	172.22
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	4377404	50.0000	48.318	70.00- 130.00	100.00(A)
10.644	10.644 (1.182)	98	1934147			0.00- 30.00	44.18
10.644	10.644 (1.182)	55	5238454			0.00- 30.00	119.67
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.543	7.543 (0.838)	59	4396946	50.0000	44.846	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	41	3753401			0.00- 30.00	85.36
7.543	7.543 (0.838)	57	1863755			0.00- 30.00	42.39

QC Flag Legend

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

Report Date: 03-Jul-2008 13:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070208.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	317124	-11.05
51 1,4-Difluorobenze	1324634	794780	1854488	1253502	-5.37
72 Chlorobenzene-d5	1242028	745217	1738839	1113933	-10.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070208.d

Date : 02-JUL-2008 12:20

Client ID: Level 6

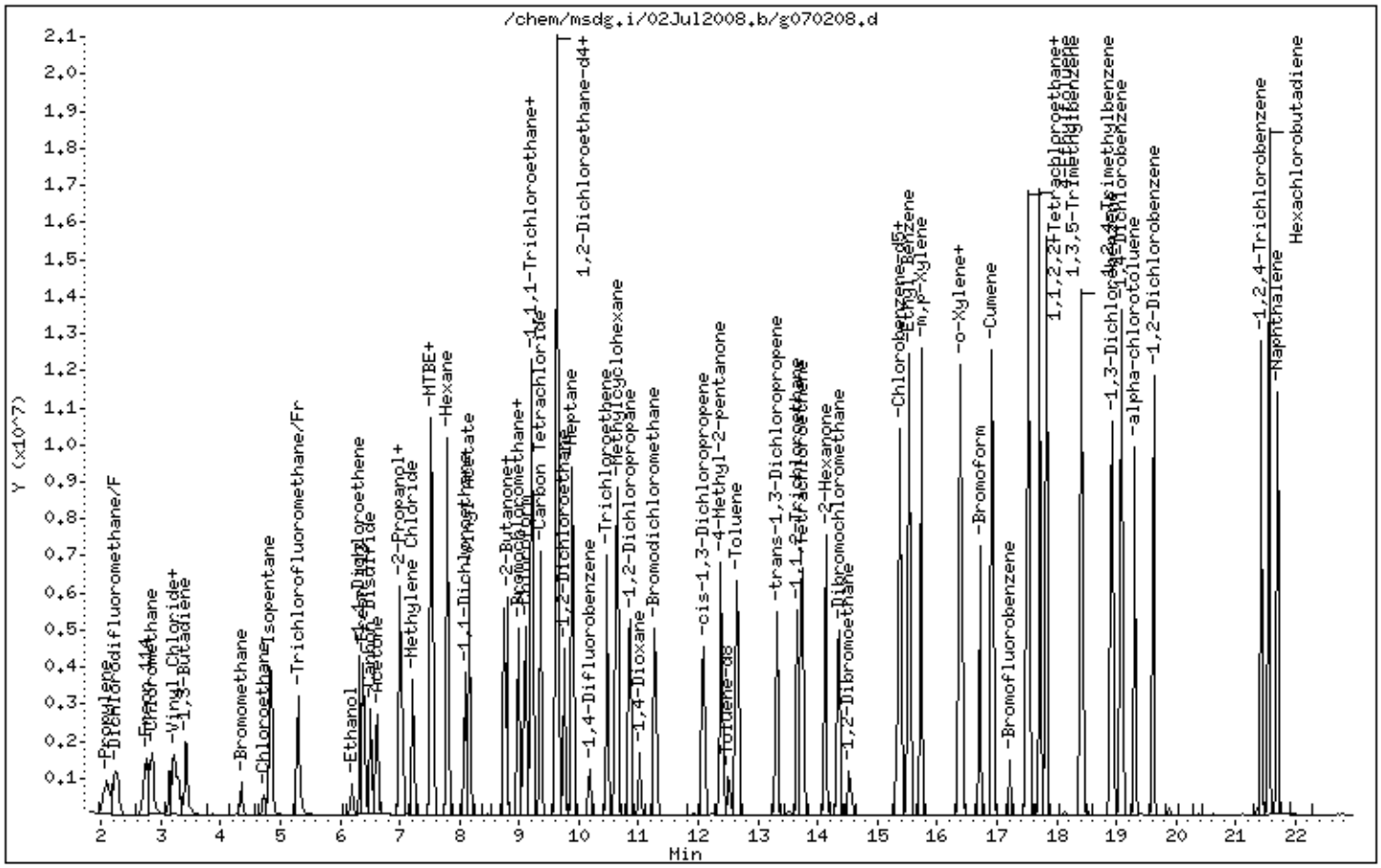
Instrument: msdg.i

Sample Info: 125mL #1612-36

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/02Jul2008.b/g070209.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 02-JUL-2008 13:24
Operator : lmr Inst ID: msdg.i
Smp Info : 250mL #1612-36;ICAL;Level 7
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msdg.i/02Jul2008.b/t14q702a.m
Meth Date : 03-Jul-2008 13:48 cleonard Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	344490	10.0000		70.00- 130.00		100.00
9.002	9.002 (1.000)	128	273362			0.00- 30.00		79.35
9.002	9.002 (1.000)	49	958707			0.00- 30.00		278.30
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	1343190	10.0000		70.00- 130.00		100.00
10.186	10.186 (1.000)	88	223120			0.00- 46.78		16.61
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	1247974	10.0000		70.00- 130.00		100.00
15.319	15.319 (1.000)	82	790764			0.00- 30.00		63.36
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.667	9.667 (1.074)	65	721633	10.0000	10.914	70.00- 130.00		100.00
9.667	9.667 (1.074)	67	533355			0.00- 30.00		73.91
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.523	12.523 (1.229)	98	1423542	10.0000	10.252	70.00- 130.00		100.00
12.523	12.523 (1.229)	70	171484			0.00- 42.14		12.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.523	12.523 (1.229)	100	929285			34.50- 94.50	65.28
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	711759	10.0000	9.818	70.00- 130.00	100.00
17.226	17.226 (1.125)	95	1058868			113.13- 173.13	148.77
17.226	17.226 (1.125)	176	689615			66.52- 126.52	96.89
4 Propylene					CAS #: 115-07-1		
2.101	2.101 (0.233)	41	4649990	100.000	97.501	70.00- 130.00	100.00(AM)
2.101	2.101 (0.233)	42	2260993			0.00- 30.00	48.62
2.101	2.101 (0.233)	39	2515438			0.00- 30.00	54.10
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.270	2.270 (0.252)	85	9971089	100.000	92.747	70.00- 130.00	100.00(A)
2.270	2.270 (0.252)	87	3180993			1.53- 61.53	31.90
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	4649411	100.000	85.788	70.00- 130.00	100.00(A)
2.752	2.752 (0.306)	137	1505180			0.00- 30.00	32.37
2.752	2.752 (0.306)	85	7660752			0.00- 30.00	164.77
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	6973408	100.000	95.070	70.00- 130.00	100.00(A)
2.872	2.872 (0.319)	52	1882892			0.00- 30.00	27.00
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	3905923	100.000	98.046	70.00- 130.00	100.00(A)
3.308	3.308 (0.367)	64	1140600			0.00- 59.65	29.20
10 1,3-Butadiene					CAS #: 106-99-0		
3.430	3.430 (0.381)	54	4542467	100.000	105.12	70.00- 130.00	100.00(A)
3.430	3.430 (0.381)	39	5417773			0.00- 30.00	119.27
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	2249063	100.000	114.81	70.00- 130.00	100.00(A)
4.350	4.350 (0.483)	96	2111798			64.87- 124.87	93.90
13 Chloroethane					CAS #: 75-00-3		
4.723	4.723 (0.525)	64	1589823	100.000	106.87	70.00- 130.00	100.00(A)
4.723	4.723 (0.525)	49	730940			0.00- 30.00	45.98
4.723	4.723 (0.525)	66	465151			0.00- 30.00	29.26
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	11951577	100.000	92.201	70.00- 130.00	100.00(A)
5.304	5.304 (0.589)	103	7699609			33.99- 93.99	64.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	2399107	100.000	99.594	70.00- 130.00	100.00(A)
6.225	6.225 (0.692)	43	501122			0.00- 30.00	20.89
6.225	6.225 (0.692)	46	910579			0.00- 30.00	37.95
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	3693209	100.000	76.343	70.00- 130.00	100.00(A)
6.390	6.390 (0.710)	153	2310514			31.73- 91.73	62.56
6.390	6.390 (0.710)	101	5239328			0.00- 30.00	141.86
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	1810461	100.000	87.522	70.00- 130.00	100.00(A)
6.335	6.335 (0.704)	61	8218494			0.00- 30.00	453.94
6.335	6.335 (0.704)	96	2820279			0.00- 30.00	155.78
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	12100592	100.000	93.936	70.00- 130.00	100.00(A)
6.637	6.637 (0.737)	58	2478666			0.00- 30.00	20.48
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	13311865	100.000	103.12	70.00- 130.00	100.00(A)
7.049	7.049 (0.783)	43	2718147			0.00- 30.00	20.42
7.049	7.049 (0.783)	59	367159			0.00- 30.00	2.76
20 Carbon Disulfide					CAS #: 75-15-0		
6.499	6.499 (0.722)	76	9468135	100.000	87.157	70.00- 130.00	100.00(A)
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	2181655	100.000	73.719	70.00- 130.00	100.00(A)
7.213	7.213 (0.801)	49	7072965			297.52- 357.52	324.20
7.213	7.213 (0.801)	51	2057635			0.00- 30.00	94.32
29 MTBE					CAS #: 1634-04-4		
7.543	7.543 (0.838)	73	10717897	100.000	92.922	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	57	5405228			0.00- 30.00	50.43
7.543	7.543 (0.838)	41	8722012			0.00- 30.00	81.38
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	1795708	100.000	64.570	70.00- 130.00	100.00(A)
7.515	7.515 (0.835)	61	7856845			0.00- 30.00	437.53
7.515	7.515 (0.835)	96	2841089			0.00- 30.00	158.22
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	9622932	100.000	97.564	70.00- 130.00	100.00(A)
7.790	7.790 (0.865)	43	8612017			0.00- 30.00	89.49
7.790	7.790 (0.865)	86	988072			0.00- 30.00	10.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	9449464	100.000	93.389	70.00- 130.00	100.00(A)
8.092	8.092 (0.899)	65	2818001			0.00- 59.84	29.82
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	2323826	100.000	93.888	70.00- 130.00	100.00(A)
8.792	8.792 (0.977)	43	16072576			672.66- 732.66	691.64
8.792	8.792 (0.977)	57	1071037			0.00- 30.00	46.09
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.747 (0.972)	98	2707099	100.000	91.976	70.00- 130.00	100.00(A)
8.747	8.747 (0.972)	61	8095512			241.26- 301.26	299.05
8.747	8.747 (0.972)	96	4224961			128.30- 188.30	156.07
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	11352699	100.000	107.76	70.00- 130.00	100.00(A)
9.002	9.002 (1.000)	71	2261840			0.00- 30.00	19.92
9.002	9.002 (1.000)	72	2402595			0.00- 30.00	21.16
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	9400215	100.000	89.863	70.00- 130.00	100.00(A)
9.099	9.099 (1.011)	85	5880684			33.23- 93.23	62.56
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	10119211	100.000	94.219	70.00- 130.00	100.00(A)
9.229	9.229 (1.025)	99	6402451			33.51- 93.51	63.27
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	6583954	100.000	92.828	70.00- 130.00	100.00(A)
9.197	9.197 (1.022)	56	12799576			0.00- 30.00	194.41
9.197	9.197 (1.022)	41	9191619			0.00- 30.00	139.61
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	9864181	100.000	100.60	70.00- 130.00	100.00(A)
9.359	9.359 (1.040)	117	10303454			73.88- 133.88	104.45
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	12783471	100.000	82.543	70.00- 130.00	100.00(A)
9.638	9.638 (0.946)	77	2961816			0.00- 30.00	23.17
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	9035260	100.000	95.277	70.00- 130.00	100.00(A)
9.755	9.755 (0.958)	64	2725992			0.00- 30.00	30.17
49 Heptane					CAS #: 142-82-5		
9.871	9.871 (0.969)	43	16749227	100.000	100.97	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.871 (0.969)	57	6558697			0.00- 30.00	39.16
9.901	9.901 (0.972)	100	1316196			0.00- 30.00	7.86
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	5271227	100.000	83.046	70.00- 130.00	100.00(A)
10.475	10.475 (1.028)	95	5846270			0.00- 30.00	110.91
10.475	10.475 (1.028)	97	3800269			0.00- 30.00	72.09
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.860	10.860 (1.066)	63	6518319	100.000	94.863	70.00- 130.00	100.00(A)
10.860	10.860 (1.066)	62	4651555			40.07- 100.07	71.36
10.860	10.860 (1.066)	41	5879424			61.40- 121.40	90.20
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	3530588	100.000	100.61	70.00- 130.00	100.00(A)
11.029	11.029 (1.083)	58	3556856			64.32- 124.32	100.74
11.029	11.029 (1.083)	57	1187393			0.00- 30.00	33.63
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	10678503	100.000	95.868	70.00- 130.00	100.00(A)
11.270	11.270 (1.106)	85	6647266			31.92- 91.92	62.25
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	8349589	100.000	101.72	70.00- 130.00	100.00(A)
12.089	12.089 (1.187)	77	2616724			1.56- 61.56	31.34
12.089	12.089 (1.187)	39	7851912			60.10- 120.10	94.04
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.378	12.378 (1.215)	43	23623640	100.000	109.33	70.00- 130.00	100.00(A)
12.378	12.378 (1.215)	58	6594901			0.00- 30.00	27.92
12.378	12.378 (1.215)	85	2022756			0.00- 30.00	8.56
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	16764421	100.000	92.150	70.00- 130.00	100.00(A)
12.644	12.644 (1.241)	92	9795424			28.58- 88.58	58.43
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	9310610	100.000	103.48	70.00- 130.00	100.00(A)
13.308	13.308 (0.869)	77	2898432			1.05- 61.05	31.13
13.308	13.308 (0.869)	39	8021952			54.43- 114.43	86.16
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	5833395	100.000	88.635	70.00- 130.00	100.00(A)
13.665	13.665 (0.892)	99	3628195			32.27- 92.27	62.20
13.665	13.665 (0.892)	83	5308081			59.54- 119.54	90.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	7107211	100.000	83.784	70.00- 130.00	100.00(A)
13.747	13.747 (0.897)	129	5583132			46.83- 106.83	78.56
13.747	13.747 (0.897)	131	5344545			42.93- 102.93	75.20
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	9686458	100.000	110.67	70.00- 130.00	100.00(A)
14.132	14.132 (0.922)	43	23637592			227.44- 287.44	244.03
14.132	14.132 (0.922)	100	1260460			0.00- 30.00	13.01
68 Dibromochloromethane					CAS #: 124-48-1		
14.352	14.352 (0.937)	129	9878164	100.000	93.660	70.00- 130.00	100.00(A)
14.352	14.352 (0.937)	208	505889			0.00- 30.00	5.12
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	1952910	100.000	66.125	70.00- 130.00	100.00(A)
14.516	14.516 (0.948)	109	1824202			64.21- 124.21	93.41
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	14298037	100.000	85.868	70.00- 130.00	100.00(A)
15.370	15.370 (1.003)	114	4564313			1.79- 61.79	31.92
15.370	15.370 (1.003)	77	9612213			33.30- 93.30	67.23
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	7748544	100.000	89.729	70.00- 130.00	100.00(A)
15.525	15.525 (1.013)	91	23228887			0.00- 30.00	299.78
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	9686235	100.000	91.366	70.00- 130.00	100.00(A)
15.731	15.731 (1.027)	91	20768499			0.00- 30.00	214.41
77 o-Xylene					CAS #: 95-47-6		
16.375	16.375 (1.069)	106	9245563	100.000	92.851	70.00- 130.00	100.00(A)
16.375	16.375 (1.069)	91	20752262			186.60- 246.60	224.46
78 Styrene					CAS #: 100-42-5		
16.427	16.427 (1.072)	104	15022038	100.000	97.574	70.00- 130.00	100.00(A)
16.427	16.427 (1.072)	78	8744383			24.82- 84.82	58.21
79 Bromoform					CAS #: 75-25-2		
16.711	16.711 (1.091)	173	9234290	100.000	92.145	70.00- 130.00	100.00(A)
16.711	16.711 (1.091)	171	4755227			0.00- 30.00	51.50
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	26529314	100.000	93.913	70.00- 130.00	100.00(A)
16.917	16.917 (1.104)	120	6842403			0.00- 56.16	25.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	15142998	100.000	87.561	70.00- 130.00	100.00(A)
17.510	17.510 (1.143)	85	9442446			33.53- 93.53	62.36
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	24638710	100.000	65.919	70.00- 130.00	100.00(A)
17.536	17.536 (1.145)	120	7184197			0.00- 30.00	29.16
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	22519053	100.000	73.464	70.00- 130.00	100.00(A)
17.716	17.716 (1.157)	120	8118582			0.00- 59.12	36.05
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.819	17.819 (1.163)	105	22219639	100.000	85.963	70.00- 130.00	100.00(A)
17.819	17.819 (1.163)	120	10840999			16.79- 76.79	48.79
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	23171149	100.000	95.489	70.00- 130.00	100.00(A)
18.413	18.413 (1.202)	120	10295106			13.82- 73.82	44.43
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	14501551	100.000	87.713	70.00- 130.00	100.00(A)
18.929	18.929 (1.236)	148	9163460			0.00- 30.00	63.19
18.929	18.929 (1.236)	111	6533244			0.00- 30.00	45.05
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	14399422	100.000	84.068	70.00- 130.00	100.00(A)
19.083	19.083 (1.246)	148	9168470			0.00- 30.00	63.67
19.083	19.083 (1.246)	111	6377023			0.00- 30.00	44.29
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.315 (1.261)	91	22416470	100.000	104.24	70.00- 130.00	100.00(A)
19.315	19.315 (1.261)	126	4372977			0.00- 30.00	19.51
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	13473840	100.000	84.761	70.00- 130.00	100.00(A)
19.625	19.625 (1.281)	148	8509423			32.78- 92.78	63.16
19.625	19.625 (1.281)	111	6288910			14.53- 74.53	46.67
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	10931921	100.000	86.931	70.00- 130.00	100.00(A)
21.430	21.430 (1.399)	182	10393515			65.13- 125.13	95.07
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	8668903	100.000	80.277	70.00- 130.00	100.00(A)
21.559	21.559 (1.407)	223	5478516			0.00- 30.00	63.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	24114936	100.000	94.818	70.00- 130.00	100.00(A)
21.688	21.688 (1.416)	127	3055705			0.00- 30.00	12.67
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	1408976	100.000	88.041	70.00- 130.00	100.00(A)
6.994	6.994 (0.777)	41	10739749			0.00- 30.00	762.24
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	11043811	100.000	99.649	70.00- 130.00	100.00(A)
9.638	9.638 (1.071)	99	1127131			0.00- 30.00	10.21
9.638	9.638 (1.071)	41	11831624			0.00- 30.00	107.13
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	18951871	100.000	90.821	70.00- 130.00	100.00(A)
8.174	8.174 (0.908)	42	1710179			0.00- 30.00	9.02
8.174	8.174 (0.908)	86	960938			0.00- 30.00	5.07
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	888058	100.000	103.80	70.00- 130.00	100.00(A)
3.221	3.221 (0.358)	43	9454557			0.00- 30.00	1064.63
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	4361572	100.000	100.94	70.00- 130.00	100.00(A)
4.848	4.848 (0.539)	43	8490613			0.00- 30.00	194.67
4.848	4.848 (0.539)	42	7310404			0.00- 30.00	167.61
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	9216867	100.000	93.655	70.00- 130.00	100.00(A)
10.644	10.644 (1.182)	98	4012850			0.00- 30.00	43.54
10.644	10.644 (1.182)	55	11814976			0.00- 30.00	128.19
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	12301489	100.000	115.50	70.00- 130.00	100.00(A)
7.543	7.543 (0.838)	41	8722012			0.00- 30.00	70.90
7.543	7.543 (0.838)	57	5405228			0.00- 30.00	43.94

