



***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 #: 0805029

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Comments:

Completed by:

**Kara McKiernan**

(Signature)

Kara McKiernan / Document Control

( Print Name & Title)

5/16/08

(Date)



AN ENVIRONMENTAL ANALYTICAL LABORATORY

**WORK ORDER #: 0805029**

Work Order Summary

<b>CLIENT:</b>	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	<b>BILL TO:</b>	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
<b>PHONE:</b>	631-760-9300 x 12	<b>P.O. #</b>	NR
<b>FAX:</b>		<b>PROJECT #</b>	061140-8-1703 BayShore OU1 Southern
<b>DATE RECEIVED:</b>	05/01/2008	<b>CONTACT:</b>	cell Air Monitorin Bryanna Langley
<b>DATE COMPLETED:</b>	05/14/2008		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	AMS 1 DW	Modified TO-15	6.5 "Hg	5 psi
02A	AMS 7 UW	Modified TO-15	7.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 05/14/08

Laboratory Director

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004  
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

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

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

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**LABORATORY NARRATIVE**  
**Modified TO-15**  
**GEI Consultants, Inc.**  
**Workorder# 0805029**

Two 6 Liter Summa Canister samples were received on May 01, 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**

There were no receiving discrepancies.

**Analytical Notes**

All Quality Control Limit failures and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

**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	Sample Extract		Sample Condition
					Holding Time (Days)	Date Analyzed	Holding Time (Days)	
AMS 1 DW	0805029-01A	4/30/2008	5/ 1/2008	NA	9	5/ 9/2008	NA	Good
AMS 7 UW	0805029-02A	4/30/2008	5/ 1/2008	NA	9	5/ 9/2008	NA	Good
Lab Blank	0805029-03A	NA	NA	NA	NA	5/ 8/2008	NA	Good
CCV	0805029-04A	NA	NA	NA	NA	5/ 8/2008	NA	Good
LCS	0805029-05A	NA	NA	NA	NA	5/ 8/2008	NA	Good

## **Sample Results and Raw Data**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

**Client Sample ID: AMS 1 DW**

**Lab ID#: 0805029-01A**

No Detections Were Found.





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 DW

Lab ID#: 0805029-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050827	Date of Collection: 4/30/08
Dil. Factor:	1.71	Date of Analysis: 5/9/08 03:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	Not Detected	3.7	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 1 DW

Lab ID#: 0805029-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050827	Date of Collection:	4/30/08
Dil. Factor:	1.71	Date of Analysis:	5/9/08 03:56 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	Not Detected	8.1	Not Detected
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	Not Detected	2.5	Not Detected
Tetrahydrofuran	0.86	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected	3.1	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	106	70-130

Report Date: 14-May-2008 14:40

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050827.d  
 Lab Smp Id: 0805029-01A  
 Inj Date : 09-MAY-2008 03:56  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 500mL #25237  
 Misc Info : 6.5"Hg -> 5psi  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 14-May-2008 14:35 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1  
 Dil Factor: 1.71000  
 Integrator: HP RTE Compound Sublist: TO15N.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 39	Bromochloromethane					CAS #: 74-97-5		
13.605	13.605	(1.000)	130	232770	10.0000	80.00- 120.00	100.00	
13.605	13.605	(1.000)	128	189463		0.00- 30.00	81.39	
13.605	13.605	(1.000)	49	426334		0.00- 30.00	183.16	
-----								
* 52	1,4-Difluorobenzene					CAS #: 540-36-3		
14.859	14.860	(1.000)	114	692443	10.0000	80.00- 120.00	100.00	
14.859	14.860	(1.000)	88	142378		0.00- 30.00	20.56	
-----								
* 68	Chlorobenzene-d5					CAS #: 3114-55-4		
19.117	19.093	(1.000)	117	848605	10.0000	80.00- 120.00	100.00	
19.117	19.093	(1.000)	82	567333		0.00- 30.00	66.85	
-----								
\$ 47	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365	(1.056)	65	504146	9.73000	9.730 80.00- 120.00	100.00	
14.365	14.365	(1.056)	67	228712		0.00- 30.00	45.37	
-----								
\$ 59	Toluene-d8					CAS #: 2037-26-5		
17.038	17.039	(1.147)	98	695534	9.49712	9.497 80.00- 120.00	100.00	
17.038	17.039	(1.147)	70	117204		0.00- 30.00	16.85	

CONCENTRATIONS

ON-COL FINAL

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

\$ 59 Toluene-d8 (continued)

17.038 17.039 (1.147) 100 463504 37.60- 97.60 66.64

\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574 20.575 (1.076) 174 676510 10.6538 10.654 80.00- 120.00 100.00

20.574 20.575 (1.076) 95 878931 101.48- 161.48 129.92

20.574 20.575 (1.076) 176 640049 66.96- 126.96 94.61

Report Date: 14-May-2008 14:40

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARYInstrument ID: msdz.i  
Lab File ID: z050827.d  
Lab Smp Id: 0805029-01ACalibration Date: 08-MAY-2008  
Calibration Time: 13:18

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 6.5"Hg -&gt; 5psi

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	232770	-23.18
52 1,4-Difluorobenze	1056800	634080	1479520	692443	-34.48
68 Chlorobenzene-d5	1305891	783535	1828247	848605	-35.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.12	0.12

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: 09May2008  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0805029-01A  
Level: LOW Operator: ACT  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: SpectraENSR.spk Quant Type: ISTD  
Sublist File: TO15N.sub  
Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
Misc Info: 6.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 47 1,2-Dichloroethane	10.000	9.730	97.30	70-130
\$ 59 Toluene-d8	10.000	9.497	94.97	70-130
\$ 77 Bromofluorobenzene	10.000	10.654	106.54	70-130

Date : 09-MAY-2008 03:56

Client ID:

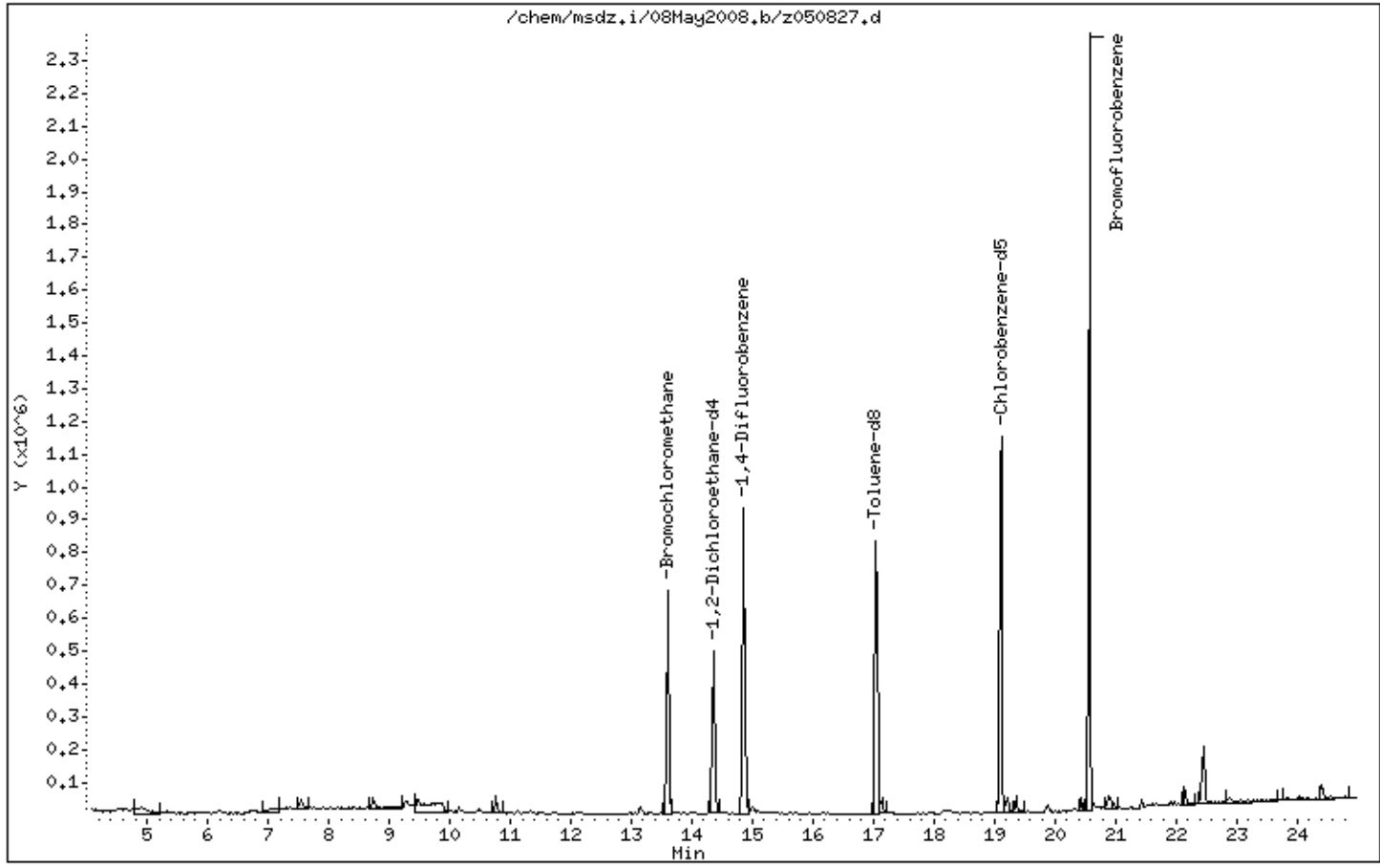
Instrument: msdz,i

Sample Info: 500mL #25237

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32





AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

**Client Sample ID: AMS 7 UW**

**Lab ID#: 0805029-02A**

<b>Compound</b>	<b>Rpt. Limit (ppbv)</b>	<b>Amount (ppbv)</b>	<b>Rpt. Limit (uG/m3)</b>	<b>Amount (uG/m3)</b>
Acetone	3.5	4.9	8.3	12
Ethanol	3.5	3.6	6.6	6.9





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 7 UW

Lab ID#: 0805029-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050828	Date of Collection:	4/30/08
Dil. Factor:	1.75	Date of Analysis:	5/9/08 04:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
Benzene	0.88	Not Detected	2.8	Not Detected
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Toluene	0.88	Not Detected	3.3	Not Detected
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	Not Detected	3.8	Not Detected
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Hexane	0.88	Not Detected	3.1	Not Detected
Cyclohexane	0.88	Not Detected	3.0	Not Detected



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS 7 UW

Lab ID#: 0805029-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050828	Date of Collection: 4/30/08
Dil. Factor:	1.75	Date of Analysis: 5/9/08 04:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	4.9	8.3	12
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	3.6	6.6	6.9
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 14-May-2008 14:41

