



**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 #: 0801406

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Comments:

Completed by:

Kara McKiernan

Kara McKiernan / Document Control

2/7/08

(Signature)

(Print Name & Title)

(Date)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0801406

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	BILL TO:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	P.O. #	NR
FAX:	860-368-5307	PROJECT #	061140-8-1703 Bay Shore OU1 Southern
DATE RECEIVED:	01/23/2008	CONTACT:	cell Air Monitori Bryanna Langley
DATE COMPLETED:	02/05/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	UW AMS5	Modified TO-15	8.0 "Hg	5.0 psi
02A	DW AMS3	Modified TO-15	5.5 "Hg	5.0 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 02/05/08

Laboratory Director

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

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

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

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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0801406



Two 6 Liter Summa Canister samples were received on January 23, 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.

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

Receiving Notes

The Chain of Custody (COC) was not relinquished properly. A signature and date were not provided by the field sampler.

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 no 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)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW AMS5	0801406-01A	1/23/2008	1/23/2008	NA	7	1/30/2008	NA	Good
DW AMS3	0801406-02A	1/23/2008	1/23/2008	NA	7	1/30/2008	NA	Good
Lab Blank	0801406-03A	NA	NA	NA	NA	1/30/2008	NA	Good
CCV	0801406-04A	NA	NA	NA	NA	1/30/2008	NA	Good
LCS	0801406-05A	NA	NA	NA	NA	1/30/2008	NA	Good

Sample Results and Raw Data



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW AMS5

Lab ID#: 0801406-01A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS5

Lab ID#: 0801406-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013006	Date of Collection:	1/23/08
Dil. Factor:	1.83	Date of Analysis:	1/30/08 02:07 PM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW AMS5

Lab ID#: 0801406-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013006	Date of Collection:	1/23/08
Dil. Factor:	1.83	Date of Analysis:	1/30/08 02:07 PM

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30jan.b/5013006.d
 Lab Smp Id: 0801406-01A
 Inj Date : 30-JAN-2008 14:07
 Operator : cb Inst ID: msd5.i
 Smp Info : 200mL #05482
 Misc Info : 8.0"Hg --> 5psi GEI
 Comment :
 Method : /chem/msd5.i/5-30jan.b/t14q117a.m
 Meth Date : 05-Feb-2008 15:20 sscott Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1
 Dil Factor: 1.83000
 Integrator: HP RTE Compound Sublist: AT04.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	249591	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	196443			47.72- 107.72	78.71	
8.059	8.059	(1.000)	49	582240			201.28- 261.28	233.28	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	943927	25.0000		80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	152664			0.00- 47.52	16.17	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	785889	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	454913			0.00- 30.00	57.89	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.137	(1.130)	65	402434	25.1881	25.188	80.00- 120.00	100.00	
9.110	9.137	(1.130)	67	187710			0.00- 30.00	46.64	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.704	(1.279)	98	874511	24.2656	24.266	80.00- 120.00	100.00	
12.677	12.676	(1.279)	70	94387			0.00- 30.00	10.79	

CONCENTRATIONS

ON-COL FINAL

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

\$ 107 Toluene-d8 (continued)

12.677 12.704 (1.279) 100 584299 0.00- 30.00 66.81

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 461608 24.8134 24.813 80.00- 120.00 100.00

16.575 16.575 (1.105) 95 652363 113.78- 173.78 141.32

16.575 16.575 (1.105) 176 433646 67.37- 127.37 93.94

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARYInstrument ID: msd5.i
Lab File ID: 5013006.d
Lab Smp Id: 0801406-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cbCalibration Date: 30-JAN-2008
Calibration Time: 10:31Level: LOW
Sample Type: AIR

Method File: /chem/msd5.i/5-30jan.b/t14q117a.m

Misc Info: 8.0"Hg --> 5psi GEI

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	330957	198574	463340	249591	-24.59
92 1,4-Difluorobenze	1233834	740300	1727368	943927	-23.50
125 Chlorobenzene-d5	1008813	605288	1412338	785889	-22.10

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

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

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

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0801406-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30jan.b/t14q117a.m
Misc Info: 8.0"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	25.188	100.75	70-130
\$ 107 Toluene-d8	25.000	24.266	97.06	70-130
\$ 138 Bromofluorobenzene	25.000	24.813	99.25	70-130

Data File: /chem/msd5.1/5-30jan,b/5013006.d

Date : 30-JAN-2008 14:07

Client ID:

Sample Info: 200mL #05482

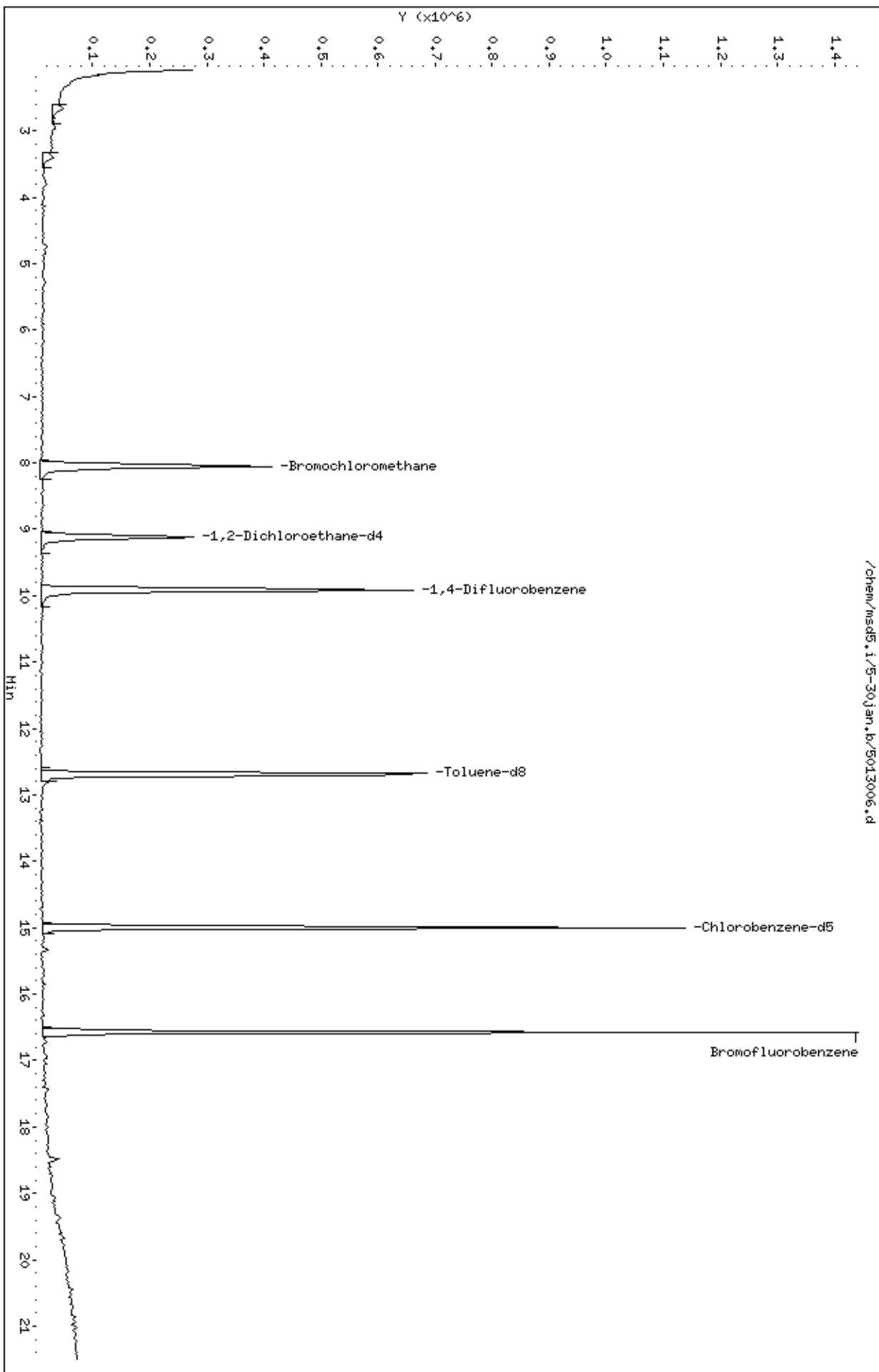
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-30jan,b/5013006.d





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW AMS3

Lab ID#: 0801406-02A

No Detections Were Found.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS3

Lab ID#: 0801406-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013007	Date of Collection:	1/23/08
Dil. Factor:	1.64	Date of Analysis:	1/30/08 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW AMS3

Lab ID#: 0801406-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013007	Date of Collection:	1/23/08
Dil. Factor:	1.64	Date of Analysis:	1/30/08 02:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	Not Detected	7.8	Not Detected
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	96	70-130

Report Date: 05-Feb-2008 15:22

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30jan.b/5013007.d
 Lab Smp Id: 0801406-02A
 Inj Date : 30-JAN-2008 14:40
 Operator : cb Inst ID: msd5.i
 Smp Info : 200mL #4064
 Misc Info : 5.5"Hg --> 5psi GEI
 Comment :
 Method : /chem/msd5.i/5-30jan.b/t14q117a.m
 Meth Date : 05-Feb-2008 15:20 sscott Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1
 Dil Factor: 1.64000
 Integrator: HP RTE Compound Sublist: AT04.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	241233	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	189458			47.72- 107.72	78.54	
8.031	8.059	(1.000)	49	560262			201.28- 261.28	232.25	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	915683	25.0000		80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	148525			0.00- 47.52	16.22	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	759457	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	455709			0.00- 30.00	60.00	

§ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.137	(1.130)	65	375942	24.3452	24.345	80.00- 120.00	100.00	
9.110	9.137	(1.130)	67	189600			0.00- 30.00	50.43	

§ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.704	(1.279)	98	839410	24.0100	24.010	80.00- 120.00	100.00	
12.677	12.676	(1.279)	70	90005			0.00- 30.00	10.72	

CONCENTRATIONS

ON-COL FINAL

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

\$ 107 Toluene-d8 (continued)

12.677 12.704 (1.279) 100 550540 0.00- 30.00 65.59

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 430009 23.9193 23.919 80.00- 120.00 100.00

16.575 16.575 (1.105) 95 629817 113.78- 173.78 146.47

16.575 16.575 (1.105) 176 420520 67.37- 127.37 97.79

Report Date: 05-Feb-2008 15:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
 Lab File ID: 5013007.d
 Lab Smp Id: 0801406-02A
 Analysis Type: VOA
 Quant Type: ISTD
 Operator: cb

Calibration Date: 30-JAN-2008
 Calibration Time: 10:31

Level: LOW
 Sample Type: AIR

Method File: /chem/msd5.i/5-30jan.b/t14q117a.m

Misc Info: 5.5"Hg --> 5psi GEI

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	330957	198574	463340	241233	-27.11
92 1,4-Difluorobenze	1233834	740300	1727368	915683	-25.79
125 Chlorobenzene-d5	1008813	605288	1412338	759457	-24.72

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

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

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

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0801406-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-30jan.b/t14q117a.m
Misc Info: 5.5"Hg --> 5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	24.345	97.38	70-130
\$ 107 Toluene-d8	25.000	24.010	96.04	70-130
\$ 138 Bromofluorobenzene	25.000	23.919	95.68	70-130

Data File: /chem/msd5.1/5-30jan,b/5013007.d

Date : 30-JAN-2008 14:40

Client ID:

Sample Info: 200mL #4064

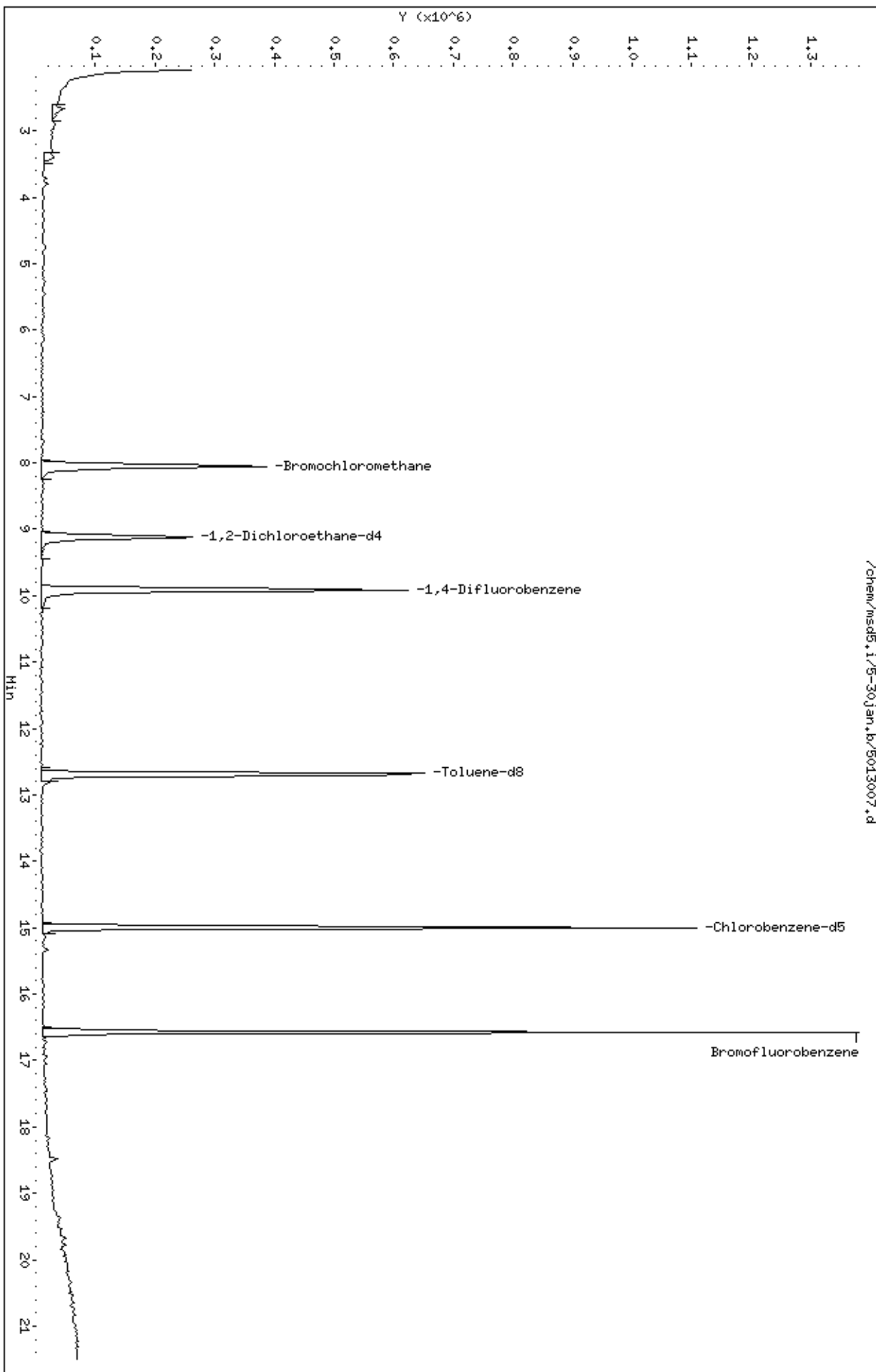
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-30jan,b/5013007.d



QC Results and Raw Data



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801406-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 11:55 AM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0801406-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 11:55 AM

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	97	70-130

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30jan.b/5013004.d
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
 Inj Date : 30-JAN-2008 11:55
 Operator : cb Inst ID: msd5.i
 Smp Info : 200mL #12941
 Misc Info : Humid Cert Cart #14 Leg 5
 Comment :
 Method : /chem/msd5.i/5-30jan.b/t14q117a.m
 Meth Date : 05-Feb-2008 15:20 sscott Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	259593	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	199123			47.72- 107.72	76.71	
8.059	8.059	(1.000)	49	607777			201.28- 261.28	234.13	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1005617	25.0000		80.00- 120.00	100.00	
9.912	9.912	(1.000)	88	158650			0.00- 47.52	15.78	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	823793	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	480105			0.00- 30.00	58.28	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.137	(1.130)	65	404146	24.3206	24.321	80.00- 120.00	100.00	
9.110	9.137	(1.130)	67	193426			0.00- 30.00	47.86	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.676	12.704	(1.279)	98	885762	23.0700	23.070	80.00- 120.00	100.00	
12.676	12.676	(1.279)	70	96568			0.00- 30.00	10.90	

CONCENTRATIONS

ON-COL FINAL

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

\$ 107 Toluene-d8 (continued)

12.676 12.704 (1.279) 100 584435 0.00- 30.00 65.98

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 474994 24.3581 24.358 80.00- 120.00 100.00

16.575 16.575 (1.105) 95 700293 113.78- 173.78 147.43

16.575 16.575 (1.105) 176 463715 67.37- 127.37 97.63

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 30-JAN-2008

Lab File ID: 5013004.d

Calibration Time: 10:31

Lab Smp Id: Lab Blank

Client Smp ID: Lab Blank

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-30jan.b/t14q117a.m

Misc Info: Humid Cert Cart #14 Leg 5

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	330957	198574	463340	259593	-21.56
92 1,4-Difluorobenze	1233834	740300	1727368	1005617	-18.50
125 Chlorobenzene-d5	1008813	605288	1412338	823793	-18.34

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

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

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

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30jan
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-30jan.b/t14q117a.m
Misc Info: Humid Cert Cart #14 Leg 5

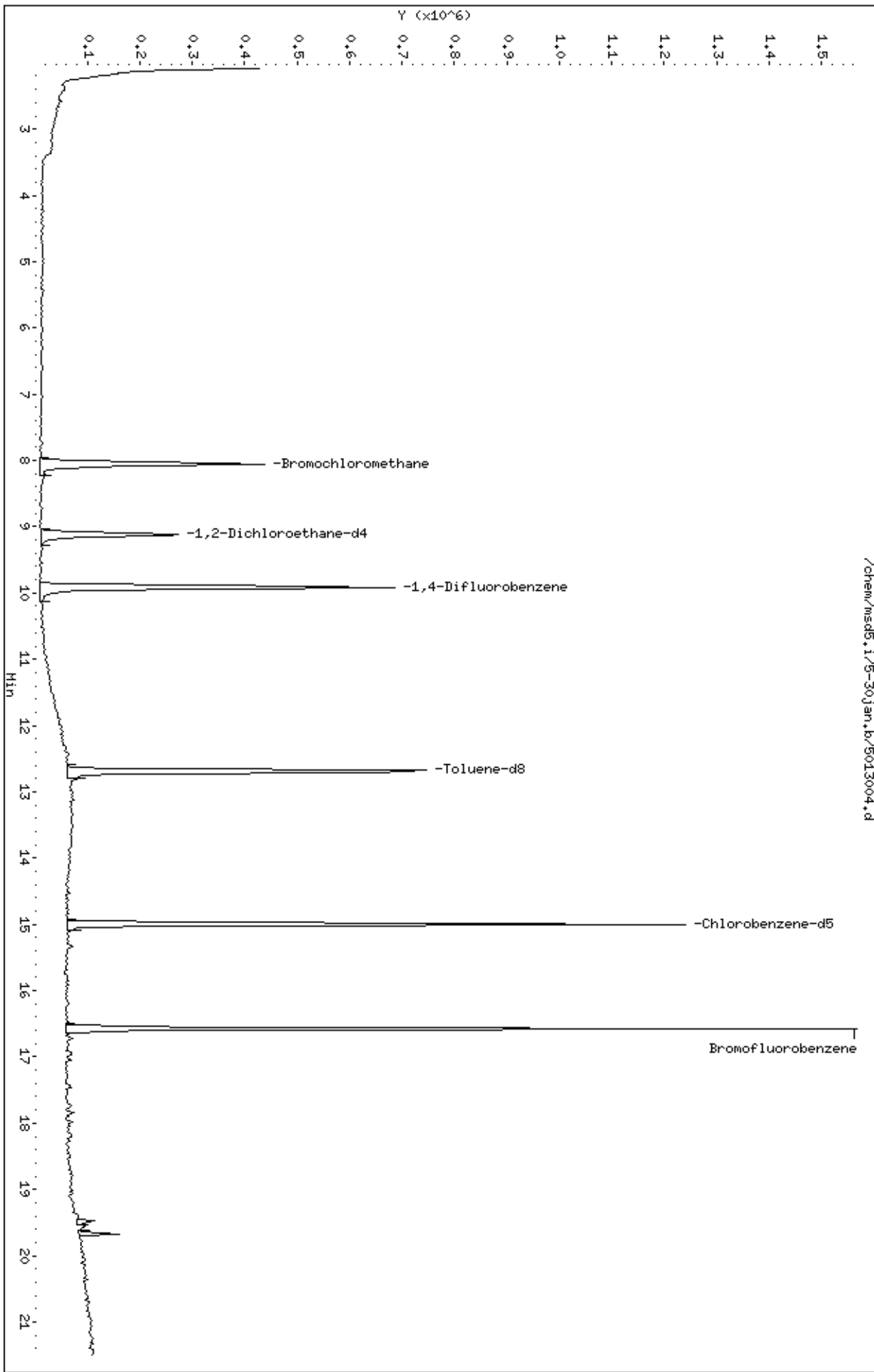
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	24.321	97.28	70-130
\$ 107 Toluene-d8	25.000	23.070	92.28	70-130
\$ 138 Bromofluorobenzene	25.000	24.358	97.43	70-130

Data File: /chem/msd5.1/5-30jan.b/5013004.d
Date : 30-JAN-2008 11:55
Client ID: Lab Blank
Sample Info: 200mL #12941

Column phase: RTX-624

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

/chem/msd5.1/5-30jan.b/5013004.d



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0801406

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT	
	1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#			#
01	UW AMS5	101		97		99			0
02	DW AMS3	97		96		96			0
03	Lab Blank	97		92		97			0
04	CCV	99		95		99			0
05	LCS	97		94		102			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
 Lab File ID: 5013002.d
 Instrument ID: msd5.i

SDG No: 0801406
 Date Analyzed: 01/30/2008
 Time Analyzed: 10:31 AM

	Chlorobenzene-d5		RT		1,4-Difluorobenzene		RT		Bromochloromethane		RT	
	Area	#		#	Area	#		#	Area	#		#
	24-HOUR STD	1008813		15	1233834		9.91		330957		8.06	
	UPPER LIMIT	1412338		15.33	1727368		10.24		463340		08.39	
	LOWER LIMIT	605288		14.67	740300		09.58		198574		07.73	
	CLIENT SAMPLE NO											
01	UW AMS5	785889		15	943927		9.91		249591		8.06	
02	DW AMS3	759457		15	915683		9.91		241233		8.06	
03	Lab Blank	823793		15	1005617		9.91		259593		8.06	
04	CCV	1008813		15	1233834		9.91		330957		8.06	
05	LCS	800399		15	947205		9.91		248538		8.06	
06												
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												

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

RT Upper Limit=+0.33 minutes of internal standard RT
 RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD
8 Dichlorodifluoromethane/Fr12	200.000 Level 7	2.31535	2.66083	3.47009	3.11979	2.90977	2.91699	13.597
9 Freon 114	2.40338	2.17516	2.21712	2.91998	2.82960	2.60166	2.52448	12.358
10 Chloromethane	2.16666	+++++	2.03062	2.59026	2.45864	2.25129	2.29949	9.776
11 Butane	0.47143	+++++	0.51497	0.58929	0.53593	0.51997	0.52632	8.083
12 1,3-Butadiene	1.82295	1.96783	1.94964	2.19207	2.05921	1.95571	1.99123	6.225
13 Vinyl Chloride	1.83664	1.94101	1.55726	2.22072	2.13306	1.99491	1.94727	12.064
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	1.12122	0.83523	0.98273	1.20271	1.21221	1.16652	1.08677	13.699
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	3.01004	+++++	2.68626	3.58394	3.40799	3.20225	3.17810	10.994

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
19 Chloroethane	+++++	0.91415	0.90083	1.06637	0.97458	0.89951		0.93845	7.562
20 Trichlorofluoromethane/Fr11	+++++	2.52530	2.67386	3.78906	3.68714	3.49563		3.24357	16.317
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
26 Ethanol	+++++	+++++	0.70376	0.93831	0.89453	0.78285		0.80174	13.927
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	—	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	
	200.000							
	Level 7							
38 3-Chloropropene	+++++	+++++	0.58934	0.73508	0.67733	0.64540		
	0.59647						0.64872	9.295
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Methylene Chloride	+++++	1.98331	1.82667	2.55542	2.48102	2.36013		
	2.23634						2.24048	12.762
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 MTBE	+++++	2.24101	2.53508	2.35932	2.15340	1.97159		
	1.54482						2.13420	16.190
47 trans-1,2-Dichloroethene	+++++	1.16182	1.22664	1.55129	1.50113	1.44370		
	1.37889						1.37724	11.208

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	200.000							
	Level 7							
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.99356	1.80615	2.57489	2.40766	2.32794	2.21967	12.671
	2.20780							
67 2-Butanone	+++++	0.68392	0.59340	0.75618	0.71611	0.70210	0.68482	8.128
	0.65723							

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
80 2,2,4-Trimethylpentane	+++++	8.16957	7.64615	11.09257	10.66709	10.27108		9.60073	14.512
81 Benzene	1.49936	0.77988	0.77020	1.09810	1.04545	0.97905		1.01774	24.163
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
85 1,2-Dichloroethane	+++++	0.35372	0.42962	0.58163	0.56699	0.52881		0.49646	17.694
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
90 Heptane	0.11997	0.11144	0.10349	0.13743	0.13019	0.12538		0.12132	10.242
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
93 Trichloroethene	0.39202	0.32475	0.32127	0.45489	0.42887	0.40408		0.38765	14.069
94 Methyl Cyclohexane	0.60746	0.63422	0.48479	0.69837	0.64865	0.61499		0.61475	11.608
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
98 1,2-Dichloropropane	0.42104	0.38343	0.30165	0.47765	0.44214	0.42612		0.40867	14.854
99 1,4-Dioxane	0.22796	+++++	0.19875	0.25277	0.24223	0.23784		0.23191	8.868
100 Bromodichloromethane	0.60862	0.55321	0.43261	0.67925	0.63367	0.61696		0.58739	14.651

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.23996	0.31302	0.57263	0.56106	0.56190		0.46933	32.217<-
114 1,1,2-Trichloroethane	+++++	0.34691	0.34367	0.44990	0.42088	0.40589		0.39550	10.646
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
116 Tetrachloroethene	+++++	0.42050	0.41560	0.57799	0.53901	0.52339		0.49851	13.243
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
119 2-Hexanone	+++++	+++++	0.47096	0.70400	0.67446	0.67541		0.63974	14.882
120 Dibromochloromethane	+++++	0.50410	0.49260	0.73063	0.69156	0.68450		0.63213	16.609
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	200.000							
	Level 7							
122 1,2-Dibromoethane	0.90163	0.64129	0.50643	0.69722	0.66483	0.64559		
	0.64724						0.67203	17.510
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 Chlorobenzene	+++++	0.75767	0.78381	1.08644	1.03882	1.00762		
	0.99445						0.94480	14.685
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 Ethyl Benzene	+++++	0.56466	0.40914	0.62727	0.57121	0.55607		
	0.55068						0.54651	13.306
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
130 m,p-Xylene	+++++	0.59333	0.52984	0.76794	0.73588	0.70608		
	0.69104						0.67068	13.535
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
132 o-Xylene	+++++	0.62579	0.54244	0.71056	0.68755	0.65672		
	0.64298						0.64434	9.086

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
133 Styrene	1.46488 1.05369	0.75646	0.75183	1.15004	1.08301	1.05129		1.04446	23.390
134 Bromoform	+++++ 0.60588	0.41038	0.44174	0.63507	0.61297	0.62115		0.55453	18.119
135 Cyclohexanone	+++++ +++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
136 Cumene	2.90313 1.96173	1.58260	1.60776	2.20582	2.05139	2.01897		2.04734	21.614
137 Bromobenzene	+++++ +++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
139 1,2,3-Trichloropropane	+++++ +++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
140 2-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++ 0.89915	0.75754	0.75244	0.98398	0.93716	0.91825		0.87475	11.085
142 Propylbenzene	+++++ 2.23794	1.87135	1.80222	2.48014	2.35043	2.33106		2.17886	12.707
143 4-Chlorotoluene	+++++ +++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
 End Cal Date : 17-JAN-2008 17:51
 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
144 4-Ethyltoluene	200.000 2.10577	1.36491	1.66895	2.34028	2.18896	2.18205		1.97515	19.012
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
147 1,3,5-Trimethylbenzene	1.84410	1.36991	1.57754	2.07878	1.95625	1.92091		1.79125	14.827
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
152 1,2,4-Trimethylbenzene	1.55372	1.09192	1.33787	1.67663	1.60041	1.58632		1.47448	14.875
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
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 Quant Method : ISTD
 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000	0.50000	2.000	25.000	50.000	100.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	200.000							
	Level 7							
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 1,3-Dichlorobenzene	+++++	0.76937	0.88821	1.05788	1.03801	1.01728		
	0.99594						0.96112	11.560
156 1,4-Dichlorobenzene	+++++	0.97719	0.96179	1.36913	1.28948	1.29287		
	1.22866						1.18652	14.664
157 alpha-Chlorotoluene	1.92111	0.99934	1.13264	1.82753	1.89345	1.93595		
	1.90650						1.65950	24.628
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
159 1,2-Dichlorobenzene	+++++	0.93074	0.88655	1.06239	1.03359	1.03631		
	0.98677						0.98939	6.930
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.80050	0.75103	0.71583	0.71675		
	0.71504						0.73983	5.025

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 17-JAN-2008 13:25
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 Origin : Disabled
 Target Version : 3.50
 Integrator : HP RTE
 Method file : /chem/msd5.i/5-17jan.b/t14q117a.m
 Cal Date : 18-Jan-2008 11:49 cbond
 Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	Level 7	RRF	% RSD
164 Hexachlorobutadiene	200.000 0.57380	+++++	0.59163	0.59874	0.58367	0.57583		0.58473	1.801
165 Naphthalene	2.05634	+++++	2.71745	2.81347	2.89641	2.97628		2.69199	13.675
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
192 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		+++++	+++++
\$ 84 1,2-Dichloroethane-d4	1.71235	1.51169	1.59441	1.56515	1.61182	1.60658		1.60033	4.131
\$ 107 Toluene-d8	0.94964	0.93975	0.96010	0.96118	0.96963	0.94670		0.95450	1.154
\$ 138 Bromofluorobenzene	0.61276	0.57142	0.60316	0.58982	0.58245	0.59112		0.59179	2.478

Calibration History

Method : /chem/msd5.i/5-17jan.b/t14q117a.m
Start Cal Date: 17-JAN-2008 13:25
End Cal Date : 17-JAN-2008 17:51

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
17-JAN-2008 13:25	AFCEElow	/chem/msd5.i/5-17jan.b/5011708.d
Cal Level: 2 , Cal Amount: 0.50000		
17-JAN-2008 13:52	AT04Low+ENSR	/chem/msd5.i/5-17jan.b/5011709.d
Cal Level: 3 , Cal Amount: 2.00000		
17-JAN-2008 17:51	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011716.d
Cal Level: 4 , Cal Amount: 25.00000		
17-JAN-2008 14:47	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011711.d
Cal Level: 5 , Cal Amount: 50.00000		
17-JAN-2008 15:15	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011712.d
Cal Level: 6 , Cal Amount: 100.00000		
17-JAN-2008 15:43	AT04MDL+ENSR	/chem/msd5.i/5-17jan.b/5011713.d
Cal Level: 7 , Cal Amount: 200.00000		
17-JAN-2008 16:16	AT04ENSR	/chem/msd5.i/5-17jan.b/5011714.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

```
| Ccal Level: 5 , Ccal Amount: 50.000 |
+=====+
|17-JAN-2008 15:15 |AT04MDL+ENSR      |/chem/msd5.i/5-17jan.b/5011712.d  |
+-----+-----+-----+-----+
| Ccal Level: 5 , Ccal Amount: 50.000 |
+=====+
|17-JAN-2008 15:15 |AT04MDL+ENSR      |/chem/msd5.i/5-17jan.b/5011712a.d |
+-----+-----+-----+-----+
```

Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-5 on 1/17/2008. As noted on the accompanying analytical run logs, the following point calibration level 3 was re-analyzed due to:

- a. unacceptable integration of Ethanol

The following compounds used 0.2 as the lowest calibration concentration:
Benzene, Chloroform, Styrene, Cumene, alpha-Chlorotoluene, 4-methyl-2-pentanone,
and 1,2-Dibromomethane

MSD-5

ION ABUNDANCE CRITERIA

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	27.93
75	30.0 - 60.0% of mass 95	48.03
95	Base peak, 100.00% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.95
173	Less than 2.0% of mass 174	(1.13) ¹
174	Greater than 50.0% of mass 95	(64.26) ¹
175	5.0 - 9.0% of mass 174	(7.72) ¹
176	Greater than 95.0% but less than 101.0% of mass 174	(96.11) ¹
177	5.0 - 9.0% of mass 176	(6.61) ²

1 - value in parenthesis is % mass 174
 2 - value in parenthesis is % mass 176
 Verified 176/174 m/z Ratio: 1005912/1046577 x 100 = 96.11%

BFB Injection Date: 1/17/08
 BFB Injection Time: 1225
 BFB File ID: 5011706
 Tekmar Purge Flow: 12.8 mL/min
 Vacuum: 6.52 x 10⁻⁶ Torr
 IS/S Std.#: 1541-8
 BCM: 230627
 1,4-DFB: 903162
 CB-d5: 808795
 Verified CCV IS vs ICAL mid-point (~40%ID) CB initials
 NOAH Cart #: N/A
 File #: N/A

Calculation Check:
 ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{std}}} \times \text{Conc.}_{\text{std}} \times \text{RRF}$
 = $\left(\frac{875733}{903162} \right) \times \left(\frac{25.0}{0.95450} \right) = 25.396$
 Reported Result 25.396

File ID: 5011712
 Compound: toluene-d8
 Initials: CB

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	5011706	BFB Tune Check	1476-15	50mg	2ul	1.00	1/17/08	1225	CB	
✓	07	System Blank	12941	Humid	200mL			1250	CB	
✓	08	ICAL level 1 (200 ppm)	1576-198	0.2 ppbv	0.2mL			1325	CB	4/42/1179
✓	09			0.5 ppbv	0.5mL			1352	CB	
✓	10			2 ppbv	2mL			1419	CB	
✓	11			25 ppbv	25mL			1447	CB	
✓	12			50 ppbv	50mL			1515	CB	CCV
✓	13			100 ppbv	100mL			1543	CB	
✓	14			200 ppbv	200mL			1616	CB	

Signature: *[Handwritten Signature]*

Date: 1/17/08

MSD-5

Logbook #: 1637

10	✓	5011715	System Blank	12941	Humid	200um	100	1/17/08	1709	KR	449117a
11	✓	16	TCAL Level 3	1576-188	2ppb	2ml	↓	↓	1751	KR	
12	✓	17	System Blank	12941	Humid	200um	↓	↓	2007	KR	
13	✓	18	LCS (200ppb)	1576-172	50ppb	50um	↓	↓	2054	KR	DCAL LCS
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

Comments:

Flow controller SIN # AA920318 Actual: 25.1 mL/min
 NIST Flowmeter SIN # 200-7244 Nominal: 22.6 mL/min
 exp 8/31/08 OS 1/18/08

OS 1/18/08

[Signature]

Signature

1/18/08

Date

Integration	CB 1/18/08
Split Peak	
Peak Tailing	
Background Subtraction	
Sum In	

Before

File Security Edit Display Process Spectra Help

Sample: ICAL Type: CALIB_3 Inj.Date: 17-JAN-2008 17:51

- ** 71 Bromochlorometl
- ** 92 1,4-Difluorobe
- ** 125 Chlorobenzene-
- ** 84 1,2-Dichloroetl
- ** 107 Toluene-d8
- ** 138 Bromofluoroben:
- + 6 Propylene
- + 8 Dichlorodifluo
- + 9 Freon 114
- + 10 Chloromethane
- + 13 Vinyl Chloride
- + 12 1,3-Butadiene
- + 15 Bromomethane
- + 19 Chloroethane
- + 20 Trichlorofluor:
- + 26 Ethanol
- + 30 Freon 113
- + 31 1,1-Dichloroetl
- + 32 Acetone
- + 36 2-Propanol
- + 35 Carbon Disulfid
- + 38 3-Chloropropeni
- + 43 Methylene Chlo
- + 46 MTBE
- + 47 trans-1,2-Dich.