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/02Jul2008.b/t14q702a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 02-JUL-2008
Calibration Time: 11:32
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	356533	213920	499146	344490	-3.38
51 1,4-Difluorobenze	1324634	794780	1854488	1343190	1.40
72 Chlorobenzene-d5	1242028	745217	1738839	1247974	0.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/02Jul2008.b/g070209.d

Date : 02-JUL-2008 13:24

Client ID: Level 7

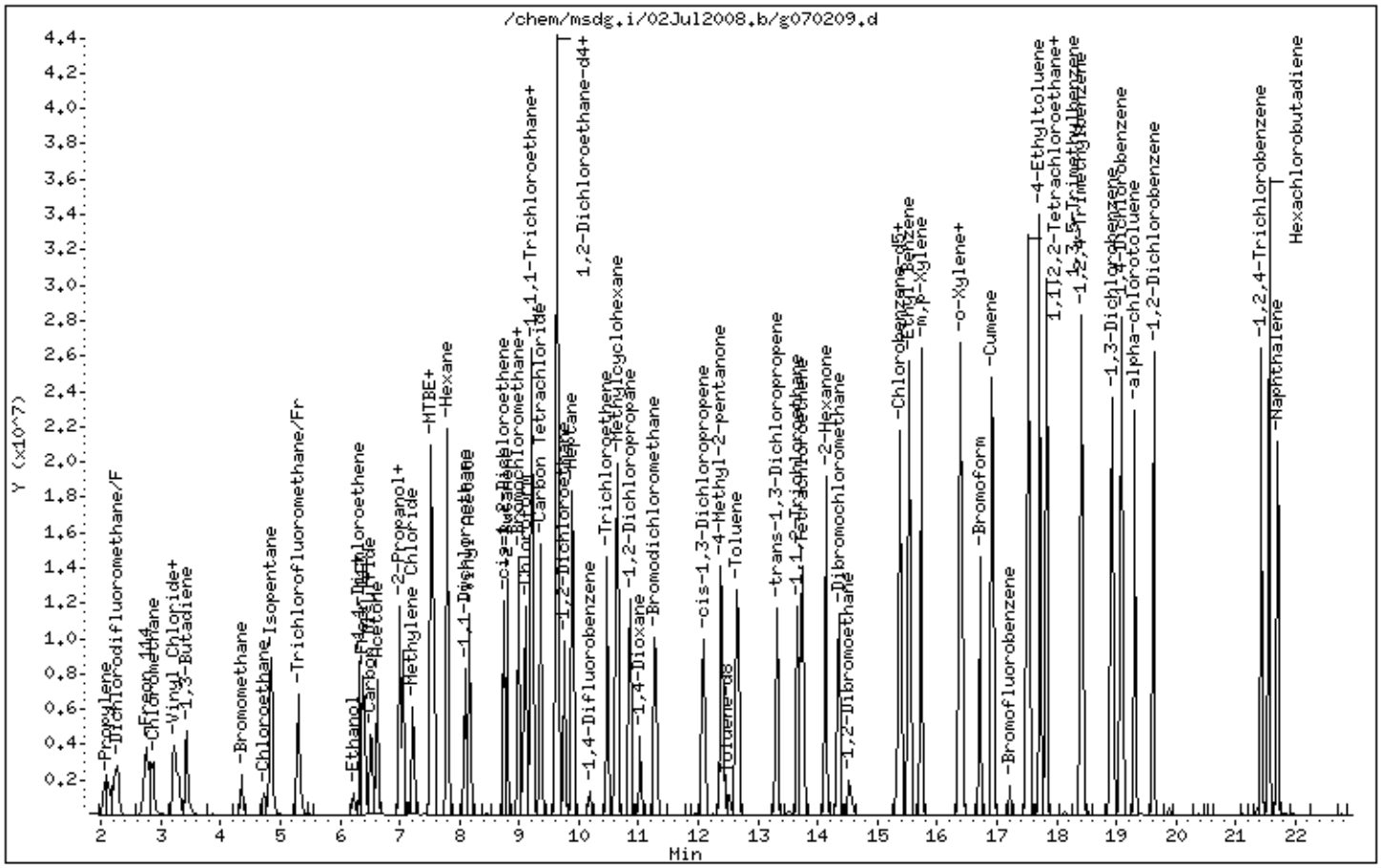
Instrument: msdg.i

Sample Info: 250mL #1612-36;ICAL;Level 7

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806543-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 11:12 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	97
Vinyl Chloride	105
Bromomethane	102
Chloroethane	101
Freon 11	107
1,1-Dichloroethene	99
Freon 113	91
Methylene Chloride	88
1,1-Dichloroethane	103
cis-1,2-Dichloroethene	106
Chloroform	102
1,1,1-Trichloroethane	109
Carbon Tetrachloride	120
Benzene	109
1,2-Dichloroethane	112
Trichloroethene	106
1,2-Dichloropropane	113
cis-1,3-Dichloropropene	118
Toluene	115
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	104
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	98
Chlorobenzene	104
Ethyl Benzene	109
m,p-Xylene	111
o-Xylene	112
Styrene	120
1,1,2,2-Tetrachloroethane	111
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	120
1,3-Dichlorobenzene	109
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	125
1,2-Dichlorobenzene	109
1,3-Butadiene	116
Hexane	109
Cyclohexane	112

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0806543-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 11:12 AM**	

Compound	%Recovery
Heptane	121
Bromodichloromethane	115
Dibromochloromethane	109
Cumene	118
Propylbenzene	117
Chloromethane	104
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	109
Acetone	107
Carbon Disulfide	99
2-Propanol	117
trans-1,2-Dichloroethene	78
2-Butanone (Methyl Ethyl Ketone)	106
Tetrahydrofuran	117
1,4-Dioxane	121
4-Methyl-2-pentanone	127
2-Hexanone	118
Bromoform	116
4-Ethyltoluene	118
Ethanol	92
Methyl tert-butyl ether	106
3-Chloropropene	100
2,2,4-Trimethylpentane	104
Naphthalene	117