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050828.d  
 Lab Smp Id: 0805029-02A  
 Inj Date : 09-MAY-2008 04:41  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 500mL #33913  
 Misc Info : 7.0"Hg -> 5psi  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 14-May-2008 14:35 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1  
 Dil Factor: 1.75000  
 Integrator: HP RTE Compound Sublist: TO15N.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL		TARGET RANGE		RATIO	
RT	EXP RT (REL RT)	MASS	RESPONSE	( PPBV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====		=====	
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605 (1.000)	130	214911	10.0000		80.00-	120.00	100.00	
13.605	13.605 (1.000)	128	169088			0.00-	30.00	78.68	
13.605	13.605 (1.000)	49	384411			0.00-	30.00	178.87	
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.860 (1.000)	114	651978	10.0000		80.00-	120.00	100.00	
14.859	14.860 (1.000)	88	132126			0.00-	30.00	20.27	
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.117	19.093 (1.000)	117	876763	10.0000		80.00-	120.00	100.00	
19.117	19.093 (1.000)	82	589296			0.00-	30.00	67.21	
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365 (1.056)	65	458319	9.58060	9.581	80.00-	120.00	100.00	
14.365	14.365 (1.056)	67	219050			0.00-	30.00	47.79	
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.039 (1.147)	98	694041	10.0649	10.065	80.00-	120.00	100.00	
17.038	17.039 (1.147)	70	119452			0.00-	30.00	17.21	

CONCENTRATIONS

ON-COL FINAL

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

\$ 59 Toluene-d8 (continued)

17.038 17.039 (1.147) 100 463369 37.60- 97.60 66.76

\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574 20.575 (1.076) 174 681450 10.3870 10.387 80.00- 120.00 100.00

20.574 20.575 (1.076) 95 906458 101.48- 161.48 133.02

20.574 20.575 (1.076) 176 653614 66.96- 126.96 95.92

14 Ethanol

CAS #: 64-17-5

10.146 10.146 (0.746) 45 28709 2.08151 3.643 80.00- 120.00 100.00

10.146 10.146 (0.746) 43 13515 0.00- 30.00 47.07

10.166 10.146 (0.747) 46 10282 0.00- 30.00 35.82

20 Acetone

CAS #: 67-64-1

10.767 10.747 (0.791) 58 55956 2.81986 4.935 80.00- 120.00 100.00

10.767 10.747 (0.791) 43 209703 0.00- 30.00 374.76

Report Date: 14-May-2008 14:41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARYInstrument ID: msdz.i  
Lab File ID: z050828.d  
Lab Smp Id: 0805029-02ACalibration Date: 08-MAY-2008  
Calibration Time: 13:18

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 7.0"Hg -&gt; 5psi

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	214911	-29.08
52 1,4-Difluorobenze	1056800	634080	1479520	651978	-38.31
68 Chlorobenzene-d5	1305891	783535	1828247	876763	-32.86

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.12	0.12

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: 09May2008  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: 0805029-02A  
Level: LOW Operator: ACT  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: SpectraENSR.spk Quant Type: ISTD  
Sublist File: TO15N.sub  
Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
Misc Info: 7.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 47 1,2-Dichloroethane	10.000	9.581	95.81	70-130
\$ 59 Toluene-d8	10.000	10.065	100.65	70-130
\$ 77 Bromofluorobenzene	10.000	10.387	103.87	70-130

Date : 09-MAY-2008 04:41

Client ID:

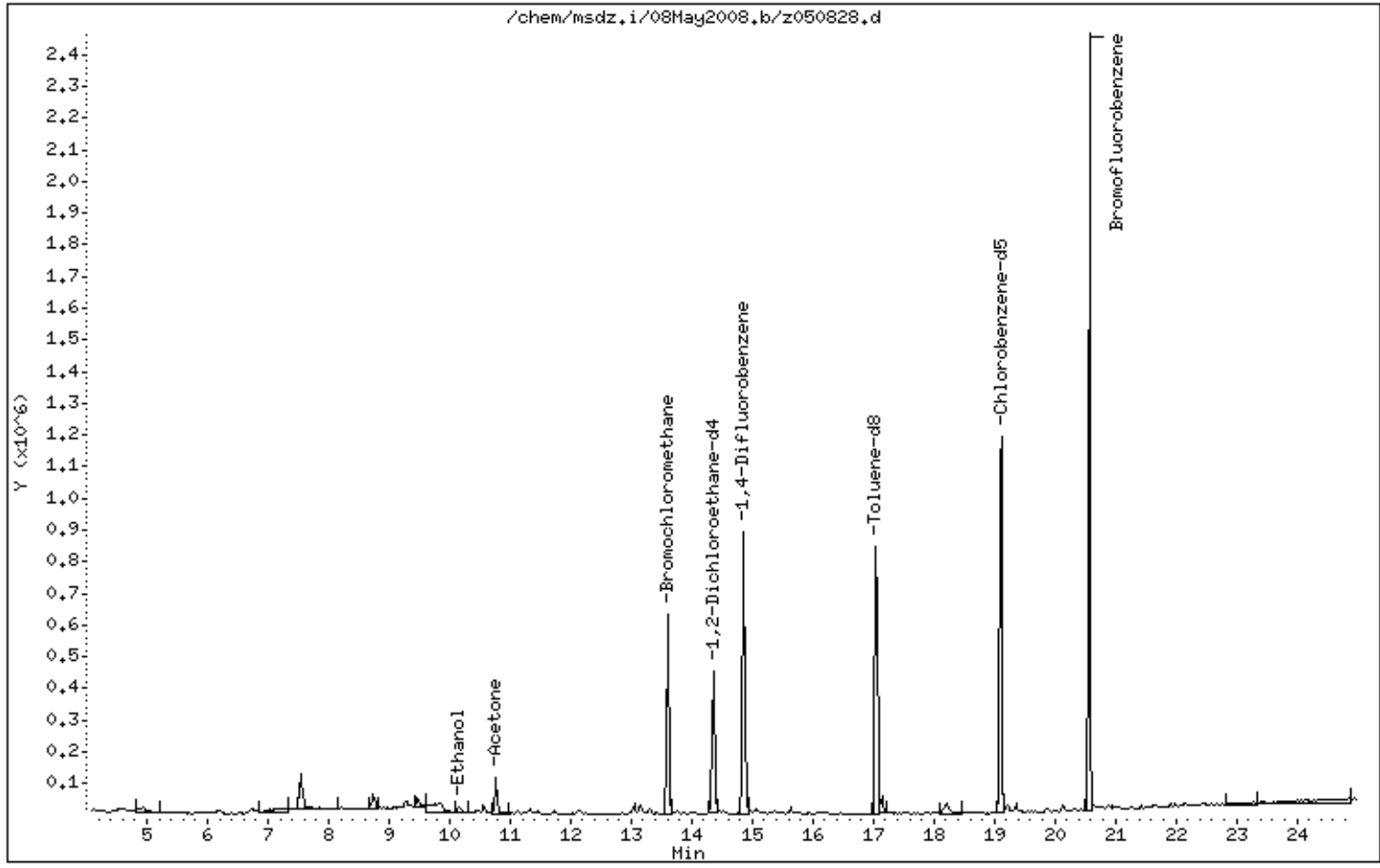
Instrument: msdz,i

Sample Info: 500mL #33913

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Date : 09-MAY-2008 04:41

Client ID:

Instrument: msdz.i

Sample Info: 500mL #33913

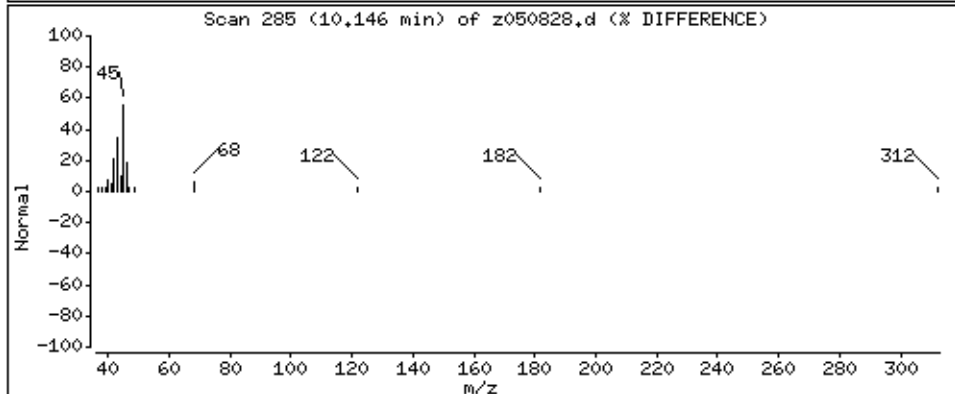
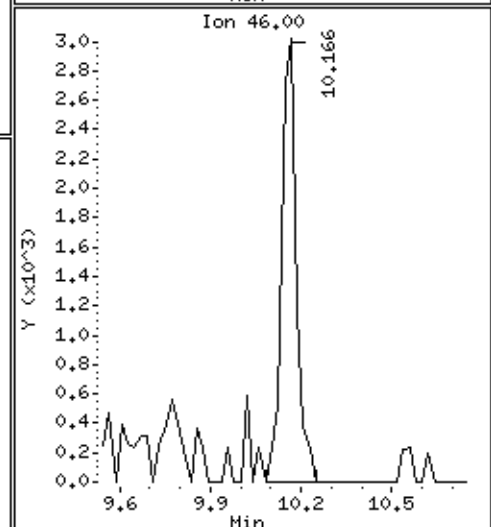
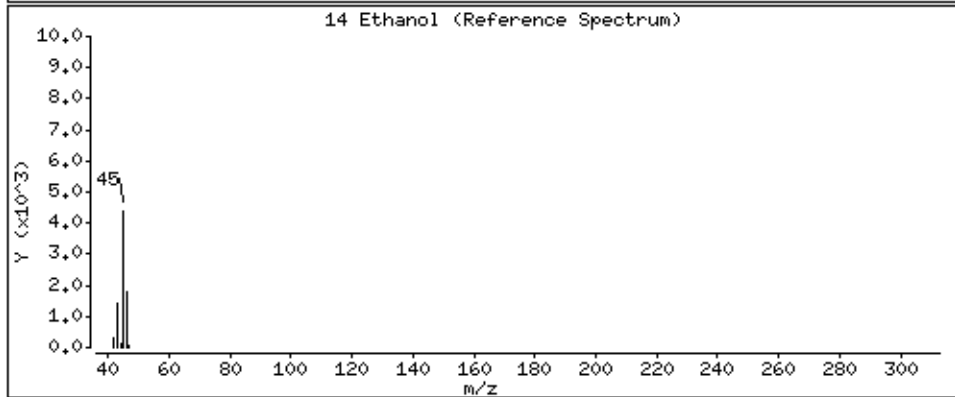
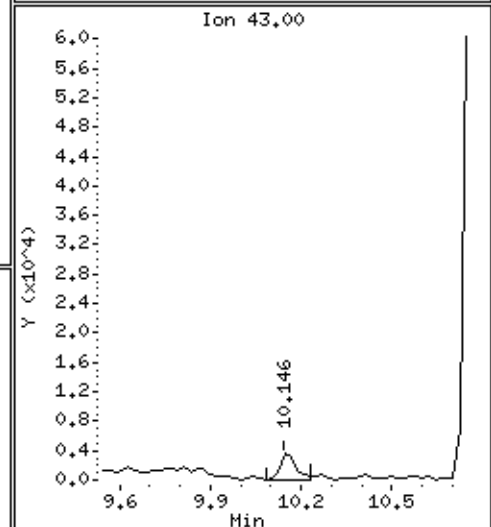
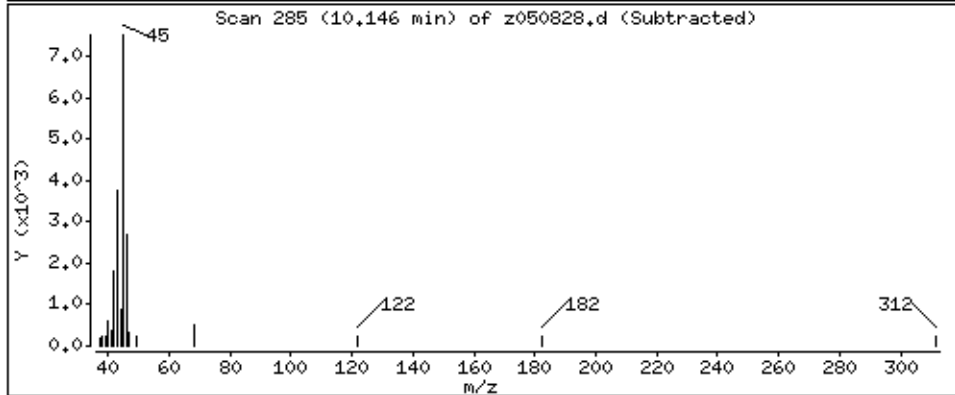
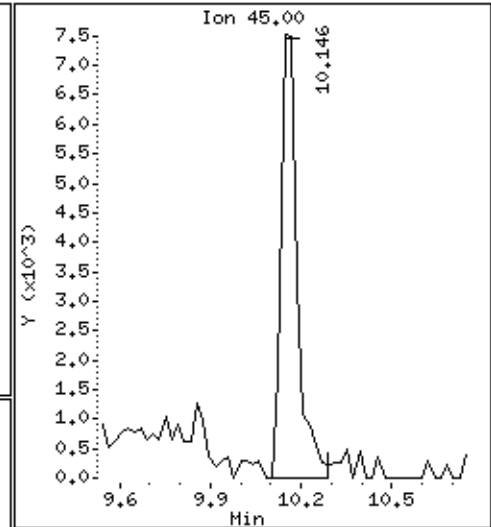
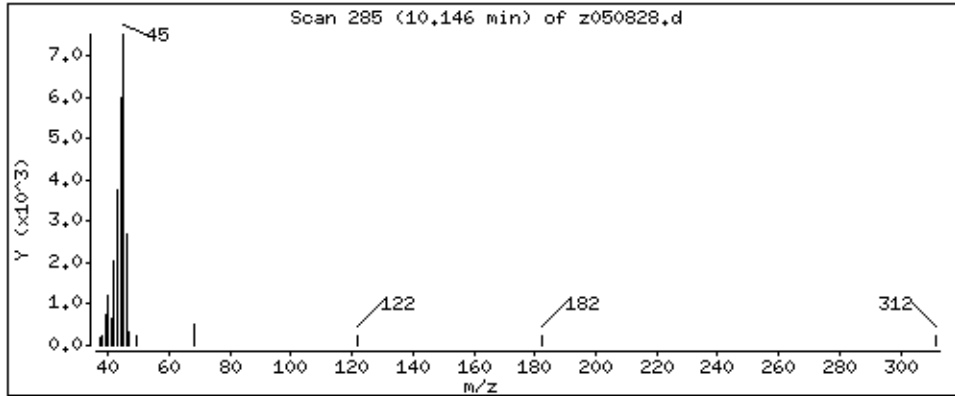
Operator: ACT

Column phase: RTX-624

Column diameter: 0.32

14 Ethanol

Concentration: 3.643 PPBV





Date : 09-MAY-2008 04:41

Client ID:

Instrument: msdz.i

Sample Info: 500mL #33913

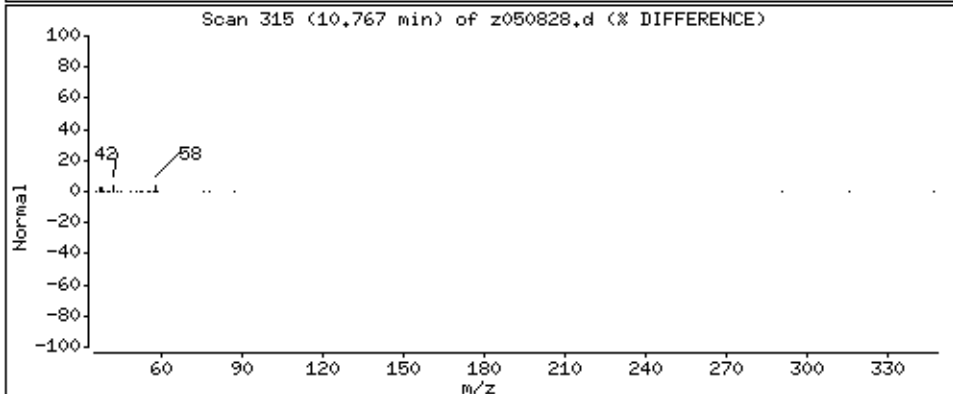
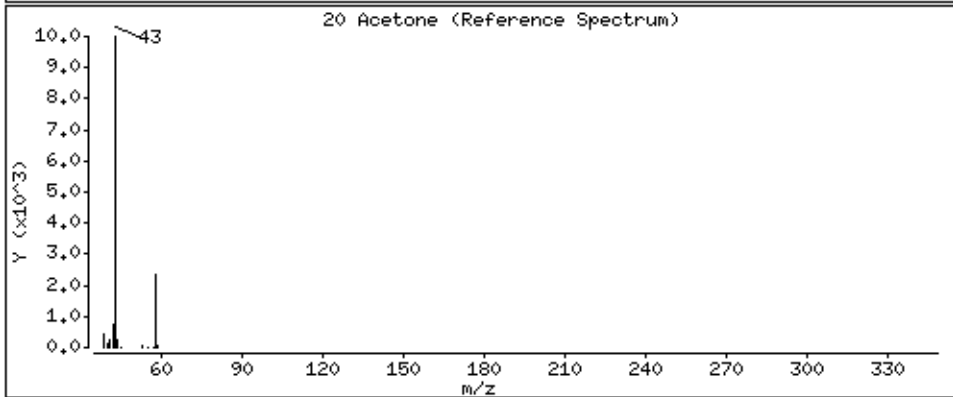
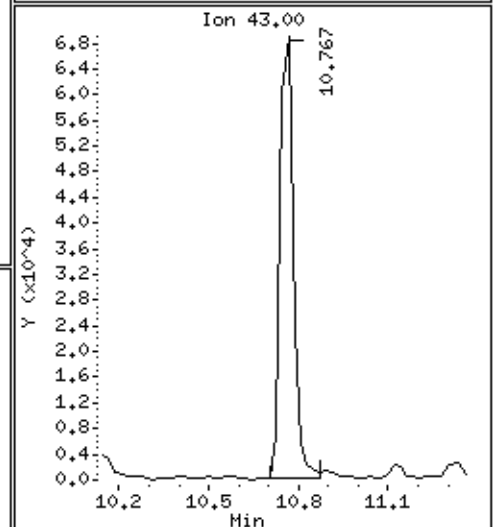
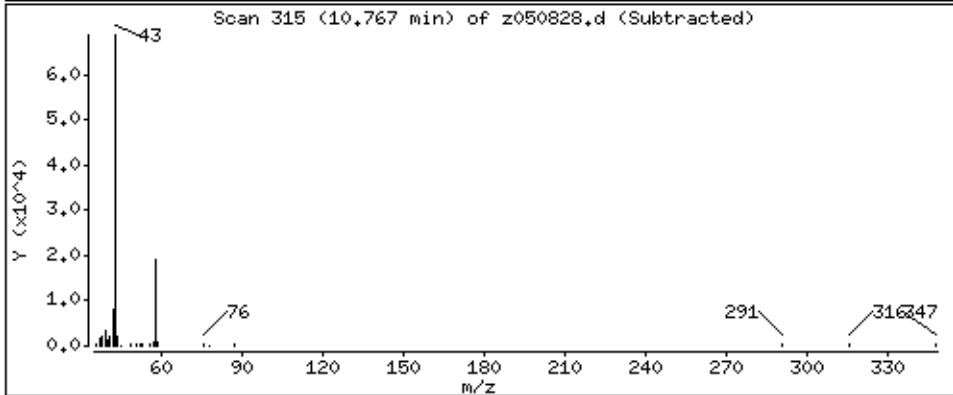
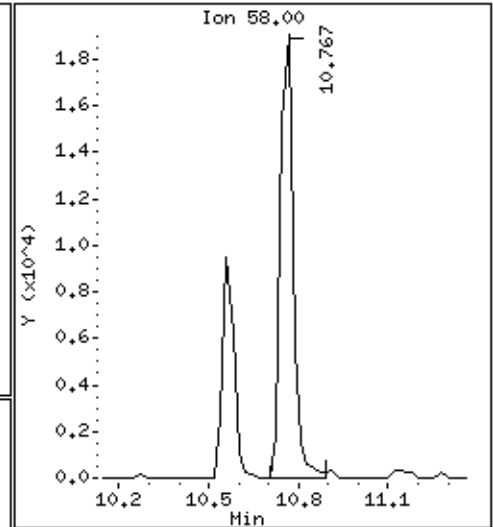
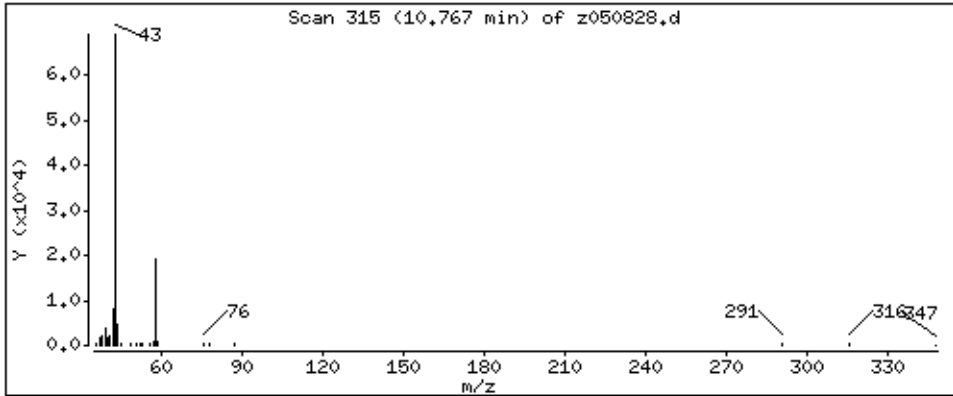
Operator: ACT