HP MS 5011716.d, Scan 7: 2.253 min. (SUB)

Reference Spectrum for Propylene

Ion 41.00

2.40

Ion 42.00

2.40

Ion 39.60

2.40

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.253	40465	2.247	2.247	100		
	2.253	43512			108		
	2.253	22570			56		
2	2.667	41914	2.328	2.328	100	T	
	2.667	16236			39		
	2.640	13972			33		

Integration	CB 1/18/08
Split Peak	
Peak Tailing	
Background Subtraction	
Scan In	
Scan Out	

1/18/08

After

File Security Edit Display Process Spectra Help

Sample: ICAL Type: CALIB_3 Inj.Date: 17-JAN-2008 17:51

** 71 Bromochloromet
 ** 92 1,4-Difluorobe
 ** 125 Chlorobenzene-
 ** 84 1,2-Dichloroetl
 ** 107 Toluene-d8
 ** 138 Bromofluoroben
 * 6 Propylene
 + 8 Dichlorodifluo
 + 9 Freon 114

Time: 2.253
 Area: 30415
 Height: 4629

Snap to Data
 Snap to Int Marks
 Overlap Peaks
 Assign Baseline
 Split Peak

HP MS 5011716.d, Scan 7: 2.253 min. (SUB)

Reference Spectrum for Propylene

Ion 41.00

2.40

Ion 42.00

2.40

Ion 39.00

2.40

Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags	Report:
1	2.253	30415	1.789	1.789	100	al	
	2.253	43512			143		
	2.253	22570			74		

- Mark Propylene Undetected.

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

Report Date: 17-Jan-2008 21:37

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011718.d
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Inj Date : 17-JAN-2008 20:54
 Operator : kr Inst ID: msd5.i
 Smp Info : 50mL #1576-172
 Misc Info : 50ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:35 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 17:51 Cal File: 5011716.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
ON-COL FINAL									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	256121	25.0000		80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	202271			48.81- 108.81	78.97	
8.031	8.031	(1.000)	49	570258			199.42- 259.42	222.65	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.911	9.912	(1.000)	114	989988	25.0000		80.00- 120.00	100.00	
9.911	9.912	(1.000)	88	166515			0.00- 46.40	16.82	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	868758	25.0000		80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	506154			0.00- 30.00	58.26	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	394120	24.0388	24.039	80.00- 120.00	100.00	
9.110	9.110	(1.130)	67	210326			0.00- 30.00	53.37	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.676	12.676	(1.279)	98	943366	24.9582	24.958	80.00- 120.00	100.00	
12.676	12.676	(1.279)	70	96030			0.00- 30.00	10.18	

CONCENTRATIONS

ON-COL FINAL

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

\$ 107 Toluene-d8 (continued)

12.676	12.676	(1.279)	100	646977			0.00- 30.00	68.58
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\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575	16.575	(1.105)	174	514359	25.0116	25.012	80.00- 120.00	100.00
16.575	16.575	(1.105)	95	732020			113.24- 173.24	142.32
16.575	16.575	(1.105)	176	502411			67.29- 127.29	97.68

6 Propylene

CAS #: 115-07-1

2.280	2.280	(0.283)	41	813520	41.2728	41.273	80.00- 120.00	100.00
2.280	2.280	(0.283)	42	551164			0.00- 30.00	67.75
2.280	2.280	(0.283)	39	569516			0.00- 30.00	70.01

8 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.335	2.336	(0.290)	85	1271825	42.5586	42.559	80.00- 120.00	100.00
2.335	2.336	(0.290)	87	414451			0.00- 30.00	32.59

9 Freon 114

CAS #: 76-14-2

2.446	2.446	(0.304)	135	1107055	42.8047	42.805	80.00- 120.00	100.00
2.446	2.446	(0.304)	137	346306			0.74- 60.74	31.28

10 Chloromethane

CAS #: 74-87-3

2.584	2.584	(0.321)	50	1009576	42.8550	42.855	80.00- 120.00	100.00
2.584	2.584	(0.321)	52	304021			0.00- 30.00	30.11

13 Vinyl Chloride

CAS #: 75-01-4

2.778	2.750	(0.345)	62	887775	44.5012	44.501	80.00- 120.00	100.00
2.778	2.750	(0.345)	64	270312			0.00- 30.00	30.45

12 1,3-Butadiene

CAS #: 106-99-0

2.750	2.750	(0.341)	54	832472	40.8077	40.808	80.00- 120.00	100.00
2.750	2.750	(0.341)	39	911056			0.00- 30.00	109.44

15 Bromomethane

CAS #: 74-83-9

3.276	3.276	(0.406)	94	491506	44.1456	44.146	80.00- 120.00	100.00
3.276	3.276	(0.406)	96	478362			64.36- 124.36	97.33

19 Chloroethane

CAS #: 75-00-3

3.386	3.386	(0.420)	64	390441	40.6105	40.610	80.00- 120.00	100.00
3.386	3.386	(0.420)	49	128210			0.00- 30.00	32.84
3.386	3.386	(0.420)	66	117392			0.00- 30.00	30.07

20 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.718	3.718	(0.461)	101	1489616	44.8276	44.828	80.00- 120.00	100.00
3.718	3.718	(0.461)	103	962638			34.16- 94.16	64.62

CONCENTRATIONS

ON-COL FINAL

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

26 Ethanol CAS #: 64-17-5
 4.077 4.077 (0.506) 45 355921 43.3325 43.332 80.00- 120.00 100.00
 4.077 4.077 (0.506) 43 71358 0.00- 30.00 20.05
 4.077 4.077 (0.506) 46 136578 0.00- 30.00 38.37

30 Freon 113 CAS #: 76-13-1
 4.520 4.520 (0.561) 151 935916 50.0956 50.096 80.00- 120.00 100.00
 4.520 4.520 (0.561) 153 596177 34.46- 94.46 63.70
 4.520 4.520 (0.561) 101 1222582 102.42- 162.42 130.63

31 1,1-Dichloroethene CAS #: 75-35-4
 4.547 4.548 (0.564) 61 1329535 50.5778 50.578 80.00- 120.00 100.00
 4.547 4.548 (0.564) 96 633242 17.45- 77.45 47.63
 4.547 4.548 (0.564) 98 407441 0.00- 59.59 30.65

32 Acetone CAS #: 67-64-1
 4.713 4.713 (0.585) 58 433219 42.8355 42.836 80.00- 120.00 100.00
 4.713 4.713 (0.585) 43 1421165 0.00- 30.00 328.05

36 2-Propanol CAS #: 67-63-0
 4.907 4.907 (0.609) 45 1805899 45.0637 45.064 80.00- 120.00 100.00
 4.907 4.907 (0.609) 43 359863 0.00- 30.00 19.93
 4.907 4.907 (0.609) 59 61623 0.00- 30.00 3.41

35 Carbon Disulfide CAS #: 75-15-0
 4.907 4.879 (0.609) 76 1718199 45.1711 45.171 80.00- 120.00 100.00

38 3-Chloropropene CAS #: 107-05-1
 5.183 5.183 (0.643) 76 285622 42.9761 42.976 80.00- 120.00 100.00
 5.183 5.183 (0.643) 41 1321382 0.00- 30.00 462.63

43 Methylene Chloride CAS #: 75-09-2
 5.432 5.432 (0.674) 49 1092685 47.6046 47.604 80.00- 120.00 100.00
 5.432 5.432 (0.674) 84 524879 16.65- 76.65 48.04
 5.432 5.432 (0.674) 51 335766 0.00- 30.00 30.73

46 MTBE CAS #: 1634-04-4
 5.764 5.764 (0.715) 73 782772 35.8009 35.801 80.00- 120.00 100.00
 5.764 5.764 (0.715) 57 264059 2.93- 62.93 33.73
 5.764 5.764 (0.715) 41 265174 0.00- 30.00 33.88

47 trans-1,2-Dichloroethene CAS #: 156-60-5
 5.819 5.819 (0.722) 96 624472 44.2585 44.258 80.00- 120.00 100.00
 5.819 5.819 (0.722) 61 1191054 161.29- 221.29 190.73
 5.819 5.819 (0.722) 98 394082 0.00- 30.00 63.11

CONCENTRATIONS

ON-COL FINAL

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

51 Hexane CAS #: 110-54-3
 6.151 6.151 (0.763) 57 1541727 43.8115 43.812 80.00- 120.00 100.00
 6.151 6.151 (0.763) 43 1097315 0.00- 30.00 71.17
 6.151 6.151 (0.763) 86 187222 0.00- 30.00 12.14

55 1,1-Dichloroethane CAS #: 75-34-3
 6.593 6.594 (0.818) 63 1327323 46.1226 46.122 80.00- 120.00 100.00
 6.593 6.594 (0.818) 65 399940 1.33- 61.33 30.13

67 2-Butanone CAS #: 78-93-3
 7.644 7.644 (0.949) 72 286680 40.8615 40.861 80.00- 120.00 100.00
 7.644 7.644 (0.949) 43 1890654 613.01- 673.01 659.50
 7.644 7.644 (0.949) 57 129964 0.00- 30.00 45.33

66 cis-1,2-Dichloroethene CAS #: 156-59-2
 7.617 7.617 (0.945) 61 997268 43.8550 43.855 80.00- 120.00 100.00
 7.617 7.617 (0.945) 96 577527 27.71- 87.71 57.91
 7.617 7.617 (0.945) 98 366497 6.61- 66.61 36.75

70 Tetrahydrofuran CAS #: 109-99-9
 8.031 8.031 (0.997) 42 1142030 39.4559 39.456 80.00- 120.00 100.00
 8.031 8.031 (0.997) 71 274989 0.00- 53.13 24.08
 8.031 8.031 (0.997) 72 279446 0.00- 30.00 24.47

72 Chloroform CAS #: 67-66-3
 8.197 8.197 (1.017) 83 1045040 43.2132 43.213 80.00- 120.00 100.00
 8.197 8.197 (1.017) 85 676880 35.04- 95.04 64.77

75 1,1,1-Trichloroethane CAS #: 71-55-6
 8.418 8.418 (1.045) 97 1089295 43.4432 43.443 80.00- 120.00 100.00
 8.418 8.418 (1.045) 99 692936 33.38- 93.38 63.61

74 Cyclohexane CAS #: 110-82-7
 8.391 8.391 (1.041) 84 806848 43.0388 43.039 80.00- 120.00 100.00
 8.391 8.391 (1.041) 56 1498369 154.90- 214.90 185.71
 8.391 8.391 (1.041) 41 839505 71.49- 131.49 104.05

56 Vinyl Acetate CAS #: 108-05-4
 6.151 6.151 (0.763) 86 187222 42.9598 42.960 80.00- 120.00 100.00
 6.151 6.151 (0.763) 43 1097315 0.00- 30.00 586.10
 6.151 6.151 (0.763) 42 535393 0.00- 30.00 285.97

77 Carbon Tetrachloride CAS #: 56-23-5
 8.667 8.667 (1.075) 119 1021276 43.6218 43.622 80.00- 120.00 100.00
 8.667 8.667 (1.075) 117 1056154 72.64- 132.64 103.42

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.082	9.082	(1.127)	57	4330489	44.0278	44.028	80.00- 120.00	100.00		
9.082	9.082	(1.127)	56	1437833			0.00- 30.00	33.20		
9.082	9.082	(1.127)	41	1150136			0.00- 30.00	26.56		

81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	1673834	45.0886	45.089	80.00- 120.00	100.00		
9.082	9.082	(0.916)	77	389554			0.00- 30.00	23.27		

85	1,2-Dichloroethane					CAS #: 107-06-2				
9.248	9.248	(0.933)	62	912805	46.4301	46.430	80.00- 120.00	100.00		
9.275	9.248	(0.936)	64	279057			0.00- 30.00	30.57		

90	Heptane					CAS #: 142-82-5				
9.469	9.469	(0.955)	100	208481	43.3964	43.396	80.00- 120.00	100.00		
9.469	9.469	(0.955)	43	1799304			0.00- 30.00	863.05		
9.469	9.469	(0.955)	71	625266			0.00- 30.00	299.92		

93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	673816	43.8952	43.895	80.00- 120.00	100.00		
10.326	10.326	(1.042)	130	699431			70.26- 130.26	103.80		
10.326	10.326	(1.042)	97	432103			31.23- 91.23	64.13		

98	1,2-Dichloropropane					CAS #: 78-87-5				
10.824	10.824	(1.092)	63	694003	42.8841	42.884	80.00- 120.00	100.00		
10.824	10.824	(1.092)	62	512653			44.39- 104.39	73.87		
10.824	10.824	(1.092)	41	491468			40.61- 100.61	70.82		

99	1,4-Dioxane					CAS #: 123-91-1				
11.045	11.045	(1.114)	88	374321	40.7594	40.759	80.00- 120.00	100.00		
11.045	11.045	(1.114)	58	394002			72.11- 132.11	105.26		
11.045	11.045	(1.114)	57	121481			0.00- 30.00	32.45		

100	Bromodichloromethane					CAS #: 75-27-4				
11.404	11.405	(1.151)	83	1019195	43.8171	43.817	80.00- 120.00	100.00		
11.404	11.405	(1.151)	85	641278			35.07- 95.07	62.92		

103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.289	12.289	(1.240)	75	803565	46.1166	46.117	80.00- 120.00	100.00		
12.317	12.317	(1.243)	77	253377			2.12- 62.12	31.53		
12.289	12.289	(1.240)	39	613206			49.06- 109.06	76.31		

106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.593	12.593	(1.271)	58	701747	40.0102	40.010	80.00- 120.00	100.00		
12.593	12.593	(1.271)	43	2012887			0.00- 30.00	286.84		
12.593	12.593	(1.271)	85	218400			0.00- 30.00	31.12		

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	1836831	46.0162	46.016	80.00-	120.00	100.00	
12.815	12.815	(1.293)	92	1094681			29.46-	89.46	59.60	

113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	786976	48.2534	48.253	80.00-	120.00	100.00	
13.368	13.368	(0.891)	77	249608			1.57-	61.57	31.72	
13.340	13.340	(0.889)	39	576718			42.45-	102.45	73.28	

114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	591496	43.0377	43.038	80.00-	120.00	100.00	
13.644	13.644	(0.910)	99	362901			31.96-	91.96	61.35	
13.644	13.644	(0.910)	83	490441			54.01-	114.01	82.92	

116 Tetrachloroethene						CAS #:	127-18-4			
13.699	13.699	(0.913)	166	756253	43.6551	43.655	80.00-	120.00	100.00	
13.672	13.672	(0.912)	129	613990			50.41-	110.41	81.19	
13.672	13.672	(0.912)	131	592503			48.45-	108.45	78.35	

119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	908375	40.8602	40.860	80.00-	120.00	100.00	
14.004	14.004	(0.934)	43	1894008			177.96-	237.96	208.51	
14.004	14.004	(0.934)	100	149723			0.00-	30.00	16.48	

120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	969265	44.1245	44.124	80.00-	120.00	100.00	
14.197	14.197	(0.947)	127	724838			0.00-	30.00	74.78	

122 1,2-Dibromoethane						CAS #:	106-93-4			
14.363	14.335	(0.958)	107	903382	41.0188	41.019	80.00-	120.00	100.00	
14.363	14.363	(0.958)	109	838510			63.93-	123.93	92.82	

126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	1463939	44.5885	44.588	80.00-	120.00	100.00	
15.027	15.027	(1.002)	114	469324			3.06-	63.06	32.06	
15.027	15.027	(1.002)	77	872055			29.85-	89.85	59.57	

128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	793268	41.7702	41.770	80.00-	120.00	100.00	
15.165	15.165	(1.011)	91	2460522			0.00-	30.00	310.18	

130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	984218	42.2294	42.229	80.00-	120.00	100.00	
15.331	15.331	(1.022)	91	1981494			0.00-	30.00	201.33	

132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	926660	41.3853	41.385	80.00-	120.00	100.00	

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
132 o-Xylene (continued)								
15.856	15.856	(1.057)	91	1961779			181.03- 241.03	211.70

133 Styrene CAS #: 100-42-5								
15.911	15.911	(1.061)	104	1513923	41.7113	41.711	80.00- 120.00	100.00
15.884	15.884	(1.059)	78	773739			20.92- 80.92	51.11

134 Bromoform CAS #: 75-25-2								
16.160	16.160	(1.077)	173	850887	44.1558	44.156	80.00- 120.00	100.00
16.160	16.160	(1.077)	171	438432			21.58- 81.58	51.53

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5								
16.796	16.796	(1.120)	83	1251121	41.1580	41.158	80.00- 120.00	100.00
16.796	16.796	(1.120)	85	814893			34.08- 94.08	65.13

144 4-Ethyltoluene CAS #: 622-96-8								
16.962	16.962	(1.131)	105	2979763	43.4132	43.413	80.00- 120.00	100.00
16.962	16.962	(1.131)	120	871355			0.00- 59.52	29.24

147 1,3,5-Trimethylbenzene CAS #: 108-67-8								
17.045	17.045	(1.136)	105	2606191	41.8689	41.869	80.00- 120.00	100.00
17.045	17.045	(1.136)	120	1263506			0.00- 30.00	48.48

152 1,2,4-Trimethylbenzene CAS #: 95-63-6								
17.460	17.460	(1.164)	105	2181231	42.5701	42.570	80.00- 120.00	100.00
17.460	17.460	(1.164)	120	1009566			16.93- 76.93	46.28

155 1,3-Dichlorobenzene CAS #: 541-73-1								
17.764	17.764	(1.184)	146	1391378	41.6591	41.659	80.00- 120.00	100.00
17.764	17.764	(1.184)	148	868423			0.00- 30.00	62.41
17.764	17.764	(1.184)	111	589394			0.00- 30.00	42.36

156 1,4-Dichlorobenzene CAS #: 106-46-7								
17.847	17.847	(1.190)	146	1729137	41.9369	41.937	80.00- 120.00	100.00
17.847	17.847	(1.190)	148	1107802			0.00- 30.00	64.07
17.847	17.847	(1.190)	111	748840			0.00- 30.00	43.31

157 alpha-Chlorotoluene CAS #: 100-44-7								
17.985	17.985	(1.199)	91	2561630	44.4201	44.420	80.00- 120.00	100.00
17.985	17.985	(1.199)	126	533871			0.00- 30.00	20.84

159 1,2-Dichlorobenzene CAS #: 95-50-1								
18.206	18.206	(1.214)	146	1421157	41.3347	41.335	80.00- 120.00	100.00
18.206	18.206	(1.214)	148	897993			32.68- 92.68	63.19
18.206	18.206	(1.214)	111	589318			11.30- 71.30	41.47

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	FINAL	TARGET RANGE	RATIO
				(PPEV)	(PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.478	(1.300)	180	982881	38.2306	38.231	80.00-	120.00	100.00
19.506	19.506	(1.300)	182	943800			65.42-	125.42	96.02

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	791639	38.9594	38.959	80.00-	120.00	100.00
19.589	19.589	(1.306)	223	496387			33.29-	93.29	62.70

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	3232458	42.6919	42.692	80.00-	120.00	100.00
16.824	16.824	(1.122)	120	760000			0.00-	30.00	23.51
16.824	16.824	(1.122)	105	127817			0.00-	30.00	3.95

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	2933438	41.2313	41.231	80.00-	120.00	100.00
16.326	16.326	(1.088)	120	768072			0.00-	30.00	26.18
16.326	16.326	(1.088)	51	419700			0.00-	30.00	14.31

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	3452276	36.9040	36.904	80.00-	120.00	100.00
19.672	19.672	(1.312)	127	442738			0.00-	30.00	12.82

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	1355033	41.6177	41.618	80.00-	120.00	100.00
3.414	3.414	(0.424)	57	842480			0.00-	30.00	62.17
3.414	3.414	(0.424)	72	72567			0.00-	30.00	5.36

11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	222208	41.2102	41.210	80.00-	120.00	100.00
2.667	2.667	(0.331)	43	1797075			0.00-	30.00	808.74

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	1047261	43.0198	43.020	80.00-	120.00	100.00
10.547	10.547	(1.064)	98	502407			0.00-	30.00	47.97
10.547	10.547	(1.064)	55	1268551			0.00-	30.00	121.13

Report Date: 17-Jan-2008 21:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011718.d

Calibration Time: 15:15

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: kr

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 50ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	256121	11.05
92 1,4-Difluorobenze	903162	541897	1264427	989988	9.61
125 Chlorobenzene-d5	808795	485277	1132313	868758	7.41

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

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

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

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

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-17jan
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Level: LOW Operator: kr
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04ENSR.sub
 Method File: /chem/msd5.i/5-17jan.b/t14q117a.m
 Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	42.559	85.12	70-130
9 Freon 114	50.000	42.805	85.61	70-130
10 Chloromethane	50.000	42.855	85.71	70-130
13 Vinyl Chloride	50.000	44.501	89.00	70-130
12 1,3-Butadiene	50.000	40.808	81.62	60-140
15 Bromomethane	50.000	44.146	88.29	70-130
19 Chloroethane	50.000	40.610	81.22	70-130
20 Trichlorofluoromet	50.000	44.828	89.66	70-130
26 Ethanol	50.000	43.332	86.67	60-140
30 Freon 113	50.000	50.096	100.19	70-130
31 1,1-Dichloroethene	50.000	50.578	101.16	70-130
35 Carbon Disulfide	50.000	45.171	90.34	60-140
32 Acetone	50.000	42.836	85.67	60-140
36 2-Propanol	50.000	45.064	90.13	60-140
38 3-Chloropropene	50.000	42.976	85.95	60-140
43 Methylene Chloride	50.000	47.604	95.21	70-130
46 MTBE	50.000	35.801	71.60	60-140
47 trans-1,2-Dichloro	50.000	44.258	88.52	60-140
51 Hexane	50.000	43.812	87.62	60-140
55 1,1-Dichloroethane	50.000	46.122	92.25	70-130
66 cis-1,2-Dichloroet	50.000	43.855	87.71	70-130
67 2-Butanone	50.000	40.861	81.72	60-140
70 Tetrahydrofuran	50.000	39.456	78.91	60-140
72 Chloroform	50.000	43.213	86.43	70-130
74 Cyclohexane	50.000	43.039	86.08	60-140
75 1,1,1-Trichloroeth	50.000	43.443	86.89	70-130
56 Vinyl Acetate	50.000	42.960	85.92	60-140
77 Carbon Tetrachlori	50.000	43.622	87.24	70-130
80 2,2,4-Trimethylpen	50.000	44.028	88.06	60-140
81 Benzene	50.000	45.089	90.18	70-130
85 1,2-Dichloroethane	50.000	46.430	92.86	70-130
90 Heptane	50.000	43.396	86.79	60-140
93 Trichloroethene	50.000	43.895	87.79	70-130

Report Date: 17-Jan-2008 21:37

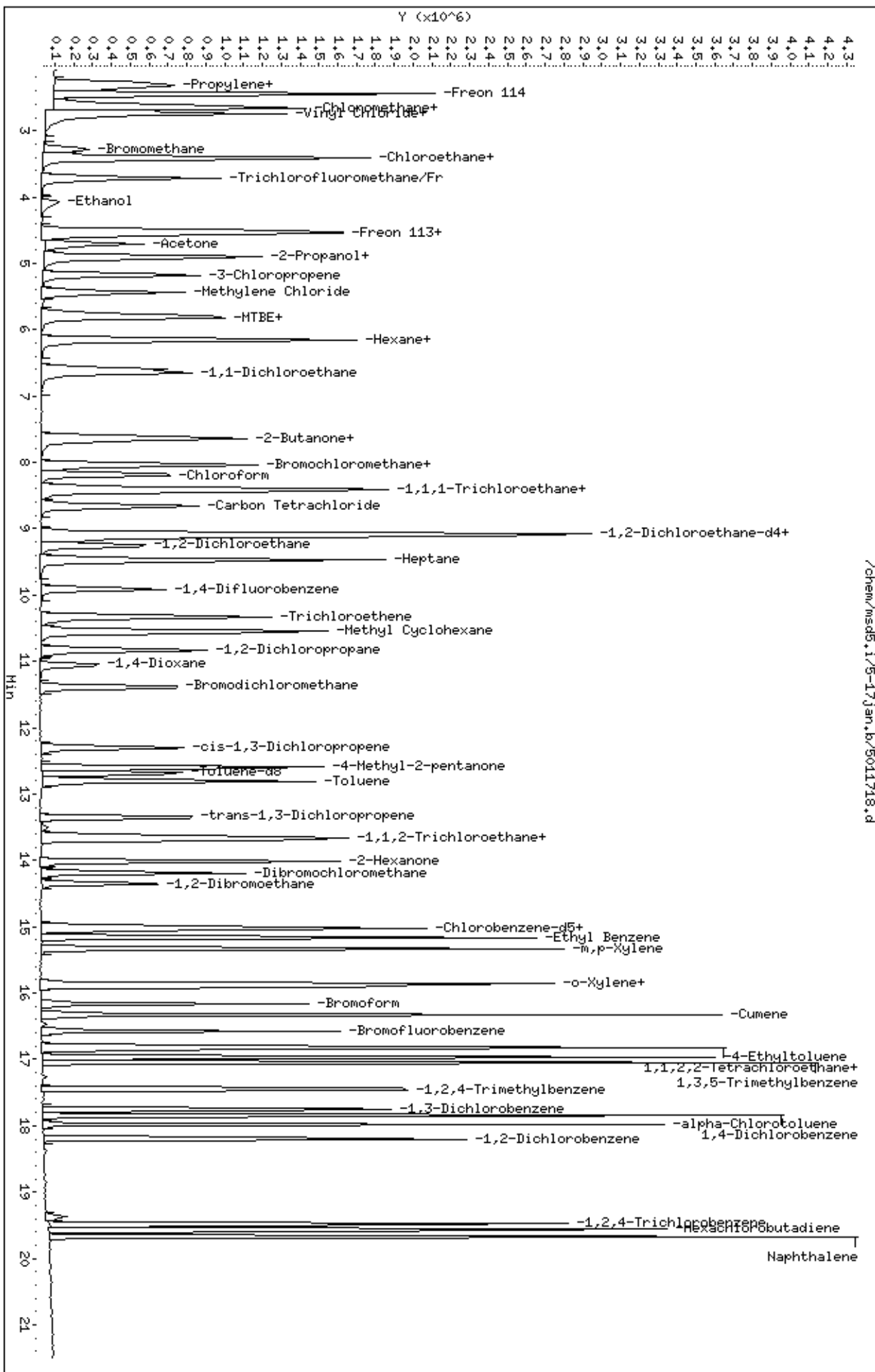
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	42.884	85.77	70-130
99 1,4-Dioxane	50.000	40.759	81.52	60-140
100 Bromodichlorometha	50.000	43.817	87.63	60-140
103 cis-1,3-Dichloropr	50.000	46.117	92.23	70-130
106 4-Methyl-2-pentano	50.000	40.010	80.02	60-140
108 Toluene	50.000	46.016	92.03	70-130
113 trans-1,3-Dichloro	50.000	48.253	96.51	70-130
114 1,1,2-Trichloroeth	50.000	43.038	86.08	70-130
116 Tetrachloroethene	50.000	43.655	87.31	70-130
119 2-Hexanone	50.000	40.860	81.72	60-140
120 Dibromochlorometha	50.000	44.124	88.25	60-140
122 1,2-Dibromoethane	50.000	41.019	82.04	70-130
126 Chlorobenzene	50.000	44.588	89.18	70-130
128 Ethyl Benzene	50.000	41.770	83.54	70-130
130 m,p-Xylene	50.000	42.229	84.46	70-130
132 o-Xylene	50.000	41.385	82.77	70-130
133 Styrene	50.000	41.711	83.42	70-130
134 Bromoform	50.000	44.156	88.31	60-140
136 Cumene	50.000	41.231	82.46	60-140
141 1,1,2,2-Tetrachlor	50.000	41.158	82.32	70-130
142 Propylbenzene	50.000	42.692	85.38	60-140
144 4-Ethyltoluene	50.000	43.413	86.83	60-140
147 1,3,5-Trimethylben	50.000	41.869	83.74	70-130
152 1,2,4-Trimethylben	50.000	42.570	85.14	70-130
155 1,3-Dichlorobenzen	50.000	41.659	83.32	70-130
156 1,4-Dichlorobenzen	50.000	41.937	83.87	70-130
157 alpha-Chlorotoluen	50.000	44.420	88.84	70-130
159 1,2-Dichlorobenzen	50.000	41.335	82.67	70-130
163 1,2,4-Trichloroben	50.000	38.231	76.46	70-130
164 Hexachlorobutadien	50.000	38.959	77.92	70-130
6 Propylene	50.000	41.273	82.55	70-130
165 Naphthalene	50.000	36.904	73.81	60-140
11 Butane	50.000	41.210	82.42	70-130
17 Isopentane	50.000	41.618	83.24	70-130
94 Methyl Cyclohexane	50.000	43.020	86.04	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	24.039	96.16	70-130
\$ 107 Toluene-d8	25.000	24.958	99.83	70-130
\$ 138 Bromofluorobenzene	25.000	25.012	100.05	70-130

Data File: /chem/msds.1/5-17jan.b/5011718.d
 Date: 17-JAN-2008 20:54
 Client ID: LCS-1
 Sample Info: 50ml #1576-172

Column phase: RTX-624

Instrument: msds.i
 Operator: kr
 Column diameter: 0.53



/chem/msds.1/5-17jan.b/5011718.d

Report Date: 18-Jan-2008 11:49

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011708.d
 Lab Smp Id: ICAL Client Smp ID: Level 1
 Inj Date : 17-JAN-2008 13:25
 Operator : cb Inst ID: msd5.i
 Smp Info : 0.2mL #1576-198
 Misc Info : 0.2ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 18-Jan-2008 11:49 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AFCEElow.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	227450	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	180249			48.81- 108.81	79.25	
8.031	8.031	(1.000)	49	533624			199.42- 259.42	234.61	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	893796	25.0000		70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	149735			0.00- 46.40	16.75	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	774293	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	449059			0.00- 30.00	58.00	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	356258	25.0000	24.468	70.00- 130.00	100.00	
9.110	9.110	(1.130)	67	168093			0.00- 30.00	47.18	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.677	(1.279)	98	849641	25.0000	24.898	70.00- 130.00	100.00	
12.677	12.677	(1.279)	70	90110			0.00- 30.00	10.61	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.677	12.677	(1.279)	100	567228			0.00- 30.00	66.76	

\$ 138 Bromofluorobenzene									
						CAS #: 460-00-4			
16.575	16.575	(1.105)	174	447263	25.0000	24.402	70.00- 130.00	100.00	
16.575	16.575	(1.105)	95	654294			113.24- 173.24	146.29	
16.575	16.575	(1.105)	176	435618			67.29- 127.29	97.40	

72 Chloroform									
						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	7955	0.20000	0.3302	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	4284			35.04- 95.04	53.85	

81 Benzene									
						CAS #: 71-43-2			
9.082	9.082	(0.916)	78	10721	0.20000	0.2946	70.00- 130.00	100.00	
9.082	9.082	(0.916)	77	3359			0.00- 30.00	31.33	

133 Styrene									
						CAS #: 100-42-5			
15.912	15.912	(1.061)	104	9074	0.20000	0.2805	70.00- 130.00	100.00	
15.912	15.912	(1.061)	78	4228			20.92- 80.92	46.59	

136 Cumene									
						CAS #: 98-82-8			
16.326	16.326	(1.088)	105	17983	0.20000	0.2836	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	5814			0.00- 30.00	32.33	
16.326	16.326	(1.088)	51	2851			0.00- 30.00	15.85	

157 alpha-Chlorotoluene									
						CAS #: 100-44-7			
17.985	17.985	(1.199)	91	11900	0.20000	0.2315	70.00- 130.00	100.00(a)	
17.985	17.985	(1.199)	126	2269			0.00- 30.00	19.07	

106 4-Methyl-2-pentanone									
						CAS #: 108-10-1			
12.621	12.621	(1.273)	58	4842	0.20000	0.3058	70.00- 130.00	100.00(a)	
12.594	12.594	(1.271)	43	17610			0.00- 30.00	363.69	
12.621	12.621	(1.273)	85	1385			0.00- 30.00	28.60	

122 1,2-Dibromoethane									
						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	5585	0.20000	0.2683	70.00- 130.00	100.00(a)	
14.363	14.363	(0.958)	109	4182			63.93- 123.93	74.88	

QC Flag Legend

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

Report Date: 18-Jan-2008 11:49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011708.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 0.2ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	227450	-1.38
92 1,4-Difluorobenze	903162	541897	1264427	893796	-1.04
125 Chlorobenzene-d5	808795	485277	1132313	774293	-4.27

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

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

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

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

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

Data File: /chem/msd5.1/5-17jan.b/5011708.d

Date : 17-JAN-2008 13:25

Client ID: Level 1

Sample Info: 0.2mL #1576-198

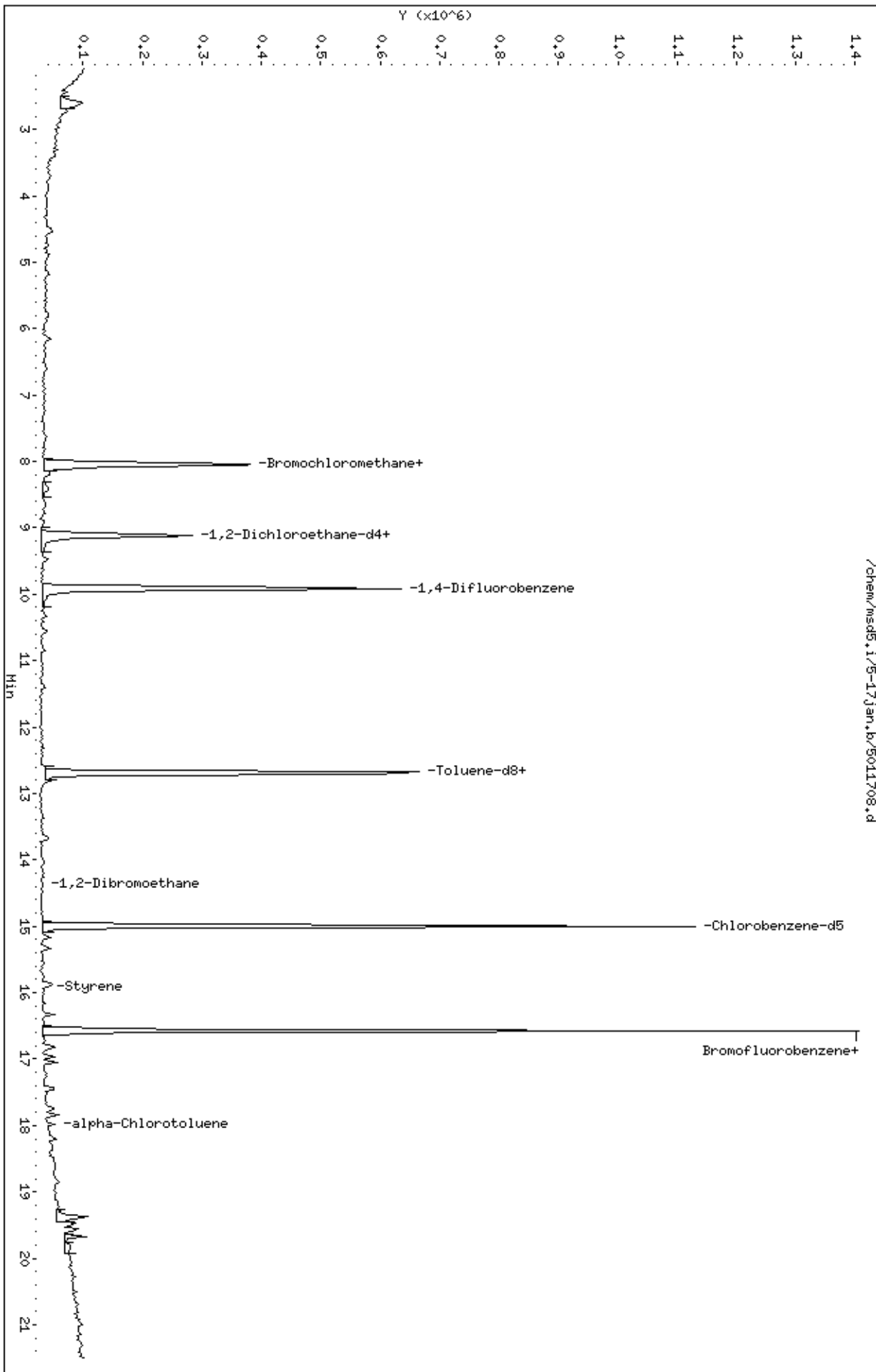
Column phase: RTX-624

Instrument: msd5.1

Operator: cb

Column diameter: 0.53

/chem/msd5.1/5-17jan.b/5011708.d



Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011709.d
 Lab Smp Id: ICAL Client Smp ID: Level 2
 Inj Date : 17-JAN-2008 13:52
 Operator : cb Inst ID: msd5.i
 Smp Info : 0.5mL #1576-198
 Misc Info : 0.5ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:52 Cal File: 5011709.d
 Als bottle: 1 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	229339	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	174456			48.81- 108.81	76.07	
8.031	8.031	(1.000)	49	535660			199.42- 259.42	233.57	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	887000	25.0000		70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	140400			0.00- 46.40	15.83	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	790123	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	441720			0.00- 30.00	55.91	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	346689	25.0000	23.615	70.00- 130.00	100.00	
9.110	9.110	(1.130)	67	165251			0.00- 30.00	47.67	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.677	(1.279)	98	833556	25.0000	24.614	70.00- 130.00	100.00	
12.677	12.677	(1.279)	70	94353			0.00- 30.00	11.32	