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 07-JUL-2008 11:12
Lab File ID: g070702.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/08Jul2008.b/t14q702a.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 47 1,2-Dichloroethane-d4	1.91937	1.92286	0.010	-0.18178	30.00000	Averaged
$ 59 Toluene-d8	1.03377	1.14343	0.010	-10.60727	30.00000	Averaged
$ 81 Bromofluorobenzene	0.58091	0.57495	0.010	1.02471	30.00000	Averaged
4 Propylene	1.38441	1.42080	0.010	-2.62870	30.00000	Averaged
6 Dichlorodifluoromethane/Fr1	3.12081	3.22789	0.010	-3.43114	30.00000	Averaged
7 Freon 114	1.57325	1.53345	0.010	2.52954	30.00000	Averaged
8 Chloromethane	2.12923	2.22252	0.010	-4.38123	30.00000	Averaged
9 Vinyl Chloride	1.15642	1.21165	0.010	-4.77600	30.00000	Averaged
10 1,3-Butadiene	1.25434	1.45462	0.010	-15.96678	30.00000	Averaged
11 Bromomethane	0.56863	0.57738	0.010	-1.53762	30.00000	Averaged
13 Chloroethane	0.43183	0.43530	0.010	-0.80177	30.00000	Averaged
16 Trichlorofluoromethane/Fr11	3.76280	4.02872	0.010	-7.06701	30.00000	Averaged
17 Ethanol	0.69926	0.64456	0.010	7.82278	30.00000	Averaged
19 Freon 113	1.40429	1.28220	0.010	8.69400	30.00000	Averaged
18 1,1-Dichloroethene	0.60047	0.59453	0.010	0.98970	30.00000	Averaged
21 Acetone	3.73936	4.00310	0.010	-7.05309	30.00000	Averaged
24 2-Propanol	3.74741	4.38702	0.010	-17.06831	30.00000	Averaged
20 Carbon Disulfide	3.15345	3.11434	0.010	1.24019	30.00000	Averaged
28 Methylene Chloride	0.85907	0.75972	0.010	11.56527	30.00000	Averaged
29 MTBE	3.34823	3.53891	0.010	-5.69482	30.00000	Averaged
30 trans-1,2-Dichloroethene	0.80728	0.62955	0.010	22.01612	30.00000	Averaged
32 Hexane	2.86313	3.11006	0.010	-8.62440	30.00000	Averaged
33 1,1-Dichloroethane	2.93722	3.02224	0.010	-2.89477	30.00000	Averaged
37 2-Butanone	0.71848	0.76558	0.010	-6.55542	30.00000	Averaged
36 cis-1,2-Dichloroethene	0.85438	0.90626	0.010	-6.07176	30.00000	Averaged
38 Tetrahydrofuran	3.05813	3.58560	0.010	-17.24792	30.00000	Averaged
40 Chloroform	3.03655	3.10123	0.010	-2.13012	30.00000	Averaged
42 1,1,1-Trichloroethane	3.11769	3.38799	0.010	-8.67003	30.00000	Averaged
41 Cyclohexane	2.05887	2.31483	0.010	-12.43189	30.00000	Averaged
44 Carbon Tetrachloride	2.84631	3.41281	0.010	-19.90288	30.00000	Averaged
46 Benzene	1.15301	1.25452	0.010	-8.80394	30.00000	Averaged
48 1,2-Dichloroethane	0.70601	0.79293	0.010	-12.31032	30.00000	Averaged
49 Heptane	1.23504	1.49306	0.010	-20.89166	30.00000	Averaged
52 Trichloroethene	0.47256	0.50040	0.010	-5.89088	30.00000	Averaged
53 1,2-Dichloropropane	0.51157	0.57683	0.010	-12.75711	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 07-JUL-2008 11:12
Lab File ID: g070702.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/08Jul2008.b/t14q702a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF25	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
54 1,4-Dioxane	0.26125	0.31561	0.010	-20.80596	30.00000	Averaged
55 Bromodichloromethane	0.82928	0.95312	0.010	-14.93340	30.00000	Averaged
56 cis-1,3-Dichloropropene	0.61112	0.72153	0.010	-18.06557	30.00000	Averaged
58 4-Methyl-2-pentanone	1.60869	2.03787	0.010	-26.67906	30.00000	Averaged
60 Toluene	1.35442	1.55556	0.010	-14.85102	30.00000	Averaged
61 trans-1,3-Dichloropropene	0.72100	0.79045	0.010	-9.63228	30.00000	Averaged
63 1,1,2-Trichloroethane	0.52736	0.54736	0.010	-3.79178	30.00000	Averaged
64 Tetrachloroethene	0.67972	0.69844	0.010	-2.75279	30.00000	Averaged
67 2-Hexanone	0.70131	0.83096	0.010	-18.48696	30.00000	Averaged
68 Dibromochloromethane	0.84512	0.92070	0.010	-8.94289	30.00000	Averaged
69 1,2-Dibromoethane	0.23665	0.23217	0.010	1.89570	30.00000	Averaged
73 Chlorobenzene	1.33426	1.39181	0.010	-4.31368	30.00000	Averaged
74 Ethyl Benzene	0.69196	0.75238	0.010	-8.73166	30.00000	Averaged
75 m,p-Xylene	0.84950	0.94076	0.010	-10.74220	30.00000	Averaged
77 o-Xylene	0.79789	0.89649	0.010	-12.35795	30.00000	Averaged
78 Styrene	1.23364	1.48708	0.010	-20.54373	30.00000	Averaged
79 Bromoform	0.80302	0.93285	0.010	-16.16679	30.00000	Averaged
80 Cumene	2.26358	2.66277	0.010	-17.63518	30.00000	Averaged
82 1,1,2,2-Tetrachloroethane	1.38578	1.53622	0.010	-10.85582	30.00000	Averaged
83 Propylbenzene	2.99504	3.51396	0.010	-17.32611	30.00000	Averaged
84 4-Ethyltoluene	2.45625	2.90204	0.010	-18.14938	30.00000	Averaged
85 1,3,5-Trimethylbenzene	2.07118	2.37976	0.010	-14.89864	30.00000	Averaged
87 1,2,4-Trimethylbenzene	1.94441	2.34109	0.010	-20.40122	30.00000	Averaged
89 1,3-Dichlorobenzene	1.32478	1.44768	0.010	-9.27704	30.00000	Averaged
90 1,4-Dichlorobenzene	1.37250	1.48960	0.010	-8.53195	30.00000	Averaged
91 alpha-chlorotoluene	1.72308	2.16111	0.010	-25.42149	30.00000	Averaged
94 1,2-Dichlorobenzene	1.27376	1.38752	0.010	-8.93124	30.00000	Averaged
96 1,2,4-Trichlorobenzene	1.00766	1.13173	0.010	-12.31260	30.00000	Averaged
97 Hexachlorobutadiene	0.86530	0.94467	0.010	-9.17229	30.00000	Averaged
98 Naphthalene	2.03792	2.39210	0.010	-17.37917	30.00000	Averaged
25 3-Chloroprene	0.46456	0.46259	0.010	0.42481	30.00000	Averaged
45 2,2,4-Trimethylpentane	3.21714	3.36367	0.010	-4.55443	30.00000	Averaged
35 Vinyl Acetate	6.05743	6.73555	0.010	-11.19485	30.00000	Averaged
183 Butane	0.24835	0.27053	0.010	-8.93449	30.00000	Averaged
14 Isopentane	1.25434	1.33769	0.010	-6.64513	40.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdg.i Injection Date: 07-JUL-2008 11:12
Lab File ID: g070702.d Init. Cal. Date(s): 02-JUL-2008 02-JUL-2008
Analysis Type: AIR Init. Cal. Times: 08:28 13:24
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdg.i/08Jul2008.b/t14q702a.m

COMPOUND	RRF / AMOUNT	RF25	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Methylcyclohexane	2.85676	3.15689	0.010	-10.50598	40.00000	Averaged
179 tert-Butyl Alcohol	3.09173	3.82861	0.010	-23.83362	40.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/07Jul2008.b/g070702.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 07-JUL-2008 11:12
Operator : lmr Inst ID: msdg.i
Smp Info : 250ml #1612-47
Misc Info : 50ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/08Jul2008.b/t14q702a.m
Meth Date : 10-Jul-2008 08:10 dbailey Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.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
* 39 Bromochloromethane						CAS #: 74-97-5		
9.002	9.002 (1.000)	130	252957	10.0000		80.00- 120.00		100.00
9.002	9.002 (1.000)	128	193960			0.00- 30.00		76.68
9.002	9.002 (1.000)	49	636034			0.00- 30.00		251.44
* 51 1,4-Difluorobenzene						CAS #: 540-36-3		
10.186	10.186 (1.000)	114	943147	10.0000		80.00- 120.00		100.00
10.186	10.186 (1.000)	88	158102			0.00- 46.76		16.76
* 72 Chlorobenzene-d5						CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	952302	10.0000		80.00- 120.00		100.00
15.319	15.319 (1.000)	82	601118			0.00- 30.00		63.12
$ 47 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.668	9.668 (1.074)	65	486401	10.0000	10.018	80.00- 120.00		100.00
9.668	9.668 (1.074)	67	268963			0.00- 30.00		55.30
$ 59 Toluene-d8						CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1078420	10.0000	11.061	80.00- 120.00		100.00
12.499	12.499 (1.227)	70	133399			0.00- 42.37		12.37

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	686370			33.65- 93.65	63.65
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	547530	10.0000	9.898	80.00- 120.00	100.00
17.201	17.201 (1.123)	95	805847			117.18- 177.18	147.18
17.226	17.226 (1.125)	176	527985			66.43- 126.43	96.43
4 Propylene					CAS #: 115-07-1		
2.125	2.125 (0.236)	41	898504	25.0000	25.657	80.00- 120.00	100.00
2.125	2.125 (0.236)	42	609989			0.00- 30.00	67.89
2.125	2.125 (0.236)	39	692613			0.00- 30.00	77.09
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.294	2.294 (0.255)	85	2041296	25.0000	25.858	80.00- 120.00	100.00
2.294	2.294 (0.255)	87	649170			1.80- 61.80	31.80
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	969743	25.0000	24.368	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	356922			0.00- 30.00	36.81
2.752	2.752 (0.306)	85	1626267			0.00- 30.00	167.70
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1405504	25.0000	26.095	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	380125			0.00- 30.00	27.05
9 Vinyl Chloride					CAS #: 75-01-4		
3.308	3.308 (0.367)	62	766240	25.0000	26.194	80.00- 120.00	100.00
3.308	3.308 (0.367)	64	224706			0.00- 59.33	29.33
10 1,3-Butadiene					CAS #: 106-99-0		
3.430	3.430 (0.381)	54	919892	25.0000	28.992	80.00- 120.00	100.00
3.430	3.430 (0.381)	39	1166319			0.00- 30.00	126.79
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	365129	25.0000	25.384	80.00- 120.00	100.00
4.350	4.350 (0.483)	96	344574			64.37- 124.37	94.37
13 Chloroethane					CAS #: 75-00-3		
4.724	4.724 (0.525)	64	275278	25.0000	25.200	80.00- 120.00	100.00
4.724	4.724 (0.525)	49	128653			0.00- 30.00	46.74
4.724	4.724 (0.525)	66	83471			0.00- 30.00	30.32
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2547732	25.0000	26.767	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1624627			33.77- 93.77	63.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	407614	25.0000	23.044	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	85808			0.00- 30.00	21.05
6.225	6.225 (0.692)	46	152303			0.00- 30.00	37.36
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	810853	25.0000	22.826	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	520054			34.14- 94.14	64.14
6.390	6.390 (0.710)	101	1142010			0.00- 30.00	140.84
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	375976	25.0000	24.752	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	1694339			0.00- 30.00	450.65
6.335	6.335 (0.704)	96	583152			0.00- 30.00	155.10
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2531532	25.0000	26.763	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	496177			0.00- 30.00	19.60
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	2774323	25.0000	29.267	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	617488			0.00- 30.00	22.26
7.049	7.049 (0.783)	59	74375			0.00- 30.00	2.68
20 Carbon Disulfide					CAS #: 75-15-0		
6.500	6.500 (0.722)	76	1969489	25.0000	24.690	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	480440	25.0000	22.109	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1568794			296.53- 356.53	326.53
7.213	7.213 (0.801)	51	455519			0.00- 30.00	94.81
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	2237979	25.0000	26.424	80.00- 120.00	100.00
7.543	7.543 (0.838)	57	1099453			0.00- 30.00	49.13
7.543	7.543 (0.838)	41	1959647			0.00- 30.00	87.56
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	398123	25.0000	19.496	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1695501			0.00- 30.00	425.87
7.515	7.515 (0.835)	96	624846			0.00- 30.00	156.95
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	1966778	25.0000	27.156	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	1778717			0.00- 30.00	90.44
7.790	7.790 (0.865)	86	215088			0.00- 30.00	10.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	1911244	25.0000	25.724	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	576145			0.15- 60.15	30.15
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	484147	25.0000	26.639	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	3684148			730.96- 790.96	760.96
8.792	8.792 (0.977)	57	220492			0.00- 30.00	45.54
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.748	8.748 (0.972)	98	573112	25.0000	26.518	80.00- 120.00	100.00
8.748	8.748 (0.972)	61	1605956			250.22- 310.22	280.22
8.748	8.748 (0.972)	96	898584			126.79- 186.79	156.79
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2267506	25.0000	29.312	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	474841			0.00- 30.00	20.94
9.002	9.002 (1.000)	72	499257			0.00- 30.00	22.02
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	1961196	25.0000	25.532	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1246493			33.56- 93.56	63.56
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2142542	25.0000	27.168	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1377102			34.27- 94.27	64.27
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1463879	25.0000	28.108	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	2551234			0.00- 30.00	174.28
9.197	9.197 (1.022)	41	1865966			0.00- 30.00	127.47
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	2158236	25.0000	29.976	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2241022			73.84- 133.84	103.84
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	2957986	25.0000	27.201	80.00- 120.00	100.00
9.638	9.638 (0.946)	77	697362			0.00- 30.00	23.58
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	1869618	25.0000	28.078	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	570950			0.00- 30.00	30.54
49 Heptane					CAS #: 142-82-5		
9.872	9.872 (0.969)	43	3520442	25.0000	30.223	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.872	9.872 (0.969)	57	1364223			0.00- 30.00	38.75
9.872	9.872 (0.969)	100	296840			0.00- 30.00	8.43
52 Trichloroethene					CAS #: 79-01-6		
10.475	10.475 (1.028)	130	1179875	25.0000	26.473	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1289346			0.00- 30.00	109.28
10.475	10.475 (1.028)	97	831526			0.00- 30.00	70.48
53 1,2-Dichloropropane					CAS #: 78-87-5		
10.861	10.861 (1.066)	63	1360084	25.0000	28.189	80.00- 120.00	100.00
10.861	10.861 (1.066)	62	968653			41.22- 101.22	71.22
10.861	10.861 (1.066)	41	1255719			62.33- 122.33	92.33
54 1,4-Dioxane					CAS #: 123-91-1		
11.029	11.029 (1.083)	88	744158	25.0000	30.201	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	741267			69.61- 129.61	99.61
11.029	11.029 (1.083)	57	254114			0.00- 30.00	34.15
55 Bromodichloromethane					CAS #: 75-27-4		
11.270	11.270 (1.106)	83	2247320	25.0000	28.733	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1412316			32.84- 92.84	62.84
56 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.089	12.089 (1.187)	75	1701265	25.0000	29.516	80.00- 120.00	100.00
12.089	12.089 (1.187)	77	532800			1.32- 61.32	31.32
12.089	12.089 (1.187)	39	1550988			61.17- 121.17	91.17
58 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.379	12.379 (1.215)	43	4805027	25.0000	31.670	80.00- 120.00	100.00
12.379	12.379 (1.215)	58	1324490			0.00- 30.00	27.56
12.379	12.379 (1.215)	85	408298			0.00- 30.00	8.50
60 Toluene					CAS #: 108-88-3		
12.644	12.644 (1.241)	91	3667817	25.0000	28.713	80.00- 120.00	100.00
12.644	12.644 (1.241)	92	2122223			27.86- 87.86	57.86
61 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.308	13.308 (0.869)	75	1881869	25.0000	27.408	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	588293			1.26- 61.26	31.26
13.308	13.308 (0.869)	39	1587668			54.37- 114.37	84.37
63 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.665	13.665 (0.892)	97	1303131	25.0000	25.948	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	803448			31.66- 91.66	61.66
13.665	13.665 (0.892)	83	1170840			59.85- 119.85	89.85