Column phase: RTX-624

Column diameter: 0.32

20 Acetone

Concentration: 4.935 PPBV



## **QC Results and Raw Data**



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805029-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	<b>z050806c</b>	Date of Collection: NA
Dil. Factor:	<b>1.00</b>	Date of Analysis: 5/8/08 03:07 PM

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



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805029-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050806c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 03:07 PM

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	97	70-130

Report Date: 14-May-2008 14:38

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050806c.d  
 Lab Smp Id: Lab Blank Client Smp ID: Lab Blank  
 Inj Date : 08-MAY-2008 15:07  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 500ml #30843  
 Misc Info : Humid  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 14-May-2008 14:35 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: TO15N.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS									
		ON-COL		FINAL		TARGET RANGE		RATIO	
RT	EXP RT (REL RT)	MASS	RESPONSE	( PPBV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====		=====	
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605 (1.000)	130	237841	10.0000		80.00-	120.00	100.00	
13.605	13.605 (1.000)	128	189191			0.00-	30.00	79.55	
13.605	13.605 (1.000)	49	417314			0.00-	30.00	175.46	
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.860 (1.000)	114	790242	10.0000		80.00-	120.00	100.00	
14.859	14.860 (1.000)	88	169585			0.00-	30.00	21.46	
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.117	19.093 (1.000)	117	959591	10.0000		80.00-	120.00	100.00	
19.093	19.093 (1.000)	82	632712			0.00-	30.00	65.94	
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365 (1.056)	65	520303	9.82773	9.828	80.00-	120.00	100.00	
14.365	14.365 (1.056)	67	238675			0.00-	30.00	45.87	
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.039 (1.147)	98	764572	9.14778	9.148	80.00-	120.00	100.00	
17.038	17.039 (1.147)	70	129757			0.00-	30.00	16.97	

CONCENTRATIONS

ON-COL FINAL

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

\$ 59 Toluene-d8 (continued)

17.038 17.039 (1.147) 100 520036 37.60- 97.60 68.02

\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574 20.575 (1.076) 174 697918 9.71977 9.720 80.00- 120.00 100.00

20.574 20.575 (1.076) 95 930490 101.48- 161.48 133.32

20.574 20.575 (1.076) 176 661341 66.96- 126.96 94.76

Report Date: 14-May-2008 14:38

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i  
 Lab File ID: z050806c.d  
 Lab Smp Id: Lab Blank  
 Analysis Type: VOA  
 Quant Type: ISTD  
 Operator: sjr  
 Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
 Misc Info: Humid

Calibration Date: 08-MAY-2008  
 Calibration Time: 13:18  
 Client Smp ID: Lab Blank  
 Level: LOW  
 Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	237841	-21.51
52 1,4-Difluorobenze	1056800	634080	1479520	790242	-25.22
68 Chlorobenzene-d5	1305891	783535	1828247	959591	-26.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.12	0.13

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: 08May2008  
Sample Matrix: GAS Fraction: VOA  
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank  
Level: LOW Operator: sjr  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: SpectraENSR.spk Quant Type: ISTD  
Sublist File: TO15N.sub  
Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 47 1,2-Dichloroethane	10.000	9.828	98.28	70-130
\$ 59 Toluene-d8	10.000	9.148	91.48	70-130
\$ 77 Bromofluorobenzene	10.000	9.720	97.20	70-130



Date : 08-MAY-2008 15:07

Client ID: Lab Blank

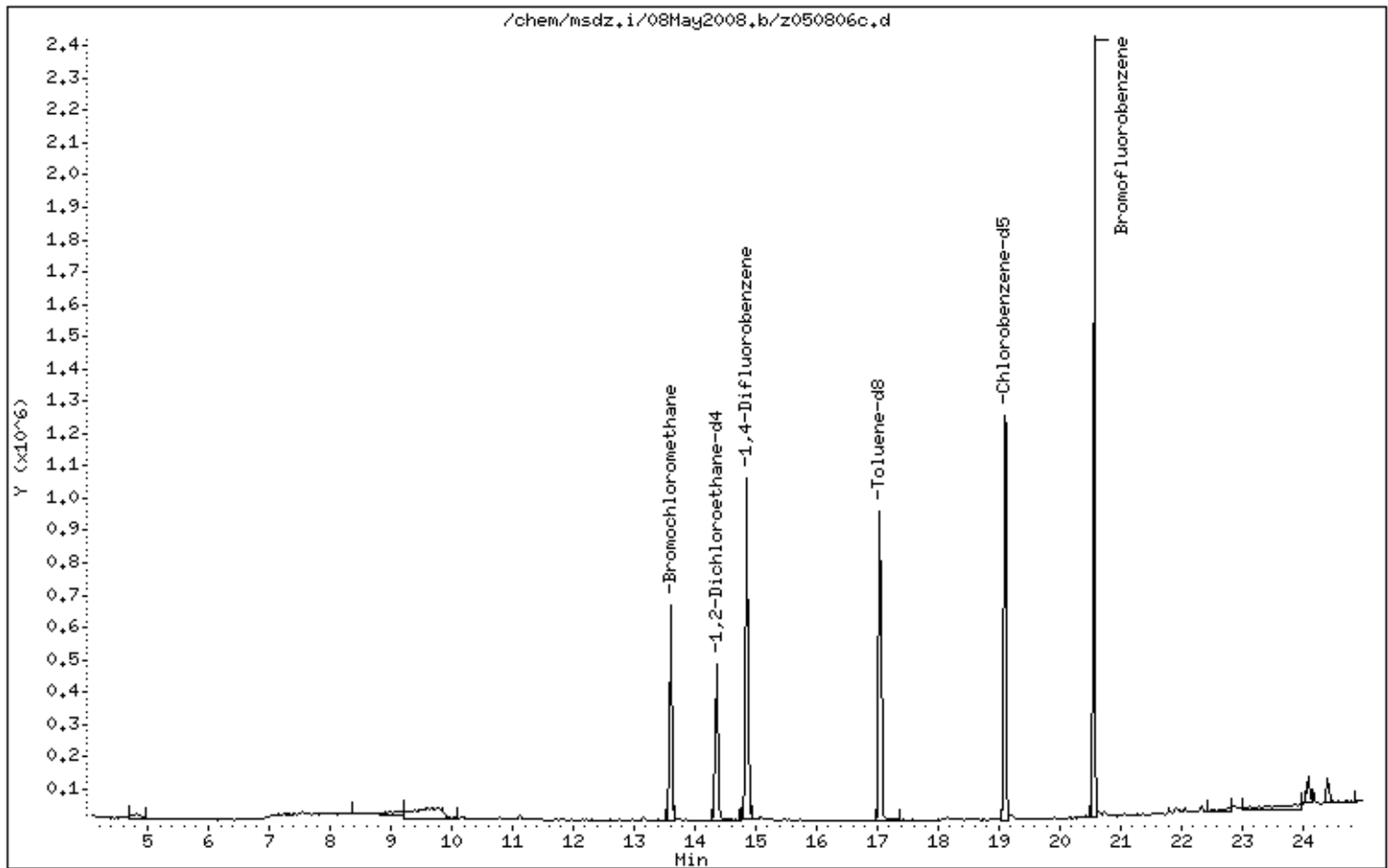
Instrument: msdz,i

Sample Info: 500ml #30843

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32



# LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED.

SDG No.: 0805029

CLIENT SAMPLE NO.	SURROGATE % RECOVERY							TOTAL OUT	
	1,2-Dichloroethane-d 4	#	Toluene-d8	#	4-Bromofluorobenze ne	#			#
01	AMS 1 DW	97		95		106			0
02	AMS 7 UW	96		101		104			0
03	Lab Blank	98		91		97			0
04	CCV	100		102		104			0
05	LCS	97		101		99			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: z050804.d  
 Instrument ID: msdz.i

SDG No: 0805029  
 Date Analyzed: 05/08/2008  
 Time Analyzed: 01:18 PM

	Chlorobenzene-d5			1,4-Difluorobenzene			Bromochloromethane		
	Area	#	RT	Area	#	RT	Area	#	RT
24-HOUR STD	1305891		19.09	1056800		14.86	303019		13.61
UPPER LIMIT	1828247		19.42	1479520		15.19	424227		13.94
LOWER LIMIT	783535		18.76	634080		14.53	181811		13.28
CLIENT SAMPLE NO									
01	AMS 1 DW	848605	19.12	692443	14.86	232770	13.6		
02	AMS 7 UW	876763	19.12	651978	14.86	214911	13.6		
03	Lab Blank	959591	19.12	790242	14.86	237841	13.6		
04	CCV	1305891	19.09	1056800	14.86	303019	13.61		
05	LCS	1207912	19.09	1002617	14.86	293082	13.6		
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 : 22-APR-2008 19:38  
 End Cal Date : 08-MAY-2008 10:02  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/msdz.i/08May2008.b/t1410422c.m  
 Cal Date : 09-May-2008 12:18 ejakob  
 Curve Type : Average

Calibration File Names:

Level 5: /chem/msdz.i/22Apr2008.b/z042225.d  
 Level 6: /chem/msdz.i/29Apr2008.b/z042904.d  
 Level 7: /chem/msdz.i/29Apr2008.b/z042905.d  
 Level 8: /chem/msdz.i/22Apr2008.b/z042218.d  
 Level 9: /chem/msdz.i/29Apr2008.b/z042906.d  
 Level 10: /chem/msdz.i/29Apr2008.b/z042907.d  
 Level 11: /chem/msdz.i/29Apr2008.b/z042908.d  
 Level 12: /chem/msdz.i/08May2008.b/z050802.d

Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	—	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	RRF	
	40.000	100.000						
	Level 11	Level 12						
181 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
183 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
184 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
185 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
1 Propylene	+++++	1.91287	2.14539	2.26716	1.98456	1.90068		
	1.72656	1.94375					1.98300	8.882
2 Freon 152A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Dichlorodifluoromethane/Fr12	10.73191	9.43099	7.75395	8.24034	7.30728	6.82041		
	5.99906	5.99982					7.78547	21.237