AMOUNTS

CAL-AMT ON-COL

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

\$ 107 Toluene-d8 (continued)

12.677 12.677 (1.279) 100 558497 0.00- 30.00 67.00

\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575 16.575 (1.105) 174 451491 25.0000 24.139 70.00- 130.00 100.00

16.575 16.575 (1.105) 95 651192 113.24- 173.24 144.23

16.575 16.575 (1.105) 176 438898 67.29- 127.29 97.21

8 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.336 2.336 (0.290) 85 10620 0.50000 0.3969 70.00- 130.00 100.00(a)

2.336 2.336 (0.290) 87 4479 0.00- 30.00 42.18

9 Freon 114

CAS #: 76-14-2

2.446 2.446 (0.304) 135 9977 0.50000 0.4308 70.00- 130.00 100.00(a)

2.446 2.446 (0.304) 137 3488 0.74- 60.74 34.96

13 Vinyl Chloride

CAS #: 75-01-4

2.750 2.750 (0.341) 62 8903 0.50000 0.4984 70.00- 130.00 100.00(a)

2.778 2.778 (0.345) 64 3449 0.00- 30.00 38.74

12 1,3-Butadiene

CAS #: 106-99-0

2.750 2.750 (0.341) 54 9026 0.50000 0.4941 70.00- 130.00 100.00(a)

2.750 2.750 (0.341) 39 18691 0.00- 30.00 207.08

15 Bromomethane

CAS #: 74-83-9

3.303 3.303 (0.410) 94 3831 0.50000 0.3843 70.00- 130.00 100.00(a)

3.276 3.276 (0.406) 96 3954 64.36- 124.36 103.21

19 Chloroethane

CAS #: 75-00-3

3.414 3.414 (0.424) 64 4193 0.50000 0.4870 70.00- 130.00 100.00(a)

3.386 3.386 (0.420) 49 1750 0.00- 30.00 41.74

3.386 3.386 (0.420) 66 2669 0.00- 30.00 63.65

20 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.718 3.718 (0.461) 101 11583 0.50000 0.3893 70.00- 130.00 100.00(a)

3.718 3.718 (0.461) 103 8895 34.16- 94.16 76.79

30 Freon 113

CAS #: 76-13-1

4.520 4.520 (0.561) 151 6626 0.50000 0.3961 70.00- 130.00 100.00(a)

4.520 4.520 (0.561) 153 5303 34.46- 94.46 80.03

4.520 4.520 (0.561) 101 11148 102.42- 162.42 168.25

31 1,1-Dichloroethene

CAS #: 75-35-4

4.548 4.548 (0.564) 61 8890 0.50000 0.3777 70.00- 130.00 100.00(a)

4.575 4.575 (0.568) 96 5917 17.45- 77.45 66.56

4.548 4.548 (0.564) 98 6637 0.00- 59.59 74.66

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	

35	Carbon Disulfide					CAS #: 75-15-0			
4.879	4.879	(0.605)	76	13165	0.50000	0.3865	70.00- 130.00	100.00(a)	

43	Methylene Chloride					CAS #: 75-09-2			
5.432	5.432	(0.674)	49	9097	0.50000	0.4426	70.00- 130.00	100.00(a)	
5.432	5.432	(0.674)	84	5763			16.65- 76.65	63.35	
5.432	5.432	(0.674)	51	3354			0.00- 30.00	36.87	

46	MTBE					CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	10279	0.50000	0.5250	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	3398			2.93- 62.93	33.06	
5.764	5.764	(0.715)	41	2310			0.00- 30.00	22.47	

47	trans-1,2-Dichloroethene					CAS #: 156-60-5			
5.819	5.819	(0.722)	96	5329	0.50000	0.4218	70.00- 130.00	100.00(a)	
5.819	5.819	(0.722)	61	9868			161.29- 221.29	185.18	
5.792	5.792	(0.719)	98	5550			0.00- 30.00	104.15	

51	Hexane					CAS #: 110-54-3			
6.151	6.151	(0.763)	57	14136	0.50000	0.4486	70.00- 130.00	100.00(a)	
6.151	6.151	(0.763)	43	11997			0.00- 30.00	84.87	
6.151	6.151	(0.763)	86	2704			0.00- 30.00	19.13	

55	1,1-Dichloroethane					CAS #: 75-34-3			
6.594	6.594	(0.818)	63	10812	0.50000	0.4196	70.00- 130.00	100.00(a)	
6.594	6.594	(0.818)	65	4037			1.33- 61.33	37.34	

67	2-Butanone					CAS #: 78-93-3			
7.700	7.700	(0.955)	72	3137	0.50000	0.4993	70.00- 130.00	100.00(a)	
7.672	7.672	(0.952)	43	26341			613.01- 673.01	839.69	
7.672	7.672	(0.952)	57	2520			0.00- 30.00	80.33	

66	cis-1,2-Dichloroethene					CAS #: 156-59-2			
7.617	7.617	(0.945)	61	9144	0.50000	0.4491	70.00- 130.00	100.00(a)	
7.617	7.617	(0.945)	96	6259			27.71- 87.71	68.45	
7.644	7.644	(0.949)	98	3729			6.61- 66.61	40.78	

70	Tetrahydrofuran					CAS #: 109-99-9			
8.059	8.059	(1.000)	42	15823	0.50000	0.6105	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	4212			0.00- 53.13	26.62	
8.059	8.059	(1.000)	72	3155			0.00- 30.00	19.94	

72	Chloroform					CAS #: 67-66-3			
8.170	8.170	(1.014)	83	10243	0.50000	0.4730	70.00- 130.00	100.00(a)	
8.197	8.197	(1.017)	85	5416			35.04- 95.04	52.88	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

75	1,1,1-Trichloroethane					CAS #:	71-55-6		
8.419	8.419	(1.045)	97	10140	0.50000	0.4516	70.00-	130.00	100.00(a)
8.419	8.419	(1.045)	99	5333			33.38-	93.38	52.59

74	Cyclohexane					CAS #:	110-82-7		
8.391	8.391	(1.041)	84	8133	0.50000	0.4845	70.00-	130.00	100.00(a)
8.391	8.391	(1.041)	56	12828			154.90-	214.90	157.73
8.391	8.391	(1.041)	41	9386			71.49-	131.49	115.41

77	Carbon Tetrachloride					CAS #:	56-23-5		
8.667	8.667	(1.075)	119	8917	0.50000	0.4253	70.00-	130.00	100.00(a)
8.667	8.667	(1.075)	117	10941			72.64-	132.64	122.70

80	2,2,4-Trimethylpentane					CAS #:	540-84-1		
9.082	9.082	(1.127)	57	37472	0.50000	0.4255	70.00-	130.00	100.00(a)
9.110	9.110	(1.130)	56	9666			0.00-	30.00	25.80
9.082	9.082	(1.127)	41	12242			0.00-	30.00	32.67

81	Benzene					CAS #:	71-43-2		
9.082	9.082	(0.916)	78	13835	0.50000	0.4159	70.00-	130.00	100.00(a)
9.082	9.082	(0.916)	77	4201			0.00-	30.00	30.37

85	1,2-Dichloroethane					CAS #:	107-06-2		
9.248	9.248	(0.933)	62	6275	0.50000	0.3562	70.00-	130.00	100.00(a)
9.276	9.276	(0.936)	64	3960			0.00-	30.00	63.11

90	Heptane					CAS #:	142-82-5		
9.497	9.497	(0.958)	100	1977	0.50000	0.4593	70.00-	130.00	100.00(a)
9.469	9.469	(0.955)	43	29896			0.00-	30.00	1512.19
9.469	9.469	(0.955)	71	6566			0.00-	30.00	332.12

93	Trichloroethene					CAS #:	79-01-6		
10.326	10.326	(1.042)	95	5761	0.50000	0.4189	70.00-	130.00	100.00(a)
10.326	10.326	(1.042)	130	6556			70.26-	130.26	113.80
10.326	10.326	(1.042)	97	4104			31.23-	91.23	71.24

98	1,2-Dichloropropane					CAS #:	78-87-5		
10.852	10.852	(1.095)	63	6802	0.50000	0.4691	70.00-	130.00	100.00(a)
10.852	10.852	(1.095)	62	4500			44.39-	104.39	66.16
10.824	10.824	(1.092)	41	10116			40.61-	100.61	148.72

100	Bromodichloromethane					CAS #:	75-27-4		
11.377	11.377	(1.148)	83	9814	0.50000	0.4709	70.00-	130.00	100.00(a)
11.405	11.405	(1.151)	85	7770			35.07-	95.07	79.17

103	cis-1,3-Dichloropropene					CAS #:	10061-01-5		
12.289	12.289	(1.240)	75	5396	0.50000	0.3456	70.00-	130.00	100.00(a)

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
103 cis-1,3-Dichloropropene (continued)									
12.289	12.289	(1.240)	77	2077			2.12- 62.12	38.49	
12.289	12.289	(1.240)	39	10158			49.06- 109.06	188.25	

106 4-Methyl-2-pentanone CAS #: 108-10-1									
12.594	12.594	(1.271)	58	6448	0.50000	0.4103	70.00- 130.00	100.00(a)	
12.594	12.594	(1.271)	43	16805			0.00- 30.00	260.62	
12.594	12.594	(1.271)	85	2670			0.00- 30.00	41.41	

108 Toluene CAS #: 108-88-3									
12.815	12.815	(1.293)	91	14841	0.50000	0.4150	70.00- 130.00	100.00(a)	
12.815	12.815	(1.293)	92	9333			29.46- 89.46	62.89	

113 trans-1,3-Dichloropropene CAS #: 10061-02-6									
13.368	13.368	(0.891)	75	3792	0.50000	0.2556	70.00- 130.00	100.00(a)	
13.340	13.340	(0.889)	77	2883			1.57- 61.57	76.03	
13.340	13.340	(0.889)	39	5392			42.45- 102.45	142.19	

114 1,1,2-Trichloroethane CAS #: 79-00-5									
13.644	13.644	(0.910)	97	5482	0.50000	0.4386	70.00- 130.00	100.00(a)	
13.644	13.644	(0.910)	99	2835			31.96- 91.96	51.71	
13.644	13.644	(0.910)	83	5695			54.01- 114.01	103.89	

116 Tetrachloroethene CAS #: 127-18-4									
13.700	13.700	(0.913)	166	6645	0.50000	0.4218	70.00- 130.00	100.00(a)	
13.672	13.672	(0.912)	129	7714			50.41- 110.41	116.09	
13.700	13.700	(0.913)	131	6352			48.45- 108.45	95.59	

120 Dibromochloromethane CAS #: 124-48-1									
14.197	14.197	(0.947)	129	7966	0.50000	0.3987	70.00- 130.00	100.00(a)	
14.197	14.197	(0.947)	127	7674			0.00- 30.00	96.33	

122 1,2-Dibromoethane CAS #: 106-93-4									
14.363	14.363	(0.958)	107	10134	0.50000	0.5059	70.00- 130.00	100.00	
14.363	14.363	(0.958)	109	7523			63.93- 123.93	74.24	

126 Chlorobenzene CAS #: 108-90-7									
15.027	15.027	(1.002)	112	11973	0.50000	0.4010	70.00- 130.00	100.00(a)	
15.054	15.054	(1.004)	114	4512			3.06- 63.06	37.68	
15.027	15.027	(1.002)	77	14896			29.85- 89.85	124.41	

128 Ethyl Benzene CAS #: 100-41-4									
15.165	15.165	(1.011)	106	8923	0.50000	0.5166	70.00- 130.00	100.00	
15.165	15.165	(1.011)	91	22411			0.00- 30.00	251.16	

130 m,p-Xylene CAS #: 108-38-3									
15.331	15.331	(1.022)	106	9376	0.50000	0.4423	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
130 m,p-Xylene (continued)									
15.331	15.331	(1.022)	91	21428			0.00- 30.00	228.54	

132 o-Xylene CAS #: 95-47-6									
15.856	15.856	(1.057)	106	9889	0.50000	0.4856	70.00- 130.00	100.00(a)	
15.856	15.856	(1.057)	91	19214			181.03- 241.03	194.30	

133 Styrene CAS #: 100-42-5									
15.912	15.912	(1.061)	104	11954	0.50000	0.3621	70.00- 130.00	100.00(a)	
15.884	15.884	(1.059)	78	8464			20.92- 80.92	70.80	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	6485	0.50000	0.3700	70.00- 130.00	100.00(a)	
16.160	16.160	(1.077)	171	3916			21.58- 81.58	60.39	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	11971	0.50000	0.4330	70.00- 130.00	100.00(a)	
16.796	16.796	(1.120)	85	8261			34.08- 94.08	69.01	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	21569	0.50000	0.3455	70.00- 130.00	100.00(a)	
16.962	16.962	(1.131)	120	8727			0.00- 59.52	40.46	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	21648	0.50000	0.3824	70.00- 130.00	100.00(a)	
17.045	17.045	(1.136)	120	10461			0.00- 30.00	48.32	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	17255	0.50000	0.3703	70.00- 130.00	100.00(a)	
17.460	17.460	(1.164)	120	10884			16.93- 76.93	63.08	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	12158	0.50000	0.4002	70.00- 130.00	100.00(a)	
17.764	17.764	(1.184)	148	8683			0.00- 30.00	71.42	
17.764	17.764	(1.184)	111	5809			0.00- 30.00	47.78	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	15442	0.50000	0.4118	70.00- 130.00	100.00(a)	
17.847	17.847	(1.190)	148	9960			0.00- 30.00	64.50	
17.847	17.847	(1.190)	111	6845			0.00- 30.00	44.33	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	15792	0.50000	0.3011	70.00- 130.00	100.00(a)	
17.985	17.985	(1.199)	126	3465			0.00- 30.00	21.94	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	14708	0.50000	0.4704	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
159 1,2-Dichlorobenzene (continued)									
18.206	18.206	(1.214)	148	9541			32.68- 92.68	64.87	
18.206	18.206	(1.214)	111	5030			11.30- 71.30	34.20	

142 Propylbenzene CAS #: 103-65-1									
16.824	16.824	(1.122)	91	29572	0.50000	0.4294	70.00- 130.00	100.00(a)	
16.824	16.824	(1.122)	120	6586			0.00- 30.00	22.27	
16.852	16.852	(1.123)	105	1931			0.00- 30.00	6.53	

136 Cumene CAS #: 98-82-8									
16.326	16.326	(1.088)	105	25009	0.50000	0.3865	70.00- 130.00	100.00(a)	
16.326	16.326	(1.088)	120	7120			0.00- 30.00	28.47	
16.326	16.326	(1.088)	51	3984			0.00- 30.00	15.93	

94 Methyl Cyclohexane CAS #: 108-87-2									
10.548	10.548	(1.064)	83	11251	0.50000	0.5158	70.00- 130.00	100.00	
10.548	10.548	(1.064)	98	5871			0.00- 30.00	52.18	
10.548	10.548	(1.064)	55	11422			0.00- 30.00	101.52	

QC Flag Legend

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

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011709.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 2

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 0.5ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	229339	-0.56
92 1,4-Difluorobenze	903162	541897	1264427	887000	-1.79
125 Chlorobenzene-d5	808795	485277	1132313	790123	-2.31

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

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

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

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

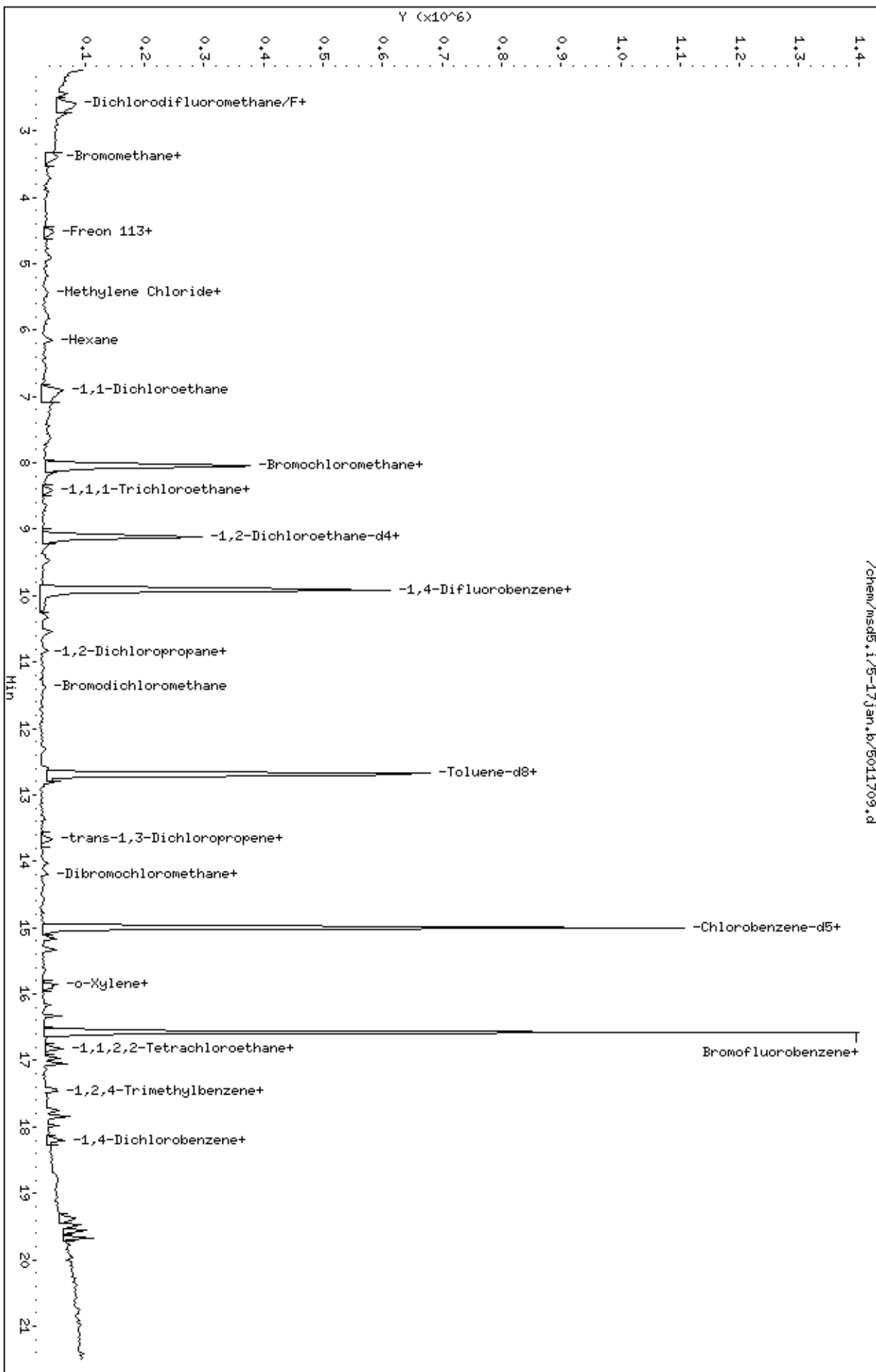
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-17jan.b/5011709.d
Date: 17-JAN-2008 13:52
Client ID: Level 2
Sample Info: 0.5mL #1576-198

Column phase: RTX-624

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

/chem/msd5.1/5-17jan.b/5011709.d



Report Date: 18-Jan-2008 11:44

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011716.d
 Lab Smp Id: ICAL Client Smp ID: Level 3
 Inj Date : 17-JAN-2008 17:51
 Operator : kr Inst ID: msd5.i
 Smp Info : 2mL #1576-198
 Misc Info : 2ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 18-Jan-2008 11:44 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 17:51 Cal File: 5011716.d
 Als bottle: 1 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	233992	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	190606			48.81- 108.81	81.46	
8.031	8.031	(1.000)	49	554319			199.42- 259.42	236.90	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	927716	25.0000		70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	152778			0.00- 46.40	16.47	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	814449	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	467471			0.00- 30.00	57.40	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	373080	25.0000	24.908	70.00- 130.00	100.00	
9.110	9.110	(1.130)	67	179110			0.00- 30.00	48.01	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.677	(1.279)	98	890704	25.0000	25.147	70.00- 130.00	100.00	
12.677	12.677	(1.279)	70	100038			0.00- 30.00	11.23	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.677	12.677	(1.279)	100	608838			0.00- 30.00	68.35	

\$ 138 Bromofluorobenzene									
						CAS #: 460-00-4			
16.575	16.575	(1.105)	174	491244	25.0000	25.480	70.00- 130.00	100.00	
16.575	16.575	(1.105)	95	686193			113.24- 173.24	139.68	
16.575	16.575	(1.105)	176	457439			67.29- 127.29	93.12	

6 Propylene									
						CAS #: 115-07-1			
2.253	2.253	(0.280)	41	30415	2.00000	1.789	70.00- 130.00	100.00(aM)	
2.253	2.253	(0.280)	42	43512			0.00- 30.00	143.06	
2.253	2.253	(0.280)	39	22570			0.00- 30.00	74.21	

8 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
2.336	2.336	(0.290)	85	49809	2.00000	1.824	70.00- 130.00	100.00	
2.336	2.336	(0.290)	87	15944			0.00- 30.00	32.01	

9 Freon 114									
						CAS #: 76-14-2			
2.446	2.446	(0.304)	135	41503	2.00000	1.756	70.00- 130.00	100.00	
2.446	2.446	(0.304)	137	11729			0.74- 60.74	28.26	

10 Chloromethane									
						CAS #: 74-87-3			
2.584	2.584	(0.321)	50	38012	2.00000	1.766	70.00- 130.00	100.00(a)	
2.584	2.584	(0.321)	52	13451			0.00- 30.00	35.39	

13 Vinyl Chloride									
						CAS #: 75-01-4			
2.750	2.750	(0.341)	62	29151	2.00000	1.599	70.00- 130.00	100.00	
2.723	2.723	(0.338)	64	10466			0.00- 30.00	35.90	

12 1,3-Butadiene									
						CAS #: 106-99-0			
2.750	2.750	(0.341)	54	36496	2.00000	1.958	70.00- 130.00	100.00	
2.723	2.723	(0.338)	39	35087			0.00- 30.00	96.14	

15 Bromomethane									
						CAS #: 74-83-9			
3.276	3.276	(0.406)	94	18396	2.00000	1.808	70.00- 130.00	100.00	
3.276	3.276	(0.406)	96	16090			64.36- 124.36	87.46	

19 Chloroethane									
						CAS #: 75-00-3			
3.359	3.359	(0.417)	64	16863	2.00000	1.920	70.00- 130.00	100.00	
3.359	3.359	(0.417)	49	5368			0.00- 30.00	31.83	
3.359	3.359	(0.417)	66	6148			0.00- 30.00	36.46	

20 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
3.718	3.718	(0.461)	101	50053	2.00000	1.649	70.00- 130.00	100.00	
3.690	3.690	(0.458)	103	35212			34.16- 94.16	70.35	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.105	4.105	(0.509)	45	13174	2.00000	1.756	70.00- 130.00	100.00(a)	
4.105	4.105	(0.509)	43	4374			0.00- 30.00	33.20	
4.105	4.105	(0.509)	46	6282			0.00- 30.00	47.68	

30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	29412	2.00000	1.723	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	17251			34.46- 94.46	58.65	
4.520	4.520	(0.561)	101	36592			102.42- 162.42	124.41	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.548	4.548	(0.564)	61	41001	2.00000	1.707	70.00- 130.00	100.00	
4.548	4.548	(0.564)	96	20752			17.45- 77.45	50.61	
4.548	4.548	(0.564)	98	13972			0.00- 59.59	34.08	

32 Acetone						CAS #: 67-64-1			
4.741	4.741	(0.588)	58	16418	2.00000	1.777	70.00- 130.00	100.00(a)	
4.714	4.714	(0.585)	43	43750			0.00- 30.00	266.48	

36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	55282	2.00000	1.510	70.00- 130.00	100.00(a)	
4.907	4.907	(0.609)	43	18693			0.00- 30.00	33.81	
4.935	4.935	(0.612)	59	1479			0.00- 30.00	2.68	

35 Carbon Disulfide						CAS #: 75-15-0			
4.879	4.879	(0.605)	76	59878	2.00000	1.723	70.00- 130.00	100.00	

38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	11032	2.00000	1.817	70.00- 130.00	100.00(a)	
5.184	5.184	(0.643)	41	55136			0.00- 30.00	499.78	

43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	34194	2.00000	1.631	70.00- 130.00	100.00	
5.432	5.432	(0.674)	84	18173			16.65- 76.65	53.15	
5.432	5.432	(0.674)	51	11079			0.00- 30.00	32.40	

46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	47455	2.00000	2.376	70.00- 130.00	100.00	
5.737	5.737	(0.712)	57	16750			2.93- 62.93	35.30	
5.764	5.764	(0.715)	41	16999			0.00- 30.00	35.82	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	22962	2.00000	1.781	70.00- 130.00	100.00	
5.819	5.819	(0.722)	61	37480			161.29- 221.29	163.23	
5.819	5.819	(0.722)	98	11541			0.00- 30.00	50.26	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
51 Hexane						CAS #:	110-54-3			
6.151	6.151	(0.763)	57	53058	2.00000	1.650	70.00- 130.00	100.00		
6.151	6.151	(0.763)	43	39208			0.00- 30.00	73.90		
6.151	6.151	(0.763)	86	7722			0.00- 30.00	14.55		

55 1,1-Dichloroethane						CAS #:	75-34-3			
6.594	6.594	(0.818)	63	46437	2.00000	1.766	70.00- 130.00	100.00		
6.594	6.594	(0.818)	65	17321			1.33- 61.33	37.30		

67 2-Butanone						CAS #:	78-93-3			
7.672	7.672	(0.952)	72	11108	2.00000	1.733	70.00- 130.00	100.00		
7.672	7.672	(0.952)	43	57043			613.01- 673.01	513.53		
7.672	7.672	(0.952)	57	4308			0.00- 30.00	38.78		

66 cis-1,2-Dichloroethene						CAS #:	156-59-2			
7.617	7.617	(0.945)	61	33810	2.00000	1.627	70.00- 130.00	100.00		
7.617	7.617	(0.945)	96	20195			27.71- 87.71	59.73		
7.617	7.617	(0.945)	98	13817			6.61- 66.61	40.87		

70 Tetrahydrofuran						CAS #:	109-99-9			
8.031	8.031	(0.997)	42	47104	2.00000	1.781	70.00- 130.00	100.00		
8.031	8.031	(0.997)	71	11998			0.00- 53.21	25.47		
8.059	8.059	(1.000)	72	13838			0.00- 30.00	29.38		

72 Chloroform						CAS #:	67-66-3			
8.197	8.197	(1.017)	83	37236	2.00000	1.502	70.00- 130.00	100.00		
8.197	8.197	(1.017)	85	21817			35.04- 95.04	58.59		

75 1,1,1-Trichloroethane						CAS #:	71-55-6			
8.419	8.419	(1.045)	97	37830	2.00000	1.651	70.00- 130.00	100.00		
8.419	8.419	(1.045)	99	21243			33.38- 93.38	56.15		

74 Cyclohexane						CAS #:	110-82-7			
8.391	8.391	(1.041)	84	27053	2.00000	1.580	70.00- 130.00	100.00		
8.391	8.391	(1.041)	56	47575			154.90- 214.90	175.86		
8.391	8.391	(1.041)	41	30704			71.49- 131.49	113.50		

56 Vinyl Acetate						CAS #:	108-05-4			
6.151	6.151	(0.763)	86	7722	2.00000	1.939	70.00- 130.00	100.00(a)		
6.151	6.151	(0.763)	43	39208			0.00- 30.00	507.74		
6.151	6.151	(0.763)	42	24699			0.00- 30.00	319.85		

77 Carbon Tetrachloride						CAS #:	56-23-5			
8.667	8.667	(1.075)	119	35512	2.00000	1.660	70.00- 130.00	100.00		
8.667	8.667	(1.075)	117	34352			72.64- 132.64	96.73		

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.082	9.082	(1.127)	57	143131	2.00000	1.593	70.00-	130.00	100.00	
9.082	9.082	(1.127)	56	52126			0.00-	30.00	36.42	
9.082	9.082	(1.127)	41	46529			0.00-	30.00	32.51	

81	Benzene					CAS #:	71-43-2			
9.082	9.082	(0.916)	78	57162	2.00000	1.514	70.00-	130.00	100.00	
9.082	9.082	(0.916)	77	17011			0.00-	30.00	29.76	

85	1,2-Dichloroethane					CAS #:	107-06-2			
9.276	9.276	(0.936)	62	31885	2.00000	1.731	70.00-	130.00	100.00	
9.248	9.248	(0.933)	64	9504			0.00-	30.00	29.81	

90	Heptane					CAS #:	142-82-5			
9.469	9.469	(0.955)	100	7681	2.00000	1.706	70.00-	130.00	100.00	
9.469	9.469	(0.955)	43	62726			0.00-	30.00	816.64	
9.469	9.469	(0.955)	71	21517			0.00-	30.00	280.13	

93	Trichloroethene					CAS #:	79-01-6			
10.326	10.326	(1.042)	95	23844	2.00000	1.658	70.00-	130.00	100.00	
10.326	10.326	(1.042)	130	24725			70.26-	130.26	103.69	
10.326	10.326	(1.042)	97	15279			31.23-	91.23	64.08	

98	1,2-Dichloropropane					CAS #:	78-87-5			
10.824	10.824	(1.092)	63	22388	2.00000	1.476	70.00-	130.00	100.00	
10.824	10.824	(1.092)	62	17489			44.39-	104.39	78.12	
10.824	10.824	(1.092)	41	19430			40.61-	100.61	86.79	

99	1,4-Dioxane					CAS #:	123-91-1			
11.073	11.073	(1.117)	88	14751	2.00000	1.714	70.00-	130.00	100.00(a)	
11.073	11.073	(1.117)	58	16351			72.11-	132.11	110.85	
11.073	11.073	(1.117)	57	8163			0.00-	30.00	55.34	

100	Bromodichloromethane					CAS #:	75-27-4			
11.405	11.405	(1.151)	83	32107	2.00000	1.473	70.00-	130.00	100.00	
11.377	11.377	(1.148)	85	20233			35.07-	95.07	63.02	

103	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.317	12.317	(1.243)	75	26772	2.00000	1.640	70.00-	130.00	100.00	
12.317	12.317	(1.243)	77	7963			2.12-	62.12	29.74	
12.289	12.289	(1.240)	39	20362			49.06-	109.06	76.06	

106	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.594	12.594	(1.271)	58	23541	2.00000	1.432	70.00-	130.00	100.00	
12.594	12.594	(1.271)	43	73475			0.00-	30.00	312.12	
12.594	12.594	(1.271)	85	10083			0.00-	30.00	42.83	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #:	108-88-3		
12.815	12.815	(1.293)	91	62591	2.00000	1.673	70.00-	130.00	100.00
12.815	12.815	(1.293)	92	37961			29.46-	89.46	60.65

113 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
13.368	13.368	(0.891)	75	20395	2.00000	1.334	70.00-	130.00	100.00
13.368	13.368	(0.891)	77	9282			1.57-	61.57	45.51
13.340	13.340	(0.889)	39	12544			42.45-	102.45	61.51

114 1,1,2-Trichloroethane						CAS #:	79-00-5		
13.644	13.644	(0.910)	97	22392	2.00000	1.738	70.00-	130.00	100.00
13.644	13.644	(0.910)	99	12042			31.96-	91.96	53.78
13.644	13.644	(0.910)	83	20715			54.01-	114.01	92.51

116 Tetrachloroethene						CAS #:	127-18-4		
13.700	13.700	(0.913)	166	27079	2.00000	1.667	70.00-	130.00	100.00
13.700	13.700	(0.913)	129	21853			50.41-	110.41	80.70
13.672	13.672	(0.912)	131	21614			48.45-	108.45	79.82

119 2-Hexanone						CAS #:	591-78-6		
14.031	14.031	(0.935)	58	30686	2.00000	1.472	70.00-	130.00	100.00(a)
14.004	14.004	(0.934)	43	68189			177.96-	237.96	222.22
14.031	14.031	(0.935)	100	5453			0.00-	30.00	17.77

120 Dibromochloromethane						CAS #:	124-48-1		
14.197	14.197	(0.947)	129	32096	2.00000	1.558	70.00-	130.00	100.00
14.197	14.197	(0.947)	127	25251			0.00-	30.00	78.67

122 1,2-Dibromoethane						CAS #:	106-93-4		
14.363	14.363	(0.958)	107	32997	2.00000	1.598	70.00-	130.00	100.00
14.363	14.363	(0.958)	109	27280			63.93-	123.93	82.67

126 Chlorobenzene						CAS #:	108-90-7		
15.027	15.027	(1.002)	112	51070	2.00000	1.659	70.00-	130.00	100.00
15.027	15.027	(1.002)	114	19214			3.06-	63.06	37.62
15.027	15.027	(1.002)	77	35414			29.85-	89.85	69.34

128 Ethyl Benzene						CAS #:	100-41-4		
15.165	15.165	(1.011)	106	26658	2.00000	1.497	70.00-	130.00	100.00
15.165	15.165	(1.011)	91	82374			0.00-	30.00	309.00

130 m,p-Xylene						CAS #:	108-38-3		
15.331	15.331	(1.022)	106	34522	2.00000	1.580	70.00-	130.00	100.00
15.331	15.331	(1.022)	91	68516			0.00-	30.00	198.47

132 o-Xylene						CAS #:	95-47-6		
15.856	15.856	(1.057)	106	35343	2.00000	1.684	70.00-	130.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	73019			181.03- 241.03	206.60	

133 Styrene									
15.912	15.912	(1.061)	104	48986	2.00000	1.440	70.00- 130.00	100.00	
15.912	15.912	(1.061)	78	24517			20.92- 80.92	50.05	

134 Bromoform									
16.160	16.160	(1.077)	173	28782	2.00000	1.593	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	14632			21.58- 81.58	50.84	

141 1,1,2,2-Tetrachloroethane									
16.796	16.796	(1.120)	83	49026	2.00000	1.720	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	31238			34.08- 94.08	63.72	

144 4-Ethyltoluene									
16.962	16.962	(1.131)	105	108742	2.00000	1.690	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	32838			0.00- 59.52	30.20	

147 1,3,5-Trimethylbenzene									
17.045	17.045	(1.136)	105	102786	2.00000	1.761	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	46616			0.00- 30.00	45.35	

152 1,2,4-Trimethylbenzene									
17.460	17.460	(1.164)	105	87170	2.00000	1.815	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	38877			16.93- 76.93	44.60	

155 1,3-Dichlorobenzene									
17.764	17.764	(1.184)	146	57872	2.00000	1.848	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	34761			0.00- 30.00	60.07	
17.764	17.764	(1.184)	111	23715			0.00- 30.00	40.98	

156 1,4-Dichlorobenzene									
17.847	17.847	(1.190)	146	62666	2.00000	1.621	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	40292			0.00- 30.00	64.30	
17.847	17.847	(1.190)	111	24555			0.00- 30.00	39.18	

157 alpha-Chlorotoluene									
17.985	17.985	(1.199)	91	73798	2.00000	1.365	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	12354			0.00- 30.00	16.74	

159 1,2-Dichlorobenzene									
18.206	18.206	(1.214)	146	57764	2.00000	1.792	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	36592			32.68- 92.68	63.35	
18.206	18.206	(1.214)	111	26243			11.30- 71.30	45.43	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	52157	2.00000	2.164	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	48154			65.42- 125.42	92.33	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	38548	2.00000	2.024	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	21494			33.29- 93.29	55.76	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	117425	2.00000	1.654	70.00- 130.00	100.00	
16.824	16.824	(1.122)	120	26441			0.00- 30.00	22.52	
16.824	16.824	(1.122)	105	5904			0.00- 30.00	5.03	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	104755	2.00000	1.570	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	26260			0.00- 30.00	25.07	
16.326	16.326	(1.088)	51	16085			0.00- 30.00	15.35	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	177058	2.00000	2.019	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	23526			0.00- 30.00	13.29	

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	50285	2.00000	1.690	70.00- 130.00	100.00(a)	
3.414	3.414	(0.424)	57	32888			0.00- 30.00	65.40	
3.414	3.414	(0.424)	72	2599			0.00- 30.00	5.17	

11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	9640	2.00000	1.957	70.00- 130.00	100.00(a)	
2.667	2.667	(0.331)	43	71099			0.00- 30.00	737.54	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.548	10.548	(1.064)	83	35980	2.00000	1.577	70.00- 130.00	100.00	
10.548	10.548	(1.064)	98	18159			0.00- 30.00	50.47	
10.548	10.548	(1.064)	55	50012			0.00- 30.00	139.00	

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

Report Date: 18-Jan-2008 11:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011716.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 3

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: kr

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 2ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	233992	1.46
92 1,4-Difluorobenze	903162	541897	1264427	927716	2.72
125 Chlorobenzene-d5	808795	485277	1132313	814449	0.70