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene						CAS #: 127-18-4	
13.747	13.747 (0.897)	166	1662803	25.0000	25.688	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1283434			47.18- 107.18	77.18
13.747	13.747 (0.897)	131	1228086			43.86- 103.86	73.86
67 2-Hexanone						CAS #: 591-78-6	
14.132	14.132 (0.922)	58	1978318	25.0000	29.622	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	5147735			230.21- 290.21	260.21
14.132	14.132 (0.922)	100	264618			0.00- 30.00	13.38
68 Dibromochloromethane						CAS #: 124-48-1	
14.352	14.352 (0.937)	129	2191955	25.0000	27.236	80.00- 120.00	100.00
14.352	14.352 (0.937)	208	109300			0.00- 30.00	4.99
69 1,2-Dibromoethane						CAS #: 106-93-4	
14.516	14.516 (0.948)	107	552731	25.0000	24.526	80.00- 120.00	100.00
14.516	14.516 (0.948)	109	503843			61.16- 121.16	91.16
73 Chlorobenzene						CAS #: 108-90-7	
15.370	15.370 (1.003)	112	3313566	25.0000	26.078	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	1058099			1.93- 61.93	31.93
15.370	15.370 (1.003)	77	2108739			33.64- 93.64	63.64
74 Ethyl Benzene						CAS #: 100-41-4	
15.525	15.525 (1.013)	106	1791240	25.0000	27.183	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	5811839			0.00- 30.00	324.46
75 m,p-Xylene						CAS #: 108-38-3	
15.731	15.731 (1.027)	106	2239710	25.0000	27.686	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	4623549			0.00- 30.00	206.44
77 o-Xylene						CAS #: 95-47-6	
16.376	16.376 (1.069)	106	2134318	25.0000	28.089	80.00- 120.00	100.00
16.376	16.376 (1.069)	91	4683849			189.45- 249.45	219.45
78 Styrene						CAS #: 100-42-5	
16.401	16.401 (1.071)	104	3540371	25.0000	30.136	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	1941952			24.85- 84.85	54.85
79 Bromoform						CAS #: 75-25-2	
16.711	16.711 (1.091)	173	2220877	25.0000	29.042	80.00- 120.00	100.00
16.711	16.711 (1.091)	171	1125351			0.00- 30.00	50.67
80 Cumene						CAS #: 98-82-8	
16.917	16.917 (1.104)	105	6339399	25.0000	29.409	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1657480			0.00- 56.15	26.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3657354	25.0000	27.714	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2285921			32.50- 92.50	62.50
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	8365879	25.0000	29.332	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1780045			0.00- 30.00	21.28
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	6909054	25.0000	29.537	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	2023634			0.00- 59.29	29.29
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.820	17.820 (1.163)	105	5665628	25.0000	28.725	80.00- 120.00	100.00
17.820	17.820 (1.163)	120	2644952			16.68- 76.68	46.68
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	5573561	25.0000	30.100	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2449810			13.95- 73.95	43.95
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.929	18.929 (1.236)	146	3446576	25.0000	27.319	80.00- 120.00	100.00
18.929	18.929 (1.236)	148	2209511			0.00- 30.00	64.11
18.929	18.929 (1.236)	111	1526657			0.00- 30.00	44.29
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3546363	25.0000	27.133	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	2224690			0.00- 30.00	62.73
19.083	19.083 (1.246)	111	1480205			0.00- 30.00	41.74
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.316	19.316 (1.261)	91	5145075	25.0000	31.355	80.00- 120.00	100.00
19.316	19.316 (1.261)	126	957746			0.00- 30.00	18.61
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	3303349	25.0000	27.233	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	2092764			33.35- 93.35	63.35
19.625	19.625 (1.281)	111	1497231			15.32- 75.32	45.32
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	2694376	25.0000	28.078	80.00- 120.00	100.00
21.430	21.430 (1.399)	182	2555564			64.85- 124.85	94.85
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2249017	25.0000	27.293	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1417905			0.00- 30.00	63.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	5694998	25.0000	29.345	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	701261			0.00- 30.00	12.31
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	292537	25.0000	24.894	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2244088			0.00- 30.00	767.11
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	2127158	25.0000	26.139	80.00- 120.00	100.00
9.638	9.638 (1.071)	99	236803			0.00- 30.00	11.13
9.638	9.638 (1.071)	41	2323943			0.00- 30.00	109.25
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	4259512	25.0000	27.799	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	368673			0.00- 30.00	8.66
8.174	8.174 (0.908)	86	194570			0.00- 30.00	4.57
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	171084	25.0000	27.234	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	1919532			0.00- 30.00	1121.98
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	845945	25.0000	26.661	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	1698612			0.00- 30.00	200.79
4.827	4.827 (0.536)	42	1482570			0.00- 30.00	175.26
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	1996394	25.0000	27.626	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	885761			0.00- 30.00	44.37
10.644	10.644 (1.182)	55	2403076			0.00- 30.00	120.37
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2421183	25.0000	30.958	80.00- 120.00	100.00
7.543	7.543 (0.838)	41	1959647			0.00- 30.00	80.94
7.543	7.543 (0.838)	57	1099453			0.00- 30.00	45.41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070702.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/08Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

Calibration Date: 08-JUL-2008
Calibration Time: 09:45
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	282758	169655	395861	252957	-10.54
51 1,4-Difluorobenze	1057162	634297	1480027	943147	-10.79
72 Chlorobenzene-d5	926913	556148	1297678	952302	2.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/07Jul2008.b/g070702.d

Date : 07-JUL-2008 11:12

Client ID: CCV-1

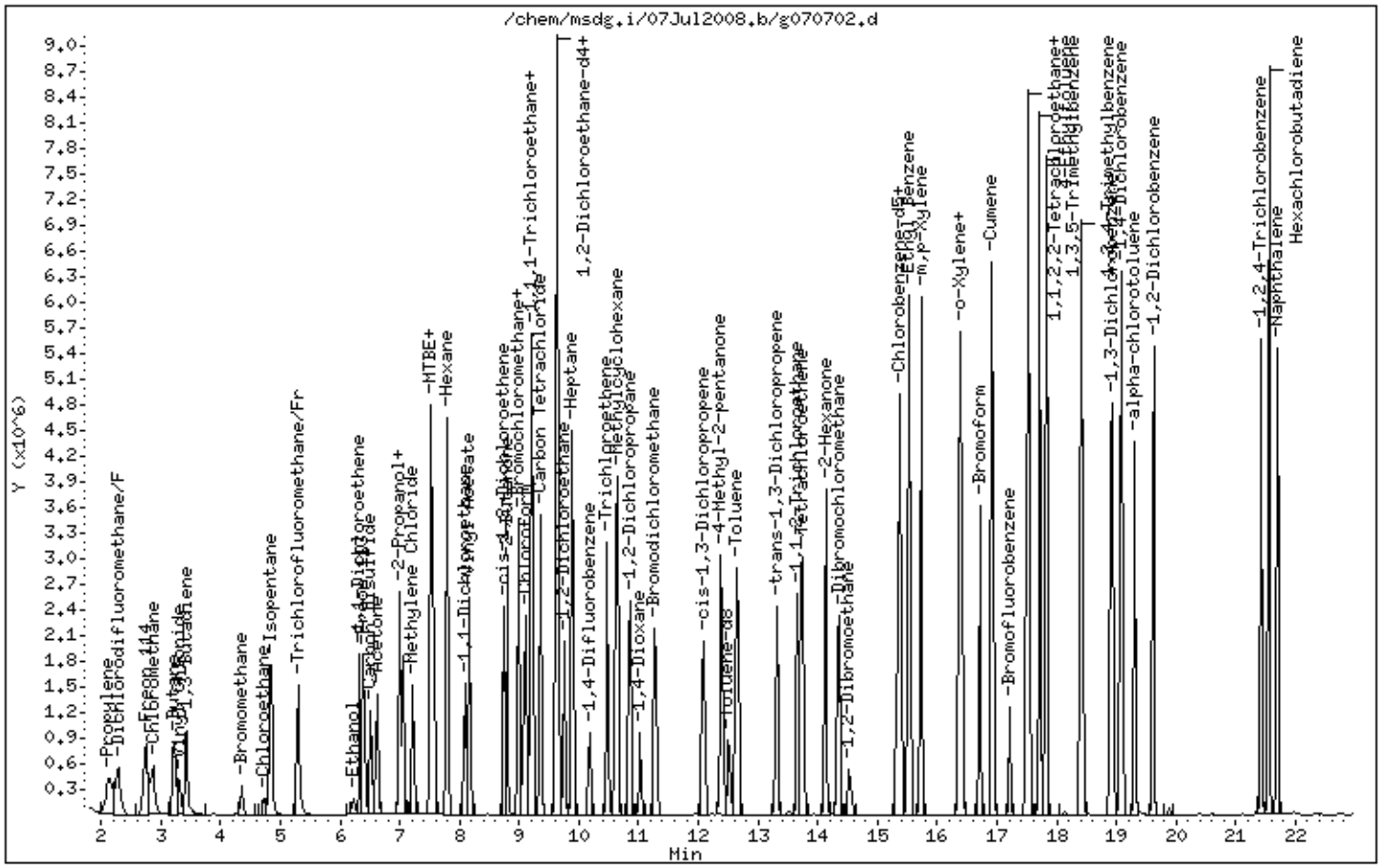
Instrument: msdg.i

Sample Info: 250ml #1612-47

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806543-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 12:52 PM**	

Compound	%Recovery
Freon 12	99
Freon 114	102
Vinyl Chloride	102
Bromomethane	107
Chloroethane	99
Freon 11	99
1,1-Dichloroethene	103
Freon 113	94
Methylene Chloride	88
1,1-Dichloroethane	102
cis-1,2-Dichloroethene	102
Chloroform	100
1,1,1-Trichloroethane	100
Carbon Tetrachloride	107
Benzene	104
1,2-Dichloroethane	107
Trichloroethene	100
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	109
Toluene	109
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	96
Tetrachloroethene	95
1,2-Dibromoethane (EDB)	86
Chlorobenzene	93
Ethyl Benzene	97
m,p-Xylene	99
o-Xylene	100
Styrene	107
1,1,2,2-Tetrachloroethane	98
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	95
1,3-Butadiene	103
Hexane	108
Cyclohexane	101

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0806543-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**g070703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/08 12:52 PM**	

Compound	%Recovery
Heptane	114
Bromodichloromethane	107
Dibromochloromethane	101
Cumene	108
Propylbenzene	105
Chloromethane	103
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	99
Acetone	104
Carbon Disulfide	91
2-Propanol	106
trans-1,2-Dichloroethene	74
2-Butanone (Methyl Ethyl Ketone)	101
Tetrahydrofuran	110
1,4-Dioxane	104
4-Methyl-2-pentanone	115
2-Hexanone	104
Bromoform	102
4-Ethyltoluene	106
Ethanol	96
Methyl tert-butyl ether	96
3-Chloropropene	95
2,2,4-Trimethylpentane	101
Naphthalene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	101	70-130