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 Cal Date : 09-May-2008 12:18 ejakob  
 Curve Type : Average

Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
4 Freon 114	5.24031	4.71605	4.17606	4.07311	3.62898	3.41314		
	2.94876	2.81293					3.87617	21.719
5 Chloromethane	3.51853	2.56678	2.34356	2.48606	2.25373	2.06212		
	1.83988	1.90370					2.37179	22.417
179 Butane	+++++	0.69631	0.58878	0.56226	0.48865	0.46118		
	0.39296	0.38978					0.51142	21.807
6 Vinyl Chloride	3.14510	2.90887	2.54845	2.48856	2.24221	1.98073		
	1.75008	1.66435					2.34104	22.721
8 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
7 1,3-Butadiene	2.62528	1.61438	1.77127	1.82139	1.57612	1.48545		
	1.26672	1.41212					1.69659	24.558
9 Bromomethane	2.95260	2.28266	1.86059	1.77510	1.65861	1.48099		
	1.36476	1.31960					1.83686	29.796
10 Chloroethane	1.56190	1.17778	1.12863	1.04786	0.96540	0.93856		
	0.84395	0.85056					1.06433	22.027
11 Isopentane	+++++	2.07643	1.90350	1.89264	1.59796	1.45836		
	1.26293	1.27704					1.63841	19.815
12 Vinyl Bromide	+++++	1.51603	1.34026	+++++	1.23319	1.18857		
	1.12849	+++++					1.28131	11.890

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 Cal Date : 09-May-2008 12:18 ejakob  
 Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	RRF	% RSD
	40.000 Level 11	100.000 Level 12						
13 Trichlorofluoromethane/Fr11	7.64235 3.50181	5.57762 3.54657	5.30141	4.91890	4.42664	4.09181	4.87589	27.734
14 Ethanol	+++++ 0.52471	0.86750 0.53349	0.74533	0.62772	0.57134	0.62232	0.64177	19.362
16 Acrolein	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++
15 1,1-Dichloroethene	1.70561 0.79927	1.25243 0.70250	1.11793	1.02726	0.95265	0.86982	1.05343	30.049 <-
17 Freon 113	4.05615 1.81856	3.22025 1.63875	2.96839	2.77314	2.44626	2.06478	2.62328	30.602 <-
18 Pentane	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Acetone	+++++ 0.73533	1.35675 0.66617	1.09756	0.93997	0.85244	0.81514	0.92334	25.655
19 Carbon Disulfide	5.42581 3.58816	4.95705 3.28927	4.66747	4.54242	4.14756	3.95065	4.32105	16.511
21 2-Propanol	+++++ 2.90844	3.83484 2.44313	3.61380	3.26518	2.92700	3.13516	3.16108	14.751
22 3-Chloroprene	+++++ 0.65861	0.80606 0.61067	0.88160	0.82817	0.79243	0.75273	0.76147	12.599

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 Cal Date : 09-May-2008 12:18 ejakob  
 Curve Type : Average

Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	RRF	% RSD
	40.000 Level 11	100.000 Level 12						
169 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
24 Acetonitrile	+++++	1.31535	1.24548	+++++	0.59280	0.61333	0.93463	36.380
25 Methylene Chloride	2.56920	1.54422	1.53066	1.39246	1.25876	1.20785	1.44591	34.293 <-
26 tert-butyl alcohol	+++++	4.88092	4.30011	4.08358	3.91046	3.66246	3.83654	19.372
27 MTBE	4.95775	5.82910	5.47794	5.21555	4.69295	3.82348	4.44562	28.056
28 trans-1,2-Dichloroethene	1.57916	1.38209	1.18242	1.16440	1.06762	1.01480	1.14408	21.176
29 Acrylonitrile	+++++	1.01608	1.12775	+++++	1.00324	1.06714	1.06017	4.833
30 Hexane	3.17988	3.39813	3.00155	2.89662	2.65613	2.53131	2.76678	15.428
31 1,1-Dichloroethane	3.88709	3.61928	3.55240	3.38623	3.07986	3.00367	3.21972	14.656

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Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	---	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	RRF	
	40.000	100.000						
	Level 11	Level 12						
32 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
33 Vinyl Acetate	+++++	3.21543	3.72583	3.63707	3.26032	3.51763		
	3.06408	2.64922					3.29565	11.286
34 Chlorprene	+++++	1.88578	1.81833	+++++	2.03725	2.03150		
	2.01499	+++++					1.95757	5.086
171 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
35 Ethyl-tert-butyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
36 cis-1,2-Dichloroethene	1.49018	1.30848	1.18078	1.12108	1.07212	1.01078		
	0.92730	0.83288					1.11795	18.824
37 2-Butanone	0.94205	0.99513	0.91875	0.94365	0.87405	0.85175		
	0.77577	0.69230					0.87418	11.383
175 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
38 Tetrahydrofuran	+++++	2.65388	2.27900	2.18489	1.98776	1.95799		
	1.76741	1.87176					2.10038	14.303
40 Chloroform	5.26539	4.37806	4.16181	3.92809	3.75173	3.57484		
	3.21403	3.00365					3.90970	18.248





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 Curve Type : Average

Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
53 Trichloroethene	0.81019	0.71219	0.61143	0.57663	0.56879	0.52037		
	0.47478	0.48401					0.59480	19.449
167 Methylcyclohexane	+++++	4.05769	3.63697	3.55664	3.41567	3.24371		
	2.89061	2.57936					3.34009	14.696
54 1,2-Dichloropropane	0.69281	0.66762	0.61032	0.58988	0.54706	0.51734		
	0.46659	0.47578					0.57093	14.729
55 1,4-Dioxane	0.60434	0.43289	0.41646	0.39609	0.37226	0.35540		
	0.33140	0.31418					0.40288	22.572
56 Bromodichloromethane	1.30892	1.23121	1.12616	1.11344	1.07123	1.03974		
	0.96321	1.00791					1.10773	10.400
57 cis-1,3-Dichloropropene	0.82562	0.86135	0.81211	0.82963	0.80563	0.78347		
	0.73040	0.73528					0.79794	5.752
58 4-Methyl-2-pentanone	1.19964	1.28502	1.30521	1.24802	1.19899	1.18675		
	1.08397	1.25183					1.21993	5.692
65 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
60 Toluene	2.14264	1.89277	1.65487	1.64099	1.51896	1.45807		
	1.35334	1.36023					1.62774	16.805
61 trans-1,3-Dichloropropene	0.85677	0.86521	0.82591	0.77348	0.74004	0.71761		
	0.66631	0.69896					0.76804	9.736

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Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
62 1,1,2-Trichloroethane	0.59993	0.58717	0.56217	0.52264	0.49724	0.46503		
	0.42794	0.41409					0.50953	13.886
63 Tetrachloroethene	0.78717	0.76692	0.76145	0.69492	0.66784	0.61212		
	0.55326	0.54556					0.67365	14.246
64 2-Hexanone	+++++	0.69637	0.66604	0.67822	0.64088	0.63522		
	0.55916	0.56693					0.63469	8.391
66 Dibromochloromethane	0.86906	0.87989	0.89780	0.84326	0.83788	0.78623		
	0.71861	0.76316					0.82449	7.588
67 1,2-Dibromoethane	1.06103	0.96542	0.95848	0.91908	0.86486	0.80591		
	0.71896	0.70211					0.87448	14.388
69 Chlorobenzene	1.93334	1.64281	1.57418	1.46829	1.35788	1.25311		
	1.11246	1.03785					1.42249	20.779
70 Ethyl Benzene	1.03092	0.91316	0.91460	0.84760	0.79441	0.73513		
	0.62753	0.58355					0.80586	18.883
180 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
174 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
71 m,p-Xylene	1.24812	1.19349	1.14571	1.10078	1.01372	0.93252		
	0.78872	0.73732					1.02005	18.361

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Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
72 o-Xylene	1.23960	1.18502	1.18673	1.08892	1.04336	0.93841		
	0.77333	0.70017					1.01944	19.560
73 Styrene	1.57615	1.81360	1.83463	1.75940	1.65110	1.49084		
	1.25302	1.14514					1.56548	16.356
75 Bromoform	0.76642	0.84374	0.97818	0.88515	0.90298	0.86882		
	0.74454	0.83615					0.85325	8.757
177 alpha-pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
76 Cumene	3.34890	3.54366	3.38063	3.14307	2.98537	2.73033		
	2.16674	1.61542					2.86427	23.307
74 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
79 1,1,2,2-Tetrachloroethane	2.05609	2.06028	1.95121	1.85331	1.74714	1.57546		
	1.32961	1.18285					1.71949	19.195
80 Propylbenzene	4.39791	4.36491	4.45984	4.17146	3.94838	3.66427		
	2.72638	1.94109					3.70928	24.609
176 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
82 4-Ethyltoluene	4.10702	4.25616	4.25173	3.94976	3.90175	3.51602		
	2.80455	2.16055					3.61844	20.982

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Compound	0.10000 Level 5	0.50000 Level 6	2.000 Level 7	5.000 Level 8	10.000 Level 9	20.000 Level 10	RRF	% RSD
	40.000 Level 11	100.000 Level 12						
78 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
172 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 1,3,5-Trimethylbenzene	3.39801 2.03608	3.31958 1.45217	3.29379	2.98286	2.89483	2.63226	2.75120	25.044
182 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
81 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2,4-Trimethylbenzene	3.05923 2.05267	3.44217 1.44859	3.43525	3.11272	2.94037	2.74855	2.77995	25.014
86 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 1,3-Dichlorobenzene	2.03683 1.53599	2.23655 1.30669	2.24382	2.02526	1.95455	1.80709	1.89335	17.422

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Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
89 1,4-Dichlorobenzene	2.03034	2.30310	2.26844	2.03458	1.99463	1.85707		
	1.58003	1.30874					1.92211	17.502
173 1,2,3-trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
90 alpha-chlorotoluene	1.65250	2.36306	2.71272	2.48875	2.52656	2.56356		
	2.24375	1.93642					2.31092	15.381
91 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
92 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
93 1,2-Dichlorobenzene	1.91072	2.12661	2.12168	1.88229	1.80614	1.72395		
	1.51174	1.33048					1.80170	15.395
94 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
168 1,2-dibromo-3-chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
95 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++	+++++					+++++	+++++
97 1,2,4-Trichlorobenzene	+++++	1.43589	1.40801	1.05516	1.17710	1.21974		
	1.07711	0.98344					1.19378	14.611