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

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

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

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

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

Data File: /chem/msd5.1/5-17jan,b/5011716.d

Date: 17-JAN-2008 17:51

Client ID: Level 3

Sample Info: 2mL #1576-198

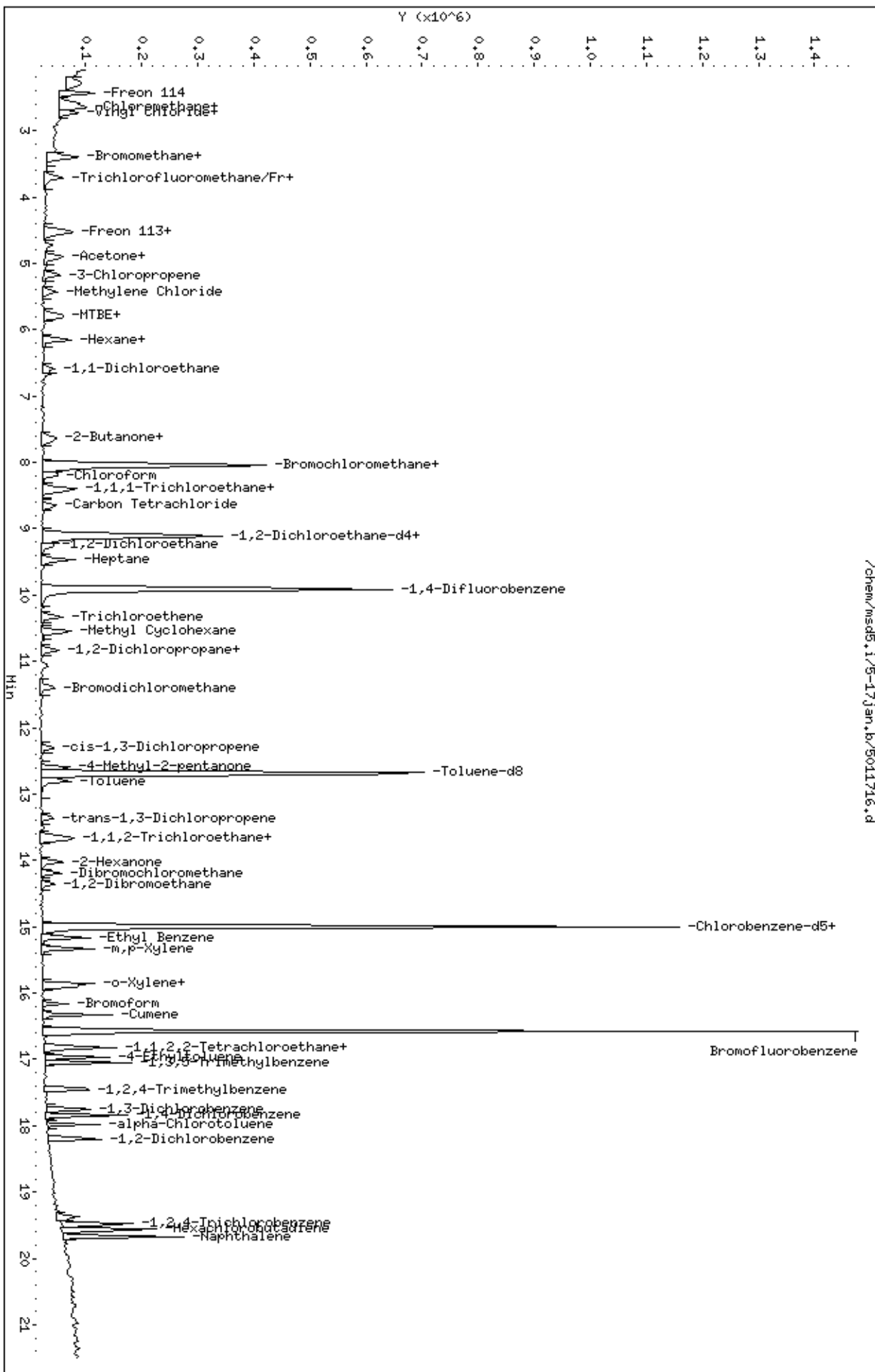
Column phase: RTX-624

Instrument: msd5.1

Operator: kp

Column diameter: 0.53

/chem/msd5.1/5-17jan,b/5011716.d



Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011711.d
 Lab Smp Id: ICAL Client Smp ID: Level 4
 Inj Date : 17-JAN-2008 14:47
 Operator : cb Inst ID: msd5.i
 Smp Info : 25mL #1576-198
 Misc Info : 25ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 14:47 Cal File: 5011711.d
 Als bottle: 1 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5								
8.059	8.059	(1.000)	130	228034	25.0000		70.00- 130.00	100.00
8.031	8.031	(1.000)	128	177670			48.81- 108.81	77.91
8.031	8.031	(1.000)	49	521393			199.42- 259.42	228.65

* 92 1,4-Difluorobenzene CAS #: 540-36-3								
9.912	9.912	(1.000)	114	886847	25.0000		70.00- 130.00	100.00
9.912	9.912	(1.000)	88	143685			0.00- 46.40	16.20

* 125 Chlorobenzene-d5 CAS #: 3114-55-4								
14.999	14.999	(1.000)	117	797031	25.0000		70.00- 130.00	100.00
14.999	14.999	(1.000)	82	452387			0.00- 30.00	56.76

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
9.110	9.110	(1.130)	65	356908	25.0000	24.450	70.00- 130.00	100.00
9.110	9.110	(1.130)	67	180230			0.00- 30.00	50.50

\$ 107 Toluene-d8 CAS #: 2037-26-5								
12.677	12.677	(1.279)	98	852422	25.0000	25.175	70.00- 130.00	100.00
12.677	12.677	(1.279)	70	91077			0.00- 30.00	10.68

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.677	12.677	(1.279)	100	615132			0.00- 30.00	72.16		

\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	470105	25.0000	24.917	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	681479			113.24- 173.24	144.96		
16.575	16.575	(1.105)	176	454244			67.29- 127.29	96.63		

6 Propylene										
						CAS #: 115-07-1				
2.280	2.280	(0.283)	41	454424	25.0000	25.894	70.00- 130.00	100.00		
2.280	2.280	(0.283)	42	313829			0.00- 30.00	69.06		
2.280	2.280	(0.283)	39	325374			0.00- 30.00	71.60		

8 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.336	2.336	(0.290)	85	791298	25.0000	29.740	70.00- 130.00	100.00		
2.336	2.336	(0.290)	87	254908			0.00- 30.00	32.21		

9 Freon 114										
						CAS #: 76-14-2				
2.446	2.446	(0.304)	135	665854	25.0000	28.916	70.00- 130.00	100.00		
2.446	2.446	(0.304)	137	206771			0.74- 60.74	31.05		

10 Chloromethane										
						CAS #: 74-87-3				
2.584	2.584	(0.321)	50	590667	25.0000	28.161	70.00- 130.00	100.00		
2.584	2.584	(0.321)	52	176215			0.00- 30.00	29.83		

13 Vinyl Chloride										
						CAS #: 75-01-4				
2.750	2.750	(0.341)	62	506400	25.0000	28.511	70.00- 130.00	100.00		
2.750	2.750	(0.341)	64	152766			0.00- 30.00	30.17		

12 1,3-Butadiene										
						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	499866	25.0000	27.521	70.00- 130.00	100.00		
2.750	2.750	(0.341)	39	530362			0.00- 30.00	106.10		

15 Bromomethane										
						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	274259	25.0000	27.667	70.00- 130.00	100.00		
3.276	3.276	(0.406)	96	264101			64.36- 124.36	96.30		

19 Chloroethane										
						CAS #: 75-00-3				
3.386	3.386	(0.420)	64	243168	25.0000	28.408	70.00- 130.00	100.00		
3.386	3.386	(0.420)	49	78320			0.00- 30.00	32.21		
3.386	3.386	(0.420)	66	78752			0.00- 30.00	32.39		

20 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	864035	25.0000	29.204	70.00- 130.00	100.00		
3.718	3.718	(0.461)	103	564315			34.16- 94.16	65.31		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.078	4.078	(0.506)	45	213966	25.0000	29.258	70.00- 130.00	100.00	
4.078	4.078	(0.506)	43	43007			0.00- 30.00	20.10	
4.078	4.078	(0.506)	46	89869			0.00- 30.00	42.00	

30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	487507	25.0000	29.308	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	309405			34.46- 94.46	63.47	
4.520	4.520	(0.561)	101	636934			102.42- 162.42	130.65	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.548	4.548	(0.564)	61	671823	25.0000	28.705	70.00- 130.00	100.00	
4.548	4.548	(0.564)	96	318517			17.45- 77.45	47.41	
4.548	4.548	(0.564)	98	208463			0.00- 59.59	31.03	

32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	243913	25.0000	27.088	70.00- 130.00	100.00	
4.713	4.713	(0.585)	43	790375			0.00- 30.00	324.04	

36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	998426	25.0000	27.983	70.00- 130.00	100.00	
4.907	4.907	(0.609)	43	207658			0.00- 30.00	20.80	
4.907	4.907	(0.609)	59	33506			0.00- 30.00	3.36	

35 Carbon Disulfide						CAS #: 75-15-0			
4.879	4.879	(0.605)	76	981162	25.0000	28.972	70.00- 130.00	100.00	

38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	167623	25.0000	28.328	70.00- 130.00	100.00	
5.184	5.184	(0.643)	41	757267			0.00- 30.00	451.77	

43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	582723	25.0000	28.514	70.00- 130.00	100.00	
5.432	5.432	(0.674)	84	281071			16.65- 76.65	48.23	
5.432	5.432	(0.674)	51	182750			0.00- 30.00	31.36	

46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	538006	25.0000	27.637	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	182840			2.93- 62.93	33.98	
5.764	5.764	(0.715)	41	173862			0.00- 30.00	32.32	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	353746	25.0000	28.159	70.00- 130.00	100.00	
5.819	5.819	(0.722)	61	671887			161.29- 221.29	189.93	
5.819	5.819	(0.722)	98	223626			0.00- 30.00	63.22	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	891045	25.0000	28.440	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	646785			0.00- 30.00	72.59	
6.151	6.151	(0.763)	86	103428			0.00- 30.00	11.61	

55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	732413	25.0000	28.585	70.00- 130.00	100.00	
6.594	6.594	(0.818)	65	224935			1.33- 61.33	30.71	

67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	172435	25.0000	27.605	70.00- 130.00	100.00	
7.644	7.644	(0.949)	43	1093288			613.01- 673.01	634.03	
7.644	7.644	(0.949)	57	73204			0.00- 30.00	42.45	

66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	587163	25.0000	29.001	70.00- 130.00	100.00	
7.617	7.617	(0.945)	96	331862			27.71- 87.71	56.52	
7.617	7.617	(0.945)	98	206690			6.61- 66.61	35.20	

70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	669423	25.0000	25.976	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	150932			0.00- 53.13	22.55	
8.031	8.031	(0.997)	72	180270			0.00- 30.00	26.93	

72 Chloroform						CAS #: 67-66-3			
8.170	8.170	(1.014)	83	609579	25.0000	28.311	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	386492			35.04- 95.04	63.40	

75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.419	8.419	(1.045)	97	635044	25.0000	28.446	70.00- 130.00	100.00	
8.419	8.419	(1.045)	99	415629			33.38- 93.38	65.45	

74 Cyclohexane						CAS #: 110-82-7			
8.391	8.391	(1.041)	84	459012	25.0000	27.500	70.00- 130.00	100.00	
8.391	8.391	(1.041)	56	877548			154.90- 214.90	191.18	
8.391	8.391	(1.041)	41	485602			71.49- 131.49	105.79	

56 Vinyl Acetate						CAS #: 108-05-4			
6.151	6.151	(0.763)	86	103428	25.0000	26.656	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	646785			0.00- 30.00	625.35	
6.151	6.151	(0.763)	42	299751			0.00- 30.00	289.82	

77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	588034	25.0000	28.210	70.00- 130.00	100.00	
8.667	8.667	(1.075)	117	606829			72.64- 132.64	103.20	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.082	9.082	(1.127)	57	2529483	25.0000	28.885	70.00-	130.00	100.00	
9.082	9.082	(1.127)	56	834065			0.00-	30.00	32.97	
9.082	9.082	(1.127)	41	667737			0.00-	30.00	26.40	

81	Benzene					CAS #:	71-43-2			
9.082	9.082	(0.916)	78	973847	25.0000	29.284	70.00-	130.00	100.00	
9.082	9.082	(0.916)	77	221224			0.00-	30.00	22.72	

85	1,2-Dichloroethane					CAS #:	107-06-2			
9.248	9.248	(0.933)	62	515820	25.0000	29.289	70.00-	130.00	100.00	
9.248	9.248	(0.933)	64	160423			0.00-	30.00	31.10	

90	Heptane					CAS #:	142-82-5			
9.469	9.469	(0.955)	100	121878	25.0000	28.320	70.00-	130.00	100.00	
9.469	9.469	(0.955)	43	1048713			0.00-	30.00	860.46	
9.469	9.469	(0.955)	71	370761			0.00-	30.00	304.21	

93	Trichloroethene					CAS #:	79-01-6			
10.326	10.326	(1.042)	95	403417	25.0000	29.337	70.00-	130.00	100.00	
10.326	10.326	(1.042)	130	404457			70.26-	130.26	100.26	
10.326	10.326	(1.042)	97	255331			31.23-	91.23	63.29	

98	1,2-Dichloropropane					CAS #:	78-87-5			
10.824	10.824	(1.092)	63	423604	25.0000	29.220	70.00-	130.00	100.00	
10.824	10.824	(1.092)	62	301135			44.39-	104.39	71.09	
10.824	10.824	(1.092)	41	297095			40.61-	100.61	70.14	

99	1,4-Dioxane					CAS #:	123-91-1			
11.073	11.073	(1.117)	88	224170	25.0000	27.248	70.00-	130.00	100.00	
11.045	11.045	(1.114)	58	233194			72.11-	132.11	104.03	
11.045	11.045	(1.114)	57	73000			0.00-	30.00	32.56	

100	Bromodichloromethane					CAS #:	75-27-4			
11.377	11.377	(1.148)	83	602389	25.0000	28.910	70.00-	130.00	100.00	
11.377	11.377	(1.148)	85	377311			35.07-	95.07	62.64	

103	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.289	12.289	(1.240)	75	466530	25.0000	29.888	70.00-	130.00	100.00	
12.289	12.289	(1.240)	77	152067			2.12-	62.12	32.60	
12.289	12.289	(1.240)	39	372546			49.06-	109.06	79.85	

106	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.594	12.594	(1.271)	58	425936	25.0000	27.109	70.00-	130.00	100.00	
12.594	12.594	(1.271)	43	1178315			0.00-	30.00	276.64	
12.594	12.594	(1.271)	85	131414			0.00-	30.00	30.85	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	1048159	25.0000	29.312	70.00- 130.00	100.00	
12.815	12.815	(1.293)	92	635755			29.46- 89.46	60.65	

113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	456401	25.0000	30.503	70.00- 130.00	100.00	
13.368	13.368	(0.891)	77	138906			1.57- 61.57	30.44	
13.340	13.340	(0.889)	39	335810			42.45- 102.45	73.58	

114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	358581	25.0000	28.439	70.00- 130.00	100.00	
13.644	13.644	(0.910)	99	221391			31.96- 91.96	61.74	
13.644	13.644	(0.910)	83	292806			54.01- 114.01	81.66	

116 Tetrachloroethene						CAS #: 127-18-4			
13.700	13.700	(0.913)	166	460674	25.0000	28.986	70.00- 130.00	100.00	
13.672	13.672	(0.912)	129	369723			50.41- 110.41	80.26	
13.672	13.672	(0.912)	131	361036			48.45- 108.45	78.37	

119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	561109	25.0000	27.511	70.00- 130.00	100.00	
14.004	14.004	(0.934)	43	1185114			177.96- 237.96	211.21	
14.004	14.004	(0.934)	100	84058			0.00- 30.00	14.98	

120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	582335	25.0000	28.896	70.00- 130.00	100.00	
14.197	14.197	(0.947)	127	434638			0.00- 30.00	74.64	

122 1,2-Dibromoethane						CAS #: 106-93-4			
14.335	14.335	(0.956)	107	555706	25.0000	27.503	70.00- 130.00	100.00	
14.335	14.335	(0.956)	109	530055			63.93- 123.93	95.38	

126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	865930	25.0000	28.748	70.00- 130.00	100.00	
15.027	15.027	(1.002)	114	286916			3.06- 63.06	33.13	
15.027	15.027	(1.002)	77	519366			29.85- 89.85	59.98	

128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	499957	25.0000	28.695	70.00- 130.00	100.00	
15.165	15.165	(1.011)	91	1519101			0.00- 30.00	303.85	

130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	612074	25.0000	28.625	70.00- 130.00	100.00	
15.331	15.331	(1.022)	91	1232602			0.00- 30.00	201.38	

132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	566339	25.0000	27.569	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	1219581			181.03- 241.03	215.34	

133 Styrene CAS #: 100-42-5									
15.912	15.912	(1.061)	104	916621	25.0000	27.527	70.00- 130.00	100.00	
15.884	15.884	(1.059)	78	473312			20.92- 80.92	51.64	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	506167	25.0000	28.631	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	263382			21.58- 81.58	52.03	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	784264	25.0000	28.122	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	503219			34.08- 94.08	64.16	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	1865273	25.0000	29.621	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	546519			0.00- 59.52	29.30	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	1656854	25.0000	29.013	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	805766			0.00- 30.00	48.63	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	1336326	25.0000	28.428	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	620086			16.93- 76.93	46.40	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	843166	25.0000	27.517	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	539113			0.00- 30.00	63.94	
17.764	17.764	(1.184)	111	348124			0.00- 30.00	41.29	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	1091240	25.0000	28.848	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	685370			0.00- 30.00	62.81	
17.847	17.847	(1.190)	111	458752			0.00- 30.00	42.04	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	1456602	25.0000	27.531	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	293838			0.00- 30.00	20.17	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	846755	25.0000	26.844	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	542630			32.68- 92.68	64.08	
18.206	18.206	(1.214)	111	348182			11.30- 71.30	41.12	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.478	19.478	(1.299)	180	598595	25.0000	25.378	70.00- 130.00	100.00	
19.478	19.478	(1.299)	182	564590			65.42- 125.42	94.32	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	477213	25.0000	25.599	70.00- 130.00	100.00	
19.561	19.561	(1.304)	223	297184			33.29- 93.29	62.27	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	1976748	25.0000	28.457	70.00- 130.00	100.00	
16.824	16.824	(1.122)	120	458059			0.00- 30.00	23.17	
16.824	16.824	(1.122)	105	70977			0.00- 30.00	3.59	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	1758108	25.0000	26.935	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	460910			0.00- 30.00	26.22	
16.326	16.326	(1.088)	51	252946			0.00- 30.00	14.39	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	2242425	25.0000	26.128	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	287589			0.00- 30.00	12.82	

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	817260	25.0000	28.192	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	504885			0.00- 30.00	61.78	
3.414	3.414	(0.424)	72	42490			0.00- 30.00	5.20	

11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	134378	25.0000	27.991	70.00- 130.00	100.00	
2.667	2.667	(0.331)	43	1049024			0.00- 30.00	780.65	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.548	10.548	(1.064)	83	619349	25.0000	28.401	70.00- 130.00	100.00	
10.548	10.548	(1.064)	98	290281			0.00- 30.00	46.87	
10.548	10.548	(1.064)	55	753690			0.00- 30.00	121.69	

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011711.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 4

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 25ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	228034	-1.12
92 1,4-Difluorobenze	903162	541897	1264427	886847	-1.81
125 Chlorobenzene-d5	808795	485277	1132313	797031	-1.45

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

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

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

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

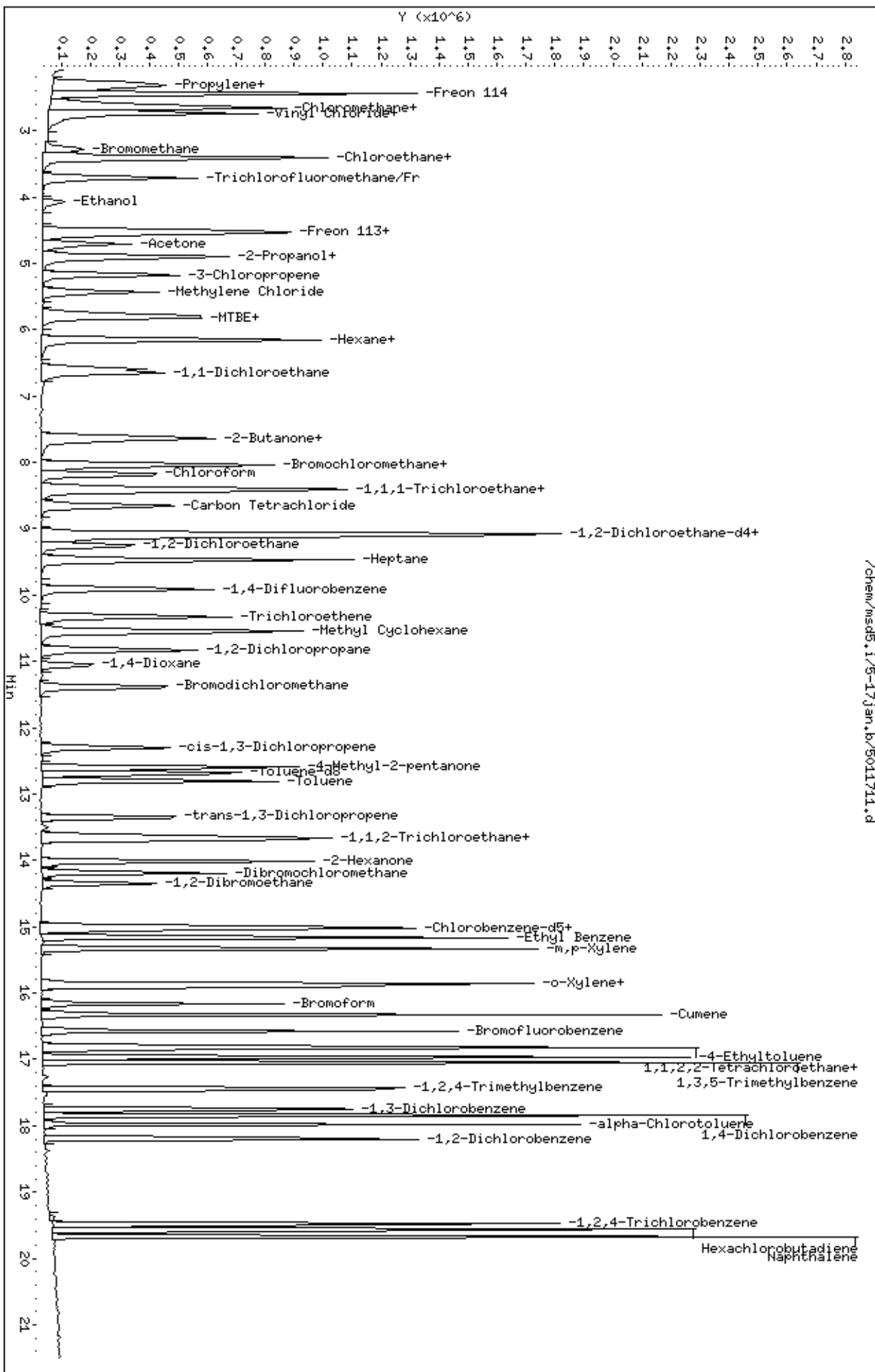
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msds.1/5-17jan.b/5011711.d
Date: 17-JAN-2008 14:47
Client ID: Level 4
Sample Info: 25mL #1576-198

Column phase: RTX-624

Instrument: msds.i
Operator: cb
Column diameter: 0.53

/chem/msds.1/5-17jan.b/5011711.d



Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011712.d
 Lab Smp Id: ICAL Client Smp ID: Level 5
 Inj Date : 17-JAN-2008 15:15
 Operator : cb Inst ID: msd5.i
 Smp Info : 50mL #1576-198
 Misc Info : 50ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 15:15 Cal File: 5011712.d
 Als bottle: 1 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	230627	25.0000			80.00- 120.00	100.00
8.059	8.059	(1.000)	128	181746				48.81- 108.81	78.81
8.031	8.031	(1.000)	49	529096				199.42- 259.42	229.42

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	903162	25.0000			80.00- 120.00	100.00
9.912	9.912	(1.000)	88	148147				0.00- 46.40	16.40

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	808795	25.0000			80.00- 120.00	100.00
14.999	14.999	(1.000)	82	446720				25.23- 85.23	55.23

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	371729	25.0000	25.179		80.00- 120.00	100.00
9.110	9.110	(1.130)	67	195844				22.68- 82.68	52.68

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.676	12.676	(1.279)	98	875733	25.0000	25.396		80.00- 120.00	100.00
12.676	12.676	(1.279)	70	95316				0.00- 40.88	10.88

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.676	12.676	(1.279)	100	580185			36.25- 96.25	66.25	

\$ 138 Bromofluorobenzene									
						CAS #: 460-00-4			
16.575	16.575	(1.105)	174	471082	25.0000	24.605	80.00- 120.00	100.00	
16.575	16.575	(1.105)	95	674777			113.24- 173.24	143.24	
16.575	16.575	(1.105)	176	458313			67.29- 127.29	97.29	

6 Propylene									
						CAS #: 115-07-1			
2.280	2.280	(0.283)	41	878964	50.0000	49.522	80.00- 120.00	100.00	
2.280	2.280	(0.283)	42	580064			35.99- 95.99	65.99	
2.280	2.280	(0.283)	39	593699			37.55- 97.55	67.55	

8 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
2.336	2.336	(0.290)	85	1439014	50.0000	53.476	80.00- 120.00	100.00	
2.336	2.336	(0.290)	87	468918			2.59- 62.59	32.59	

9 Freon 114									
						CAS #: 76-14-2			
2.446	2.446	(0.304)	135	1305165	50.0000	56.043	80.00- 120.00	100.00	
2.446	2.446	(0.304)	137	401159			0.74- 60.74	30.74	

10 Chloromethane									
						CAS #: 74-87-3			
2.584	2.584	(0.321)	50	1134056	50.0000	53.460	80.00- 120.00	100.00	
2.584	2.584	(0.321)	52	338868			0.00- 59.88	29.88	

13 Vinyl Chloride									
						CAS #: 75-01-4			
2.750	2.750	(0.341)	62	983881	50.0000	54.770	80.00- 120.00	100.00	
2.750	2.750	(0.341)	64	295263			0.01- 60.01	30.01	

12 1,3-Butadiene									
						CAS #: 106-99-0			
2.750	2.750	(0.341)	54	949820	50.0000	51.707	80.00- 120.00	100.00	
2.750	2.750	(0.341)	39	1046774			80.21- 140.21	110.21	

15 Bromomethane									
						CAS #: 74-83-9			
3.276	3.276	(0.406)	94	559136	50.0000	55.771	80.00- 120.00	100.00	
3.276	3.276	(0.406)	96	527581			64.36- 124.36	94.36	

19 Chloroethane									
						CAS #: 75-00-3			
3.386	3.386	(0.420)	64	449527	50.0000	51.925	80.00- 120.00	100.00	
3.386	3.386	(0.420)	49	148676			3.07- 63.07	33.07	
3.386	3.386	(0.420)	66	142201			1.63- 61.63	31.63	

20 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
3.718	3.718	(0.461)	101	1700708	50.0000	56.838	80.00- 120.00	100.00	
3.718	3.718	(0.461)	103	1091128			34.16- 94.16	64.16	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.077	4.077	(0.506)	45	412604	50.0000	55.786	80.00- 120.00	100.00	
4.077	4.077	(0.506)	43	85697			0.00- 50.77	20.77	
4.077	4.077	(0.506)	46	171561			11.58- 71.58	41.58	

30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	933285	50.0000	55.477	80.00- 120.00	100.00	
4.520	4.520	(0.561)	153	601604			34.46- 94.46	64.46	
4.520	4.520	(0.561)	101	1235852			102.42- 162.42	132.42	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.548	4.548	(0.564)	61	1336614	50.0000	56.468	80.00- 120.00	100.00	
4.548	4.548	(0.564)	96	634243			17.45- 77.45	47.45	
4.548	4.548	(0.564)	98	395525			0.00- 59.59	29.59	

32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	476602	50.0000	52.334	80.00- 120.00	100.00	
4.713	4.713	(0.585)	43	1578793			301.26- 361.26	331.26	

36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	1993902	50.0000	55.255	80.00- 120.00	100.00	
4.907	4.907	(0.609)	43	390681			0.00- 49.59	19.59	
4.907	4.907	(0.609)	59	66431			0.00- 33.33	3.33	

35 Carbon Disulfide						CAS #: 75-15-0			
4.879	4.879	(0.605)	76	1907831	50.0000	55.701	80.00- 120.00	100.00	

38 3-Chloropropene						CAS #: 107-05-1			
5.183	5.183	(0.643)	76	312422	50.0000	52.205	80.00- 120.00	100.00	
5.183	5.183	(0.643)	41	1469620			440.40- 500.40	470.40	

43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	1144379	50.0000	55.368	80.00- 120.00	100.00	
5.432	5.432	(0.674)	84	533824			16.65- 76.65	46.65	
5.432	5.432	(0.674)	51	340675			0.00- 59.77	29.77	

46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	993264	50.0000	50.450	80.00- 120.00	100.00	
5.764	5.764	(0.715)	57	327063			2.93- 62.93	32.93	
5.764	5.764	(0.715)	41	322660			2.48- 62.48	32.48	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	692401	50.0000	54.498	80.00- 120.00	100.00	
5.819	5.819	(0.722)	61	1324520			161.29- 221.29	191.29	
5.819	5.819	(0.722)	98	430261			32.14- 92.14	62.14	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	1724676	50.0000	54.428	80.00- 120.00	100.00	
6.151	6.151	(0.763)	43	1229604			41.29- 101.29	71.29	
6.151	6.151	(0.763)	86	201795			0.00- 41.70	11.70	

55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	1399401	50.0000	54.002	80.00- 120.00	100.00	
6.594	6.594	(0.818)	65	438488			1.33- 61.33	31.33	

67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	330308	50.0000	52.284	80.00- 120.00	100.00	
7.644	7.644	(0.949)	43	2123903			613.01- 673.01	643.01	
7.644	7.644	(0.949)	57	154418			16.75- 76.75	46.75	

66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	1110544	50.0000	54.235	80.00- 120.00	100.00	
7.617	7.617	(0.945)	96	640874			27.71- 87.71	57.71	
7.617	7.617	(0.945)	98	406531			6.61- 66.61	36.61	

70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	1293233	50.0000	49.619	80.00- 120.00	100.00	
8.031	8.031	(0.997)	71	300217			0.00- 53.21	23.21	
8.031	8.031	(0.997)	72	326813			0.00- 55.27	25.27	

72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	1162980	50.0000	53.406	80.00- 120.00	100.00	
8.197	8.197	(1.017)	85	756445			35.04- 95.04	65.04	

75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.418	8.418	(1.045)	97	1230914	50.0000	54.518	80.00- 120.00	100.00	
8.418	8.418	(1.045)	99	780153			33.38- 93.38	63.38	

74 Cyclohexane						CAS #: 110-82-7			
8.391	8.391	(1.041)	84	927048	50.0000	54.917	80.00- 120.00	100.00	
8.391	8.391	(1.041)	56	1714150			154.90- 214.90	184.90	
8.391	8.391	(1.041)	41	940898			71.49- 131.49	101.49	

56 Vinyl Acetate						CAS #: 108-05-4			
6.151	6.151	(0.763)	86	201795	50.0000	51.422	80.00- 120.00	100.00	
6.151	6.151	(0.763)	43	1229604			579.33- 639.33	609.33	
6.151	6.151	(0.763)	42	605374			269.99- 329.99	299.99	

77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	1156767	50.0000	54.871	80.00- 120.00	100.00	
8.667	8.667	(1.075)	117	1187359			72.64- 132.64	102.64	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.082	9.082	(1.127)	57	4920237	50.0000	55.553	80.00- 120.00	100.00		
9.082	9.082	(1.127)	56	1617947			2.88- 62.88	32.88		
9.082	9.082	(1.127)	41	1298234			0.00- 56.39	26.39		

81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	1888427	50.0000	55.760	80.00- 120.00	100.00		
9.082	9.082	(0.916)	77	430726			0.00- 52.81	22.81		

85	1,2-Dichloroethane					CAS #: 107-06-2				
9.248	9.248	(0.933)	62	1024164	50.0000	57.102	80.00- 120.00	100.00		
9.248	9.248	(0.933)	64	314208			0.68- 60.68	30.68		

90	Heptane					CAS #: 142-82-5				
9.469	9.469	(0.955)	100	235173	50.0000	53.658	80.00- 120.00	100.00		
9.469	9.469	(0.955)	43	2026402			831.66- 891.66	861.66		
9.469	9.469	(0.955)	71	706138			270.26- 330.26	300.26		

93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	774673	50.0000	55.317	80.00- 120.00	100.00		
10.326	10.326	(1.042)	130	776721			70.26- 130.26	100.26		
10.326	10.326	(1.042)	97	474324			31.23- 91.23	61.23		

98	1,2-Dichloropropane					CAS #: 78-87-5				
10.824	10.824	(1.092)	63	798648	50.0000	54.095	80.00- 120.00	100.00		
10.824	10.824	(1.092)	62	594077			44.39- 104.39	74.39		
10.824	10.824	(1.092)	41	563958			40.61- 100.61	70.61		

99	1,4-Dioxane					CAS #: 123-91-1				
11.045	11.045	(1.114)	88	437552	50.0000	52.225	80.00- 120.00	100.00		
11.045	11.045	(1.114)	58	446768			72.11- 132.11	102.11		
11.045	11.045	(1.114)	57	142344			2.53- 62.53	32.53		

100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	1144615	50.0000	53.940	80.00- 120.00	100.00		
11.405	11.405	(1.151)	85	744794			35.07- 95.07	65.07		

103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.289	12.289	(1.240)	75	907885	50.0000	57.112	80.00- 120.00	100.00		
12.317	12.317	(1.243)	77	291656			2.12- 62.12	32.12		
12.289	12.289	(1.240)	39	717795			49.06- 109.06	79.06		

106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.593	12.593	(1.271)	58	802756	50.0000	50.169	80.00- 120.00	100.00		
12.593	12.593	(1.271)	43	2286357			254.81- 314.81	284.81		
12.593	12.593	(1.271)	85	253345			1.56- 61.56	31.56		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	2015771	50.0000	55.354	80.00- 120.00	100.00	
12.815	12.815	(1.293)	92	1198554			29.46- 89.46	59.46	

113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	907565	50.0000	59.773	80.00- 120.00	100.00	
13.368	13.368	(0.891)	77	286503			1.57- 61.57	31.57	
13.340	13.340	(0.889)	39	657569			42.45- 102.45	72.45	

114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	680817	50.0000	53.209	80.00- 120.00	100.00	
13.644	13.644	(0.910)	99	421842			31.96- 91.96	61.96	
13.644	13.644	(0.910)	83	571941			54.01- 114.01	84.01	

116 Tetrachloroethene						CAS #: 127-18-4			
13.699	13.699	(0.913)	166	871900	50.0000	54.062	80.00- 120.00	100.00	
13.672	13.672	(0.912)	129	701124			50.41- 110.41	80.41	
13.672	13.672	(0.912)	131	684045			48.45- 108.45	78.45	

119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	1091006	50.0000	52.714	80.00- 120.00	100.00	
14.004	14.004	(0.934)	43	2268806			177.96- 237.96	207.96	
14.004	14.004	(0.934)	100	169772			0.00- 45.56	15.56	

120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	1118655	50.0000	54.701	80.00- 120.00	100.00	
14.197	14.197	(0.947)	127	859698			46.85- 106.85	76.85	

122 1,2-Dibromoethane						CAS #: 106-93-4			
14.335	14.335	(0.956)	107	1075421	50.0000	52.451	80.00- 120.00	100.00	
14.363	14.363	(0.958)	109	1010153			63.93- 123.93	93.93	

126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	1680386	50.0000	54.975	80.00- 120.00	100.00	
15.027	15.027	(1.002)	114	555610			3.06- 63.06	33.06	
15.027	15.027	(1.002)	77	1005629			29.85- 89.85	59.85	

128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	923988	50.0000	52.260	80.00- 120.00	100.00	
15.165	15.165	(1.011)	91	2872832			280.92- 340.92	310.92	

130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	1190357	50.0000	54.861	80.00- 120.00	100.00	
15.331	15.331	(1.022)	91	2378060			169.78- 229.78	199.78	

132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	1112172	50.0000	53.353	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	2346972			181.03- 241.03	211.03	