Report Date: 07-Jul-2008 13:05

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 07Jul2008
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msdg.i/07Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
6 Dichlorodifluorome	25.000	24.825	99.30	70-130
7 Freon 114	25.000	25.592	102.37	70-130
8 Chloromethane	25.000	25.655	102.62	70-130
9 Vinyl Chloride	25.000	25.612	102.45	70-130
10 1,3-Butadiene	25.000	25.707	102.83	60-140
11 Bromomethane	25.000	26.724	106.90	70-130
13 Chloroethane	25.000	24.865	99.46	70-130
16 Trichlorofluoromet	25.000	24.850	99.40	70-130
17 Ethanol	25.000	24.138	96.55	60-140
19 Freon 113	25.000	23.427	93.71	70-130
18 1,1-Dichloroethene	25.000	25.666	102.66	70-130
21 Acetone	25.000	25.946	103.79	60-140
20 Carbon Disulfide	25.000	22.735	90.94	60-140
24 2-Propanol	25.000	26.551	106.21	60-140
28 Methylene Chloride	25.000	21.879	87.52	70-130
29 MTBE	25.000	24.087	96.35	60-140
30 trans-1,2-Dichloro	25.000	18.468	73.87	60-140
32 Hexane	25.000	26.932	107.73	60-140
33 1,1-Dichloroethane	25.000	25.549	102.20	70-130
36 cis-1,2-Dichloroet	25.000	25.398	101.59	70-130
37 2-Butanone	25.000	25.220	100.88	60-140
38 Tetrahydrofuran	25.000	27.452	109.81	60-140
40 Chloroform	25.000	24.982	99.93	70-130
41 Cyclohexane	25.000	25.281	101.12	60-140
42 1,1,1-Trichloroeth	25.000	25.044	100.18	70-130
44 Carbon Tetrachlori	25.000	26.671	106.69	70-130
46 Benzene	25.000	25.875	103.50	70-130
49 Heptane	25.000	28.436	113.75	60-140
48 1,2-Dichloroethane	25.000	26.665	106.66	70-130
52 Trichloroethene	25.000	25.040	100.16	70-130
53 1,2-Dichloropropan	25.000	26.208	104.83	70-130
54 1,4-Dioxane	25.000	25.959	103.84	60-140
55 Bromodichlorometha	25.000	26.862	107.45	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
56 cis-1,3-Dichloropr	25.000	27.204	108.82	70-130
58 4-Methyl-2-pentano	25.000	28.794	115.18	60-140
60 Toluene	25.000	27.241	108.97	70-130
61 trans-1,3-Dichloro	25.000	25.100	100.40	70-130
63 1,1,2-Trichloroeth	25.000	23.899	95.60	70-130
67 2-Hexanone	25.000	26.085	104.34	60-140
64 Tetrachloroethene	25.000	23.805	95.22	70-130
68 Dibromochlorometha	25.000	25.360	101.44	60-140
69 1,2-Dibromoethane	25.000	21.376	85.50	70-130
73 Chlorobenzene	25.000	23.231	92.92	70-130
74 Ethyl Benzene	25.000	24.166	96.66	70-130
75 m,p-Xylene	25.000	24.870	99.48	70-130
77 o-Xylene	25.000	25.147	100.59	70-130
78 Styrene	25.000	26.702	106.81	70-130
79 Bromoform	25.000	25.458	101.83	60-140
80 Cumene	25.000	27.007	108.03	60-140
82 1,1,2,2-Tetrachlor	25.000	24.472	97.89	70-130
83 Propylbenzene	25.000	26.304	105.22	60-140
84 4-Ethyltoluene	25.000	26.604	106.42	60-140
85 1,3,5-Trimethylben	25.000	25.455	101.82	70-130
87 1,2,4-Trimethylben	25.000	26.531	106.12	70-130
89 1,3-Dichlorobenzen	25.000	24.593	98.37	70-130
90 1,4-Dichlorobenzen	25.000	23.851	95.40	70-130
91 alpha-chlorotoluen	25.000	28.259	113.04	70-130
94 1,2-Dichlorobenzen	25.000	23.828	95.31	70-130
96 1,2,4-Trichloroben	25.000	26.924	107.69	70-130
97 Hexachlorobutadien	25.000	24.852	99.41	60-130
98 Naphthalene	25.000	28.626	114.50	60-140
25 3-Chloroprene	25.000	23.703	94.81	60-140
45 2,2,4-Trimethylpen	25.000	25.206	100.82	60-140
179 tert-Butyl Alcohol	25.000	27.692	110.77	60-140
183 Butane	25.000	27.049	108.20	60-140
14 Isopentane	25.000	26.276	105.11	60-140
2 Methylcyclohexane	25.000	25.177	100.71	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 47 1,2-Dichloroethane	10.000	9.960	99.60	70-130
$ 59 Toluene-d8	10.000	10.635	106.35	70-130
$ 81 Bromofluorobenzene	10.000	10.090	100.90	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdg.i/07Jul2008.b/g070703.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 07-JUL-2008 12:52
Operator : lmr Inst ID: msdg.i
Smp Info : 250ml #1541-153;LCS-1;LCS-1
Misc Info : 50ppbv -> 25ppbv
Comment :
Method : /chem/msdg.i/07Jul2008.b/t14q702a.m
Meth Date : 07-Jul-2008 12:51 tsanfel Quant Type: ISTD
Cal Date : 02-JUL-2008 13:24 Cal File: g070209.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
* 39 Bromochloromethane					CAS #: 74-97-5		
9.002	9.002 (1.000)	130	257148	10.0000		80.00- 120.00	100.00
9.002	9.002 (1.000)	128	195553			0.00- 30.00	76.05
9.002	9.002 (1.000)	49	648637			0.00- 30.00	252.24
* 51 1,4-Difluorobenzene					CAS #: 540-36-3		
10.186	10.186 (1.000)	114	961701	10.0000		80.00- 120.00	100.00
10.186	10.186 (1.000)	88	156647			0.00- 46.76	16.29
* 72 Chlorobenzene-d5					CAS #: 3114-55-4		
15.319	15.319 (1.000)	117	954919	10.0000		80.00- 120.00	100.00
15.319	15.319 (1.000)	82	607961			0.00- 30.00	63.67
$ 47 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.667	9.668 (1.074)	65	491602	9.96027	9.960	80.00- 120.00	100.00
9.667	9.668 (1.074)	67	272308			0.00- 30.00	55.39
$ 59 Toluene-d8					CAS #: 2037-26-5		
12.499	12.499 (1.227)	98	1057279	10.6347	10.635	80.00- 120.00	100.00
12.499	12.499 (1.227)	70	126033			0.00- 42.37	11.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 59 Toluene-d8 (continued)							
12.499	12.499 (1.227)	100	690667			33.65- 93.65	65.32
$ 81 Bromofluorobenzene					CAS #: 460-00-4		
17.226	17.226 (1.125)	174	559722	10.0902	10.090	80.00- 120.00	100.00
17.200	17.226 (1.123)	95	826907			117.18- 177.18	147.74
17.226	17.226 (1.125)	176	543583			66.43- 126.43	97.12
4 Propylene					CAS #: 115-07-1		
2.101	2.125 (0.233)	41	964710	27.0987	27.099	80.00- 120.00	100.00
2.101	2.125 (0.233)	42	643829			0.00- 30.00	66.74
2.101	2.125 (0.233)	39	720568			0.00- 30.00	74.69
6 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.245	2.294 (0.249)	85	1992228	24.8249	24.825	80.00- 120.00	100.00
2.245	2.294 (0.249)	87	632033			1.80- 61.80	31.72
7 Freon 114					CAS #: 76-14-2		
2.752	2.752 (0.306)	135	1035353	25.5922	25.592	80.00- 120.00	100.00
2.752	2.752 (0.306)	137	313843			0.00- 30.00	30.31
2.752	2.752 (0.306)	85	1789925			0.00- 30.00	172.88
8 Chloromethane					CAS #: 74-87-3		
2.872	2.872 (0.319)	50	1404690	25.6551	25.655	80.00- 120.00	100.00
2.872	2.872 (0.319)	52	399144			0.00- 30.00	28.42
9 Vinyl Chloride					CAS #: 75-01-4		
3.291	3.308 (0.366)	62	761618	25.6117	25.612	80.00- 120.00	100.00
3.291	3.308 (0.366)	64	223914			0.00- 59.33	29.40
10 1,3-Butadiene					CAS #: 106-99-0		
3.412	3.430 (0.379)	54	829193	25.7073	25.707	80.00- 120.00	100.00
3.412	3.430 (0.379)	39	942791			0.00- 30.00	113.70
11 Bromomethane					CAS #: 74-83-9		
4.350	4.350 (0.483)	94	390771	26.7243	26.724	80.00- 120.00	100.00
4.350	4.350 (0.483)	96	370862			64.37- 124.37	94.91
13 Chloroethane					CAS #: 75-00-3		
4.723	4.724 (0.525)	64	276112	24.8648	24.865	80.00- 120.00	100.00
4.723	4.724 (0.525)	49	124955			0.00- 30.00	45.26
4.723	4.724 (0.525)	66	83312			0.00- 30.00	30.17
16 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
5.304	5.304 (0.589)	101	2404466	24.8499	24.850	80.00- 120.00	100.00
5.304	5.304 (0.589)	103	1285339			33.77- 93.77	53.46

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
17 Ethanol					CAS #: 64-17-5		
6.225	6.225 (0.692)	45	434030	24.1378	24.138	80.00- 120.00	100.00
6.225	6.225 (0.692)	43	101750			0.00- 30.00	23.44
6.225	6.225 (0.692)	46	164709			0.00- 30.00	37.95
19 Freon 113					CAS #: 76-13-1		
6.390	6.390 (0.710)	151	845981	23.4273	23.427	80.00- 120.00	100.00
6.390	6.390 (0.710)	153	541374			34.14- 94.14	63.99
6.390	6.390 (0.710)	101	1213604			0.00- 30.00	143.46
18 1,1-Dichloroethene					CAS #: 75-35-4		
6.335	6.335 (0.704)	98	396309	25.6660	25.666	80.00- 120.00	100.00
6.335	6.335 (0.704)	61	1779859			0.00- 30.00	449.11
6.335	6.335 (0.704)	96	615412			0.00- 30.00	155.29
21 Acetone					CAS #: 67-64-1		
6.637	6.637 (0.737)	43	2494934	25.9465	25.946	80.00- 120.00	100.00
6.637	6.637 (0.737)	58	505028			0.00- 30.00	20.24
24 2-Propanol					CAS #: 67-63-0		
7.049	7.049 (0.783)	45	2558590	26.5514	26.551	80.00- 120.00	100.00
7.049	7.049 (0.783)	43	564967			0.00- 30.00	22.08
7.049	7.049 (0.783)	59	70120			0.00- 30.00	2.74
20 Carbon Disulfide					CAS #: 75-15-0		
6.499	6.500 (0.722)	76	1843611	22.7353	22.735	80.00- 120.00	100.00
28 Methylene Chloride					CAS #: 75-09-2		
7.213	7.213 (0.801)	84	483324	21.8789	21.879	80.00- 120.00	100.00
7.213	7.213 (0.801)	49	1557272			296.53- 356.53	322.20
7.213	7.213 (0.801)	51	446819			0.00- 30.00	92.45
29 MTBE					CAS #: 1634-04-4		
7.515	7.515 (0.835)	73	2073860	24.0869	24.087	80.00- 120.00	100.00
7.543	7.515 (0.838)	57	1017117			0.00- 30.00	49.04
7.543	7.515 (0.838)	41	1773536			0.00- 30.00	85.52
30 trans-1,2-Dichloroethene					CAS #: 156-60-5		
7.515	7.515 (0.835)	98	383380	18.4680	18.468	80.00- 120.00	100.00
7.515	7.515 (0.835)	61	1601079			0.00- 30.00	417.62
7.515	7.515 (0.835)	96	606822			0.00- 30.00	158.28
32 Hexane					CAS #: 110-54-3		
7.790	7.790 (0.865)	57	1982892	26.9324	26.932	80.00- 120.00	100.00
7.790	7.790 (0.865)	43	1779102			0.00- 30.00	89.72
7.790	7.790 (0.865)	86	216820			0.00- 30.00	10.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
33 1,1-Dichloroethane					CAS #: 75-34-3		
8.092	8.092 (0.899)	63	1929716	25.5490	25.549	80.00- 120.00	100.00
8.092	8.092 (0.899)	65	578638			0.15- 60.15	29.99
37 2-Butanone					CAS #: 78-93-3		
8.792	8.792 (0.977)	72	465948	25.2197	25.220	80.00- 120.00	100.00
8.792	8.792 (0.977)	43	3638862			730.96- 790.96	780.96
8.792	8.792 (0.977)	57	215270			0.00- 30.00	46.20
36 cis-1,2-Dichloroethene					CAS #: 156-59-2		
8.747	8.748 (0.972)	98	558011	25.3984	25.398	80.00- 120.00	100.00
8.747	8.748 (0.972)	61	1570455			250.22- 310.22	281.44
8.747	8.748 (0.972)	96	872231			126.79- 186.79	156.31
38 Tetrahydrofuran					CAS #: 109-99-9		
9.002	9.002 (1.000)	42	2158772	27.4516	27.452	80.00- 120.00	100.00
9.002	9.002 (1.000)	71	446499			0.00- 30.00	20.68
9.002	9.002 (1.000)	72	474197			0.00- 30.00	21.97
40 Chloroform					CAS #: 67-66-3		
9.099	9.099 (1.011)	83	1950698	24.9820	24.982	80.00- 120.00	100.00
9.099	9.099 (1.011)	85	1236654			33.56- 93.56	63.40
42 1,1,1-Trichloroethane					CAS #: 71-55-6		
9.229	9.229 (1.025)	97	2007843	25.0446	25.044	80.00- 120.00	100.00
9.229	9.229 (1.025)	99	1276146			34.27- 94.27	63.56
41 Cyclohexane					CAS #: 110-82-7		
9.197	9.197 (1.022)	84	1338449	25.2808	25.281	80.00- 120.00	100.00
9.197	9.197 (1.022)	56	2336331			0.00- 30.00	174.56
9.197	9.197 (1.022)	41	1722021			0.00- 30.00	128.66
44 Carbon Tetrachloride					CAS #: 56-23-5		
9.359	9.359 (1.040)	119	1952139	26.6714	26.671	80.00- 120.00	100.00
9.359	9.359 (1.040)	117	2037244			73.84- 133.84	104.36
46 Benzene					CAS #: 71-43-2		
9.638	9.638 (0.946)	78	2869135	25.8749	25.875	80.00- 120.00	100.00
9.638	9.638 (0.946)	77	674098			0.00- 30.00	23.49
48 1,2-Dichloroethane					CAS #: 107-06-2		
9.755	9.755 (0.958)	62	1810474	26.6648	26.665	80.00- 120.00	100.00
9.755	9.755 (0.958)	64	554190			0.00- 30.00	30.61
49 Heptane					CAS #: 142-82-5		
9.871	9.872 (0.969)	43	3377489	28.4363	28.436	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
49 Heptane (continued)							
9.871	9.872 (0.969)	57	1321306			0.00- 30.00	39.12
9.871	9.872 (0.969)	100	286392			0.00- 30.00	8.48
52 Trichloroethene						CAS #: 79-01-6	
10.475	10.475 (1.028)	130	1137964	25.0398	25.040	80.00- 120.00	100.00
10.475	10.475 (1.028)	95	1223503			0.00- 30.00	107.52
10.475	10.475 (1.028)	97	782774			0.00- 30.00	68.79
53 1,2-Dichloropropane						CAS #: 78-87-5	
10.860	10.861 (1.066)	63	1289383	26.2083	26.208	80.00- 120.00	100.00
10.860	10.861 (1.066)	62	919119			41.22- 101.22	71.28
10.860	10.861 (1.066)	41	1164718			62.33- 122.33	90.33
54 1,4-Dioxane						CAS #: 123-91-1	
11.029	11.029 (1.083)	88	652206	25.9590	25.959	80.00- 120.00	100.00
11.029	11.029 (1.083)	58	645330			69.61- 129.61	98.95
11.029	11.029 (1.083)	57	218406			0.00- 30.00	33.49
55 Bromodichloromethane						CAS #: 75-27-4	
11.270	11.270 (1.106)	83	2142313	26.8623	26.862	80.00- 120.00	100.00
11.270	11.270 (1.106)	85	1320643			32.84- 92.84	61.65
56 cis-1,3-Dichloropropene						CAS #: 10061-01-5	
12.089	12.089 (1.187)	75	1598825	27.2039	27.204	80.00- 120.00	100.00
12.089	12.089 (1.187)	77	499699			1.32- 61.32	31.25
12.089	12.089 (1.187)	39	1466333			61.17- 121.17	91.71
58 4-Methyl-2-pentanone						CAS #: 108-10-1	
12.378	12.379 (1.215)	43	4454725	28.7945	28.794	80.00- 120.00	100.00
12.378	12.379 (1.215)	58	1218251			0.00- 30.00	27.35
12.378	12.379 (1.215)	85	376088			0.00- 30.00	8.44
60 Toluene						CAS #: 108-88-3	
12.643	12.644 (1.241)	91	3548328	27.2415	27.241	80.00- 120.00	100.00
12.643	12.644 (1.241)	92	2080235			27.86- 87.86	58.63
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6	
13.308	13.308 (0.869)	75	1728125	25.0999	25.100	80.00- 120.00	100.00
13.308	13.308 (0.869)	77	543410			1.26- 61.26	31.45
13.308	13.308 (0.869)	39	1470359			54.37- 114.37	85.08
63 1,1,2-Trichloroethane						CAS #: 79-00-5	
13.665	13.665 (0.892)	97	1203520	23.8988	23.899	80.00- 120.00	100.00
13.665	13.665 (0.892)	99	746314			31.66- 91.66	62.01
13.665	13.665 (0.892)	83	1083100			59.85- 119.85	89.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
64 Tetrachloroethene					CAS #: 127-18-4		
13.747	13.747 (0.897)	166	1545119	23.8047	23.805	80.00- 120.00	100.00
13.747	13.747 (0.897)	129	1209019			47.18- 107.18	78.25
13.747	13.747 (0.897)	131	1153228			43.86- 103.86	74.64
67 2-Hexanone					CAS #: 591-78-6		
14.132	14.132 (0.922)	58	1746891	26.0849	26.085	80.00- 120.00	100.00
14.132	14.132 (0.922)	43	4534759			230.21- 290.21	259.59
14.132	14.132 (0.922)	100	236330			0.00- 30.00	13.53
68 Dibromochloromethane					CAS #: 124-48-1		
14.351	14.352 (0.937)	129	2046610	25.3601	25.360	80.00- 120.00	100.00
14.351	14.352 (0.937)	208	105910			0.00- 30.00	5.17
69 1,2-Dibromoethane					CAS #: 106-93-4		
14.516	14.516 (0.948)	107	483055	21.3756	21.376	80.00- 120.00	100.00
14.516	14.516 (0.948)	109	459046			61.16- 121.16	95.03
73 Chlorobenzene					CAS #: 108-90-7		
15.370	15.370 (1.003)	112	2959857	23.2308	23.231	80.00- 120.00	100.00
15.370	15.370 (1.003)	114	962464			1.93- 61.93	32.52
15.370	15.370 (1.003)	77	1927976			33.64- 93.64	65.14
74 Ethyl Benzene					CAS #: 100-41-4		
15.525	15.525 (1.013)	106	1596815	24.1660	24.166	80.00- 120.00	100.00
15.525	15.525 (1.013)	91	5193666			0.00- 30.00	325.25
75 m,p-Xylene					CAS #: 108-38-3		
15.731	15.731 (1.027)	106	2017437	24.8696	24.870	80.00- 120.00	100.00
15.731	15.731 (1.027)	91	4160768			0.00- 30.00	206.24
77 o-Xylene					CAS #: 95-47-6		
16.375	16.376 (1.069)	106	1915997	25.1471	25.147	80.00- 120.00	100.00
16.375	16.376 (1.069)	91	4202709			189.45- 249.45	219.35
78 Styrene					CAS #: 100-42-5		
16.401	16.401 (1.071)	104	3145529	26.7016	26.702	80.00- 120.00	100.00
16.401	16.401 (1.071)	78	1741294			24.85- 84.85	55.36
79 Bromoform					CAS #: 75-25-2		
16.710	16.711 (1.091)	173	1952176	25.4580	25.458	80.00- 120.00	100.00
16.710	16.711 (1.091)	171	1010000			0.00- 30.00	51.74
80 Cumene					CAS #: 98-82-8		
16.917	16.917 (1.104)	105	5837722	27.0073	27.007	80.00- 120.00	100.00
16.917	16.917 (1.104)	120	1526851			0.00- 56.15	26.15