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Compound	0.10000	0.50000	2.000	5.000	10.000	20.000	RRF	% RSD
	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10		
	40.000	100.000						
	Level 11	Level 12						
98 Hexachlorobutadiene	+++++	1.26641	1.25634	1.00221	1.01283	0.99452		
	0.88661	0.76004					1.02557	17.924
96 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
99 Naphthalene	+++++	2.33466	2.48904	1.88296	2.13392	2.27463		
	1.97161	1.65157					2.10548	13.745
170 1,2,3-trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
\$ 47 1,2-Dichloroethane-d4	2.06474	2.11118	2.09765	2.19212	2.12249	2.22416		
	2.29858	2.69674					2.22596	9.213
\$ 59 Toluene-d8	1.04112	1.06852	1.00560	1.04221	1.03603	1.05124		
	1.07405	1.14244					1.05765	3.800
\$ 77 Bromofluorobenzene	0.73188	0.77379	0.77344	0.75172	0.78315	0.75606		
	0.69829	0.71789					0.74828	3.997

# Calibration History

Method : /chem/msdz.i/08May2008.b/t1410422c.m  
Start Cal Date: 22-APR-2008 19:38  
End Cal Date : 08-MAY-2008 10:02

## Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 5 , Cal Amount: 0.10000		
23-APR-2008 11:45	Level#1	/chem/msdz.i/22Apr2008.b/z042225.d
Cal Level: 6 , Cal Amount: 0.50000		
29-APR-2008 11:21	sp4b	/chem/msdz.i/29Apr2008.b/z042904.d
22-APR-2008 19:38	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042216.d
Cal Level: 7 , Cal Amount: 2.00000		
29-APR-2008 12:17	sp4b	/chem/msdz.i/29Apr2008.b/z042905.d
22-APR-2008 20:39	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042217.d
Cal Level: 8 , Cal Amount: 5.00000		
22-APR-2008 21:12	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042218.d
Cal Level: 9 , Cal Amount: 10.00000		
29-APR-2008 13:01	sp4b	/chem/msdz.i/29Apr2008.b/z042906.d
22-APR-2008 21:50	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042219.d
Cal Level: 10, Cal Amount: 20.00000		
29-APR-2008 14:26	sp4b	/chem/msdz.i/29Apr2008.b/z042907.d
22-APR-2008 22:30	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042220.d
Cal Level: 11, Cal Amount: 40.00000		
29-APR-2008 15:50	sp4b	/chem/msdz.i/29Apr2008.b/z042908.d
22-APR-2008 23:25	HILOcrvENSR	/chem/msdz.i/22Apr2008.b/z042221.d



```
+-----+-----+-----+
| Cal Level: 12, Cal Amount: 100.00000 |
+=====+
| 08-MAY-2008 10:02 | HILOcrvENSR | /chem/msdz.i/08May2008.b/z050802.d |
+-----+-----+-----+
```

### **Initial Calibration Narrative**

An initial calibration curve was analyzed on 4/22/08 on MSD-Z. The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

As noted on the accompanying analytical run log, ICAL level 5 (0.1ppbv) was re-analyzed due to:

- A. anomalous unacceptable linearity for chloroethane

An additional calibration level, Level 12 (100ppbv), was added to the initial calibration curve on 5/8/08.

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	26.42
75	30.0 - 60.0% of mass 95	54.59
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	8.10
173	Less than 2.0% of mass 174	(0.00) <sup>1</sup>
174	50.0 - 100% of mass 95	75.47
175	5.0 - 9.0% of mass 174	(8.91) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	(96.93) <sup>1</sup>
177	5.0 - 9.0% of mass 176	(8.05) <sup>2</sup>

BFB Injection Date: 4/23/08  
 BFB Injection Time: 1429  
 BFB File ID: 2042209  
 Tekmar Purge Flow: 19.2 mL/min  
 Vacuum: 750e-6  
 IS/S Std #: 1541-108 Exp. Date: 7/8/08  
 BCM 1616149 1706173  
 1,4-DFB 1616149  
 CB-d5 203367 2108214  
 Verified CCV IS vs ICAL mid-point (-40% D) OK

Verify 176/174 m/z Ratio: 1340226/1382722 x 100 = 96.93

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

Calculation Check:

ppbv of compound =  $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{std}}} \times \text{Conc}_{\text{std}} \times \text{RRF}$

Reported Result: 425708

Method: 71420422a  
71450422a

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	2042209	BFA Time Check 142377		5.0psi	20ul	110	AS	4/23/08	1429	AS	
	10	System Blank	13020	Herold	500ul				1505	AS	
✓	11	ICM Level 2	1541-110	0.003psi	30ml				1610	AS	
✓	12			0.01psi	100ml		AS		1715	AS	Good std.
✓	13			0.02psi	200ml				1746	AS	
✓	14			0.05psi	500ml				1821	AS	
✓	15		1541-111	0.10psi	75ml				1907	AS	NE due to calibration

Signature

4/23/08  
Date

8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
✓	✓	✓	✓	✓	✓	X	X	✓	✓	✓													
Z-042216																							
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)	ICAL Level (g)
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1541-111	1541-91	1541-91	1541-91	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111	1541-111
0.5 ppbv	2.0 ppbv	5.0 ppbv	10 ppbv	20 ppbv	40 ppbv	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid
125 mL	500 mL	50 mL	100 mL	200 mL	400 mL	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid	Humid
100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT	ACT
4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08	4/23/08
1938	2039	2112	2150	2230	2325	0752	0927	1022	1145														
RT	RT	RT	RT	RT	RT	RT	RT	RT	RT														

Comments: Flow Controller SN: AA00483163

NIST Flow Meter: 700-7744, exp 8/27/08

44.5 mL/min

Signature

4/24/08

Date

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	27.15
75	30.0 - 60.0% of mass 95	55.34
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	8.30
173	Less than 2.0% of mass 174	(0.58) <sup>1</sup>
174	50.0 - 100% of mass 95	74.74
175	5.0 - 9.0% of mass 174	(8.89) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	(96.38) <sup>1</sup>
177	5.0 - 9.0% of mass 176	(8.06) <sup>2</sup>

<sup>1</sup> - value in parenthesis is % mass 174

Verify 176/174 m/z Ratio:  $1110638/1152341 \times 100 = 96.38$

BFB Injection Date: 4/24/08  
 BFB Injection Time: 13:12  
 BFB File ID: Z042401  
 Tekmar Purge Flow: \_\_\_\_\_  
 Vacuum: \_\_\_\_\_  
 IS/S Std #: 1541-108 Exp. Date: 7/8/08  
 BCM: 395733  
 1,4-DFB: 1636005  
 CB-d5: 2105358  
 Verified CCV IS vs ICAL mid-point (-40%<sup>D</sup>) AS  
 Initials

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

Calculation Check:

ppbv of compound =  $\frac{\text{Area}_{\text{sample}}}{\text{Areas}} \times \text{Conc. is RRF} = \left( \frac{1691984}{1636005} \right) \times \left( \frac{10.0}{1.04554} \right) = 9.891$

Reported Result 9.891

File ID: Z042405  
 Compound: 701-28  
 Initials: AS

Method: T14L0422a  
T14S0422a

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	Z042401	BFB Inj. Chart	1076-277	50ppb	2ul	1.00	AS	4/24/08	13:12	AS	
✓	02	ICAL Level 2	1541-129	0.07ppb	100mL				14:52	AS	
✓	03			0.03ppb	200mL				15:45	AS	
✓	04			0.05ppb	500mL				17:00	AS	
✓	05	CCV-1 (50 ppbv)	1541-91	10ppbv	100mL		ACT		17:30	AS	
✓	06	LCS-1 (50 ppbv)	1541-52	10ppbv	100mL				18:07	AS	ICAL LCS
✓	07	Lab Blank	12020	Humid	500mL				18:40	AS	

Signature \_\_\_\_\_

Date 4/24/08

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	28.71
75	30.0 - 60.0% of mass 95	56.21
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	8.04
173	Less than 2.0% of mass 174	(1.05) <sup>1</sup>
174	50.0 - 100% of mass 95	78.27
175	5.0 - 9.0% of mass 174	(8.88) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	(96.85) <sup>1</sup>
177	5.0 - 9.0% of mass 176	(7.93) <sup>2</sup>

<sup>1</sup> - value in parenthesis is % mass 174      <sup>2</sup> - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio:  $\frac{1136797/1173781 \times 100}{96.85} = 96.85$

Calculation Check:

ppbv of compound =  $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \frac{\text{Conc.}_{\text{std}}}{\text{RRF}} = \frac{(1327164)}{(1241907)} \times \frac{(10.0)}{(1.04554)} = 10.221$

File ID: 2042902  
 Compound: Tol-DB  
 Initials: SM

Method: 714202286

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	2042901	BFB TOL Check	176-27	50ppb	2ul	100	SM	4/29/08	0907	SM	
✓	02	CVI-1 (50ppb)	1541-91	10ppb	100ul				0933	SM	Dout
✓	03	105-1	1541-52						1014	SM	Dout
✓	04	TOL level 6	1541-116	0.5ppb	125ul				1131	SM	T14402286
✓	05			2.0ppb	500ul				1217	SM	
✓	06		9	1541-115	100ul				1301	SM	sp4hcv
✓	07		10	20ppb	200ul				1426	SM	

BFB Injection Date: 4/29/08  
 BFB Injection Time: 0907  
 BFB File ID: 2042901  
 Tekmar Purge Flow: \_\_\_\_\_  
 Vacuum: \_\_\_\_\_  
 IS/Std #: 1541-108 Exp. Date: 7/8/08  
 BCM 44: 345737  
 1,4-DFB 1241907  
 CB-d5 1575992  
 Verified CCV IS vs ICAL mid-point (-40% D) SM

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

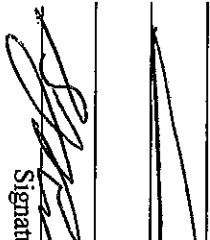
Reported Result: 10.221

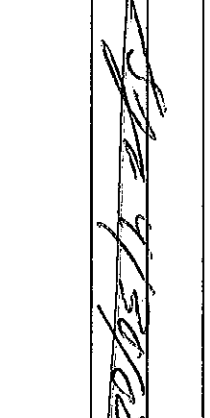
Signature: [Handwritten Signature]