133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	1751872	50.0000	51.846	80.00- 120.00	100.00	
15.884	15.884	(1.059)	78	892069			20.92- 80.92	50.92	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	991534	50.0000	55.269	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	511477			21.58- 81.58	51.58	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	1515939	50.0000	53.567	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	971405			34.08- 94.08	64.08	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	3540843	50.0000	55.412	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1045328			0.00- 59.52	29.52	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	3164414	50.0000	54.606	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	1542707			18.75- 78.75	48.75	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	2588812	50.0000	54.270	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1215039			16.93- 76.93	46.93	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	1679082	50.0000	54.000	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1067963			33.60- 93.60	63.60	
17.764	17.764	(1.184)	111	695583			11.43- 71.43	41.43	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2085849	50.0000	54.339	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1308901			32.75- 92.75	62.75	
17.847	17.847	(1.190)	111	882779			12.32- 72.32	42.32	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	3062824	50.0000	57.049	80.00- 120.00	100.00	
17.985	17.985	(1.199)	126	634449			0.00- 50.71	20.71	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	1671932	50.0000	52.234	80.00- 120.00	100.00	
18.206	18.206	(1.214)	148	1047930			32.68- 92.68	62.68	
18.206	18.206	(1.214)	111	690529			11.30- 71.30	41.30	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.478	19.478	(1.299)	180	1157915	50.0000	48.378	80.00- 120.00	100.00	
19.506	19.506	(1.300)	182	1104927			65.42- 125.42	95.42	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	944135	50.0000	49.909	80.00- 120.00	100.00	
19.589	19.589	(1.306)	223	597505			33.29- 93.29	63.29	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	3802031	50.0000	53.937	80.00- 120.00	100.00	
16.824	16.824	(1.122)	120	864339			0.00- 52.73	22.73	
16.824	16.824	(1.122)	105	143184			0.00- 33.77	3.77	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	3318301	50.0000	50.099	80.00- 120.00	100.00	
16.326	16.326	(1.088)	120	904173			0.00- 57.25	27.25	
16.326	16.326	(1.088)	51	475701			0.00- 44.34	14.34	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	4685200	50.0000	53.797	80.00- 120.00	100.00	
19.672	19.672	(1.312)	127	586625			0.00- 42.52	12.52	

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	1571950	50.0000	53.617	80.00- 120.00	100.00	
3.414	3.414	(0.424)	57	973580			31.93- 91.93	61.93	
3.414	3.414	(0.424)	72	79140			0.00- 35.03	5.03	

11	Butane					CAS #: 106-97-8			
2.667	2.667	(0.331)	58	247202	50.0000	50.913	80.00- 120.00	100.00	
2.667	2.667	(0.331)	43	1983085			772.21- 832.21	802.21	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	1171667	50.0000	52.757	80.00- 120.00	100.00	
10.547	10.547	(1.064)	98	562702			18.03- 78.03	48.03	
10.547	10.547	(1.064)	55	1486274			96.85- 156.85	126.85	

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011712.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 50ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	230627	0.00
92 1,4-Difluorobenze	903162	541897	1264427	903162	0.00
125 Chlorobenzene-d5	808795	485277	1132313	808795	0.00

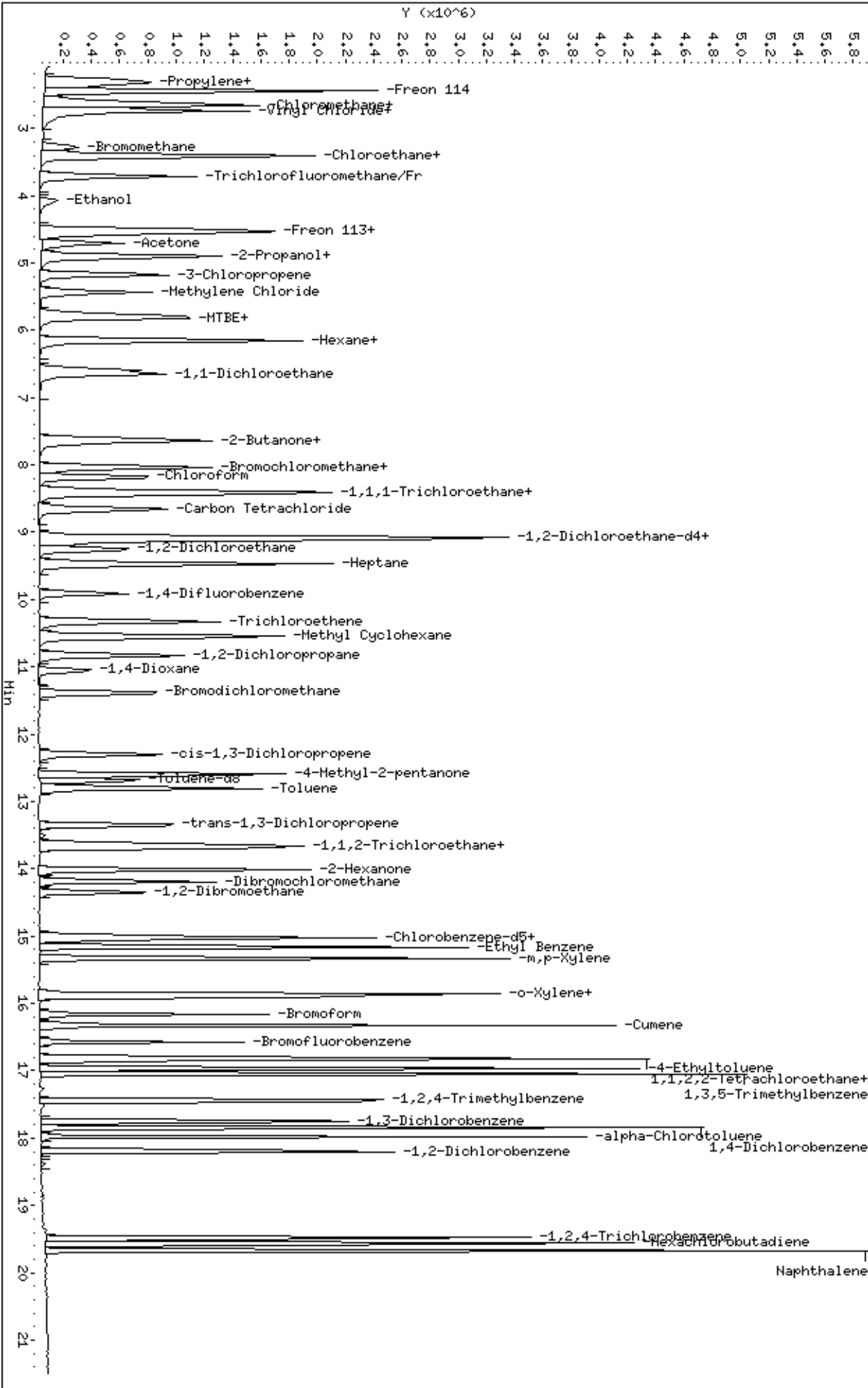
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

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

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

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



Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011713.d
 Lab Smp Id: ICAL Client Smp ID: Level 6
 Inj Date : 17-JAN-2008 15:43
 Operator : cb Inst ID: msd5.i
 Smp Info : 100mL #1576-198
 Misc Info : 100ppbv (200ppbv)
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 15:43 Cal File: 5011713.d
 Als bottle: 1 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	243971	25.0000		70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	194164			48.81- 108.81	79.58	
8.031	8.031	(1.000)	49	560929			199.42- 259.42	229.92	

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	965571	25.0000		70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	154303			0.00- 46.40	15.98	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	833586	25.0000		70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	479932			0.00- 30.00	57.57	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.110	9.110	(1.130)	65	391958	25.0000	25.098	70.00- 130.00	100.00	
9.110	9.110	(1.130)	67	241180			0.00- 30.00	61.53	

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.677	12.677	(1.279)	98	914107	25.0000	24.796	70.00- 130.00	100.00	
12.677	12.677	(1.279)	70	99637			0.00- 30.00	10.90	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.677	12.677	(1.279)	100	620094			0.00- 30.00	67.84		

\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	492751	25.0000	24.972	70.00- 130.00	100.00		
16.575	16.575	(1.105)	95	710287			113.24- 173.24	144.15		
16.575	16.575	(1.105)	176	475378			67.29- 127.29	96.47		

6 Propylene										
						CAS #: 115-07-1				
2.280	2.280	(0.283)	41	1741627	100.000	92.759	70.00- 130.00	100.00		
2.280	2.280	(0.283)	42	1161516			0.00- 30.00	66.69		
2.280	2.280	(0.283)	39	1192953			0.00- 30.00	68.50		

8 Dichlorodifluoromethane/Fr12										
						CAS #: 75-71-8				
2.336	2.336	(0.290)	85	2839595	100.000	99.752	70.00- 130.00	100.00		
2.336	2.336	(0.290)	87	915322			0.00- 30.00	32.23		

9 Freon 114										
						CAS #: 76-14-2				
2.446	2.446	(0.304)	135	2538917	100.000	103.06	70.00- 130.00	100.00		
2.446	2.446	(0.304)	137	787178			0.74- 60.74	31.00		

10 Chloromethane										
						CAS #: 74-87-3				
2.585	2.585	(0.321)	50	2196997	100.000	97.904	70.00- 130.00	100.00		
2.585	2.585	(0.321)	52	667115			0.00- 30.00	30.36		

13 Vinyl Chloride										
						CAS #: 75-01-4				
2.778	2.778	(0.345)	62	1946798	100.000	102.45	70.00- 130.00	100.00		
2.778	2.778	(0.345)	64	584168			0.00- 30.00	30.01		

12 1,3-Butadiene										
						CAS #: 106-99-0				
2.750	2.750	(0.341)	54	1908550	100.000	98.216	70.00- 130.00	100.00		
2.750	2.750	(0.341)	39	2161968			0.00- 30.00	113.28		

15 Bromomethane										
						CAS #: 74-83-9				
3.276	3.276	(0.406)	94	1138385	100.000	107.34	70.00- 130.00	100.00		
3.276	3.276	(0.406)	96	1078199			64.36- 124.36	94.71		

19 Chloroethane										
						CAS #: 75-00-3				
3.386	3.386	(0.420)	64	877818	100.000	95.850	70.00- 130.00	100.00		
3.386	3.386	(0.420)	49	293767			0.00- 30.00	33.47		
3.386	3.386	(0.420)	66	271601			0.00- 30.00	30.94		

20 Trichlorofluoromethane/Fr11										
						CAS #: 75-69-4				
3.718	3.718	(0.461)	101	3411333	100.000	107.77	70.00- 130.00	100.00		
3.718	3.718	(0.461)	103	2184817			34.16- 94.16	64.05		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.105	4.105	(0.509)	45	763969	100.000	97.644	70.00- 130.00	100.00	
4.105	4.105	(0.509)	43	141817			0.00- 30.00	18.56	
4.105	4.105	(0.509)	46	316507			0.00- 30.00	41.43	

30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	1882243	100.000	105.76	70.00- 130.00	100.00	
4.520	4.520	(0.561)	153	1203152			34.46- 94.46	63.92	
4.520	4.520	(0.561)	101	2469955			102.42- 162.42	131.22	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.548	4.548	(0.564)	61	2717654	100.000	108.53	70.00- 130.00	100.00	
4.548	4.548	(0.564)	96	1276528			17.45- 77.45	46.97	
4.575	4.575	(0.568)	98	816359			0.00- 59.59	30.04	

32 Acetone						CAS #: 67-64-1			
4.714	4.714	(0.585)	58	986145	100.000	102.36	70.00- 130.00	100.00	
4.714	4.714	(0.585)	43	3204707			0.00- 30.00	324.97	

36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	4026575	100.000	105.48	70.00- 130.00	100.00	
4.907	4.907	(0.609)	43	794487			0.00- 30.00	19.73	
4.907	4.907	(0.609)	59	127086			0.00- 30.00	3.16	

35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	3882293	100.000	107.15	70.00- 130.00	100.00	

38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	629838	100.000	99.488	70.00- 130.00	100.00	
5.184	5.184	(0.643)	41	3000728			0.00- 30.00	476.43	

43 Methylene Chloride						CAS #: 75-09-2			
5.432	5.432	(0.674)	49	2303211	100.000	105.34	70.00- 130.00	100.00	
5.432	5.432	(0.674)	84	1101679			16.65- 76.65	47.83	
5.432	5.432	(0.674)	51	704966			0.00- 30.00	30.61	

46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	1924048	100.000	92.381	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	644247			2.93- 62.93	33.48	
5.764	5.764	(0.715)	41	646356			0.00- 30.00	33.59	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.820	5.820	(0.722)	96	1408879	100.000	104.82	70.00- 130.00	100.00	
5.820	5.820	(0.722)	61	2707350			161.29- 221.29	192.16	
5.820	5.820	(0.722)	98	896092			0.00- 30.00	63.60	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	3520983	100.000	105.04	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	2454044			0.00- 30.00	69.70	
6.151	6.151	(0.763)	86	409152			0.00- 30.00	11.62	

55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	2878101	100.000	104.99	70.00- 130.00	100.00	
6.594	6.594	(0.818)	65	867295			1.33- 61.33	30.13	

67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	685165	100.000	102.52	70.00- 130.00	100.00	
7.644	7.644	(0.949)	43	4338386			613.01- 673.01	633.19	
7.644	7.644	(0.949)	57	319213			0.00- 30.00	46.59	

66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	2271804	100.000	104.88	70.00- 130.00	100.00	
7.617	7.617	(0.945)	96	1295294			27.71- 87.71	57.02	
7.617	7.617	(0.945)	98	823753			6.61- 66.61	36.26	

70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	2623233	100.000	95.143	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	589425			0.00- 53.21	22.47	
8.031	8.031	(0.997)	72	655320			0.00- 30.00	24.98	

72 Chloroform						CAS #: 67-66-3			
8.170	8.170	(1.014)	83	2360481	100.000	102.47	70.00- 130.00	100.00	
8.170	8.170	(1.014)	85	1496967			35.04- 95.04	63.42	

75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.419	8.419	(1.045)	97	2489556	100.000	104.23	70.00- 130.00	100.00	
8.419	8.419	(1.045)	99	1590659			33.38- 93.38	63.89	

74 Cyclohexane						CAS #: 110-82-7			
8.391	8.391	(1.041)	84	1854161	100.000	103.83	70.00- 130.00	100.00	
8.391	8.391	(1.041)	56	3435810			154.90- 214.90	185.30	
8.391	8.391	(1.041)	41	1896714			71.49- 131.49	102.30	

56 Vinyl Acetate						CAS #: 108-05-4			
6.151	6.151	(0.763)	86	409152	100.000	98.559	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	2454044			0.00- 30.00	599.79	
6.151	6.151	(0.763)	42	1245389			0.00- 30.00	304.38	

77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	2355059	100.000	105.60	70.00- 130.00	100.00	
8.667	8.667	(1.075)	117	2458396			72.64- 132.64	104.39	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====	=====	

80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	10023387	100.000	106.98	70.00- 130.00	100.00		
9.110	9.110	(1.130)	56	3312223			0.00- 30.00	33.04		
9.082	9.082	(1.127)	41	2636930			0.00- 30.00	26.31		

81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	3781362	100.000	104.44	70.00- 130.00	100.00		
9.082	9.082	(0.916)	77	882473			0.00- 30.00	23.34		

85	1,2-Dichloroethane					CAS #: 107-06-2				
9.248	9.248	(0.933)	62	2042414	100.000	106.52	70.00- 130.00	100.00		
9.248	9.248	(0.933)	64	621799			0.00- 30.00	30.44		

90	Heptane					CAS #: 142-82-5				
9.469	9.469	(0.955)	100	484252	100.000	103.35	70.00- 130.00	100.00		
9.469	9.469	(0.955)	43	4170899			0.00- 30.00	861.31		
9.469	9.469	(0.955)	71	1441921			0.00- 30.00	297.76		

93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	1560665	100.000	104.24	70.00- 130.00	100.00		
10.326	10.326	(1.042)	130	1585195			70.26- 130.26	101.57		
10.326	10.326	(1.042)	97	998265			31.23- 91.23	63.96		

98	1,2-Dichloropropane					CAS #: 78-87-5				
10.824	10.824	(1.092)	63	1645804	100.000	104.27	70.00- 130.00	100.00		
10.824	10.824	(1.092)	62	1215960			44.39- 104.39	73.88		
10.824	10.824	(1.092)	41	1163801			40.61- 100.61	70.71		

99	1,4-Dioxane					CAS #: 123-91-1				
11.045	11.045	(1.114)	88	918620	100.000	102.56	70.00- 130.00	100.00		
11.045	11.045	(1.114)	58	920987			72.11- 132.11	100.26		
11.045	11.045	(1.114)	57	290882			0.00- 30.00	31.67		

100	Bromodichloromethane					CAS #: 75-27-4				
11.377	11.377	(1.148)	83	2382865	100.000	105.03	70.00- 130.00	100.00		
11.377	11.377	(1.148)	85	1496665			35.07- 95.07	62.81		

103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.290	12.290	(1.240)	75	1831159	100.000	107.75	70.00- 130.00	100.00		
12.290	12.290	(1.240)	77	592012			2.12- 62.12	32.33		
12.290	12.290	(1.240)	39	1429868			49.06- 109.06	78.09		

106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.594	12.594	(1.271)	58	1593922	100.000	93.176	70.00- 130.00	100.00		
12.594	12.594	(1.271)	43	4564960			0.00- 30.00	286.40		
12.594	12.594	(1.271)	85	506355			0.00- 30.00	31.77		

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	4012069	100.000	103.05	70.00-	130.00	100.00	
12.815	12.815	(1.293)	92	2429529			29.46-	89.46	60.56	

113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.340	13.340	(0.889)	75	1873580	100.000	119.72	70.00-	130.00	100.00	
13.340	13.340	(0.889)	77	591251			1.57-	61.57	31.56	
13.340	13.340	(0.889)	39	1369031			42.45-	102.45	73.07	

114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	1353387	100.000	102.63	70.00-	130.00	100.00	
13.644	13.644	(0.910)	99	841733			31.96-	91.96	62.19	
13.644	13.644	(0.910)	83	1149551			54.01-	114.01	84.94	

116 Tetrachloroethene						CAS #:	127-18-4			
13.700	13.700	(0.913)	166	1745160	100.000	104.99	70.00-	130.00	100.00	
13.672	13.672	(0.912)	129	1423790			50.41-	110.41	81.59	
13.672	13.672	(0.912)	131	1358052			48.45-	108.45	77.82	

119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	2252042	100.000	105.57	70.00-	130.00	100.00	
14.004	14.004	(0.934)	43	4615613			177.96-	237.96	204.95	
14.004	14.004	(0.934)	100	356539			0.00-	30.00	15.83	

120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	2282355	100.000	108.28	70.00-	130.00	100.00	
14.197	14.197	(0.947)	127	1780850			0.00-	30.00	78.03	

122 1,2-Dibromoethane						CAS #:	106-93-4			
14.336	14.336	(0.956)	107	2152603	100.000	101.86	70.00-	130.00	100.00	
14.336	14.336	(0.956)	109	2061123			63.93-	123.93	95.75	

126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	3359762	100.000	106.65	70.00-	130.00	100.00	
15.027	15.027	(1.002)	114	1075420			3.06-	63.06	32.01	
15.027	15.027	(1.002)	77	1974057			29.85-	89.85	58.76	

128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	1854123	100.000	101.75	70.00-	130.00	100.00	
15.165	15.165	(1.011)	91	5748826			0.00-	30.00	310.06	

130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	2354309	100.000	105.28	70.00-	130.00	100.00	
15.331	15.331	(1.022)	91	4722411			0.00-	30.00	200.59	

132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	2189747	100.000	101.92	70.00-	130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	4637787			181.03- 241.03	211.80	

133 Styrene CAS #: 100-42-5									
15.912	15.912	(1.061)	104	3505360	100.000	100.65	70.00- 130.00	100.00	
15.884	15.884	(1.059)	78	1797964			20.92- 80.92	51.29	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	2071117	100.000	112.01	70.00- 130.00	100.00	
16.160	16.160	(1.077)	171	1058702			21.58- 81.58	51.12	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	3061760	100.000	104.97	70.00- 130.00	100.00	
16.796	16.796	(1.120)	85	1942521			34.08- 94.08	63.44	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	7275702	100.000	110.47	70.00- 130.00	100.00	
16.962	16.962	(1.131)	120	2121745			0.00- 59.52	29.16	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	6404964	100.000	107.24	70.00- 130.00	100.00	
17.045	17.045	(1.136)	120	3118570			0.00- 30.00	48.69	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	5289330	100.000	107.58	70.00- 130.00	100.00	
17.460	17.460	(1.164)	120	2433721			16.93- 76.93	46.01	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	3391949	100.000	105.84	70.00- 130.00	100.00	
17.764	17.764	(1.184)	148	2135104			0.00- 30.00	62.95	
17.764	17.764	(1.184)	111	1426063			0.00- 30.00	42.04	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	4310861	100.000	108.96	70.00- 130.00	100.00	
17.847	17.847	(1.190)	148	2703333			0.00- 30.00	62.71	
17.847	17.847	(1.190)	111	1783633			0.00- 30.00	41.38	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	6455120	100.000	116.66	70.00- 130.00	100.00	
17.985	17.985	(1.199)	126	1336908			0.00- 30.00	20.71	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	3455418	100.000	104.74	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	2209829			32.68- 92.68	63.95	
18.206	18.206	(1.214)	111	1403132			11.30- 71.30	40.61	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.478	19.478	(1.299)	180	2389890	100.000	96.880	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	2275573			65.42- 125.42	95.22	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	1920010	100.000	98.477	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	1200359			33.29- 93.29	62.52	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	7772569	100.000	106.98	70.00- 130.00	100.00	
16.824	16.824	(1.122)	120	1792139			0.00- 30.00	23.06	
16.824	16.824	(1.122)	105	284120			0.00- 30.00	3.66	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	6731954	100.000	98.614	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	1813555			0.00- 30.00	26.94	
16.326	16.326	(1.088)	51	957875			0.00- 30.00	14.23	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	9923957	100.000	110.56	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	1275009			0.00- 30.00	12.85	

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	3125023	100.000	100.76	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	1951365			0.00- 30.00	62.44	
3.414	3.414	(0.424)	72	158915			0.00- 30.00	5.09	

11	Butane					CAS #: 106-97-8			
2.668	2.668	(0.331)	58	507435	100.000	98.794	70.00- 130.00	100.00	
2.668	2.668	(0.331)	43	3965235			0.00- 30.00	781.43	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.548	10.548	(1.064)	83	2375271	100.000	100.04	70.00- 130.00	100.00	
10.548	10.548	(1.064)	98	1147406			0.00- 30.00	48.31	
10.548	10.548	(1.064)	55	2979856			0.00- 30.00	125.45	

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011713.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 100ppbv (200ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	243971	5.79
92 1,4-Difluorobenze	903162	541897	1264427	965571	6.91
125 Chlorobenzene-d5	808795	485277	1132313	833586	3.07

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

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

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

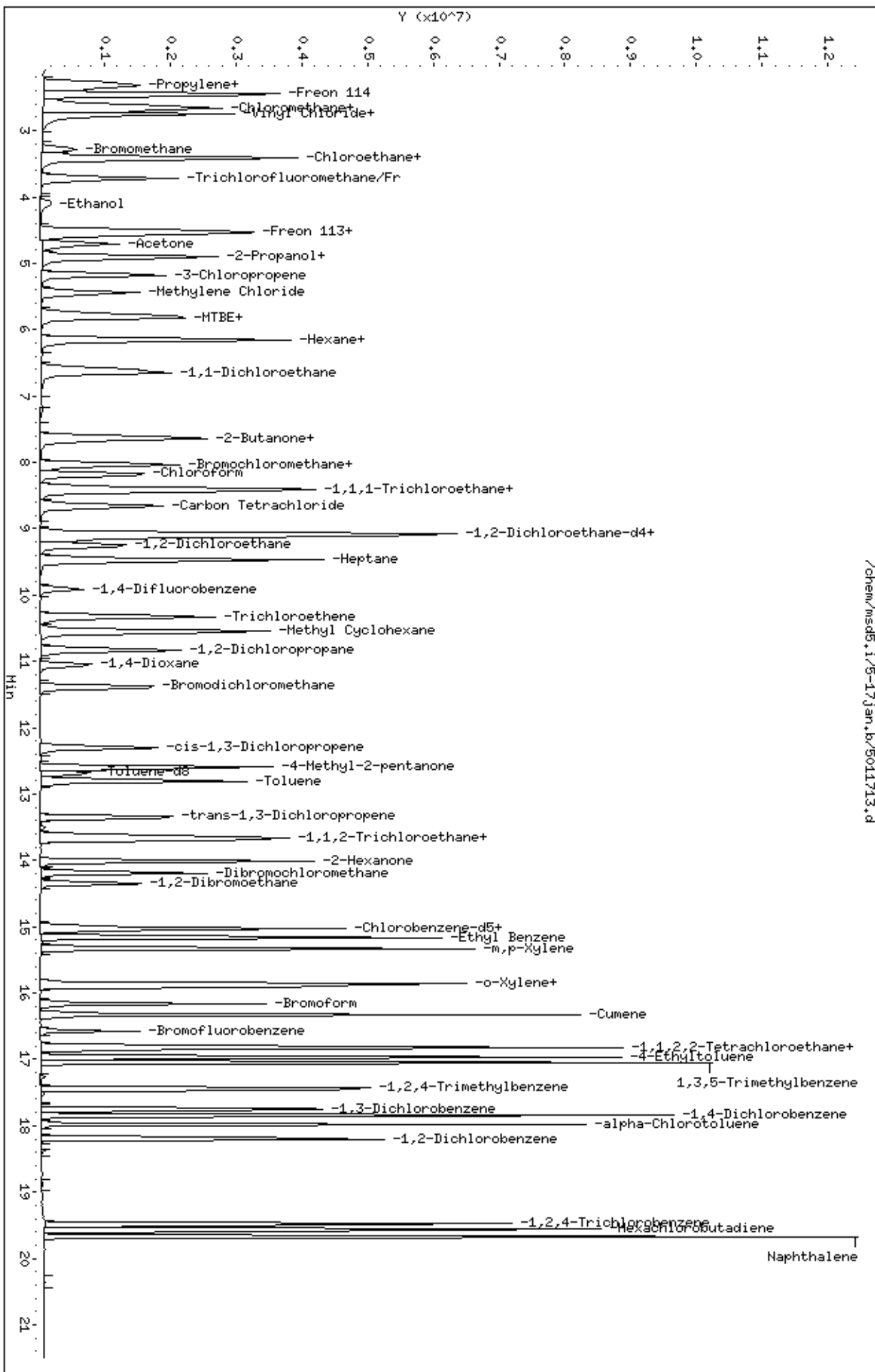
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

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

Data File: /chem/msds.1/5-17jan.b/5011713.d
Date: 17-JAN-2008 15:43
Client ID: Level 6
Sample Info: 100mL #1576-198

Column phase: RTX-624

Instrument: msds.i
Operator: cb
Column diameter: 0.53



Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-17jan.b/5011714.d
 Lab Smp Id: ICAL Client Smp ID: Level 7
 Inj Date : 17-JAN-2008 16:16
 Operator : cb Inst ID: msd5.i
 Smp Info : 200mL #1576-198
 Misc Info : 200ppbv
 Comment :
 Method : /chem/msd5.i/5-17jan.b/t14q117a.m
 Meth Date : 17-Jan-2008 21:39 cbond Quant Type: ISTD
 Cal Date : 17-JAN-2008 16:16 Cal File: 5011714.d
 Als bottle: 1 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	CAL-AMT	ON-COL	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	
* 71 Bromochloromethane CAS #: 74-97-5								
8.059	8.059	(1.000)	130	268998	25.0000	70.00- 130.00	100.00	
8.059	8.059	(1.000)	128	201086		48.81- 108.81	74.75	
8.059	8.059	(1.000)	49	617605		199.42- 259.42	229.59	

* 92 1,4-Difluorobenzene CAS #: 540-36-3								
9.912	9.912	(1.000)	114	1047667	25.0000	70.00- 130.00	100.00	
9.912	9.912	(1.000)	88	173467		0.00- 46.40	16.56	

* 125 Chlorobenzene-d5 CAS #: 3114-55-4								
14.999	14.999	(1.000)	117	907322	25.0000	70.00- 130.00	100.00	
14.999	14.999	(1.000)	82	525735		0.00- 30.00	57.94	

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
9.110	9.110	(1.130)	65	460620	25.0000	26.750 70.00- 130.00	100.00	
9.110	9.110	(1.130)	67	314248		0.00- 30.00	68.22	

\$ 107 Toluene-d8 CAS #: 2037-26-5								
12.677	12.677	(1.279)	98	994907	25.0000	24.873 70.00- 130.00	100.00	
12.677	12.677	(1.279)	70	108720		0.00- 30.00	10.93	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 107 Toluene-d8 (continued)									
12.677	12.677	(1.279)	100	698654			0.00- 30.00	70.22	

\$ 138 Bromofluorobenzene									
						CAS #: 460-00-4			
16.575	16.575	(1.105)	174	555970	25.0000	25.886	70.00- 130.00	100.00	
16.575	16.575	(1.105)	95	784021			113.24- 173.24	141.02	
16.575	16.575	(1.105)	176	530548			67.29- 127.29	95.43	

6 Propylene									
						CAS #: 115-07-1			
2.280	2.280	(0.283)	41	3820108	200.000	184.53	70.00- 130.00	100.00	
2.280	2.280	(0.283)	42	2554607			0.00- 30.00	66.87	
2.280	2.280	(0.283)	39	2645439			0.00- 30.00	69.25	

8 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
2.336	2.336	(0.290)	85	6512128	200.000	207.48	70.00- 130.00	100.00(A)	
2.336	2.336	(0.290)	87	2083824			0.00- 30.00	32.00	

9 Freon 114									
						CAS #: 76-14-2			
2.502	2.502	(0.310)	135	5172033	200.000	190.40	70.00- 130.00	100.00	
2.502	2.502	(0.310)	137	1647037			0.74- 60.74	31.85	

10 Chloromethane									
						CAS #: 74-87-3			
2.640	2.640	(0.328)	50	4662619	200.000	188.45	70.00- 130.00	100.00	
2.612	2.612	(0.324)	52	1375716			0.00- 30.00	29.51	

13 Vinyl Chloride									
						CAS #: 75-01-4			
2.778	2.778	(0.345)	62	3952428	200.000	188.64	70.00- 130.00	100.00	
2.778	2.778	(0.345)	64	1173880			0.00- 30.00	29.70	

12 1,3-Butadiene									
						CAS #: 106-99-0			
2.778	2.778	(0.345)	54	3922949	200.000	183.10	70.00- 130.00	100.00	
2.750	2.750	(0.341)	39	5072620			0.00- 30.00	129.31	

15 Bromomethane									
						CAS #: 74-83-9			
3.276	3.276	(0.406)	94	2412838	200.000	206.34	70.00- 130.00	100.00(A)	
3.276	3.276	(0.406)	96	2238699			64.36- 124.36	92.78	

19 Chloroethane									
						CAS #: 75-00-3			
3.442	3.442	(0.427)	64	1883578	200.000	186.54	70.00- 130.00	100.00	
3.442	3.442	(0.427)	49	587306			0.00- 30.00	31.18	
3.442	3.442	(0.427)	66	571070			0.00- 30.00	30.32	

20 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
3.718	3.718	(0.461)	101	7080992	200.000	202.89	70.00- 130.00	100.00(A)	
3.718	3.718	(0.461)	103	4578884			34.16- 94.16	64.66	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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26 Ethanol						CAS #: 64-17-5			
4.133	4.133	(0.513)	45	1483277	200.000	171.94	70.00- 130.00	100.00	
4.133	4.133	(0.513)	43	264544			0.00- 30.00	17.84	
4.133	4.133	(0.513)	46	617414			0.00- 30.00	41.62	

30 Freon 113						CAS #: 76-13-1			
4.520	4.520	(0.561)	151	3950795	200.000	201.35	70.00- 130.00	100.00(A)	
4.520	4.520	(0.561)	153	2486250			34.46- 94.46	62.93	
4.520	4.520	(0.561)	101	5149659			102.42- 162.42	130.34	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	5676903	200.000	205.62	70.00- 130.00	100.00(A)	
4.575	4.575	(0.568)	96	2673295			17.45- 77.45	47.09	
4.575	4.575	(0.568)	98	1687859			0.00- 59.59	29.73	

32 Acetone						CAS #: 67-64-1			
4.713	4.713	(0.585)	58	2034571	200.000	191.54	70.00- 130.00	100.00	
4.713	4.713	(0.585)	43	6621706			0.00- 30.00	325.46	

36 2-Propanol						CAS #: 67-63-0			
4.907	4.907	(0.609)	45	8129872	200.000	193.16	70.00- 130.00	100.00	
4.907	4.907	(0.609)	43	1626626			0.00- 30.00	20.01	
4.907	4.907	(0.609)	59	274727			0.00- 30.00	3.38	

35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	8158305	200.000	204.21	70.00- 130.00	100.00(A)	

38 3-Chloropropene						CAS #: 107-05-1			
5.184	5.184	(0.643)	76	1283590	200.000	183.89	70.00- 130.00	100.00	
5.184	5.184	(0.643)	41	6002537			0.00- 30.00	467.64	

43 Methylene Chloride						CAS #: 75-09-2			
5.460	5.460	(0.677)	49	4812577	200.000	199.63	70.00- 130.00	100.00	
5.460	5.460	(0.677)	84	2297693			16.65- 76.65	47.74	
5.460	5.460	(0.677)	51	1464636			0.00- 30.00	30.43	

46 MTBE						CAS #: 1634-04-4			
5.764	5.764	(0.715)	73	3324428	200.000	144.77	70.00- 130.00	100.00	
5.764	5.764	(0.715)	57	1128150			2.93- 62.93	33.94	
5.764	5.764	(0.715)	41	1079452			0.00- 30.00	32.47	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	2967348	200.000	200.24	70.00- 130.00	100.00(A)	
5.819	5.819	(0.722)	61	5664627			161.29- 221.29	190.90	
5.819	5.819	(0.722)	98	1901113			0.00- 30.00	64.07	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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51 Hexane						CAS #: 110-54-3			
6.151	6.151	(0.763)	57	7399580	200.000	200.21	70.00- 130.00	100.00(A)	
6.151	6.151	(0.763)	43	5190295			0.00- 30.00	70.14	
6.151	6.151	(0.763)	86	869671			0.00- 30.00	11.75	

55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	6071513	200.000	200.88	70.00- 130.00	100.00(A)	
6.594	6.594	(0.818)	65	1866369			1.33- 61.33	30.74	

67 2-Butanone						CAS #: 78-93-3			
7.644	7.644	(0.949)	72	1414357	200.000	191.94	70.00- 130.00	100.00	
7.644	7.644	(0.949)	43	9324041			613.01- 673.01	659.24	
7.644	7.644	(0.949)	57	666426			0.00- 30.00	47.12	

66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	4751140	200.000	198.93	70.00- 130.00	100.00	
7.617	7.617	(0.945)	96	2718491			27.71- 87.71	57.22	
7.617	7.617	(0.945)	98	1740352			6.61- 66.61	36.63	

70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	5505205	200.000	181.09	70.00- 130.00	100.00	
8.031	8.031	(0.997)	71	1247858			0.00- 53.21	22.67	
8.031	8.031	(0.997)	72	1377273			0.00- 30.00	25.02	

72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	5008883	200.000	197.21	70.00- 130.00	100.00	
8.197	8.197	(1.017)	85	3244202			35.04- 95.04	64.77	

75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.418	8.418	(1.045)	97	5269515	200.000	200.10	70.00- 130.00	100.00(A)	
8.418	8.418	(1.045)	99	3379104			33.38- 93.38	64.13	

74 Cyclohexane						CAS #: 110-82-7			
8.391	8.391	(1.041)	84	3956006	200.000	200.92	70.00- 130.00	100.00(A)	
8.391	8.391	(1.041)	56	7288123			154.90- 214.90	184.23	
8.391	8.391	(1.041)	41	4006035			71.49- 131.49	101.26	

56 Vinyl Acetate						CAS #: 108-05-4			
6.151	6.151	(0.763)	86	869671	200.000	190.00	70.00- 130.00	100.00	
6.151	6.151	(0.763)	43	5190295			0.00- 30.00	596.81	
6.151	6.151	(0.763)	42	2578387			0.00- 30.00	296.48	

77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	5101383	200.000	207.46	70.00- 130.00	100.00(A)	
8.667	8.667	(1.075)	117	5264610			72.64- 132.64	103.20	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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80	2,2,4-Trimethylpentane				CAS #: 540-84-1				
9.110	9.110	(1.130)	57	20998956	200.000	203.28	70.00- 130.00	100.00(A)	
9.110	9.110	(1.130)	56	6976372			0.00- 30.00	33.22	
9.110	9.110	(1.130)	41	5466518			0.00- 30.00	26.03	

81	Benzene				CAS #: 71-43-2				
9.082	9.082	(0.916)	78	7980043	200.000	203.13	70.00- 130.00	100.00(A)	
9.082	9.082	(0.916)	77	1850823			0.00- 30.00	23.19	

85	1,2-Dichloroethane				CAS #: 107-06-2				
9.248	9.248	(0.933)	62	4341702	200.000	208.68	70.00- 130.00	100.00(A)	
9.276	9.276	(0.936)	64	1337129			0.00- 30.00	30.80	