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
82 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
17.484	17.484 (1.141)	83	3238380	24.4719	24.472	80.00- 120.00	100.00
17.484	17.484 (1.141)	85	2043639			32.50- 92.50	63.11
83 Propylbenzene					CAS #: 103-65-1		
17.536	17.536 (1.145)	91	7523007	26.3041	26.304	80.00- 120.00	100.00
17.536	17.536 (1.145)	120	1621383			0.00- 30.00	21.55
84 4-Ethyltoluene					CAS #: 622-96-8		
17.716	17.716 (1.157)	105	6240050	26.6041	26.604	80.00- 120.00	100.00
17.716	17.716 (1.157)	120	1823066			0.00- 59.29	29.22
85 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.819	17.820 (1.163)	105	5034506	25.4549	25.455	80.00- 120.00	100.00
17.819	17.820 (1.163)	120	2369764			16.68- 76.68	47.07
87 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
18.413	18.413 (1.202)	105	4926082	26.5307	26.531	80.00- 120.00	100.00
18.413	18.413 (1.202)	120	2163737			13.95- 73.95	43.92
89 1,3-Dichlorobenzene					CAS #: 541-73-1		
18.928	18.929 (1.236)	146	3111126	24.5927	24.593	80.00- 120.00	100.00
18.928	18.929 (1.236)	148	1971725			0.00- 30.00	63.38
18.928	18.929 (1.236)	111	1360072			0.00- 30.00	43.72
90 1,4-Dichlorobenzene					CAS #: 106-46-7		
19.083	19.083 (1.246)	146	3125923	23.8507	23.851	80.00- 120.00	100.00
19.083	19.083 (1.246)	148	1966650			0.00- 30.00	62.91
19.083	19.083 (1.246)	111	1327564			0.00- 30.00	42.47
91 alpha-chlorotoluene					CAS #: 100-44-7		
19.315	19.316 (1.261)	91	4649813	28.2595	28.259	80.00- 120.00	100.00
19.315	19.316 (1.261)	126	857074			0.00- 30.00	18.43
94 1,2-Dichlorobenzene					CAS #: 95-50-1		
19.625	19.625 (1.281)	146	2898289	23.8280	23.828	80.00- 120.00	100.00
19.625	19.625 (1.281)	148	1824106			33.35- 93.35	62.94
19.625	19.625 (1.281)	111	1313243			15.32- 75.32	45.31
96 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
21.430	21.430 (1.399)	180	2590688	26.9236	26.924	80.00- 120.00	100.00
21.430	21.430 (1.399)	182	2461975			64.85- 124.85	95.03
97 Hexachlorobutadiene					CAS #: 87-68-3		
21.559	21.559 (1.407)	225	2053505	24.8521	24.852	80.00- 120.00	100.00
21.559	21.559 (1.407)	223	1301858			0.00- 30.00	63.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
98 Naphthalene					CAS #: 91-20-3		
21.688	21.688 (1.416)	128	5570809	28.6262	28.626	80.00- 120.00	100.00
21.688	21.688 (1.416)	127	702607			0.00- 30.00	12.61
25 3-Chloroprene					CAS #: 107-05-1		
6.994	6.994 (0.777)	76	283160	23.7031	23.703	80.00- 120.00	100.00
6.994	6.994 (0.777)	41	2133647			0.00- 30.00	753.51
45 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.638	9.638 (1.071)	56	2085224	25.2057	25.206	80.00- 120.00	100.00
9.638	9.638 (1.071)	99	239100			0.00- 30.00	11.47
9.638	9.638 (1.071)	41	2270055			0.00- 30.00	108.86
35 Vinyl Acetate					CAS #: 108-05-4		
8.174	8.174 (0.908)	43	4269035	27.4068	27.407	80.00- 120.00	100.00
8.174	8.174 (0.908)	42	362621			0.00- 30.00	8.49
8.174	8.174 (0.908)	86	196578			0.00- 30.00	4.60
183 Butane					CAS #: 106-97-8		
3.221	3.221 (0.358)	58	172738	27.0488	27.049	80.00- 120.00	100.00
3.221	3.221 (0.358)	43	1881813			0.00- 30.00	1089.40
14 Isopentane					CAS #: 78-78-4		
4.848	4.848 (0.539)	57	847544	26.2763	26.276	80.00- 120.00	100.00
4.848	4.848 (0.539)	43	1663813			0.00- 30.00	196.31
4.848	4.848 (0.539)	42	1441427			0.00- 30.00	170.07
2 Methylcyclohexane					CAS #: 108-87-2		
10.644	10.644 (1.182)	83	1849498	25.1766	25.177	80.00- 120.00	100.00
10.644	10.644 (1.182)	98	826748			0.00- 30.00	44.70
10.644	10.644 (1.182)	55	2235825			0.00- 30.00	120.89
179 tert-Butyl Alcohol					CAS #: 75-65-0		
7.570	7.570 (0.841)	59	2201611	27.6921	27.692	80.00- 120.00	100.00
7.543	7.570 (0.838)	41	1773536			0.00- 30.00	80.56
7.543	7.570 (0.838)	57	1017117			0.00- 30.00	46.20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdg.i
Lab File ID: g070703.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdg.i/07Jul2008.b/t14q702a.m
Misc Info: 50ppbv -> 25ppbv

Calibration Date: 07-JUL-2008
Calibration Time: 11:12
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	252957	151774	354140	257148	1.66
51 1,4-Difluorobenze	943147	565888	1320406	961701	1.97
72 Chlorobenzene-d5	952302	571381	1333223	954919	0.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
39 Bromochloromethan	9.00	8.67	9.33	9.00	0.00
51 1,4-Difluorobenze	10.19	9.86	10.52	10.19	0.00
72 Chlorobenzene-d5	15.32	14.99	15.65	15.32	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/msdg.i/07Jul2008.b/g070703.d

Date : 07-JUL-2008 12:52

Client ID: LCS-1

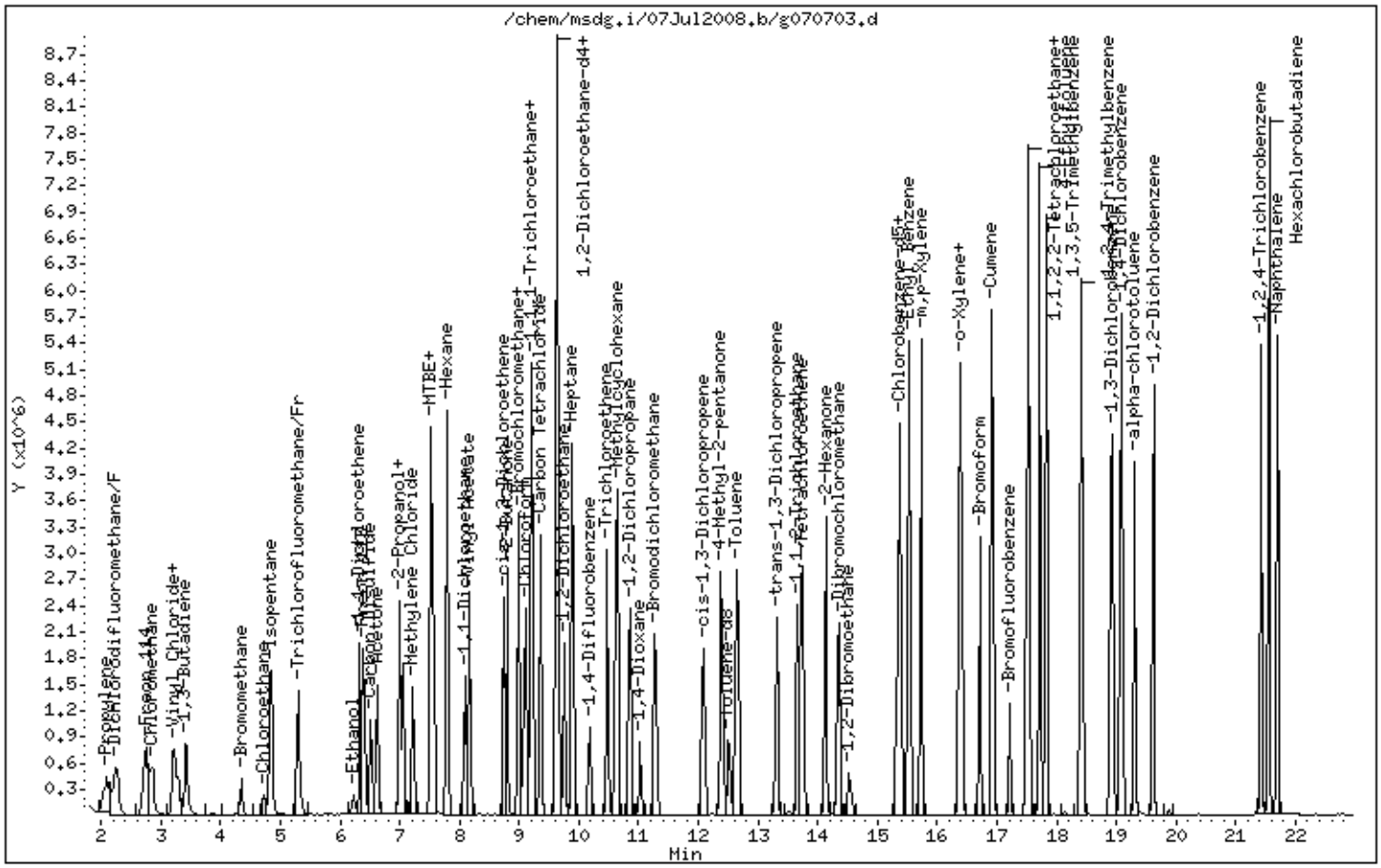
Instrument: msdg.i

Sample Info: 250ml #1541-153;LCS-1;LCS-1

Operator: lmr

Column phase: RTx-624

Column diameter: 0.32



@ Air Toxics Ltd.