Date: 4/29/08

8	✓	Z042908	ICAH Level 11	15/11-115	50ppm	Humid	500ml	100	Act	4/29/08	1550	Act/RT	Accountable 7R2
9	X	↓ 09	Labo Blank	12020	Humid	500ml	100	Act	↓	4/29/08 <td>1550</td> <td>Act/RT</td> <td>Accountable 7R2</td>	1550	Act/RT	Accountable 7R2
10	✓	10	08045944	-01A	12330	50mlg-55A	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>1801</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>1801</td> <td>Act/RT</td> <td>Accountable 7R2</td>	1801	Act/RT	Accountable 7R2
11				-02A	10973		100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>1916</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>1916</td> <td>Act/RT</td> <td>Accountable 7R2</td>	1916	Act/RT	Accountable 7R2
12	✓	Z042910	Labo Blank	12020	Humid	500ml	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>1947</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>1947</td> <td>Act/RT</td> <td>Accountable 7R2</td>	1947	Act/RT	Accountable 7R2
13	✓			-01A	12330	50mlg-55A	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2018</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2018</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2018	Act/RT	Accountable 7R2
14	✓			-02A	10973		100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2052</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2052</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2052	Act/RT	Accountable 7R2
15	✓			-03A	33896		139 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2122</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2122</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2122	Act/RT	Accountable 7R2
16	✓			-02A	10973		134 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2154</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2154</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2154	Act/RT	Accountable 7R2
17	✓			-01A	31145	10mlg-55A	139 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2225</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2225</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2225	Act/RT	Accountable 7R2
18	✓			-02A	5657	00mlg-55A	134 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2250</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2250</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2250	Act/RT	Accountable 7R2
19	✓			-03A	11307	05mlg-55A	139 <td>Act</td> <td>↓</td> <td>4/29/08 <td>2329</td> <td>Act/RT</td> <td>Accountable 7R2</td> </td>	Act	↓	4/29/08 <td>2329</td> <td>Act/RT</td> <td>Accountable 7R2</td>	2329	Act/RT	Accountable 7R2
20	✓			-01A	31145	10mlg-55A	134 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0003</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0003</td> <td>DM/RT</td> <td></td>	0003	DM/RT	
21	✓			-01A	12012	00mlg-55A	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0052</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0052</td> <td>DM/RT</td> <td></td>	0052	DM/RT	
22	✓			-05A	5714	↓	134 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0149</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0149</td> <td>DM/RT</td> <td></td>	0149	DM/RT	
23	✓			-06A	4214	29.0mlg-55A	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0246</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0246</td> <td>DM/RT</td> <td></td>	0246	DM/RT	
24	✓			03A	14869	0.5mlg-55A	134 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0352</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0352</td> <td>DM/RT</td> <td></td>	0352	DM/RT	
25	✓			08A	14121	0.014g-55A	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td>0751</td> <td>DM/RT</td> <td></td> </td>	Act	↓	4/29/08 <td>0751</td> <td>DM/RT</td> <td></td>	0751	DM/RT	
26	✓			09A	5777	↓	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td></td> <td></td> <td></td> </td>	Act	↓	4/29/08 <td></td> <td></td> <td></td>			
27	✓			10A	24489	↓	100 <td>Act</td> <td>↓</td> <td>4/29/08 <td></td> <td></td> <td></td> </td>	Act	↓	4/29/08 <td></td> <td></td> <td></td>			
28	P		Manifold #4	1593	—		100 <td>Act</td> <td>↓</td> <td>4/29/08 <td></td> <td></td> <td></td> </td>	Act	↓	4/29/08 <td></td> <td></td> <td></td>			
29													
30													
31													

Comments:

Signature:  Date: 4/30/08

 4/30/08

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	31.49
75	30.0 - 60.0% of mass 95	58.10
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	8.38
173	Less than 2.0% of mass 174	(1.06) <sup>1</sup>
174	50.0 - 100% of mass 95	75.91
175	5.0 - 9.0% of mass 174	(8.80) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	(96.72) <sup>1</sup>
177	5.0 - 9.0% of mass 176	(7.99) <sup>2</sup>

<sup>1</sup> - value in parenthesis is % mass 174  
<sup>2</sup> - value in parenthesis is % mass 176  
 Verify 176/174 m/z Ratio:  $917750 / 948906 \times 100 = 96.72$

BFB Injection Date: 5/8/08  
 BFB Injection Time: 0900  
 BFB File ID: 2050801  
 Tekmar Purge Flow:                       
 Vacuum:                       
 IS/S Std.#: 1541-156 Exp. Date: 8/6/08  
 BCM: 303019  
 1,4-DFB: 1056800  
 CB-d5: 1305891  
 Verified CCV IS vs ICAL mid-point (-40% D)                     

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

Calculation Check:  
 ppbv of compound =  $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \frac{\text{Conc.}_{\text{std}}}{\text{RRF}}$   
 =  $\frac{(1134839)}{(1056800)} \times \frac{(10.0)}{(1.05765)} = 10.153$   
 File ID: 2050804  
 Compound: 701-03  
 Initials:                     

Method: 71420422C

Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
✓	050801	BFB Tune Check	1176-277	50mg	2ul	100		5/8/08	0900		
✓	02	ZIAC Level 12	1612-6	100ppbv	250ul			1002			
✓	03	System blank	12020	Humid	500ul			1231			
✓	04	NV-1 (50ppbv)	1541-95	Humid	100ul			1318			2out
✓	05	105-1	1541-52					1417			2out
✓	06	Lab blank	30843	Humid	500ml			1507			
✓	07	080518A-01A	33963	6.51ppm	500ml	1.71			1601		

Signature:                     

Date: 5/8/08



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

<b>Bromochloromethane</b>
<b>Target Compounds:</b>
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
<b>Surrogates:</b>
1,2-Dichloroethane-d4

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

<b>Chlorobenzene-d5</b>
<b>Target Compounds:</b>
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
<b>Surrogates:</b>
Bromofluorobenzene

Report Date: 09-May-2008 12:24

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050805.d  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Inj Date : 08-MAY-2008 14:17  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 100mL #1541-52;LCS-1;LCS-1  
 Misc Info : 50ppbv -> 10ppbv  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 09-May-2008 12:23 e Jakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT08.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====
-----								
* 39	Bromochloromethane					CAS #: 74-97-5		
13.605	13.605	(1.000)	130	293082	10.0000	80.00- 120.00	100.00	
13.605	13.605	(1.000)	128	227933		0.00- 30.00	77.77	
13.605	13.605	(1.000)	49	518406		0.00- 30.00	176.88	
-----								
* 52	1,4-Difluorobenzene					CAS #: 540-36-3		
14.859	14.860	(1.000)	114	1002617	10.0000	80.00- 120.00	100.00	
14.859	14.860	(1.000)	88	209618		0.00- 30.00	20.91	
-----								
* 68	Chlorobenzene-d5					CAS #: 3114-55-4		
19.093	19.093	(1.000)	117	1207912	10.0000	80.00- 120.00	100.00	
19.093	19.093	(1.000)	82	815212		0.00- 30.00	67.49	
-----								
\$ 47	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365	(1.056)	65	634991	9.73334	80.00- 120.00	100.00	
14.365	14.365	(1.056)	67	348150		0.00- 30.00	54.83	
-----								
\$ 59	Toluene-d8					CAS #: 2037-26-5		
17.038	17.039	(1.147)	98	1069562	10.0862	80.00- 120.00	100.00	
17.038	17.039	(1.147)	70	177069		0.00- 30.00	16.56	

CONCENTRATIONS

ON-COL FINAL

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

\$ 59 Toluene-d8 (continued)

17.038	17.039 (1.147)	100	731600			37.60- 97.60	68.40
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\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574	20.575 (1.078)	174	897772	9.93273	9.933	80.00- 120.00	100.00
20.574	20.575 (1.078)	95	1215607			101.48- 161.48	135.40
20.574	20.575 (1.078)	176	883519			66.96- 126.96	98.41

1 Propylene

CAS #: 115-07-1

4.521	4.521 (0.332)	41	646849	11.1299	11.130	80.00- 120.00	100.00
4.521	4.545 (0.332)	42	441318			0.00- 30.00	68.23
4.521	4.521 (0.332)	39	506109			0.00- 30.00	78.24

3 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

4.907	4.907 (0.361)	85	2071231	9.07725	9.077	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	731871			4.71- 64.71	35.34

4 Freon 114

CAS #: 76-14-2

5.967	5.967 (0.439)	135	1044758	9.19653	9.196	80.00- 120.00	100.00
5.991	5.967 (0.440)	137	367413			0.00- 30.00	35.17

5 Chloromethane

CAS #: 74-87-3

6.184	6.184 (0.455)	50	663547	9.54565	9.546	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	223505			0.00- 30.00	33.68

6 Vinyl Chloride

CAS #: 75-01-4

6.823	6.841 (0.502)	62	585379	8.53176	8.532	80.00- 120.00	100.00
6.841	6.841 (0.503)	64	201997			4.77- 64.77	34.51

7 1,3-Butadiene

CAS #: 106-99-0

7.014	7.014 (0.516)	54	476280	9.57847	9.578	80.00- 120.00	100.00
7.014	7.032 (0.516)	39	485159			0.00- 30.00	101.86

9 Bromomethane

CAS #: 74-83-9

8.198	8.198 (0.603)	94	465435	8.64555	8.646	80.00- 120.00	100.00
8.198	8.198 (0.603)	96	440088			64.13- 124.13	94.55

10 Chloroethane

CAS #: 75-00-3

8.612	8.612 (0.633)	64	281288	9.01749	9.017	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	97976			0.00- 30.00	34.83
8.612	8.612 (0.633)	66	96009			0.00- 30.00	34.13

13 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

9.296	9.296 (0.683)	101	1325742	9.27718	9.277	80.00- 120.00	100.00
9.296	9.296 (0.683)	103	871864			36.78- 96.78	65.76