90	Heptane				CAS #: 142-82-5				
9.469	9.469	(0.955)	100	1005468	200.000	197.77	70.00- 130.00	100.00	
9.469	9.469	(0.955)	43	8695683			0.00- 30.00	864.84	
9.469	9.469	(0.955)	71	3019856			0.00- 30.00	300.34	

93	Trichloroethene				CAS #: 79-01-6				
10.326	10.326	(1.042)	95	3285638	200.000	202.26	70.00- 130.00	100.00(A)	
10.326	10.326	(1.042)	130	3383387			70.26- 130.26	102.98	
10.326	10.326	(1.042)	97	2109167			31.23- 91.23	64.19	

98	1,2-Dichloropropane				CAS #: 78-87-5				
10.824	10.824	(1.092)	63	3528840	200.000	206.05	70.00- 130.00	100.00(A)	
10.824	10.824	(1.092)	62	2579416			44.39- 104.39	73.10	
10.824	10.824	(1.092)	41	2435231			40.61- 100.61	69.01	

99	1,4-Dioxane				CAS #: 123-91-1				
11.045	11.045	(1.114)	88	1910647	200.000	196.59	70.00- 130.00	100.00	
11.045	11.045	(1.114)	58	1977531			72.11- 132.11	103.50	
11.045	11.045	(1.114)	57	630860			0.00- 30.00	33.02	

100	Bromodichloromethane				CAS #: 75-27-4				
11.405	11.405	(1.151)	83	5101016	200.000	207.23	70.00- 130.00	100.00(A)	
11.405	11.405	(1.151)	85	3225598			35.07- 95.07	63.23	

103	cis-1,3-Dichloropropene				CAS #: 10061-01-5				
12.289	12.289	(1.240)	75	3959741	200.000	214.74	70.00- 130.00	100.00(A)	
12.289	12.289	(1.240)	77	1251859			2.12- 62.12	31.61	
12.289	12.289	(1.240)	39	3067662			49.06- 109.06	77.47	

106	4-Methyl-2-pentanone				CAS #: 108-10-1				
12.594	12.594	(1.271)	58	3395999	200.000	182.96	70.00- 130.00	100.00	
12.594	12.594	(1.271)	43	9686886			0.00- 30.00	285.24	
12.594	12.594	(1.271)	85	1088571			0.00- 30.00	32.05	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	8645737	200.000	204.67	70.00- 130.00	100.00(A)	
12.815	12.815	(1.293)	92	5179437			29.46- 89.46	59.91	

113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	4118402	200.000	241.79	70.00- 130.00	100.00(A)	
13.368	13.368	(0.891)	77	1301731			1.57- 61.57	31.61	
13.340	13.340	(0.889)	39	3003908			42.45- 102.45	72.94	

114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	2945063	200.000	205.18	70.00- 130.00	100.00(A)	
13.644	13.644	(0.910)	99	1804846			31.96- 91.96	61.28	
13.644	13.644	(0.910)	83	2464572			54.01- 114.01	83.68	

116 Tetrachloroethene						CAS #: 127-18-4			
13.700	13.700	(0.913)	166	3734999	200.000	206.44	70.00- 130.00	100.00(A)	
13.672	13.672	(0.912)	129	3060700			50.41- 110.41	81.95	
13.672	13.672	(0.912)	131	2909184			48.45- 108.45	77.89	

119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	4891449	200.000	210.67	70.00- 130.00	100.00(A)	
14.004	14.004	(0.934)	43	10096581			177.96- 237.96	206.41	
14.004	14.004	(0.934)	100	760889			0.00- 30.00	15.56	

120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	5003849	200.000	218.11	70.00- 130.00	100.00(A)	
14.197	14.197	(0.947)	127	3901699			0.00- 30.00	77.97	

122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	4698065	200.000	204.25	70.00- 130.00	100.00(A)	
14.363	14.363	(0.958)	109	4440802			63.93- 123.93	94.52	

126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	7218313	200.000	210.51	70.00- 130.00	100.00(A)	
15.027	15.027	(1.002)	114	2322601			3.06- 63.06	32.18	
15.027	15.027	(1.002)	77	4281761			29.85- 89.85	59.32	

128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	3997124	200.000	201.53	70.00- 130.00	100.00(A)	
15.165	15.165	(1.011)	91	12499894			0.00- 30.00	312.72	

130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	5015948	200.000	206.07	70.00- 130.00	100.00(A)	
15.331	15.331	(1.022)	91	10100015			0.00- 30.00	201.36	

132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	4667128	200.000	199.58	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	10065692			181.03- 241.03	215.67	

133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	7648280	200.000	201.77	70.00- 130.00	100.00(A)	
15.884	15.884	(1.059)	78	3930920			20.92- 80.92	51.40	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	4397834	200.000	218.52	70.00- 130.00	100.00(A)	
16.160	16.160	(1.077)	171	2267391			21.58- 81.58	51.56	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	6526549	200.000	205.58	70.00- 130.00	100.00(A)	
16.796	16.796	(1.120)	85	4150562			34.08- 94.08	63.60	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	15284902	200.000	213.23	70.00- 130.00	100.00(A)	
16.962	16.962	(1.131)	120	4451435			0.00- 59.52	29.12	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	13385543	200.000	205.90	70.00- 130.00	100.00(A)	
17.045	17.045	(1.136)	120	6479050			0.00- 30.00	48.40	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	11277781	200.000	210.75	70.00- 130.00	100.00(A)	
17.460	17.460	(1.164)	120	5263288			16.93- 76.93	46.67	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	7229120	200.000	207.25	70.00- 130.00	100.00(A)	
17.764	17.764	(1.184)	148	4606717			0.00- 30.00	63.72	
17.764	17.764	(1.184)	111	3100898			0.00- 30.00	42.89	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	8918311	200.000	207.10	70.00- 130.00	100.00(A)	
17.847	17.847	(1.190)	148	5608663			0.00- 30.00	62.89	
17.847	17.847	(1.190)	111	3876731			0.00- 30.00	43.47	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	13838439	200.000	229.77	70.00- 130.00	100.00(A)	
17.985	17.985	(1.199)	126	2844682			0.00- 30.00	20.56	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	7162531	200.000	199.47	70.00- 130.00	100.00	
18.206	18.206	(1.214)	148	4568738			32.68- 92.68	63.79	
18.206	18.206	(1.214)	111	3075684			11.30- 71.30	42.94	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
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163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.506	19.506	(1.300)	180	5190154	200.000	193.30	70.00- 130.00	100.00	
19.506	19.506	(1.300)	182	4830263			65.42- 125.42	93.07	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	4164937	200.000	196.26	70.00- 130.00	100.00	
19.589	19.589	(1.306)	223	2610750			33.29- 93.29	62.68	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	16244236	200.000	205.42	70.00- 130.00	100.00(A)	
16.824	16.824	(1.122)	120	3730525			0.00- 30.00	22.97	
16.824	16.824	(1.122)	105	604473			0.00- 30.00	3.72	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	14239392	200.000	191.64	70.00- 130.00	100.00	
16.326	16.326	(1.088)	120	3792940			0.00- 30.00	26.64	
16.326	16.326	(1.088)	51	2064379			0.00- 30.00	14.50	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	14926087	200.000	152.77	70.00- 130.00	100.00	
19.672	19.672	(1.312)	127	2647909			0.00- 30.00	17.74	

17	Isopentane					CAS #: 78-78-4			
3.414	3.414	(0.424)	43	6477559	200.000	189.42	70.00- 130.00	100.00	
3.414	3.414	(0.424)	57	4072302			0.00- 30.00	62.87	
3.414	3.414	(0.424)	72	335439			0.00- 30.00	5.18	

11	Butane					CAS #: 106-97-8			
2.695	2.695	(0.334)	58	1014506	200.000	179.14	70.00- 130.00	100.00	
2.695	2.695	(0.334)	43	8180784			0.00- 30.00	806.38	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	5091329	200.000	197.63	70.00- 130.00	100.00	
10.547	10.547	(1.064)	98	2432843			0.00- 30.00	47.78	
10.547	10.547	(1.064)	55	6269610			0.00- 30.00	123.14	

QC Flag Legend

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

Report Date: 17-Jan-2008 21:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 17-JAN-2008

Lab File ID: 5011714.d

Calibration Time: 15:15

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: cb

Method File: /chem/msd5.i/5-17jan.b/t14q117a.m

Misc Info: 200ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	230627	138376	322878	268998	16.64
92 1,4-Difluorobenze	903162	541897	1264427	1047667	16.00
125 Chlorobenzene-d5	808795	485277	1132313	907322	12.18

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

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

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

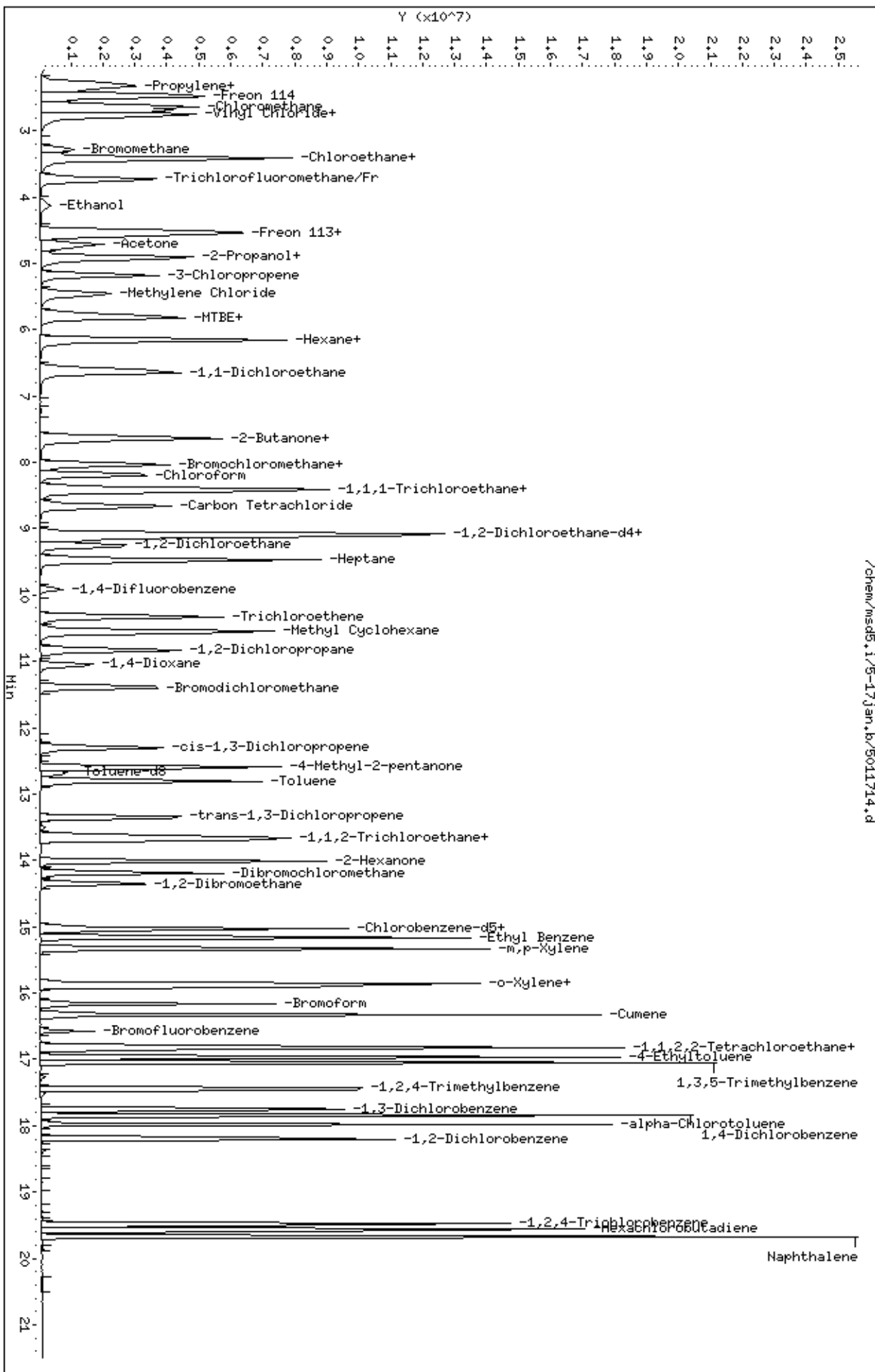
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

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

Data File: /chem/msds.1/5-17jan.b/5011714.d
 Date: 17-JAN-2008 16:16
 Client ID: Level 7
 Sample Info: 200mL #1576-198

Column phase: RTX-624

Instrument: msds.i
 Operator: cb
 Column diameter: 0.53



/chem/msds.1/5-17jan.b/5011714.d



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801406-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 10:31 AM

Compound	%Recovery
Freon 12	91
Freon 114	105
Vinyl Chloride	100
Bromomethane	99
Chloroethane	79
Freon 11	108
1,1-Dichloroethene	104
Freon 113	106
Methylene Chloride	101
1,1-Dichloroethane	97
cis-1,2-Dichloroethene	96
Chloroform	86
1,1,1-Trichloroethane	97
Carbon Tetrachloride	100
Benzene	91
1,2-Dichloroethane	106
Trichloroethene	100
1,2-Dichloropropane	94
cis-1,3-Dichloropropene	96
Toluene	94
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	99
Tetrachloroethene	99
1,2-Dibromoethane (EDB)	93
Chlorobenzene	102
Ethyl Benzene	94
m,p-Xylene	98
o-Xylene	95
Styrene	91
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	91
1,3-Butadiene	92
Hexane	96
Cyclohexane	94



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0801406-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 10:31 AM

Compound	%Recovery
Heptane	101
Bromodichloromethane	98
Dibromochloromethane	105
Cumene	90
Propylbenzene	97
Chloromethane	92
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	89
Acetone	91
Carbon Disulfide	102
2-Propanol	92
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	88
Tetrahydrofuran	87
1,4-Dioxane	91
4-Methyl-2-pentanone	83
2-Hexanone	91
Bromoform	105
4-Ethyltoluene	100
Ethanol	80
Methyl tert-butyl ether	80
3-Chloropropene	96
2,2,4-Trimethylpentane	94
Naphthalene	89

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 05-Feb-2008 15:20

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-JAN-2008 10:31
 Lab File ID: 5013002.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
 Analysis Type: AIR Init. Cal. Times: 13:25 17:51
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msd5.i/5-30jan.b/t14q117a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 84 1,2-Dichloroethane-d4	1.60033	1.59109	0.010	0.57751	30.00000	Averaged
\$ 107 Toluene-d8	0.95450	0.90980	0.010	4.68319	30.00000	Averaged
\$ 138 Bromofluorobenzene	0.59179	0.58600	0.010	0.97819	30.00000	Averaged
6 Propylene	1.81660	1.71668	0.010	5.50049	30.00000	Averaged
8 Dichlorodifluoromethane/Fr1	2.91699	2.65838	0.010	8.86571	30.00000	Averaged
9 Freon 114	2.52448	2.64786	0.010	-4.88719	30.00000	Averaged
10 Chloromethane	2.29949	2.12723	0.010	7.49154	30.00000	Averaged
13 Vinyl Chloride	1.94727	1.94421	0.010	0.15686	30.00000	Averaged
12 1,3-Butadiene	1.99123	1.83106	0.010	8.04416	30.00000	Averaged
15 Bromomethane	1.08677	1.07189	0.010	1.36937	30.00000	Averaged
19 Chloroethane	0.93845	0.74600	0.010	20.50685	30.00000	Averaged
20 Trichlorofluoromethane/Fr11	3.24357	3.50437	0.010	-8.04025	30.00000	Averaged
26 Ethanol	0.80174	0.64499	0.010	19.55152	30.00000	Averaged
30 Freon 113	1.82361	1.93346	0.010	-6.02373	30.00000	Averaged
31 1,1-Dichloroethene	2.56587	2.66769	0.010	-3.96822	30.00000	Averaged
32 Acetone	0.98718	0.89552	0.010	9.28595	30.00000	Averaged
36 2-Propanol	3.91166	3.60476	0.010	7.84592	30.00000	Averaged
35 Carbon Disulfide	3.71285	3.80783	0.010	-2.55801	30.00000	Averaged
38 3-Chloropropene	0.64872	0.62234	0.010	4.06666	30.00000	Averaged
43 Methylene Chloride	2.24048	2.25816	0.010	-0.78931	30.00000	Averaged
46 MTBE	2.13420	1.71847	0.010	19.47951	30.00000	Averaged
47 trans-1,2-Dichloroethene	1.37724	1.37531	0.010	0.14048	30.00000	Averaged
51 Hexane	3.43490	3.29068	0.010	4.19867	30.00000	Averaged
55 1,1-Dichloroethane	2.80904	2.73421	0.010	2.66383	30.00000	Averaged
67 2-Butanone	0.68482	0.60184	0.010	12.11731	30.00000	Averaged
66 cis-1,2-Dichloroethene	2.21967	2.13617	0.010	3.76175	30.00000	Averaged
70 Tetrahydrofuran	2.82527	2.45215	0.010	13.20649	30.00000	Averaged
72 Chloroform	2.64787	2.27956	0.010	13.90962	30.00000	Averaged
75 1,1,1-Trichloroethane	2.44747	2.38481	0.010	2.56058	30.00000	Averaged
74 Cyclohexane	1.82989	1.71610	0.010	6.21878	30.00000	Averaged
56 Vinyl Acetate	0.42539	0.38626	0.010	9.20000	30.00000	Averaged
77 Carbon Tetrachloride	2.28526	2.28110	0.010	0.18189	30.00000	Averaged
80 2,2,4-Trimethylpentane	9.60073	8.99267	0.010	6.33348	30.00000	Averaged
81 Benzene	1.01774	0.92675	0.010	8.94007	30.00000	Averaged
85 1,2-Dichloroethane	0.49646	0.52681	0.010	-6.11223	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-JAN-2008 10:31
 Lab File ID: 5013002.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
 Analysis Type: AIR Init. Cal. Times: 13:25 17:51
 Lab Sample ID: CCV-1 Quant Type: ISTD
 Method: /chem/msd5.i/5-30jan.b/tl4ql17a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
90 Heptane	0.12132	0.12224	0.010	-0.75762	30.00000	Averaged
93 Trichloroethene	0.38765	0.38727	0.010	0.09775	30.00000	Averaged
98 1,2-Dichloropropane	0.40867	0.38386	0.010	6.07075	30.00000	Averaged
99 1,4-Dioxane	0.23191	0.21077	0.010	9.11846	30.00000	Averaged
100 Bromodichloromethane	0.58739	0.57838	0.010	1.53247	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.44002	0.42127	0.010	4.26207	30.00000	Averaged
106 4-Methyl-2-pentanone	0.44291	0.36775	0.010	16.97132	30.00000	Averaged
108 Toluene	1.00802	0.94943	0.010	5.81176	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.46933	0.52079	0.010	-10.96602	30.00000	Averaged
114 1,1,2-Trichloroethane	0.39550	0.39313	0.010	0.59736	30.00000	Averaged
116 Tetrachloroethene	0.49851	0.49591	0.010	0.52103	30.00000	Averaged
119 2-Hexanone	0.63974	0.58055	0.010	9.25294	30.00000	Averaged
120 Dibromochloromethane	0.63213	0.66418	0.010	-5.07070	30.00000	Averaged
122 1,2-Dibromoethane	0.67203	0.62499	0.010	6.99988	30.00000	Averaged
126 Chlorobenzene	0.94480	0.95933	0.010	-1.53789	30.00000	Averaged
128 Ethyl Benzene	0.54651	0.51662	0.010	5.46816	30.00000	Averaged
130 m,p-Xylene	0.67068	0.65757	0.010	1.95548	30.00000	Averaged
132 o-Xylene	0.64434	0.61128	0.010	5.13021	30.00000	Averaged
133 Styrene	1.04446	0.95123	0.010	8.92578	30.00000	Averaged
134 Bromoform	0.55453	0.58180	0.010	-4.91698	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.87475	0.81653	0.010	6.65550	30.00000	Averaged
144 4-Ethyltoluene	1.97515	1.98529	0.010	-0.51326	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.79125	1.76174	0.010	1.64719	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.47448	1.46628	0.010	0.55575	30.00000	Averaged
155 1,3-Dichlorobenzene	0.96112	0.91450	0.010	4.85059	30.00000	Averaged
156 1,4-Dichlorobenzene	1.18652	1.15796	0.010	2.40687	30.00000	Averaged
157 alpha-Chlorotoluene	1.65950	1.64813	0.010	0.68547	30.00000	Averaged
159 1,2-Dichlorobenzene	0.98939	0.90235	0.010	8.79746	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.73983	0.62406	0.010	15.64856	30.00000	Averaged
164 Hexachlorobutadiene	0.58473	0.51832	0.010	11.35834	30.00000	Averaged
142 Propylbenzene	2.17886	2.10690	0.010	3.30234	30.00000	Averaged
136 Cumene	2.04734	1.85466	0.010	9.41117	30.00000	Averaged
165 Naphthalene	2.69199	2.40057	0.010	10.82548	30.00000	Averaged
17 Isopentane	3.17810	3.14217	0.010	1.13042	30.00000	Averaged
11 Butane	0.52632	0.47922	0.010	8.94911	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 30-JAN-2008 10:31
Lab File ID: 5013002.d Init. Cal. Date(s): 17-JAN-2008 17-JAN-2008
Analysis Type: AIR Init. Cal. Times: 13:25 17:51
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-30jan.b/t14q117a.m

COMPOUND	RRF / AMOUNT	RF50	MIN	MAX	CURVE TYPE	
94 Methyl Cyclohexane	0.61475	0.56646	0.010	7.85434	30.00000	Averaged

Report Date: 05-Feb-2008 15:20

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30jan.b/5013002.d
 Lab Smp Id: CCV-1 Client Smp ID: CCV-1
 Inj Date : 30-JAN-2008 10:31
 Operator : ct Inst ID: msd5.i
 Smp Info : 100mL #1576-198A
 Misc Info : 50ppbv (100ppbv)
 Comment :
 Method : /chem/msd5.i/5-30jan.b/t14q117a.m
 Meth Date : 05-Feb-2008 15:20 sscott Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	(PPBV)	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 71 Bromochloromethane CAS #: 74-97-5									
8.059	8.059	(1.000)	130	330957	25.0000			80.00- 120.00	100.00
8.059	8.059	(1.000)	128	257232				47.72- 107.72	77.72
8.059	8.059	(1.000)	49	765452				201.28- 261.28	231.28

* 92 1,4-Difluorobenzene CAS #: 540-36-3									
9.912	9.912	(1.000)	114	1233834	25.0000			80.00- 120.00	100.00
9.912	9.912	(1.000)	88	216122				0.00- 47.52	17.52

* 125 Chlorobenzene-d5 CAS #: 3114-55-4									
14.999	14.999	(1.000)	117	1008813	25.0000			80.00- 120.00	100.00
14.999	14.999	(1.000)	82	587065				0.00- 30.00	58.19

\$ 84 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
9.137	9.137	(1.134)	65	526583	25.0000	24.856		80.00- 120.00	100.00
9.137	9.137	(1.134)	67	278385				0.00- 30.00	52.87

\$ 107 Toluene-d8 CAS #: 2037-26-5									
12.704	12.704	(1.282)	98	1122542	25.0000	23.829		80.00- 120.00	100.00
12.676	12.676	(1.279)	70	125392				0.00- 30.00	11.17

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 107 Toluene-d8 (continued)										
12.704	12.704	(1.282)	100	784618			0.00- 30.00	69.90		

\$ 138 Bromofluorobenzene										
						CAS #: 460-00-4				
16.575	16.575	(1.105)	174	591164	25.0000	24.755	80.00- 120.00	100.00		
16.575	16.575	(1.105)	95	850005			113.78- 173.78	143.78		
16.575	16.575	(1.105)	176	575588			67.37- 127.37	97.37		

6 Propylene						CAS #: 115-07-1				
2.308	2.308	(0.286)	41	1136293	50.0000	47.250	80.00- 120.00	100.00		
2.308	2.308	(0.286)	42	771426			0.00- 30.00	67.89		
2.308	2.308	(0.286)	39	793663			0.00- 30.00	69.85		

8 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8				
2.363	2.363	(0.293)	85	1759616	50.0000	45.567	80.00- 120.00	100.00		
2.363	2.363	(0.293)	87	567837			0.00- 30.00	32.27		

9 Freon 114						CAS #: 76-14-2				
2.474	2.474	(0.307)	135	1752655	50.0000	52.444	80.00- 120.00	100.00		
2.474	2.474	(0.307)	137	561579			2.04- 62.04	32.04		

10 Chloromethane						CAS #: 74-87-3				
2.640	2.640	(0.328)	50	1408041	50.0000	46.254	80.00- 120.00	100.00		
2.640	2.640	(0.328)	52	420111			0.00- 30.00	29.84		

13 Vinyl Chloride						CAS #: 75-01-4				
2.806	2.806	(0.348)	62	1286902	50.0000	49.922	80.00- 120.00	100.00		
2.806	2.806	(0.348)	64	376716			0.00- 30.00	29.27		

12 1,3-Butadiene						CAS #: 106-99-0				
2.778	2.778	(0.345)	54	1212002	50.0000	45.978	80.00- 120.00	100.00		
2.778	2.778	(0.345)	39	1355300			0.00- 30.00	111.82		

15 Bromomethane						CAS #: 74-83-9				
3.303	3.303	(0.410)	94	709496	50.0000	49.315	80.00- 120.00	100.00		
3.303	3.303	(0.410)	96	673701			64.95- 124.95	94.95		

19 Chloroethane						CAS #: 75-00-3				
3.414	3.414	(0.424)	64	493791	50.0000	39.746	80.00- 120.00	100.00		
3.414	3.414	(0.424)	49	169274			0.00- 30.00	34.28		
3.414	3.414	(0.424)	66	146675			0.00- 30.00	29.70		

20 Trichlorofluoromethane/Fr11						CAS #: 75-69-4				
3.746	3.746	(0.465)	101	2319589	50.0000	54.020	80.00- 120.00	100.00		
3.746	3.746	(0.465)	103	1471381			33.43- 93.43	63.43		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
26 Ethanol						CAS #: 64-17-5			
4.133	4.133	(0.513)	45	426927	50.0000	40.224	80.00- 120.00	100.00	
4.133	4.133	(0.513)	43	85136			0.00- 30.00	19.94	
4.105	4.105	(0.509)	46	190025			0.00- 30.00	44.51	

30 Freon 113						CAS #: 76-13-1			
4.548	4.548	(0.564)	151	1279785	50.0000	53.012	80.00- 120.00	100.00	
4.548	4.548	(0.564)	153	809041			33.22- 93.22	63.22	
4.548	4.548	(0.564)	101	1680687			101.33- 161.33	131.33	

31 1,1-Dichloroethene						CAS #: 75-35-4			
4.575	4.575	(0.568)	61	1765780	50.0000	51.984	80.00- 120.00	100.00	
4.575	4.575	(0.568)	96	845043			17.86- 77.86	47.86	
4.575	4.575	(0.568)	98	534201			0.25- 60.25	30.25	

32 Acetone						CAS #: 67-64-1			
4.741	4.741	(0.588)	58	592754	50.0000	45.357	80.00- 120.00	100.00	
4.741	4.741	(0.588)	43	2049553			0.00- 30.00	345.77	

36 2-Propanol						CAS #: 67-63-0			
4.935	4.935	(0.612)	45	2386040	50.0000	46.077	80.00- 120.00	100.00	
4.935	4.935	(0.612)	43	515522			0.00- 30.00	21.61	
4.935	4.935	(0.612)	59	79286			0.00- 30.00	3.32	

35 Carbon Disulfide						CAS #: 75-15-0			
4.907	4.907	(0.609)	76	2520453	50.0000	51.279	80.00- 120.00	100.00	

38 3-Chloropropene						CAS #: 107-05-1			
5.211	5.211	(0.647)	76	411937	50.0000	47.967	80.00- 120.00	100.00	
5.183	5.183	(0.643)	41	1856032			0.00- 30.00	450.56	

43 Methylene Chloride						CAS #: 75-09-2			
5.460	5.460	(0.677)	49	1494711	50.0000	50.395	80.00- 120.00	100.00	
5.460	5.460	(0.677)	84	726488			18.60- 78.60	48.60	
5.460	5.460	(0.677)	51	452046			0.00- 30.00	30.24	

46 MTBE						CAS #: 1634-04-4			
5.792	5.792	(0.719)	73	1137480	50.0000	40.260	80.00- 120.00	100.00	
5.764	5.764	(0.715)	57	375620			3.02- 63.02	33.02	
5.764	5.764	(0.715)	41	385228			0.00- 30.00	33.87	

47 trans-1,2-Dichloroethene						CAS #: 156-60-5			
5.819	5.819	(0.722)	96	910336	50.0000	49.930	80.00- 120.00	100.00	
5.819	5.819	(0.722)	61	1740208			161.16- 221.16	191.16	
5.819	5.819	(0.722)	98	587307			0.00- 30.00	64.52	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
51 Hexane						CAS #: 110-54-3			
6.179	6.179	(0.767)	57	2178146	50.0000	47.901	80.00- 120.00	100.00	
6.179	6.179	(0.767)	43	1565039			0.00- 30.00	71.85	
6.179	6.179	(0.767)	86	255668			0.00- 30.00	11.74	

55 1,1-Dichloroethane						CAS #: 75-34-3			
6.594	6.594	(0.818)	63	1809814	50.0000	48.668	80.00- 120.00	100.00	
6.594	6.594	(0.818)	65	553996			0.61- 60.61	30.61	

67 2-Butanone						CAS #: 78-93-3			
7.672	7.672	(0.952)	72	398367	50.0000	43.941	80.00- 120.00	100.00	
7.672	7.672	(0.952)	43	2617814			627.14- 687.14	657.14	
7.672	7.672	(0.952)	57	175699			0.00- 30.00	44.10	

66 cis-1,2-Dichloroethene						CAS #: 156-59-2			
7.617	7.617	(0.945)	61	1413960	50.0000	48.119	80.00- 120.00	100.00	
7.644	7.644	(0.949)	96	809294			27.24- 87.24	57.24	
7.644	7.644	(0.949)	98	511620			6.18- 66.18	36.18	

70 Tetrahydrofuran						CAS #: 109-99-9			
8.031	8.031	(0.997)	42	1623115	50.0000	43.397	80.00- 120.00	100.00	
8.059	8.059	(1.000)	71	361212			0.00- 52.25	22.25	
8.059	8.059	(1.000)	72	398981			0.00- 30.00	24.58	

72 Chloroform						CAS #: 67-66-3			
8.197	8.197	(1.017)	83	1508873	50.0000	43.045	80.00- 120.00	100.00	
8.197	8.197	(1.017)	85	972689			34.46- 94.46	64.46	

75 1,1,1-Trichloroethane						CAS #: 71-55-6			
8.446	8.446	(1.048)	97	1578536	50.0000	48.720	80.00- 120.00	100.00	
8.446	8.446	(1.048)	99	999572			33.32- 93.32	63.32	

74 Cyclohexane						CAS #: 110-82-7			
8.418	8.418	(1.045)	84	1135909	50.0000	46.891	80.00- 120.00	100.00	
8.418	8.418	(1.045)	56	2083772			153.45- 213.45	183.45	
8.418	8.418	(1.045)	41	1182896			74.14- 134.14	104.14	

56 Vinyl Acetate						CAS #: 108-05-4			
6.179	6.179	(0.767)	86	255668	50.0000	45.400	80.00- 120.00	100.00	
6.179	6.179	(0.767)	43	1565039			0.00- 30.00	612.14	
6.179	6.179	(0.767)	42	778370			0.00- 30.00	304.45	

77 Carbon Tetrachloride						CAS #: 56-23-5			
8.667	8.667	(1.075)	119	1509891	50.0000	49.909	80.00- 120.00	100.00	
8.667	8.667	(1.075)	117	1569104			73.92- 133.92	103.92	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #: 540-84-1				
9.110	9.110	(1.130)	57	5952377	50.0000	46.833	80.00- 120.00	100.00		
9.110	9.110	(1.130)	56	1977509			0.00- 30.00	33.22		
9.110	9.110	(1.130)	41	1585337			0.00- 30.00	26.63		

81	Benzene					CAS #: 71-43-2				
9.082	9.082	(0.916)	78	2286913	50.0000	45.530	80.00- 120.00	100.00		
9.082	9.082	(0.916)	77	527144			0.00- 30.00	23.05		

85	1,2-Dichloroethane					CAS #: 107-06-2				
9.276	9.276	(0.936)	62	1299992	50.0000	53.056	80.00- 120.00	100.00		
9.276	9.276	(0.936)	64	393856			0.00- 30.00	30.30		

90	Heptane					CAS #: 142-82-5				
9.497	9.497	(0.958)	100	301639	50.0000	50.379	80.00- 120.00	100.00		
9.469	9.469	(0.955)	43	2465462			0.00- 30.00	817.36		
9.497	9.497	(0.958)	71	851830			0.00- 30.00	282.40		

93	Trichloroethene					CAS #: 79-01-6				
10.326	10.326	(1.042)	95	955645	50.0000	49.951	80.00- 120.00	100.00		
10.326	10.326	(1.042)	130	946793			69.07- 129.07	99.07		
10.326	10.326	(1.042)	97	603719			33.17- 93.17	63.17		

98	1,2-Dichloropropane					CAS #: 78-87-5				
10.852	10.852	(1.095)	63	947245	50.0000	46.965	80.00- 120.00	100.00		
10.852	10.852	(1.095)	62	684232			42.23- 102.23	72.23		
10.852	10.852	(1.095)	41	715380			45.52- 105.52	75.52		

99	1,4-Dioxane					CAS #: 123-91-1				
11.073	11.073	(1.117)	88	520102	50.0000	45.441	80.00- 120.00	100.00		
11.073	11.073	(1.117)	58	522530			70.47- 130.47	100.47		
11.073	11.073	(1.117)	57	167121			0.00- 30.00	32.13		

100	Bromodichloromethane					CAS #: 75-27-4				
11.405	11.405	(1.151)	83	1427260	50.0000	49.234	80.00- 120.00	100.00		
11.405	11.405	(1.151)	85	915321			34.13- 94.13	64.13		

103	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
12.317	12.317	(1.243)	75	1039547	50.0000	47.869	80.00- 120.00	100.00		
12.317	12.317	(1.243)	77	333823			2.11- 62.11	32.11		
12.317	12.317	(1.243)	39	829113			49.76- 109.76	79.76		

106	4-Methyl-2-pentanone					CAS #: 108-10-1				
12.594	12.594	(1.271)	58	907475	50.0000	41.514	80.00- 120.00	100.00		
12.594	12.594	(1.271)	43	2577575			0.00- 30.00	284.04		
12.594	12.594	(1.271)	85	281806			0.00- 30.00	31.05		

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
108 Toluene						CAS #: 108-88-3			
12.815	12.815	(1.293)	91	2342888	50.0000	47.094	80.00- 120.00	100.00	
12.815	12.815	(1.293)	92	1385845			29.15- 89.15	59.15	

113 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
13.368	13.368	(0.891)	75	1050764	50.0000	55.483	80.00- 120.00	100.00	
13.368	13.368	(0.891)	77	334860			1.87- 61.87	31.87	
13.368	13.368	(0.891)	39	776908			43.94- 103.94	73.94	

114 1,1,2-Trichloroethane						CAS #: 79-00-5			
13.644	13.644	(0.910)	97	793199	50.0000	49.701	80.00- 120.00	100.00	
13.644	13.644	(0.910)	99	492232			32.06- 92.06	62.06	
13.644	13.644	(0.910)	83	659350			53.13- 113.13	83.13	

116 Tetrachloroethene						CAS #: 127-18-4			
13.700	13.700	(0.913)	166	1000566	50.0000	49.739	80.00- 120.00	100.00	
13.700	13.700	(0.913)	129	833019			53.25- 113.25	83.25	
13.700	13.700	(0.913)	131	791199			49.08- 109.08	79.08	

119 2-Hexanone						CAS #: 591-78-6			
14.004	14.004	(0.934)	58	1171330	50.0000	45.374	80.00- 120.00	100.00	
14.004	14.004	(0.934)	43	2528101			185.83- 245.83	215.83	
14.031	14.031	(0.935)	100	186765			0.00- 30.00	15.94	

120 Dibromochloromethane						CAS #: 124-48-1			
14.197	14.197	(0.947)	129	1340066	50.0000	52.535	80.00- 120.00	100.00	
14.197	14.197	(0.947)	127	1052053			0.00- 30.00	78.51	

122 1,2-Dibromoethane						CAS #: 106-93-4			
14.363	14.363	(0.958)	107	1260999	50.0000	46.500	80.00- 120.00	100.00	
14.363	14.363	(0.958)	109	1184059			63.90- 123.90	93.90	

126 Chlorobenzene						CAS #: 108-90-7			
15.027	15.027	(1.002)	112	1935576	50.0000	50.769	80.00- 120.00	100.00	
15.027	15.027	(1.002)	114	622760			2.17- 62.17	32.17	
15.027	15.027	(1.002)	77	1129915			28.38- 88.38	58.38	