MSD-G

Logbook #: 1640

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	32.11
75	30.0 – 60.0% of mass 95	52.94
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	(0.91)[1]
174	Greater than 50.0% of mass 95	68.51
175	5.0 – 9.0% of mass 174	(7.24)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.18)[1]
177	5.0 – 9.0% of mass 176	(6.43)[2]

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

BFB Injection Date: 7/7/08

BFB Injection Time: 1019

BFB File ID: G070701

Tekmar Purge Flow: 18.2 ml/min

Vacuum: 6.10 x 10-6

0162

IS/S Std.#: 1541-145	Exp. Date: 8/4/08
BCM 252957	
1,4-DFB 943147	
CB-d5 952302	

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

Verify 176/174 m/z Ratio: 326336/339328 x100 = 96.17

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1078020)}{(943147)} \times \frac{(10.0)}{(1.03377)} = 11.061$

Reported Result 11.061

File ID: G070702
Compound: Tol-d8
Initials: UR

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	G070701	BFB Tune Check	MFC-1451	50 psig	2ml	1.00	7/7/08	1019	UR	
2	✓	02	CCV-1 (50ppbv)	1012-47	25 psig	250mL			1112	UR	
3	✓	03	LCS-1 (50ppbv)	1541-147					1252	UR	
4	✓	04	LCSD (50ppbv)	↓	↓	↓			1327	UR	
5	✓	05	System Blank	—	dry	500mL			1413	UR	
6	✓	06	Lab Blank	25246	humid		↓		1453	UR	
7	✓	07	0806543-01A	05363	8.5"Hg→5psig		1.87		1715	UR	
8	✓	08	↓ 02A	35160	7.5"Hg-5psig		1.79		1800	UR	
9	✓	09	0806582-01A	36043	5.5"Hg-5psig	↓	2.64	↓	1855	UR	

Signature

7/7/08

Date

Air Toxics Ltd.

Data file : /chem/msdg.i/02Jul2008.b/g070201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 02-JUL-2008 08:02
Operator : lmr Inst ID: msdg.i
Smp Info : 2uL #1476-431;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdg.i/02Jul2008.b/bfb30.m
Meth Date : 26-Feb-2008 11:31 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.758	3.806	-0.048	95	672384			100.00- 100.00	100.00
3.758	3.806	-0.048	50	212008			15.00- 40.00	31.53
3.758	3.806	-0.048	75	353664			30.00- 60.00	52.60
3.758	3.806	-0.048	96	44803			5.00- 9.00	6.66
3.758	3.806	-0.048	173	3801			0.00- 2.00	0.81
3.758	3.806	-0.048	174	466624			50.00- 100.00	69.40
3.758	3.806	-0.048	175	32957			5.00- 9.00	7.06
3.758	3.806	-0.048	176	453845			95.00- 101.00	97.26
3.758	3.806	-0.048	177	29416			5.00- 9.00	6.48

Data File: /chem/msdg.i/02Jul2008.b/g070201.d

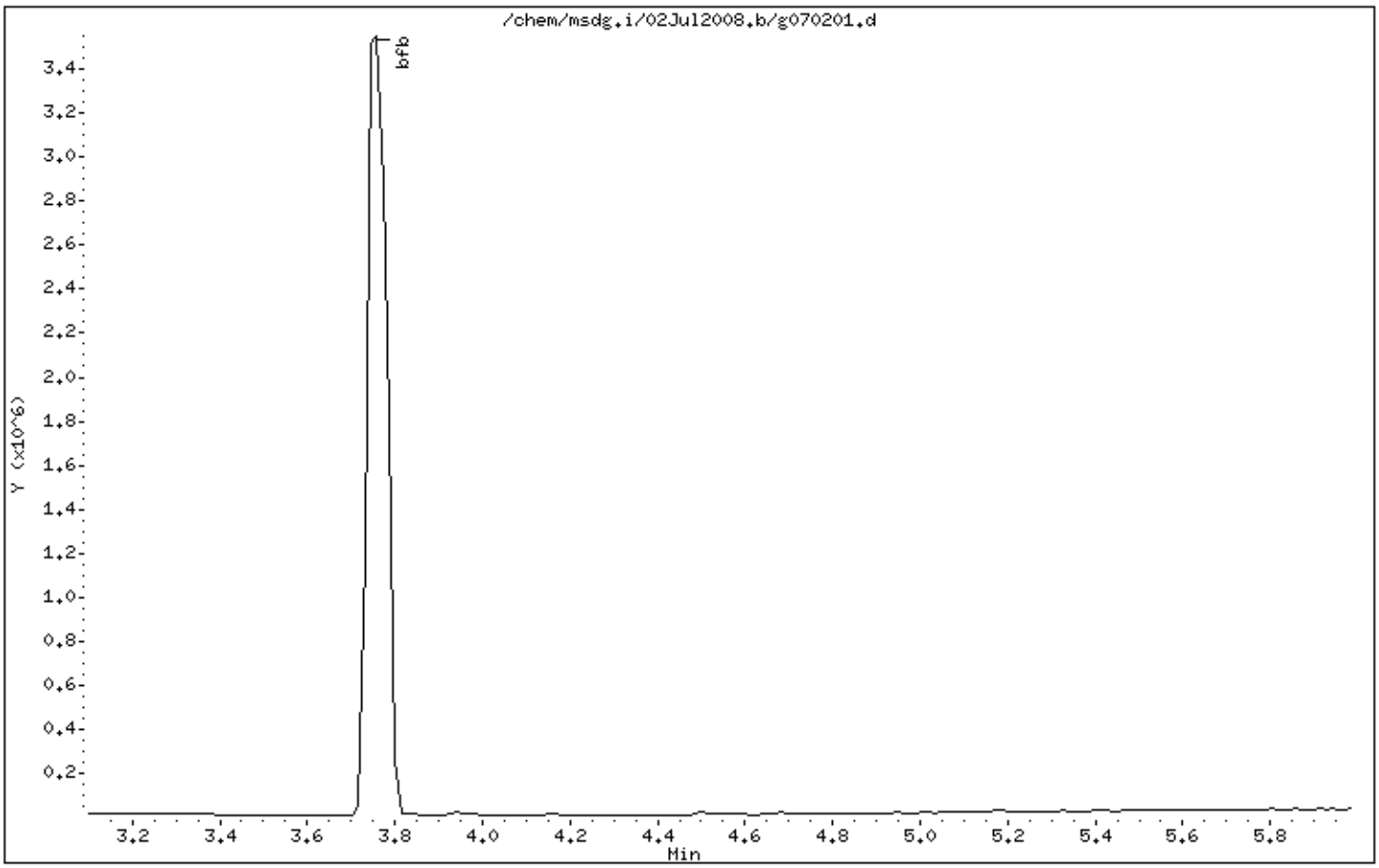
Date : 02-JUL-2008 08:02

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msdg.i/02Jul2008.b/g070201.d

Date : 02-JUL-2008 08:02

Client ID: BFB

Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

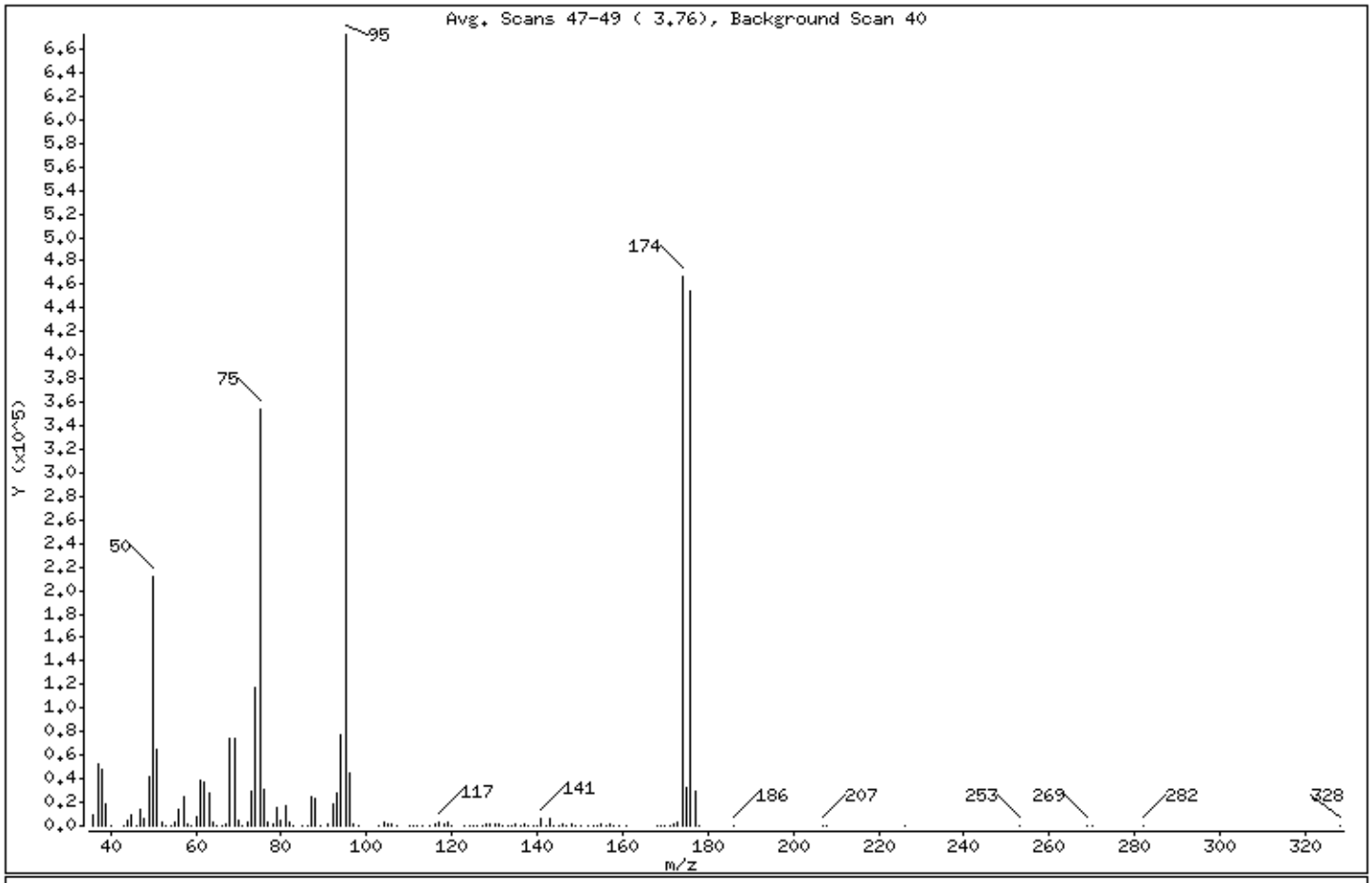
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	31.53
75	30.00 - 60.00% of mass 95	52.60
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.57 (0.81)
174	50.00 - 100.00% of mass 95	69.40
175	5.00 - 9.00% of mass 174	4.90 (7.06)
176	95.00 - 101.00% of mass 174	67.50 (97.26)
177	5.00 - 9.00% of mass 176	4.37 (6.48)

Date : 02-JUL-2008 08:02

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: g070201.d
Spectrum: Avg. Scans 47-49 (3.76), Background Scan 40
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8842	71.00	187	112.00	405	148.00	1369
37.00	51960	72.00	3260	113.00	495	149.00	326
38.00	47424	73.00	29280	115.00	639	150.00	633
39.00	18984	74.00	117600	116.00	1882	152.00	296
40.00	373	75.00	353664	117.00	3783	153.00	496
43.00	206	76.00	30240	118.00	2283	154.00	304
44.00	4835	77.00	3785	119.00	2902	155.00	1335
45.00	9537	78.00	2035	120.00	34	156.00	411
46.00	618	79.00	15696	123.00	219	157.00	952
47.00	14246	80.00	4917	124.00	369	158.00	348
48.00	5938	81.00	16248	125.00	194	159.00	577
49.00	42488	82.00	3169	126.00	333	161.00	655
50.00	211968	83.00	439	127.00	239	168.00	43
51.00	64504	85.00	46	128.00	2079	169.00	81
52.00	2641	86.00	623	129.00	1049	170.00	145
53.00	116	87.00	24712	130.00	2095	171.00	110
54.00	60	88.00	23896	131.00	792	172.00	1106
55.00	2322	89.00	38	132.00	87	173.00	3801
56.00	13547	91.00	2258	133.00	36	174.00	466624
57.00	24064	92.00	18256	134.00	207	175.00	32952
58.00	1024	93.00	27136	135.00	943	176.00	453824
59.00	80	94.00	77168	136.00	214	177.00	29416
60.00	8136	95.00	672384	137.00	1017	178.00	755
61.00	38824	96.00	44800	138.00	145	186.00	34
62.00	37368	97.00	1598	139.00	192	207.00	90
63.00	27400	98.00	45	140.00	368	208.00	74
64.00	2853	103.00	290	141.00	5691	226.00	71
65.00	601	104.00	2528	142.00	679	253.00	35
66.00	36	105.00	854	143.00	5553	269.00	98
67.00	1474	106.00	2179	144.00	463	270.00	42
68.00	73624	107.00	552	145.00	492	282.00	37
69.00	73568	110.00	436	146.00	828	328.00	40
70.00	5406	111.00	606	147.00	402		

Air Toxics Ltd.