128 Ethyl Benzene						CAS #: 100-41-4			
15.165	15.165	(1.011)	106	1042349	50.0000	47.266	80.00- 120.00	100.00	
15.165	15.165	(1.011)	91	3353106			0.00- 30.00	321.69	

130 m,p-Xylene						CAS #: 108-38-3			
15.331	15.331	(1.022)	106	1326728	50.0000	49.022	80.00- 120.00	100.00	
15.331	15.331	(1.022)	91	2712491			0.00- 30.00	204.45	

132 o-Xylene						CAS #: 95-47-6			
15.856	15.856	(1.057)	106	1233343	50.0000	47.435	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
132 o-Xylene (continued)									
15.856	15.856	(1.057)	91	2638098			183.90- 243.90	213.90	

133 Styrene CAS #: 100-42-5									
15.911	15.911	(1.061)	104	1919232	50.0000	45.537	80.00- 120.00	100.00	
15.911	15.911	(1.061)	78	1013507			22.81- 82.81	52.81	

134 Bromoform CAS #: 75-25-2									
16.160	16.160	(1.077)	173	1173848	50.0000	52.458	80.00- 120.00	100.00	
16.160	16.160	(1.077)	171	599528			21.07- 81.07	51.07	

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
16.796	16.796	(1.120)	83	1647461	50.0000	46.672	80.00- 120.00	100.00	
16.796	16.796	(1.120)	85	1055148			34.05- 94.05	64.05	

144 4-Ethyltoluene CAS #: 622-96-8									
16.962	16.962	(1.131)	105	4005576	50.0000	50.257	80.00- 120.00	100.00	
16.962	16.962	(1.131)	120	1142770			0.00- 58.53	28.53	

147 1,3,5-Trimethylbenzene CAS #: 108-67-8									
17.045	17.045	(1.136)	105	3554540	50.0000	49.176	80.00- 120.00	100.00	
17.045	17.045	(1.136)	120	1703810			0.00- 30.00	47.93	

152 1,2,4-Trimethylbenzene CAS #: 95-63-6									
17.460	17.460	(1.164)	105	2958411	50.0000	49.722	80.00- 120.00	100.00	
17.460	17.460	(1.164)	120	1343556			15.41- 75.41	45.41	

155 1,3-Dichlorobenzene CAS #: 541-73-1									
17.764	17.764	(1.184)	146	1845112	50.0000	47.575	80.00- 120.00	100.00	
17.764	17.764	(1.184)	148	1168373			0.00- 30.00	63.32	
17.764	17.764	(1.184)	111	787924			0.00- 30.00	42.70	

156 1,4-Dichlorobenzene CAS #: 106-46-7									
17.847	17.847	(1.190)	146	2336331	50.0000	48.796	80.00- 120.00	100.00	
17.847	17.847	(1.190)	148	1454944			0.00- 30.00	62.27	
17.847	17.847	(1.190)	111	994553			0.00- 30.00	42.57	

157 alpha-Chlorotoluene CAS #: 100-44-7									
17.985	17.985	(1.199)	91	3325302	50.0000	49.657	80.00- 120.00	100.00	
17.985	17.985	(1.199)	126	667696			0.00- 30.00	20.08	

159 1,2-Dichlorobenzene CAS #: 95-50-1									
18.206	18.206	(1.214)	146	1820606	50.0000	45.601	80.00- 120.00	100.00	
18.206	18.206	(1.214)	148	1151745			33.26- 93.26	63.26	
18.206	18.206	(1.214)	111	756051			11.53- 71.53	41.53	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1			
19.478	19.478	(1.299)	180	1259111	50.0000	42.176	80.00- 120.00	100.00	
19.506	19.506	(1.300)	182	1189713			64.49- 124.49	94.49	

164	Hexachlorobutadiene					CAS #: 87-68-3			
19.589	19.589	(1.306)	225	1045767	50.0000	44.321	80.00- 120.00	100.00	
19.589	19.589	(1.306)	223	661199			33.23- 93.23	63.23	

142	Propylbenzene					CAS #: 103-65-1			
16.824	16.824	(1.122)	91	4250943	50.0000	48.349	80.00- 120.00	100.00	
16.824	16.824	(1.122)	120	978823			0.00- 30.00	23.03	
16.824	16.824	(1.122)	105	156722			0.00- 30.00	3.69	

136	Cumene					CAS #: 98-82-8			
16.326	16.326	(1.088)	105	3742020	50.0000	45.294	80.00- 120.00	100.00	
16.326	16.326	(1.088)	120	998064			0.00- 30.00	26.67	
16.326	16.326	(1.088)	51	539807			0.00- 30.00	14.43	

165	Naphthalene					CAS #: 91-20-3			
19.672	19.672	(1.312)	128	4843452	50.0000	44.587	80.00- 120.00	100.00	
19.672	19.672	(1.312)	127	624266			0.00- 30.00	12.89	

17	Isopentane					CAS #: 78-78-4			
3.442	3.442	(0.427)	43	2079846	50.0000	49.435	80.00- 120.00	100.00	
3.442	3.442	(0.427)	57	1287553			0.00- 30.00	61.91	
3.442	3.442	(0.427)	72	103146			0.00- 30.00	4.96	

11	Butane					CAS #: 106-97-8			
2.695	2.695	(0.334)	58	317202	50.0000	45.525	80.00- 120.00	100.00	
2.695	2.695	(0.334)	43	2556618			0.00- 30.00	805.99	

94	Methyl Cyclohexane					CAS #: 108-87-2			
10.547	10.547	(1.064)	83	1397841	50.0000	46.073	80.00- 120.00	100.00	
10.547	10.547	(1.064)	98	666494			0.00- 30.00	47.68	
10.547	10.547	(1.064)	55	1731779			0.00- 30.00	123.89	

Report Date: 05-Feb-2008 15:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 30-JAN-2008

Lab File ID: 5013002.d

Calibration Time: 10:31

Lab Smp Id: CCV-1

Client Smp ID: CCV-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ct

Method File: /chem/msd5.i/5-30jan.b/t14q117a.m

Misc Info: 50ppbv (100ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	330957	198574	463340	330957	0.00
92 1,4-Difluorobenze	1233834	740300	1727368	1233834	0.00
125 Chlorobenzene-d5	1008813	605288	1412338	1008813	0.00

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

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

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

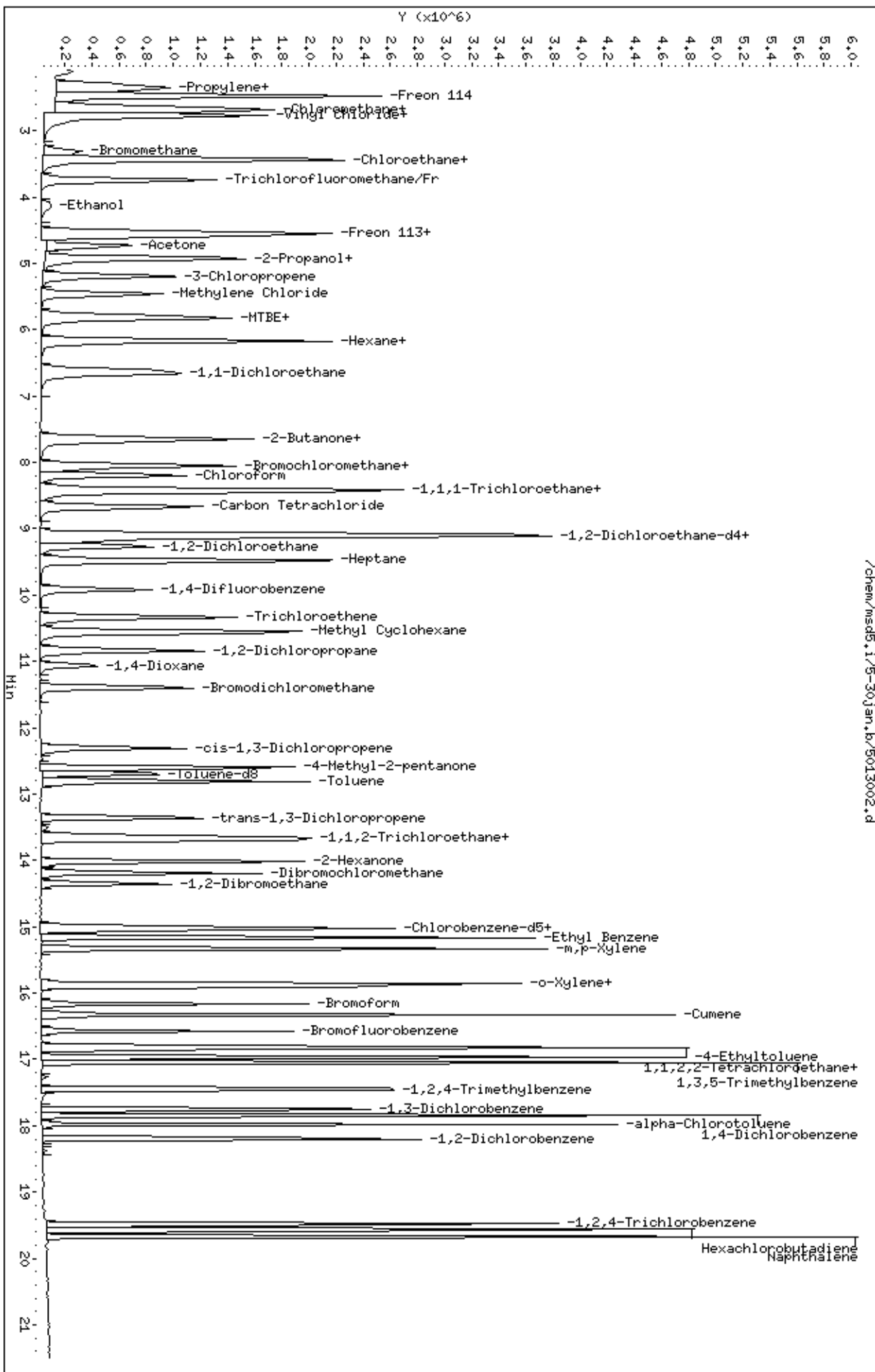
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.

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

Data File: /chem/msd5.1/5-30jan.b/5013002.d
 Date: 30-JAN-2008 10:31
 Client ID: CCV-1
 Sample Info: 100mL #1576-198A

Column phase: RTX-624

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



/chem/msd5.1/5-30jan.b/5013002.d



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801406-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 10:59 AM

Compound	%Recovery
Freon 12	101
Freon 114	104
Vinyl Chloride	99
Bromomethane	102
Chloroethane	83
Freon 11	107
1,1-Dichloroethene	116
Freon 113	118
Methylene Chloride	108
1,1-Dichloroethane	103
cis-1,2-Dichloroethene	100
Chloroform	89
1,1,1-Trichloroethane	102
Carbon Tetrachloride	104
Benzene	93
1,2-Dichloroethane	107
Trichloroethene	101
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	97
Toluene	100
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	98
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	91
Chlorobenzene	102
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	98
Styrene	93
1,1,2,2-Tetrachloroethane	100
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	95
1,3-Butadiene	89
Hexane	99
Cyclohexane	97



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0801406-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	5013003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/30/08 10:59 AM

Compound	%Recovery
Heptane	98
Bromodichloromethane	102
Dibromochloromethane	106
Cumene	95
Propylbenzene	104
Chloromethane	94
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	98
Acetone	92
Carbon Disulfide	102
2-Propanol	95
trans-1,2-Dichloroethene	102
2-Butanone (Methyl Ethyl Ketone)	91
Tetrahydrofuran	87
1,4-Dioxane	90
4-Methyl-2-pentanone	83
2-Hexanone	92
Bromoform	107
4-Ethyltoluene	105
Ethanol	83
Methyl tert-butyl ether	88
3-Chloropropene	100
2,2,4-Trimethylpentane	96
Naphthalene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-30jan
 Sample Matrix: GAS Fraction: VOA
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Level: LOW Operator: ct
 Data Type: MS DATA SampleType: LCS
 SpikeList File: 2926Spectra.spk Quant Type: ISTD
 Sublist File: AT04ENSR.sub
 Method File: /chem/msd5.i/5-30jan.b/t14q117a.m
 Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	50.637	101.27	70-130
9 Freon 114	50.000	52.166	104.33	70-130
10 Chloromethane	50.000	47.089	94.18	70-130
13 Vinyl Chloride	50.000	49.571	99.14	70-130
12 1,3-Butadiene	50.000	44.512	89.02	60-140
15 Bromomethane	50.000	51.060	102.12	70-130
19 Chloroethane	50.000	41.620	83.24	70-130
20 Trichlorofluoromet	50.000	53.726	107.45	70-130
26 Ethanol	50.000	41.371	82.74	60-140
30 Freon 113	50.000	58.835	117.67	70-130
31 1,1-Dichloroethene	50.000	57.856	115.71	70-130
35 Carbon Disulfide	50.000	51.293	102.59	60-140
32 Acetone	50.000	46.157	92.31	60-140
36 2-Propanol	50.000	47.736	95.47	60-140
38 3-Chloropropene	50.000	50.132	100.26	60-140
43 Methylene Chloride	50.000	53.879	107.76	70-130
46 MTBE	50.000	44.193	88.39	60-140
47 trans-1,2-Dichloro	50.000	50.850	101.70	60-140
51 Hexane	50.000	49.333	98.67	60-140
55 1,1-Dichloroethane	50.000	51.390	102.78	70-130
66 cis-1,2-Dichloroet	50.000	49.857	99.71	70-130
67 2-Butanone	50.000	45.560	91.12	60-140
70 Tetrahydrofuran	50.000	43.588	87.18	60-140
72 Chloroform	50.000	44.720	89.44	70-130
74 Cyclohexane	50.000	48.443	96.89	60-140
75 1,1,1-Trichloroeth	50.000	50.949	101.90	70-130
56 Vinyl Acetate	50.000	46.450	92.90	60-140
77 Carbon Tetrachlori	50.000	51.998	104.00	70-130
80 2,2,4-Trimethylpen	50.000	47.772	95.54	60-140
81 Benzene	50.000	46.634	93.27	70-130
85 1,2-Dichloroethane	50.000	53.706	107.41	70-130
90 Heptane	50.000	49.215	98.43	60-140
93 Trichloroethene	50.000	50.683	101.37	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	46.162	92.32	70-130
99 1,4-Dioxane	50.000	45.003	90.01	60-140
100 Bromodichlorometha	50.000	50.925	101.85	60-140
103 cis-1,3-Dichloropr	50.000	48.481	96.96	70-130
106 4-Methyl-2-pentano	50.000	41.353	82.71	60-140
108 Toluene	50.000	49.894	99.79	70-130
113 trans-1,3-Dichloro	50.000	54.337	108.67	70-130
114 1,1,2-Trichloroeth	50.000	49.142	98.28	70-130
116 Tetrachloroethene	50.000	51.194	102.39	70-130
119 2-Hexanone	50.000	46.040	92.08	60-140
120 Dibromochlorometha	50.000	53.134	106.27	60-140
122 1,2-Dibromoethane	50.000	45.471	90.94	70-130
126 Chlorobenzene	50.000	51.082	102.16	70-130
128 Ethyl Benzene	50.000	48.948	97.90	70-130
130 m,p-Xylene	50.000	50.005	100.01	70-130
132 o-Xylene	50.000	49.251	98.50	70-130
133 Styrene	50.000	46.675	93.35	70-130
134 Bromoform	50.000	53.459	106.92	60-140
136 Cumene	50.000	47.474	94.95	60-140
141 1,1,2,2-Tetrachlor	50.000	49.908	99.82	70-130
142 Propylbenzene	50.000	51.950	103.90	60-140
144 4-Ethyltoluene	50.000	52.641	105.28	60-140
147 1,3,5-Trimethylben	50.000	50.416	100.83	70-130
152 1,2,4-Trimethylben	50.000	50.587	101.17	70-130
155 1,3-Dichlorobenzen	50.000	49.893	99.79	70-130
156 1,4-Dichlorobenzen	50.000	51.669	103.34	70-130
157 alpha-Chlorotoluen	50.000	55.038	110.08	70-130
159 1,2-Dichlorobenzen	50.000	47.619	95.24	70-130
163 1,2,4-Trichloroben	50.000	49.271	98.54	70-130
164 Hexachlorobutadien	50.000	49.152	98.30	70-130
6 Propylene	50.000	50.686	101.37	70-130
165 Naphthalene	50.000	50.041	100.08	60-140
11 Butane	50.000	45.680	91.36	70-130
17 Isopentane	50.000	46.968	93.94	70-130
94 Methyl Cyclohexane	50.000	47.437	94.87	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 84 1,2-Dichloroethane	25.000	24.254	97.02	70-130
\$ 107 Toluene-d8	25.000	23.614	94.46	70-130
\$ 138 Bromofluorobenzene	25.000	25.493	101.97	70-130

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-30jan.b/5013003.d
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1
 Inj Date : 30-JAN-2008 10:59
 Operator : ct Inst ID: msd5.i
 Smp Info : 100mL #1576-171A
 Misc Info : 50ppbv (100ppbv)
 Comment :
 Method : /chem/msd5.i/5-30jan.b/t14q117a.m
 Meth Date : 05-Feb-2008 15:20 sscott Quant Type: ISTD
 Cal Date : 17-JAN-2008 13:25 Cal File: 5011708.d
 Als bottle: 1 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: AT04ENSR.sub
 Target Version: 3.50 Sample Matrix: AIR
 Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

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

* 71	Bromochloromethane					CAS #: 74-97-5		
8.059	8.059	(1.000)	130	248538	25.0000	80.00- 120.00	100.00	
8.059	8.059	(1.000)	128	195534		47.72- 107.72	78.67	
8.031	8.059	(1.000)	49	555755		201.28- 261.28	223.61	

* 92	1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.912	(1.000)	114	947205	25.0000	80.00- 120.00	100.00	
9.911	9.912	(1.000)	88	157558		0.00- 47.52	16.63	

* 125	Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999	(1.000)	117	800399	25.0000	80.00- 120.00	100.00	
14.999	14.999	(1.000)	82	475527		0.00- 30.00	59.41	

\$ 84	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.110	9.137	(1.130)	65	385874	24.2539	80.00- 120.00	100.00	
9.110	9.137	(1.130)	67	214784		0.00- 30.00	55.66	

\$ 107	Toluene-d8					CAS #: 2037-26-5		
12.676	12.704	(1.279)	98	853987	23.6141	80.00- 120.00	100.00	
12.676	12.676	(1.279)	70	93685		0.00- 30.00	10.97	

CONCENTRATIONS

ON-COL FINAL

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

\$ 107 Toluene-d8 (continued)

12.676	12.704 (1.279)	100	576079			0.00- 30.00	67.46
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\$ 138 Bromofluorobenzene

CAS #: 460-00-4

16.575	16.575 (1.105)	174	483007	25.4930	25.493	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	712308			113.78- 173.78	147.47
16.575	16.575 (1.105)	176	464503			67.37- 127.37	96.17

6 Propylene

CAS #: 115-07-1

2.280	2.308 (0.283)	41	915373	50.6858	50.686	80.00- 120.00	100.00
2.280	2.308 (0.283)	42	619419			0.00- 30.00	67.67
2.280	2.308 (0.283)	39	633361			0.00- 30.00	69.19

8 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

2.336	2.363 (0.290)	85	1468427	50.6367	50.637	80.00- 120.00	100.00
2.336	2.363 (0.290)	87	473684			0.00- 30.00	32.26

9 Freon 114

CAS #: 76-14-2

2.446	2.474 (0.304)	135	1309231	52.1664	52.166	80.00- 120.00	100.00
2.446	2.474 (0.304)	137	415116			2.04- 62.04	31.71

10 Chloromethane

CAS #: 74-87-3

2.584	2.640 (0.321)	50	1076469	47.0887	47.089	80.00- 120.00	100.00
2.584	2.640 (0.321)	52	334612			0.00- 30.00	31.08

13 Vinyl Chloride

CAS #: 75-01-4

2.750	2.806 (0.341)	62	959635	49.5710	49.571	80.00- 120.00	100.00
2.750	2.806 (0.341)	64	283185			0.00- 30.00	29.51

12 1,3-Butadiene

CAS #: 106-99-0

2.750	2.778 (0.341)	54	881155	44.5120	44.512	80.00- 120.00	100.00
2.750	2.778 (0.341)	39	990771			0.00- 30.00	112.44

15 Bromomethane

CAS #: 74-83-9

3.276	3.303 (0.406)	94	551663	51.0604	51.060	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	510544			64.95- 124.95	92.55

19 Chloroethane

CAS #: 75-00-3

3.386	3.414 (0.420)	64	388305	41.6206	41.620	80.00- 120.00	100.00
3.386	3.414 (0.420)	49	130192			0.00- 30.00	33.53
3.386	3.414 (0.420)	66	114395			0.00- 30.00	29.46

20 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

3.718	3.746 (0.461)	101	1732452	53.7260	53.726	80.00- 120.00	100.00
3.718	3.746 (0.461)	103	1131089			33.43- 93.43	65.29

CONCENTRATIONS

ON-COL FINAL

RT EXP RT (REL RT) MASS RESPONSE (PPEV) (PPBV) TARGET RANGE RATIO
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26 Ethanol CAS #: 64-17-5
 4.105 4.133 (0.509) 45 329746 41.3707 41.371 80.00- 120.00 100.00
 4.105 4.133 (0.509) 43 64120 0.00- 30.00 19.45
 4.105 4.105 (0.509) 46 129524 0.00- 30.00 39.28

30 Freon 113 CAS #: 76-13-1
 4.520 4.548 (0.561) 151 1066656 58.8355 58.835 80.00- 120.00 100.00
 4.520 4.548 (0.561) 153 694077 33.22- 93.22 65.07
 4.520 4.548 (0.561) 101 1415431 101.33- 161.33 132.70

31 1,1-Dichloroethene CAS #: 75-35-4
 4.547 4.575 (0.564) 61 1475823 57.8558 57.856 80.00- 120.00 100.00
 4.575 4.575 (0.568) 96 687910 17.86- 77.86 46.61
 4.547 4.575 (0.564) 98 440710 0.25- 60.25 29.86

32 Acetone CAS #: 67-64-1
 4.713 4.741 (0.585) 58 452994 46.1574 46.157 80.00- 120.00 100.00
 4.713 4.741 (0.585) 43 1544497 0.00- 30.00 340.95

36 2-Propanol CAS #: 67-63-0
 4.907 4.935 (0.609) 45 1856342 47.7357 47.736 80.00- 120.00 100.00
 4.907 4.935 (0.609) 43 385223 0.00- 30.00 20.75
 4.907 4.935 (0.609) 59 60467 0.00- 30.00 3.26

35 Carbon Disulfide CAS #: 75-15-0
 4.907 4.907 (0.609) 76 1893310 51.2934 51.293 80.00- 120.00 100.00

38 3-Chloropropene CAS #: 107-05-1
 5.183 5.211 (0.643) 76 323314 50.1317 50.132 80.00- 120.00 100.00
 5.183 5.183 (0.643) 41 1418427 0.00- 30.00 438.71

43 Methylene Chloride CAS #: 75-09-2
 5.432 5.460 (0.674) 49 1200100 53.8795 53.879 80.00- 120.00 100.00
 5.432 5.460 (0.674) 84 576756 18.60- 78.60 48.06
 5.432 5.460 (0.674) 51 365583 0.00- 30.00 30.46

46 MTBE CAS #: 1634-04-4
 5.764 5.792 (0.715) 73 937648 44.1928 44.193 80.00- 120.00 100.00
 5.764 5.764 (0.715) 57 301957 3.02- 63.02 32.20
 5.764 5.764 (0.715) 41 319015 0.00- 30.00 34.02

47 trans-1,2-Dichloroethene CAS #: 156-60-5
 5.819 5.819 (0.722) 96 696239 50.8505 50.850 80.00- 120.00 100.00
 5.819 5.819 (0.722) 61 1302401 161.16- 221.16 187.06
 5.819 5.819 (0.722) 98 433707 0.00- 30.00 62.29

CONCENTRATIONS

ON-COL FINAL

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

51 Hexane CAS #: 110-54-3
 6.151 6.179 (0.763) 57 1684643 49.3334 49.333 80.00- 120.00 100.00
 6.151 6.179 (0.763) 43 1196744 0.00- 30.00 71.04
 6.151 6.179 (0.763) 86 196440 0.00- 30.00 11.66

55 1,1-Dichloroethane CAS #: 75-34-3
 6.594 6.594 (0.818) 63 1435121 51.3899 51.390 80.00- 120.00 100.00
 6.594 6.594 (0.818) 65 441486 0.61- 60.61 30.76

67 2-Butanone CAS #: 78-93-3
 7.644 7.672 (0.949) 72 310183 45.5603 45.560 80.00- 120.00 100.00
 7.644 7.672 (0.949) 43 2017423 627.14- 687.14 650.40
 7.644 7.672 (0.949) 57 136631 0.00- 30.00 44.05

66 cis-1,2-Dichloroethene CAS #: 156-59-2
 7.617 7.617 (0.945) 61 1100184 49.8568 49.857 80.00- 120.00 100.00
 7.617 7.644 (0.945) 96 645083 27.24- 87.24 58.63
 7.617 7.644 (0.945) 98 404212 6.18- 66.18 36.74

70 Tetrahydrofuran CAS #: 109-99-9
 8.031 8.031 (0.997) 42 1224278 43.5880 43.588 80.00- 120.00 100.00
 8.031 8.059 (0.997) 71 278947 0.00- 52.25 22.78
 8.031 8.059 (0.997) 72 301241 0.00- 30.00 24.61

72 Chloroform CAS #: 67-66-3
 8.197 8.197 (1.017) 83 1177196 44.7198 44.720 80.00- 120.00 100.00
 8.170 8.197 (1.014) 85 762972 34.46- 94.46 64.81

75 1,1,1-Trichloroethane CAS #: 71-55-6
 8.418 8.446 (1.045) 97 1239673 50.9491 50.949 80.00- 120.00 100.00
 8.418 8.446 (1.045) 99 793040 33.32- 93.32 63.97

74 Cyclohexane CAS #: 110-82-7
 8.391 8.418 (1.041) 84 881279 48.4434 48.443 80.00- 120.00 100.00
 8.391 8.418 (1.041) 56 1603913 153.45- 213.45 182.00
 8.391 8.418 (1.041) 41 888413 74.14- 134.14 100.81

56 Vinyl Acetate CAS #: 108-05-4
 6.151 6.179 (0.763) 86 196440 46.4503 46.450 80.00- 120.00 100.00
 6.151 6.179 (0.763) 43 1196744 0.00- 30.00 609.22
 6.151 6.179 (0.763) 42 582316 0.00- 30.00 296.43

77 Carbon Tetrachloride CAS #: 56-23-5
 8.667 8.667 (1.075) 119 1181344 51.9983 51.998 80.00- 120.00 100.00
 8.667 8.667 (1.075) 117 1229972 73.92- 133.92 104.12

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		

80	2,2,4-Trimethylpentane					CAS #:	540-84-1			
9.082	9.110	(1.127)	57	4559621	47.7718	47.772	80.00-	120.00	100.00	
9.082	9.110	(1.127)	56	1540309			0.00-	30.00	33.78	
9.082	9.110	(1.127)	41	1209453			0.00-	30.00	26.53	

81	Benzene					CAS #:	71-43-2			
9.082	9.082	(0.916)	78	1798201	46.6336	46.634	80.00-	120.00	100.00	
9.082	9.082	(0.916)	77	409259			0.00-	30.00	22.76	

85	1,2-Dichloroethane					CAS #:	107-06-2			
9.248	9.276	(0.933)	62	1010229	53.7066	53.706	80.00-	120.00	100.00	
9.248	9.276	(0.933)	64	305075			0.00-	30.00	30.20	

90	Heptane					CAS #:	142-82-5			
9.469	9.497	(0.955)	100	226217	49.2151	49.215	80.00-	120.00	100.00	
9.469	9.469	(0.955)	43	1917959			0.00-	30.00	847.84	
9.469	9.497	(0.955)	71	656672			0.00-	30.00	290.28	

93	Trichloroethene					CAS #:	79-01-6			
10.326	10.326	(1.042)	95	744386	50.6827	50.683	80.00-	120.00	100.00	
10.326	10.326	(1.042)	130	736761			69.07-	129.07	98.98	
10.326	10.326	(1.042)	97	475850			33.17-	93.17	63.93	

98	1,2-Dichloropropane					CAS #:	78-87-5			
10.824	10.852	(1.092)	63	714771	46.1624	46.162	80.00-	120.00	100.00	
10.824	10.852	(1.092)	62	528643			42.23-	102.23	73.96	
10.824	10.852	(1.092)	41	557905			45.52-	105.52	78.05	

99	1,4-Dioxane					CAS #:	123-91-1			
11.045	11.073	(1.114)	88	395432	45.0030	45.003	80.00-	120.00	100.00	
11.045	11.073	(1.114)	58	406089			70.47-	130.47	102.70	
11.045	11.073	(1.114)	57	128607			0.00-	30.00	32.52	

100	Bromodichloromethane					CAS #:	75-27-4			
11.377	11.405	(1.148)	83	1133332	50.9249	50.925	80.00-	120.00	100.00	
11.377	11.405	(1.148)	85	725719			34.13-	94.13	64.03	

103	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
12.289	12.317	(1.240)	75	808261	48.4813	48.481	80.00-	120.00	100.00	
12.289	12.317	(1.240)	77	261909			2.11-	62.11	32.40	
12.289	12.317	(1.240)	39	641098			49.76-	109.76	79.32	

106	4-Methyl-2-pentanone					CAS #:	108-10-1			
12.593	12.594	(1.271)	58	693959	41.3533	41.353	80.00-	120.00	100.00	
12.593	12.594	(1.271)	43	2052453			0.00-	30.00	295.76	
12.593	12.594	(1.271)	85	227843			0.00-	30.00	32.83	

CONCENTRATIONS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
108 Toluene						CAS #:	108-88-3			
12.815	12.815	(1.293)	91	1905567	49.8944	49.894	80.00-	120.00	100.00	
12.815	12.815	(1.293)	92	1160219			29.15-	89.15	60.89	

113 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
13.368	13.368	(0.891)	75	816459	54.3367	54.337	80.00-	120.00	100.00	
13.368	13.368	(0.891)	77	266555			1.87-	61.87	32.65	
13.340	13.368	(0.889)	39	620293			43.94-	103.94	75.97	

114 1,1,2-Trichloroethane						CAS #:	79-00-5			
13.644	13.644	(0.910)	97	622244	49.1417	49.142	80.00-	120.00	100.00	
13.644	13.644	(0.910)	99	390039			32.06-	92.06	62.68	
13.644	13.644	(0.910)	83	518852			53.13-	113.13	83.38	

116 Tetrachloroethene						CAS #:	127-18-4			
13.699	13.700	(0.913)	166	817069	51.1939	51.194	80.00-	120.00	100.00	
13.672	13.700	(0.912)	129	662367			53.25-	113.25	81.07	
13.672	13.700	(0.912)	131	631876			49.08-	109.08	77.33	

119 2-Hexanone						CAS #:	591-78-6			
14.004	14.004	(0.934)	58	942995	46.0402	46.040	80.00-	120.00	100.00	
14.004	14.004	(0.934)	43	2034021			185.83-	245.83	215.70	
14.004	14.031	(0.934)	100	150992			0.00-	30.00	16.01	

120 Dibromochloromethane						CAS #:	124-48-1			
14.197	14.197	(0.947)	129	1075332	53.1340	53.134	80.00-	120.00	100.00	
14.197	14.197	(0.947)	127	837551			0.00-	30.00	77.89	

122 1,2-Dibromoethane						CAS #:	106-93-4			
14.335	14.363	(0.956)	107	978345	45.4710	45.471	80.00-	120.00	100.00	
14.335	14.363	(0.956)	109	911605			63.90-	123.90	93.18	

126 Chlorobenzene						CAS #:	108-90-7			
15.027	15.027	(1.002)	112	1545160	51.0817	51.082	80.00-	120.00	100.00	
15.027	15.027	(1.002)	114	500856			2.17-	62.17	32.41	
15.027	15.027	(1.002)	77	920836			28.38-	88.38	59.59	

128 Ethyl Benzene						CAS #:	100-41-4			
15.165	15.165	(1.011)	106	856439	48.9481	48.948	80.00-	120.00	100.00	
15.165	15.165	(1.011)	91	2657374			0.00-	30.00	310.28	

130 m,p-Xylene						CAS #:	108-38-3			
15.331	15.331	(1.022)	106	1073731	50.0047	50.005	80.00-	120.00	100.00	
15.331	15.331	(1.022)	91	2195442			0.00-	30.00	204.47	

132 o-Xylene						CAS #:	95-47-6			
15.856	15.856	(1.057)	106	1016010	49.2511	49.251	80.00-	120.00	100.00	

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
132 o-Xylene (continued)								
15.856	15.856	(1.057)	91	2190203			183.90- 243.90	215.57

133 Styrene CAS #: 100-42-5								
15.911	15.911	(1.061)	104	1560779	46.6749	46.675	80.00- 120.00	100.00
15.884	15.911	(1.059)	78	827290			22.81- 82.81	53.00

134 Bromoform CAS #: 75-25-2								
16.160	16.160	(1.077)	173	949105	53.4592	53.459	80.00- 120.00	100.00
16.160	16.160	(1.077)	171	503377			21.07- 81.07	53.04

141 1,1,2,2-Tetrachloroethane CAS #: 79-34-5								
16.796	16.796	(1.120)	83	1397739	49.9084	49.908	80.00- 120.00	100.00
16.796	16.796	(1.120)	85	884183			34.05- 94.05	63.26

144 4-Ethyltoluene CAS #: 622-96-8								
16.962	16.962	(1.131)	105	3328819	52.6408	52.641	80.00- 120.00	100.00
16.962	16.962	(1.131)	120	953584			0.00- 58.53	28.65

147 1,3,5-Trimethylbenzene CAS #: 108-67-8								
17.045	17.045	(1.136)	105	2891265	50.4157	50.416	80.00- 120.00	100.00
17.045	17.045	(1.136)	120	1383377			0.00- 30.00	47.85

152 1,2,4-Trimethylbenzene CAS #: 95-63-6								
17.460	17.460	(1.164)	105	2388035	50.5867	50.587	80.00- 120.00	100.00
17.460	17.460	(1.164)	120	1080357			15.41- 75.41	45.24

155 1,3-Dichlorobenzene CAS #: 541-73-1								
17.764	17.764	(1.184)	146	1535261	49.8930	49.893	80.00- 120.00	100.00
17.764	17.764	(1.184)	148	969861			0.00- 30.00	63.17
17.764	17.764	(1.184)	111	651996			0.00- 30.00	42.47

156 1,4-Dichlorobenzene CAS #: 106-46-7								
17.847	17.847	(1.190)	146	1962792	51.6694	51.669	80.00- 120.00	100.00
17.847	17.847	(1.190)	148	1234497			0.00- 30.00	62.89
17.847	17.847	(1.190)	111	841772			0.00- 30.00	42.89

157 alpha-Chlorotoluene CAS #: 100-44-7								
17.985	17.985	(1.199)	91	2924201	55.0381	55.038	80.00- 120.00	100.00
17.985	17.985	(1.199)	126	595871			0.00- 30.00	20.38

159 1,2-Dichlorobenzene CAS #: 95-50-1								
18.206	18.206	(1.214)	146	1508409	47.6194	47.619	80.00- 120.00	100.00
18.206	18.206	(1.214)	148	962941			33.26- 93.26	63.84
18.206	18.206	(1.214)	111	656808			11.53- 71.53	43.54

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====

163	1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.478	19.478	(1.299)	180	1167045	49.2709	49.271	80.00- 120.00	100.00
19.478	19.506	(1.299)	182	1080226			64.49- 124.49	92.56

164	Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589	(1.306)	225	920159	49.1519	49.152	80.00- 120.00	100.00
19.589	19.589	(1.306)	223	585472			33.23- 93.23	63.63

142	Propylbenzene					CAS #: 103-65-1		
16.824	16.824	(1.122)	91	3623956	51.9503	51.950	80.00- 120.00	100.00
16.824	16.824	(1.122)	120	840044			0.00- 30.00	23.18
16.824	16.824	(1.122)	105	130334			0.00- 30.00	3.60

136	Cumene					CAS #: 98-82-8		
16.326	16.326	(1.088)	105	3111844	47.4745	47.474	80.00- 120.00	100.00
16.326	16.326	(1.088)	120	842224			0.00- 30.00	27.07
16.326	16.326	(1.088)	51	458225			0.00- 30.00	14.73

165	Naphthalene					CAS #: 91-20-3		
19.672	19.672	(1.312)	128	4312910	50.0415	50.041	80.00- 120.00	100.00
19.672	19.672	(1.312)	127	537471			0.00- 30.00	12.46

17	Isopentane					CAS #: 78-78-4		
3.414	3.442	(0.424)	43	1483952	46.9678	46.968	80.00- 120.00	100.00
3.414	3.442	(0.424)	57	926386			0.00- 30.00	62.43
3.414	3.442	(0.424)	72	81388			0.00- 30.00	5.48