Data file : /chem/msdg.i/07Jul2008.b/g070701.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-JUL-2008 10:19
Operator : lmr Inst ID: msdg.i
Smp Info : 2uL #1476-431;BFB Tune Check;BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msdg.i/07Jul2008.b/bfb30.m
Meth Date : 26-Feb-2008 11:31 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.758	3.806	-0.048	95	495274			100.00- 100.00	100.00
3.758	3.806	-0.048	50	159040			15.00- 40.00	32.11
3.758	3.806	-0.048	75	262208			30.00- 60.00	52.94
3.758	3.806	-0.048	96	33296			5.00- 9.00	6.72
3.758	3.806	-0.048	173	3081			0.00- 2.00	0.91
3.758	3.806	-0.048	174	339328			50.00- 100.00	68.51
3.758	3.806	-0.048	175	24584			5.00- 9.00	7.24
3.758	3.806	-0.048	176	326357			95.00- 101.00	96.18
3.758	3.806	-0.048	177	20978			5.00- 9.00	6.43

Data File: /chem/msdg.i/07Jul2008.b/g070701.d

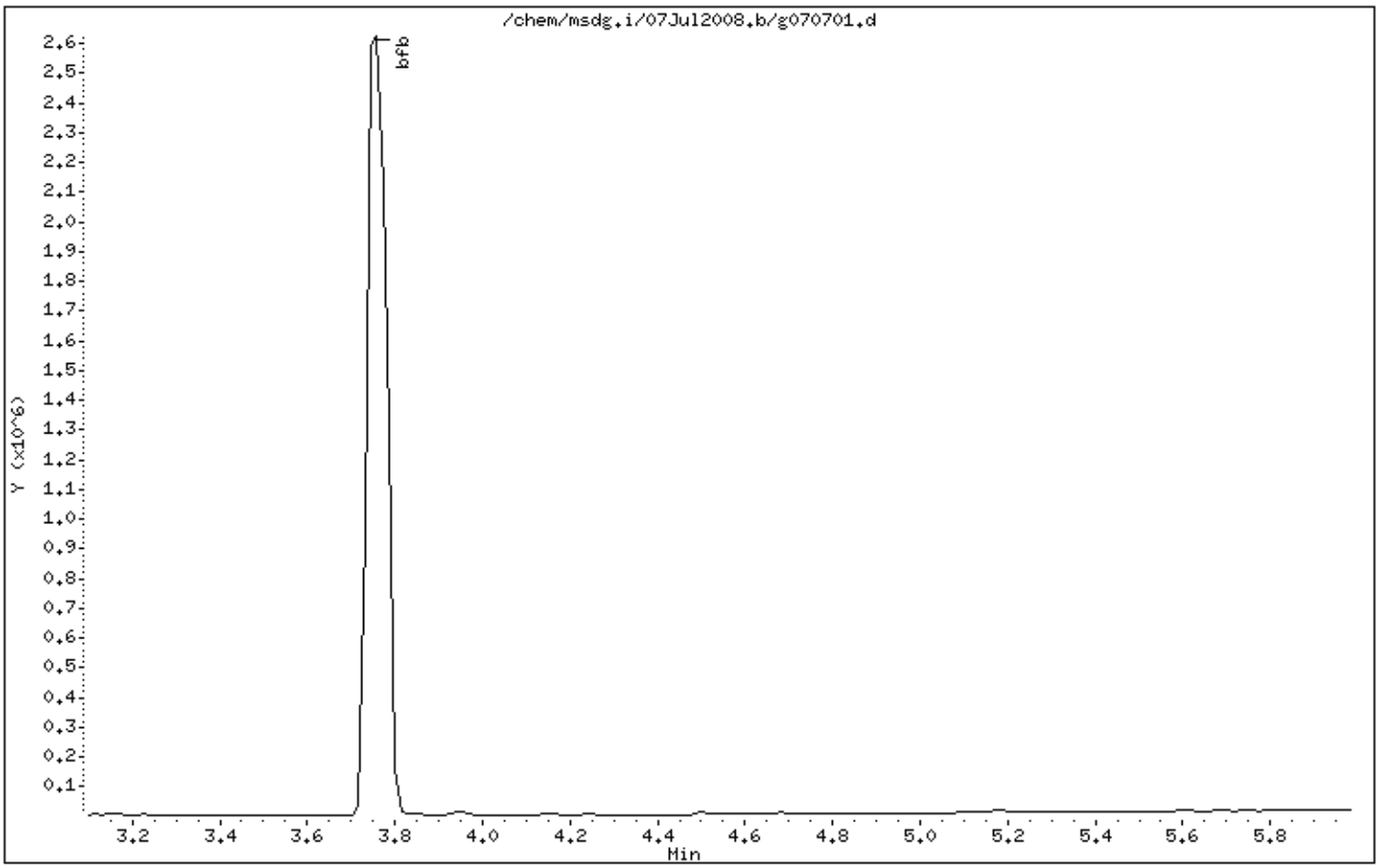
Date : 07-JUL-2008 10:19

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msdg.i/07Jul2008.b/g070701.d

Date : 07-JUL-2008 10:19

Client ID: BFB

Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

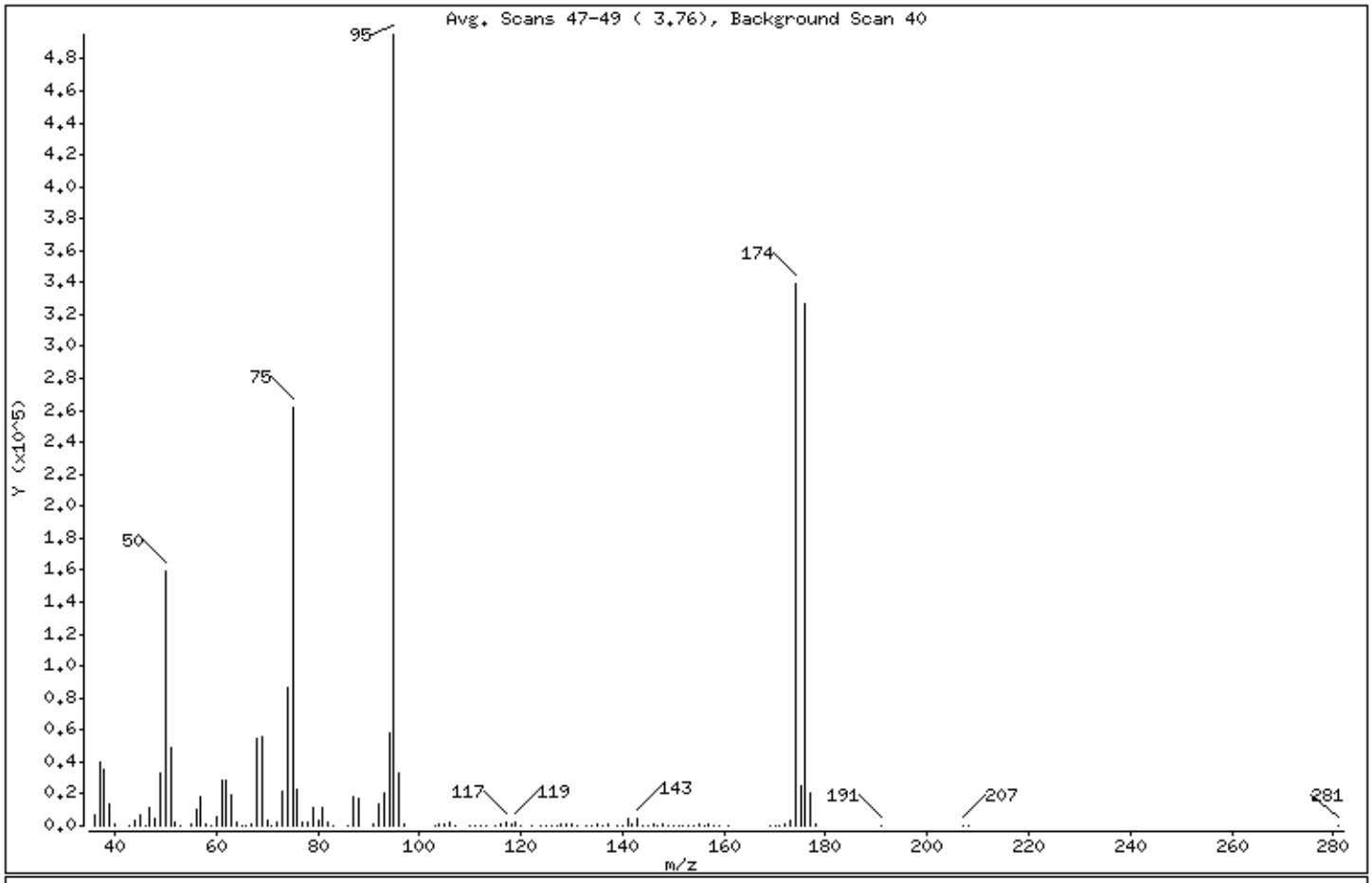
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	32.11
75	30.00 - 60.00% of mass 95	52.94
96	5.00 - 9.00% of mass 95	6.72
173	Less than 2.00% of mass 174	0.62 (0.91)
174	50.00 - 100.00% of mass 95	68.51
175	5.00 - 9.00% of mass 174	4.96 (7.24)
176	95.00 - 101.00% of mass 174	65.89 (96.18)
177	5.00 - 9.00% of mass 176	4.24 (6.43)

Date : 07-JUL-2008 10:19

Client ID: BFB Instrument: msdg.i

Sample Info: 2uL #1476-431;BFB Tune Check;BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: g070701.d
Spectrum: Avg. Scans 47-49 (3.76), Background Scan 40
Location of Maximum: 95.00
Number of points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	6741	70.00	3581	112.00	249	148.00	938
37.00	40056	71.00	41	113.00	421	149.00	203
38.00	34824	72.00	2573	115.00	556	150.00	448
39.00	13858	73.00	21928	116.00	1330	151.00	43
40.00	668	74.00	86200	117.00	2539	152.00	298
43.00	252	75.00	262208	118.00	1477	153.00	275
44.00	3720	76.00	22272	119.00	2145	154.00	200
45.00	6955	77.00	2754	120.00	130	155.00	1028
46.00	449	78.00	1838	122.00	42	156.00	216
47.00	11417	79.00	11729	124.00	309	157.00	771
48.00	4397	80.00	3191	125.00	176	158.00	216
49.00	32776	81.00	11933	126.00	212	159.00	536
50.00	159040	82.00	2391	127.00	83	161.00	463
51.00	48552	83.00	302	128.00	1642	169.00	44
52.00	2096	86.00	377	129.00	643	170.00	193
53.00	163	87.00	17688	130.00	1625	171.00	225
55.00	1525	88.00	17488	131.00	540	172.00	730
56.00	9855	91.00	1515	133.00	34	173.00	3081
57.00	18536	92.00	13128	134.00	188	174.00	339328
58.00	746	93.00	20256	135.00	807	175.00	24584
59.00	102	94.00	57808	136.00	121	176.00	326336
60.00	5553	95.00	495232	137.00	811	177.00	20976
61.00	28104	96.00	33296	139.00	106	178.00	612
62.00	28104	97.00	995	140.00	332	191.00	46
63.00	19776	103.00	240	141.00	4488	207.00	225
64.00	1901	104.00	1681	142.00	598	208.00	30
65.00	441	105.00	728	143.00	4535	281.00	55
66.00	117	106.00	1779	144.00	261		
67.00	1258	107.00	397	145.00	500		
68.00	55072	110.00	229	146.00	623		
69.00	55264	111.00	311	147.00	213		

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 #: 0806543
# of pages (Including Cover): 1

7/14/2008

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

0173

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

Project Info:

P.O. #

Project # 031140 - 8 - 1703

Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:

[X] Normal

[ ] Rush _____ Specify

Lab I.D.	Field Sample I.D.	Can #	Date & Time	Analysis Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	AMS 6 NW	05363	6/25/08; 0645-1445	TO-15 + Naphthalene	-30	-10.5	
02A	AMS 1 DW	35160	6/25/08; 0645-1445	TO-15 + Naphthalene	-30	-11	

Relinquished By: (Signature) Date/Time: 06/25/08 1500

Received By: (Signature) Date/Time: AIL 06-26-08 0900

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Relinquished By: (Signature) Date/Time:

Received By: (Signature) Date/Time:

Notes: used flow controllers included
Initial and final can pressures in inches Hg\
Send Data Pack to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8631-8554-8990		na	good	Yes No (None)	080654

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0806543

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: 07/11/08
Date Completed: 7/10/08
Date Received: 6/26/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 South cell Air Monitoring
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS 6 UW	Modified TO-15	6/25/2008	8.5 "Hg	$225.00
02A	AMS 1 DW	Modified TO-15	6/25/2008	7.5 "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 58430	$100.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58429	$35.00
	Blue Body Flow Controller (1) @ $35.00 each., Shipment 58430	$35.00
	Fuel Surcharge (2) @ $2.00 each.	$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

DATA REVIEW CHECKLIST

Work Order #: 0806543

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

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

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

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

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

A/R: All QC Met

14-day HT ok

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
CR 7/8/08	R: MDBailey 7-10-08	7/10/08	
	T:		

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

Not Applicable