11	Butane					CAS #: 106-97-8		
2.667	2.695	(0.331)	58	239018	45.6802	45.680	80.00- 120.00	100.00
2.667	2.695	(0.331)	43	1931917			0.00- 30.00	808.27

94	Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547	(1.064)	83	1104877	47.4366	47.437	80.00- 120.00	100.00
10.547	10.547	(1.064)	98	538187			0.00- 30.00	48.71
10.547	10.547	(1.064)	55	1351446			0.00- 30.00	122.32

Report Date: 05-Feb-2008 15:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i

Calibration Date: 30-JAN-2008

Lab File ID: 5013003.d

Calibration Time: 10:31

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ct

Method File: /chem/msd5.i/5-30jan.b/t14q117a.m

Misc Info: 50ppbv (100ppbv)

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
71 Bromochloromethan	330957	198574	463340	248538	-24.90
92 1,4-Difluorobenze	1233834	740300	1727368	947205	-23.23
125 Chlorobenzene-d5	1008813	605288	1412338	800399	-20.66

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

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

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

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

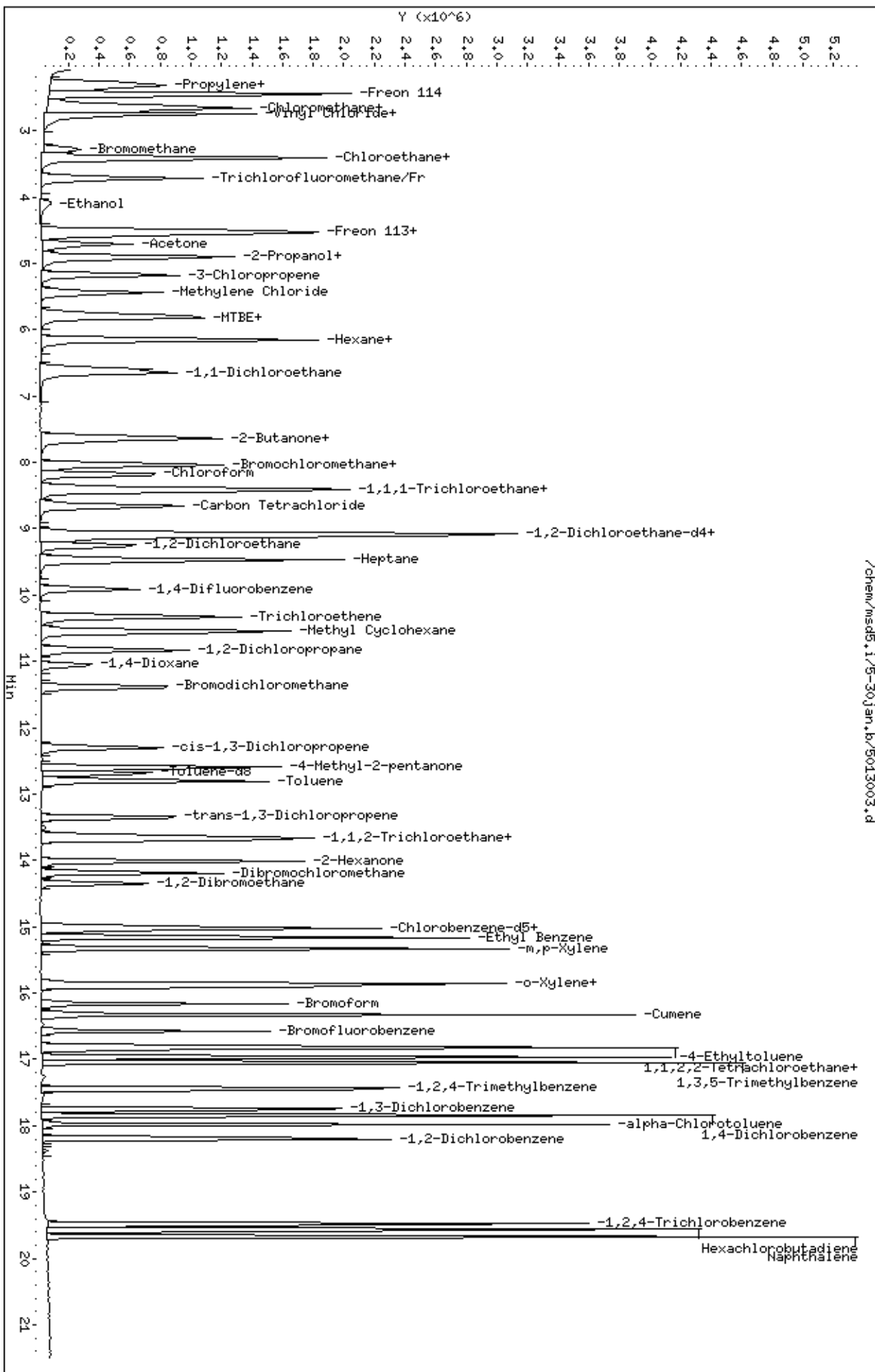
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.1/5-30jan.b/5013003.d
Date: 30-JAN-2008 10:59
Client ID: LCS-1
Sample Info: 100mL #1576-171A

Column phase: RTX-624

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

/chem/msd5.1/5-30jan.b/5013003.d



ION ABUNDANCE CRITERIA

m/z	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95
75	30.0 - 60.0% of mass 95
95	Base peak, 100.00% relative abundance
96	5.0 - 9.0% of mass 95
173	Less than 2.0% of mass 174
174	Greater than 50.0% of mass 95
175	5.0 - 9.0% of mass 174
176	Greater than 95.0% but less than 101.0% of mass 174
177	5.0 - 9.0% of mass 176

BFB Injection Date: 1/30/08

BFB Injection Time: 1:07+

BFB File ID: 5013001

Tekmar Purge Flow: 3.23 x 10⁻⁶ Torr

Vacuum: 3.23 x 10⁻⁶ Torr

IS/Std.#:	1541-8	Exp. Date:	4-9-08
BCM	330957		
1,4-DFB	1233634		
CB-d5	1008813		

Verified CV IS vs ICAL mid-point (-40%D) CB

NOAH Cart #: 14 File #: 5013004

File ID: 5013002

Compound: toluene-d8

Initials: CB

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Areas}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1122542)}{(1233634)} \times \frac{(25.0)}{(0.95450)} = 23.829$

Reported Result 23.829

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
✓	5013001	BFB Tube Check	1470-41	Strong	2ul	100	1/30/08	1:07+	CB	Apex #1 Scan 100
✓	02	CCV-1 (100ppm)	1570-1584	50ppm	100ul	✓	✓	1:031	CB	
✓	03	LC5-1 (100ppm)	1570-1724	↓	↓	✓	✓	1:059	CB	
✓	04	Lab Blank	12944	Humid	200ul	✓	✓	1:155	CB	Cont Cont #14 Leg 5
✓	05	Cont Cont #11 Leg 5	↓	↓	↓	✓	✓	1:314	CB	Cont Cont #11 Leg 5
✓	06	680110E-01A	05482	5.0% Spn	200ul	✓	✓	1:407	CB	
✓	07	07A	4804	5.5% Spn	↓	✓	✓	1:410	CB	
✓	08	680135A-07A	53268	10ppm	↓	✓	✓	1:25	CB	
✓	09	09A	↓	↓	↓	✓	✓	↓	CB	

Signature [Signature]

Date 1/30/08

Report Date: 17-Jan-2008 12:15

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-17jan.b/5011706.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 17-JAN-2008 12:25
 Operator : cb Inst ID: msd5.i
 Smp Info : BFB Tune Check
 Misc Info : 2uL #1476-65 50 ng
 Comment :
 Method : /var/chem/msd5.i/5-17jan.b/bfb30.m
 Meth Date : 17-Jan-2008 12:15 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER
 Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

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

CAS #: 460-00-4

1 bfb							
3.789	3.900	-0.111	95	1628543		100.00- 100.00	100.00
3.789	3.900	-0.111	50	454878		15.00- 40.00	27.93
3.789	3.900	-0.111	75	782128		30.00- 60.00	48.03
3.789	3.900	-0.111	96	113233		5.00- 9.00	6.95
3.789	3.900	-0.111	173	11877		0.00- 2.00	1.13
3.789	3.900	-0.111	174	1046577		50.00- 100.00	64.26
3.789	3.900	-0.111	175	80813		5.00- 9.00	7.72
3.789	3.900	-0.111	176	1005912		95.00- 101.00	96.11
3.789	3.900	-0.111	177	66537		5.00- 9.00	6.61

Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

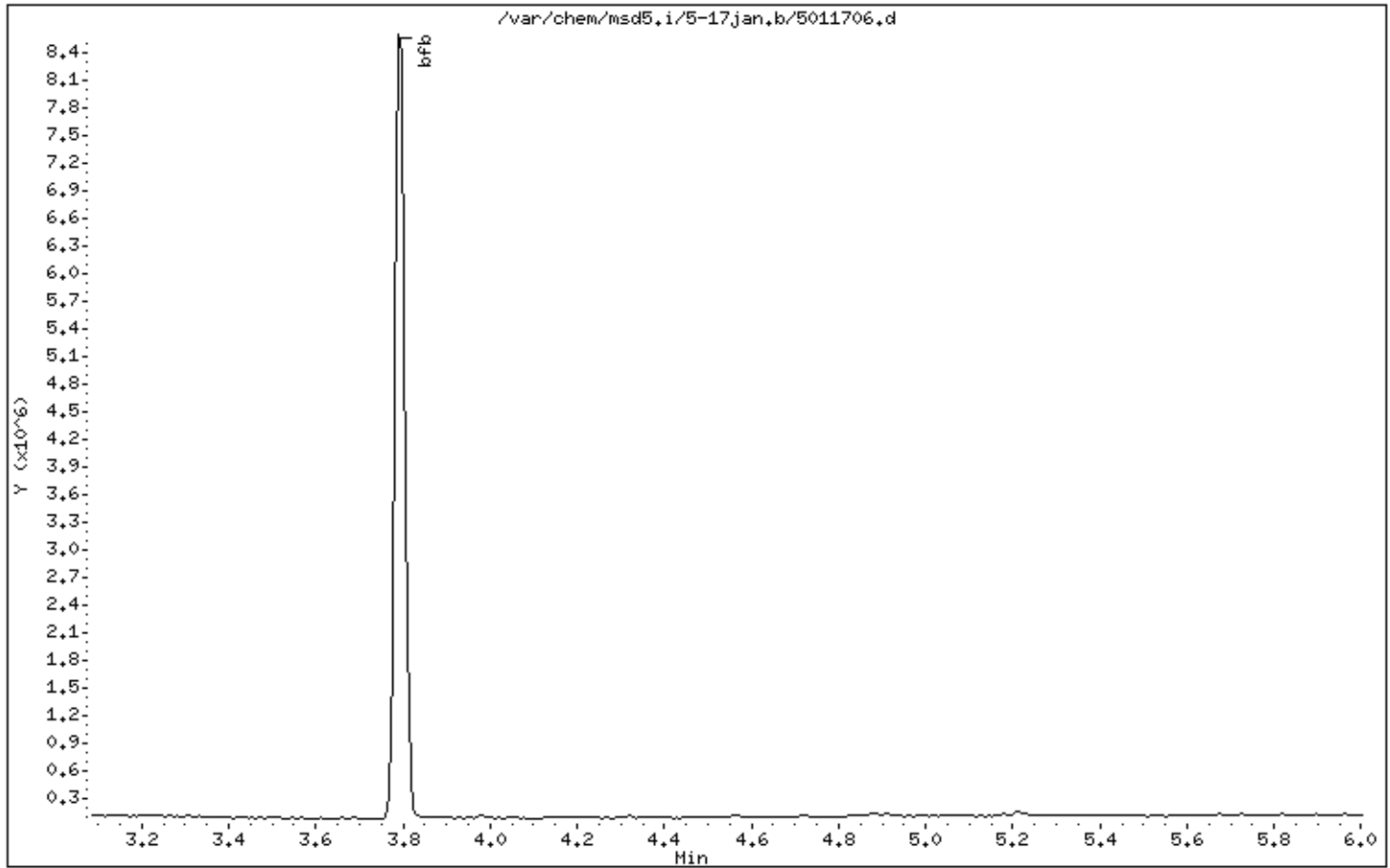
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

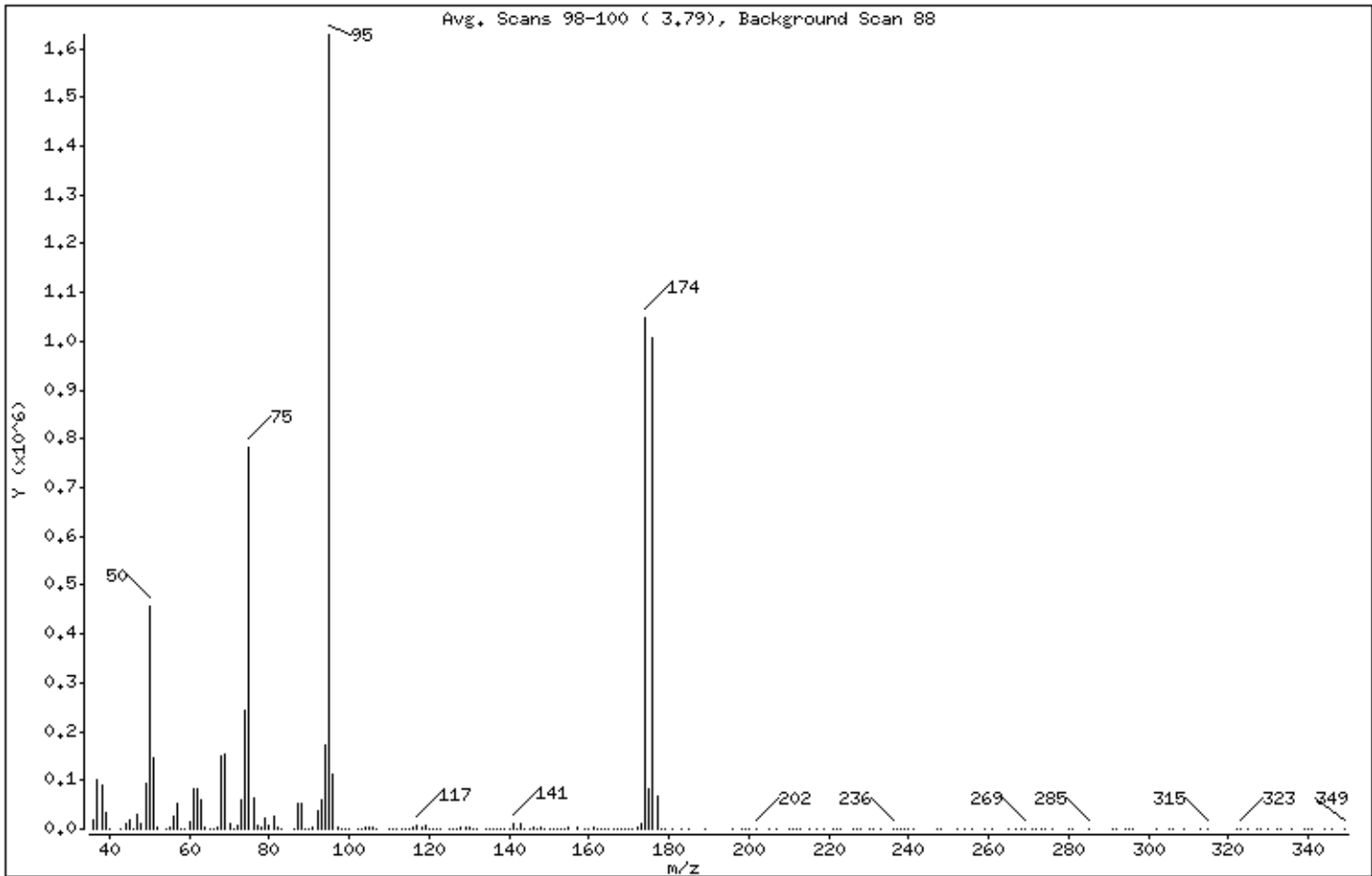
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	27.93
75	30.00 - 60.00% of mass 95	48.03
96	5.00 - 9.00% of mass 95	6.95
173	Less than 2.00% of mass 174	0.73 (1.13)
174	50.00 - 100.00% of mass 95	64.26
175	5.00 - 9.00% of mass 174	4.96 (7.72)
176	95.00 - 101.00% of mass 174	61.77 (96.11)
177	5.00 - 9.00% of mass 176	4.09 (6.61)

Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5011706.d

Spectrum: Avg. Scans 98-100 (3.79), Background Scan 88

Location of Maximum: 95.00

Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	16968	94.00	171136	152.00	671	236.00	307
37.00	100424	95.00	1628160	153.00	1008	237.00	116
38.00	89216	96.00	113232	154.00	501	238.00	67
39.00	33320	97.00	2615	155.00	3005	239.00	77
40.00	33	98.00	67	157.00	2917	240.00	105
43.00	1077	99.00	147	159.00	1633	241.00	229
44.00	9359	100.00	168	160.00	55	247.00	16
45.00	18120	102.00	180	161.00	2258	248.00	81
46.00	46	103.00	437	162.00	236	252.00	68
47.00	30568	104.00	4448	163.00	26	254.00	271
48.00	12411	105.00	2083	164.00	91	256.00	50
49.00	92104	106.00	4596	165.00	420	259.00	81
50.00	454848	107.00	659	166.00	350	261.00	115
51.00	146368	110.00	493	167.00	217	265.00	253
52.00	5551	111.00	786	168.00	208	267.00	81
54.00	10	112.00	556	169.00	1282	268.00	195
55.00	4302	113.00	447	170.00	463	269.00	514
56.00	26832	114.00	20	171.00	1346	271.00	78
57.00	53440	115.00	868	172.00	2182	272.00	82
58.00	1558	116.00	3860	173.00	11877	273.00	67
59.00	343	117.00	6383	174.00	1046528	274.00	258
60.00	15715	118.00	4853	175.00	80808	276.00	165
61.00	82680	119.00	5675	176.00	1005888	280.00	115
62.00	83168	120.00	229	177.00	66536	281.00	268
63.00	60784	121.00	207	178.00	1770	285.00	328
64.00	3993	122.00	25	179.00	278	291.00	147
65.00	1230	123.00	252	181.00	216	292.00	137
66.00	184	125.00	426	183.00	79	294.00	91
67.00	4458	126.00	825	185.00	129	295.00	65
68.00	151232	127.00	348	189.00	392	296.00	54
69.00	152128	128.00	3710	196.00	177	302.00	63
70.00	12823	129.00	2085	198.00	107	305.00	136
71.00	169	130.00	4555	199.00	125	306.00	98
72.00	7192	131.00	1860	200.00	235	309.00	56
73.00	58904	132.00	412	202.00	293	313.00	94

Date : 17-JAN-2008 12:25

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5011706.d

Spectrum: Avg. Scans 98-100 (3.79), Background Scan 88

Location of Maximum: 95.00

Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	242944	134.00	649	205.00	55	315.00	150
75.00	782080	135.00	1108	207.00	174	322.00	130
76.00	64624	136.00	23	210.00	149	323.00	264
77.00	8273	137.00	1749	211.00	125	325.00	73
78.00	4938	138.00	403	212.00	54	327.00	159
79.00	23536	139.00	668	213.00	58	328.00	216
80.00	6718	140.00	1014	215.00	175	330.00	128
81.00	26112	141.00	12285	217.00	274	332.00	67
82.00	4321	142.00	1543	219.00	189	333.00	50
83.00	17	143.00	11420	221.00	248	336.00	122
86.00	1489	144.00	430	222.00	204	339.00	140
87.00	51120	145.00	939	223.00	111	340.00	57
88.00	51832	146.00	2139	226.00	165	341.00	85
89.00	914	147.00	473	227.00	292	344.00	66
90.00	202	148.00	3205	228.00	84	346.00	120
91.00	4744	149.00	379	230.00	70	349.00	170
92.00	37784	150.00	1494	231.00	60		
93.00	60088	151.00	245	233.00	179		

Report Date: 30-Jan-2008 09:57

Air Toxics Ltd.

Data file : /chem/msd5.i/5-30jan.b/5013001.d
 Lab Smp Id: Client Smp ID: BFB
 Inj Date : 30-JAN-2008 10:04
 Operator : cb Inst ID: msd5.i
 Smp Info : BFB Tune Check
 Misc Info : 2uL #1476-191 50 ng
 Comment :
 Method : /var/chem/msd5.i/5-30jan.b/bfb30.m
 Meth Date : 30-Jan-2008 09:54 Quant Type: ESTD
 Cal Date : Cal File:
 Als bottle: 1 QC Sample: BFB
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: all.sub
 Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

CONCENTRATIONS

ON-COL FINAL

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

1 bfb

CAS #: 460-00-4

3.789	3.900	-0.111	95	1026816		100.00- 100.00	100.00
3.789	3.900	-0.111	50	266304		15.00- 40.00	25.93
3.789	3.900	-0.111	75	481216		30.00- 60.00	46.86
3.789	3.900	-0.111	96	64760		5.00- 9.00	6.31
3.789	3.900	-0.111	173	7201		0.00- 2.00	0.95
3.789	3.900	-0.111	174	760640		50.00- 100.00	74.08
3.789	3.900	-0.111	175	56896		5.00- 9.00	7.48
3.789	3.900	-0.111	176	739200		95.00- 101.00	97.18
3.789	3.900	-0.111	177	51960		5.00- 9.00	7.03

Date : 30-JAN-2008 10:04

Client ID: BFB

Instrument: msd5.i

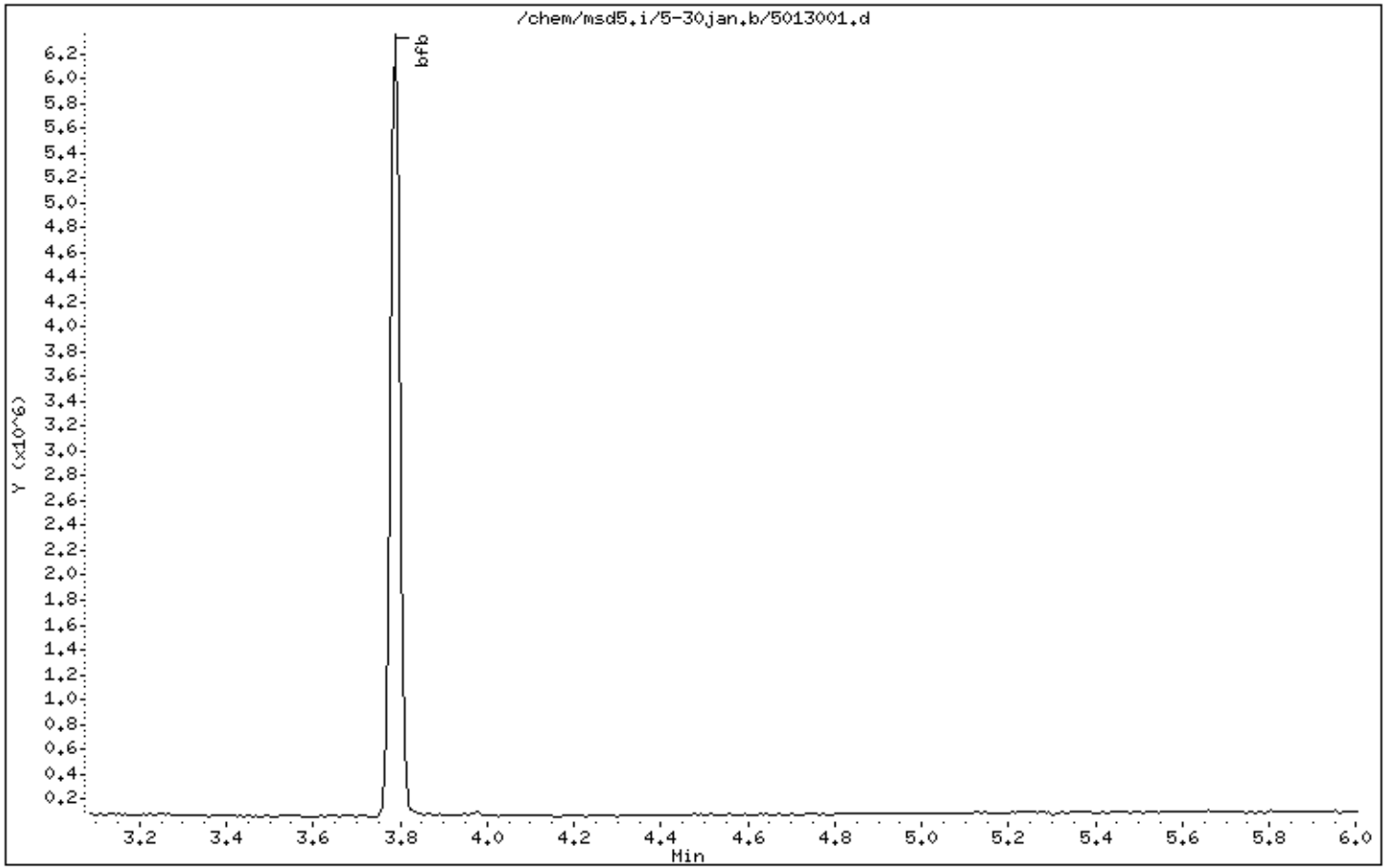
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00



Date : 30-JAN-2008 10:04

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

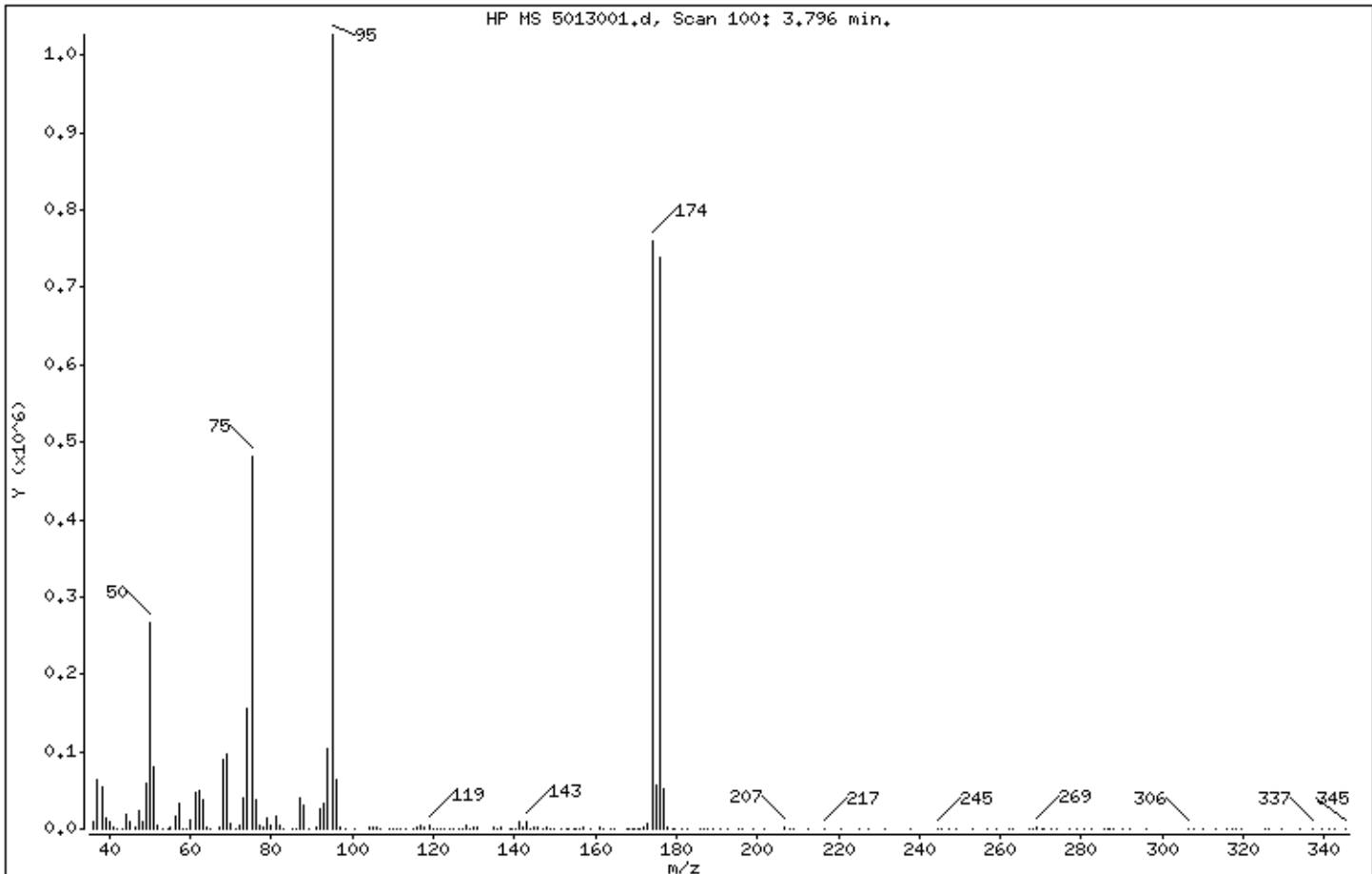
Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	25.93
75	30.00 - 60.00% of mass 95	46.86
96	5.00 - 9.00% of mass 95	6.31
173	Less than 2.00% of mass 174	0.70 (0.95)
174	50.00 - 100.00% of mass 95	74.08
175	5.00 - 9.00% of mass 174	5.54 (7.48)
176	95.00 - 101.00% of mass 174	71.99 (97.18)
177	5.00 - 9.00% of mass 176	5.06 (7.03)

Date : 30-JAN-2008 10:04

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5013001.d

Spectrum: HP MS 5013001.d, Scan 100: 3.796 min.

Location of Maximum: 95.10

Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36,10	9388	88,00	30088	147,90	1646	231,70	265
37,10	64024	89,10	164	148,80	1032	238,00	196
38,10	54736	90,90	2299	150,00	1060	244,70	466
39,10	14088	92,10	26800	151,70	288	245,40	230
40,00	9067	93,10	34224	152,80	721	247,30	166
41,00	1225	94,00	104040	153,30	371	248,90	288
42,00	1120	95,10	1026816	154,60	1033	253,10	258
43,20	477	96,10	64760	155,00	808	256,90	225
44,10	19168	97,10	2095	156,10	356	258,90	352
45,10	10001	98,40	605	156,80	2128	262,40	337
46,20	1720	100,40	243	159,00	1119	262,90	161
47,10	22472	104,10	3110	161,00	1217	267,40	165
48,10	8265	104,90	1188	162,10	203	268,20	298
49,10	58168	105,90	3074	164,00	360	269,20	1208
50,10	266304	106,80	1094	164,90	566	270,20	258
51,10	79792	109,10	183	167,70	396	271,00	239
52,00	4449	110,00	582	168,40	311	272,50	340
53,10	434	111,00	835	169,00	419	273,90	197
54,40	169	112,00	232	169,80	766	276,90	456
55,10	2182	113,00	705	170,40	949	278,70	182
56,10	16864	115,20	349	171,10	921	280,80	184
57,10	33224	115,90	1783	171,90	1885	282,70	156
58,00	1116	117,00	3642	173,00	7201	285,80	233
59,20	219	117,90	2086	174,00	760640	286,40	243
60,10	10792	119,00	4042	175,00	56896	286,90	185
61,10	47960	120,00	163	176,00	739200	288,10	380
62,10	50632	120,80	299	177,00	51960	290,00	419
63,10	38568	121,90	296	177,90	2275	292,20	213
64,00	3484	122,80	351	179,10	313	296,20	154
65,00	605	124,00	473	179,80	248	306,60	414
67,10	2586	124,80	384	181,40	163	307,90	170
68,10	88888	126,10	231	182,80	298	310,00	162
69,10	97376	127,10	890	185,80	264	313,40	297
70,00	6733	127,90	3732	186,70	163	316,00	327
71,00	453	129,00	1136	187,90	271	317,20	150

Date : 30-JAN-2008 10:04

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: cb

Column phase:

Column diameter: 2.00

Data File: 5013001.d

Spectrum: HP MS 5013001.d, Scan 100: 3.796 min.

Location of Maximum: 95.10

Number of points: 196

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	4272	129.90	3193	189.20	213	318.30	256
73.00	40728	130.90	2150	191.10	196	319.50	361
74.10	155776	134.90	1670	192.90	268	325.50	161
75.10	481216	136.00	223	195.60	155	326.50	312
76.10	38544	136.90	1340	196.20	338	329.70	243
77.00	3881	138.80	374	198.90	204	334.00	231
78.00	2630	139.50	853	201.60	399	337.00	435
79.00	14443	140.10	1089	206.90	2007	339.30	188
80.00	5019	141.00	8927	208.10	277	341.10	153
81.00	16291	141.90	1287	209.10	197	342.80	262
81.90	3582	142.90	10577	212.50	383	345.20	246
83.00	603	144.00	634	216.70	435		
85.10	346	144.90	1321	220.60	157		
86.10	544	145.80	1887	225.20	168		
87.00	40104	146.90	302	227.50	270		

Shipping/ Receiving Documents



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

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

COMPANY: _____ GEI Consultants, Inc.
ATTENTION: _____ Ms. Sarah Aldridge
FAX #: _____ 860-368-5307
FROM: _____ Sample Receiving
Workorder #: _____ 0801406
of pages (Including Cover): _____ 1

2/7/2008

Thank you for selecting Air Toxics Ltd. We have received your samples and have found 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.

The following discrepancy has been observed:

The Chain of Custody (COC) was not completed properly. Please note for future reference that the COC must be signed and dated in order to properly relinquish or receive samples.

Your prompt response is appreciated.



AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0801406

Client

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

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 02/06/08

Date Completed: 2/5/08

Date Received: 1/23/08

PO#: NR

Project#: 061140-8-1703 Bay Shore OU1 Southern
cell Air Monitori

Total \$: \$ 624.00

Logged By: BS

Sales Rep: ANS

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	UW AMS5	Modified TO-15	1/23/2008	8.0 "Hg	\$225.00
02A	DW AMS3	Modified TO-15	1/23/2008	5.5 "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 54020					\$100.00
Blue Body Flow Controller (2) @ \$35.00 each., Shipment 54020					\$70.00
Fuel Surcharge (2) @ \$2.00 each.					\$4.00

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

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

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

Sample Discrepancy Report

Identification

Initiated By: B. Stephens

Date: 1/24/08

Discrepancy Type: I. II. III.
(circle all that apply)

Workorder(s) affected: 0801406

Sample(s) affected: A11

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration Not Required:

- COC was not filled out in Ink.
- Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- Flow controller used - canister samples received at ambient or under pressure.
- No brass cap on canister.
- VOA vial for RSK-175 analysis received with headspace bubble <5mm.
- Sample date error/missing on COC but noted on sample tag (circle one).

Narration Required:

- COC improperly relinquished / received.
- Sample tags / can numbers do not match the COC.
- Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- Custody Seal on the outside of the container was broken / improperly placed (circle one).
- Other (describe below).

Describe the Discrepancy: _____

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of Initiation

- COC was not received with samples.
- Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- Number of samples on the COC does not match the number of samples that were received.
- Samples were received expired.
- Sampling date / time (sulfur only) is not documented for some / any samples (circle one).
- Sample received with significant (pooling) volume of H₂O in the Tedlar Bag.
- Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- Samples for RSK-175 CO₂ analysis received preserved with HCl.
- Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- Canister was at ambient pressure at time of pressurization and (check all that apply): canister failed leak check on two manifolds, canister valve was open, brass nut was loose. Sample can / cannot be analyzed (circle one).
- Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- Canister sample received at >15"Hg (not identified as a Trip/Field Blank).
- Trip Blank received at low vacuum (< 25"Hg).
- Tedlar Bag for Sulfur analysis has metal fitting.
- Incorrect sampling media / container for analysis requested.
- Sample was received at ≥ 10°C.
- Other (describe below)

Initials: _____
(if not the original initiator)

Date: _____

CSR Notified
(see section below)

Describe the Discrepancy: _____

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

DATA REVIEW CHECKLIST

Work Order #:

0801406

A R T M Q

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

LUMEN validation report present and initialed

CIRCLE (YES) / NO

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

- Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
- Correct amount of sample analyzed (i.e. sample not over-diluted)
- Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
- TICs resemble reference spectra
- TICs between duplicate samples are consistent
- Checked samples for trends (i.e. Influent > Effluent, Landfill or Ambient etc)
- Special units for all samples in the final report are correctly calculated
- Manually entered results checked (i.e. special CCV compounds)
- TPH/NMOC (verify calculations and correct reference compound used)
- Chain of Custody scanned correctly
- Verify sample id's vs. chain of custody
- Samples pressurized w/ appropriate gas (N₂ or He) Tedlar Bag only
- Final pressure consistent with canister size (6L vs. 1L)
- Verify receipt pressures against logbook and Target
- Verify canister ID #'s
- Extra printed copies are provided per client profile
- Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
- Client LUMEN report reviewed for accuracy and completeness

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

A/R: Double in CCV

M/Q:

A (Analytical Review/Date) 1/30/08 R/T (Reporting Review/Date) R: 2/5/08 M (Management Review/Date) 2/5/08 Q (QA Review/Date)

T: _____

Not Applicable