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	FINAL	TARGET RANGE	RATIO
				( PPEV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	156513	8.32110	8.321		80.00- 120.00	100.00
10.146	10.146	(0.746)	43	48013				0.00- 30.00	30.68
10.146	10.146	(0.746)	46	62961				0.00- 30.00	40.23
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	262439	8.50026	8.500		80.00- 120.00	100.00
10.477	10.477	(0.770)	61	857423				0.00- 30.00	326.71
10.498	10.498	(0.772)	96	400319				0.00- 30.00	152.54
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	771745	10.0378	10.038		80.00- 120.00	100.00
10.498	10.498	(0.772)	153	501283				36.38- 96.38	64.95
10.498	10.498	(0.772)	101	907763				0.00- 30.00	117.62
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	1085958	8.57501	8.575		80.00- 120.00	100.00
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	227932	8.42277	8.423		80.00- 120.00	100.00
10.747	10.747	(0.790)	43	849167				0.00- 30.00	372.55
-----									
21 2-Propanol						CAS #: 67-63-0			
11.120	11.099	(0.817)	45	726882	7.84584	7.846		80.00- 120.00	100.00
11.120	11.099	(0.817)	43	242367				0.00- 30.00	33.34
11.120	11.099	(0.817)	59	33057				0.00- 30.00	4.55
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	190024	8.51466	8.515		80.00- 120.00	100.00
11.223	11.223	(0.825)	41	615124				0.00- 30.00	323.71
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.471	(0.843)	84	356386	8.40988	8.410		80.00- 120.00	100.00
11.470	11.471	(0.843)	49	601409				0.00- 30.00	168.75
11.470	11.471	(0.843)	51	192523				0.00- 30.00	54.02
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	1071990	8.22752	8.228		80.00- 120.00	100.00
11.800	11.800	(0.867)	57	304066				0.00- 30.00	28.36
11.800	11.800	(0.867)	41	411305				0.00- 30.00	38.37
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	287984	8.58862	8.589		80.00- 120.00	100.00
11.827	11.827	(0.869)	61	777832				0.00- 30.00	270.10
11.827	11.827	(0.869)	96	437873				0.00- 30.00	152.05
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
30 Hexane						CAS #: 110-54-3			
12.129	12.129	(0.892)	57	681548	8.40489	8.405		80.00- 120.00	100.00
12.129	12.129	(0.892)	43	461059				0.00- 30.00	67.65
12.129	12.129	(0.892)	86	110258				0.00- 30.00	16.18
-----									
31 1,1-Dichloroethane						CAS #: 75-34-3			
12.486	12.486	(0.918)	63	850944	9.01767	9.018		80.00- 120.00	100.00
12.486	12.486	(0.918)	65	283941				0.00- 30.00	33.37
-----									
33 Vinyl Acetate						CAS #: 108-05-4			
12.541	12.541	(0.922)	43	754219	7.80848	7.808		80.00- 120.00	100.00
12.541	12.541	(0.922)	42	96054				0.00- 30.00	12.74
12.541	12.541	(0.922)	86	68913				0.00- 30.00	9.14
-----									
36 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.285	13.285	(0.976)	98	268277	8.18789	8.188		80.00- 120.00	100.00
13.285	13.285	(0.976)	61	662109				0.00- 30.00	246.80
13.285	13.285	(0.976)	96	398315				127.14- 187.14	148.47
-----									
37 2-Butanone						CAS #: 78-93-3			
13.285	13.285	(0.976)	72	201229	7.85419	7.854		80.00- 120.00	100.00
13.285	13.285	(0.976)	43	920195				0.00- 30.00	457.29
13.285	13.285	(0.976)	57	88226				0.00- 30.00	43.84
-----									
38 Tetrahydrofuran						CAS #: 109-99-9			
13.605	13.605	(1.000)	42	519642	8.44143	8.441		80.00- 120.00	100.00
13.605	13.605	(1.000)	71	185135				0.00- 30.00	35.63
13.605	13.605	(1.000)	72	196338				0.00- 30.00	37.78
-----									
40 Chloroform						CAS #: 67-66-3			
13.667	13.667	(1.005)	83	1015488	8.86222	8.862		80.00- 120.00	100.00
13.667	13.667	(1.005)	85	680252				0.00- 30.00	66.99
-----									
42 Cyclohexane						CAS #: 110-82-7			
13.882	13.882	(1.020)	84	575381	7.83034	7.830		80.00- 120.00	100.00
13.882	13.882	(1.020)	56	779819				0.00- 30.00	135.53
13.882	13.882	(1.020)	41	509420				0.00- 30.00	88.54
-----									
43 1,1,1-Trichloroethane						CAS #: 71-55-6			
13.882	13.882	(1.020)	97	1212662	9.25215	9.252		80.00- 120.00	100.00
13.882	13.882	(1.020)	99	788574				0.00- 30.00	65.03
-----									
44 Carbon Tetrachloride						CAS #: 56-23-5			
14.036	14.037	(1.032)	119	1143517	11.7477	11.748		80.00- 120.00	100.00
14.036	14.037	(1.032)	117	1198525				0.00- 30.00	104.81
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
46 Benzene						CAS #: 71-43-2			
14.338	14.338	(0.965)	78	1241588	9.02528	9.025		80.00- 120.00	100.00
14.338	14.338	(0.965)	77	325168				0.00- 30.00	26.19
-----									
45 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.310	14.311	(1.052)	56	748164	8.27551	8.276		80.00- 120.00	100.00
14.310	14.311	(1.052)	57	2077321				0.00- 30.00	277.66
14.310	14.311	(1.052)	41	780239				0.00- 30.00	104.29
-----									
49 1,2-Dichloroethane						CAS #: 107-06-2			
14.448	14.448	(0.972)	62	943030	10.4830	10.483		80.00- 120.00	100.00
14.448	14.448	(0.972)	64	318133				0.00- 30.00	33.74
-----									
50 Heptane						CAS #: 142-82-5			
14.530	14.530	(0.978)	57	485761	9.41087	9.411		80.00- 120.00	100.00
14.530	14.530	(0.978)	100	158642				0.00- 30.00	32.66
14.530	14.530	(0.978)	43	922848				0.00- 30.00	189.98
-----									
53 Trichloroethene						CAS #: 79-01-6			
15.216	15.216	(1.024)	130	558025	9.35724	9.357		80.00- 120.00	100.00
15.216	15.216	(1.024)	95	609612				0.00- 30.00	109.24
15.216	15.216	(1.024)	97	410859				0.00- 30.00	73.63
-----									
54 1,2-Dichloropropane						CAS #: 78-87-5			
15.601	15.601	(1.050)	63	509034	8.89268	8.893		80.00- 120.00	100.00
15.601	15.601	(1.050)	62	381138				0.00- 30.00	74.87
15.601	15.601	(1.050)	41	484166				62.72- 122.72	95.11
-----									
55 1,4-Dioxane						CAS #: 123-91-1			
15.710	15.710	(1.057)	88	313447	7.75992	7.760		80.00- 120.00	100.00
15.710	15.710	(1.057)	58	272580				0.00- 30.00	86.96
15.710	15.710	(1.057)	57	106881				0.00- 30.00	34.10
-----									
56 Bromodichloromethane						CAS #: 75-27-4			
15.985	15.985	(1.076)	83	1115443	10.0434	10.043		80.00- 120.00	100.00
15.985	15.985	(1.076)	85	721168				0.00- 30.00	64.65
-----									
57 cis-1,3-Dichloropropene						CAS #: 10061-01-5			
16.680	16.680	(1.123)	75	684383	8.55451	8.554		80.00- 120.00	100.00
16.680	16.680	(1.123)	77	235801				0.00- 30.00	34.45
16.680	16.680	(1.123)	39	528167				47.03- 107.03	77.17
-----									
58 4-Methyl-2-pentanone						CAS #: 108-10-1			
16.859	16.859	(1.135)	43	1198296	9.79703	9.797		80.00- 120.00	100.00
16.859	16.859	(1.135)	58	450986				0.00- 30.00	37.64
16.859	16.859	(1.135)	85	195201				0.00- 30.00	16.29
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL ( PPEV)	FINAL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
60 Toluene									
						CAS #:	108-88-3		
17.151	17.151	(1.154)	91	1493453	9.15109	9.151	80.00-	120.00	100.00
17.151	17.151	(1.154)	92	919057			0.00-	30.00	61.54
-----									
61 trans-1,3-Dichloropropene									
						CAS #:	10061-02-6		
17.531	17.531	(0.918)	75	865292	9.32709	9.327	80.00-	120.00	100.00
17.531	17.531	(0.918)	77	295356			0.00-	30.00	34.13
17.531	17.531	(0.918)	39	582151			36.25-	96.25	67.28
-----									
62 1,1,2-Trichloroethane									
						CAS #:	79-00-5		
17.818	17.818	(0.933)	97	597437	9.70711	9.707	80.00-	120.00	100.00
17.818	17.818	(0.933)	99	390893			0.00-	30.00	65.43
17.818	17.818	(0.933)	83	506177			55.98-	115.98	84.72
-----									
63 Tetrachloroethene									
						CAS #:	127-18-4		
17.906	17.906	(0.938)	166	830373	10.2047	10.205	80.00-	120.00	100.00
17.906	17.906	(0.938)	129	639746			0.00-	30.00	77.04
17.906	17.906	(0.938)	131	628613			43.88-	103.88	75.70
-----									
64 2-Hexanone									
						CAS #:	591-78-6		
18.051	18.052	(0.945)	58	685104	8.93635	8.936	80.00-	120.00	100.00
18.051	18.052	(0.945)	43	1387373			0.00-	30.00	202.51
18.051	18.052	(0.945)	100	134274			0.00-	30.00	19.60
-----									
66 Dibromochloromethane									
						CAS #:	124-48-1		
18.343	18.343	(0.961)	129	1137406	11.4208	11.421	80.00-	120.00	100.00
18.343	18.343	(0.961)	127	897966			0.00-	30.00	78.95
-----									
67 1,2-Dibromoethane									
						CAS #:	106-93-4		
18.547	18.547	(0.971)	107	991286	9.38455	9.384	80.00-	120.00	100.00
18.547	18.547	(0.971)	109	925026			0.00-	30.00	93.32
-----									
69 Chlorobenzene									
						CAS #:	108-90-7		
19.141	19.142	(1.003)	112	1601568	9.32097	9.321	80.00-	120.00	100.00
19.141	19.142	(1.003)	114	562901			0.00-	30.00	35.15
19.141	19.142	(1.003)	77	1169398			42.08-	102.08	73.02
-----									
70 Ethyl Benzene									
						CAS #:	100-41-4		
19.214	19.214	(1.006)	106	892440	9.16817	9.168	80.00-	120.00	100.00
19.214	19.214	(1.006)	91	2739518			0.00-	30.00	306.97
-----									
71 m,p-Xylene									
						CAS #:	108-38-3		
19.358	19.358	(1.014)	106	1153581	9.36251	9.362	80.00-	120.00	100.00
19.358	19.358	(1.014)	91	2289973			0.00-	30.00	198.51
-----									
72 o-Xylene									
						CAS #:	95-47-6		
19.888	19.888	(1.042)	106	1159671	9.41753	9.418	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	2442755				0.00- 30.00	210.64
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	1766683	9.34275	9.343		80.00- 120.00	100.00
19.912	19.912	(1.043)	78	1075085				0.00- 30.00	60.85
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	1240192	12.0331	12.033		80.00- 120.00	100.00
20.201	20.201	(1.058)	171	671489				0.00- 30.00	54.14
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	3427787	9.90753	9.908		80.00- 120.00	100.00
20.298	20.298	(1.063)	120	974646				0.00- 30.00	28.43
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	2051130	9.87547	9.875		80.00- 120.00	100.00
20.729	20.729	(1.086)	85	1349371				0.00- 30.00	65.79
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	4511997	10.0703	10.070		80.00- 120.00	100.00
20.781	20.781	(1.088)	120	1069354				0.00- 30.00	23.70
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	4238133	9.69656	9.696		80.00- 120.00	100.00
20.910	20.910	(1.095)	120	1398435				0.00- 30.00	33.00
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	3266807	9.83029	9.830		80.00- 120.00	100.00
20.987	20.987	(1.099)	120	1625196				0.00- 30.00	49.75
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	3213351	9.56944	9.569		80.00- 120.00	100.00
21.425	21.425	(1.122)	120	1519259				0.00- 30.00	47.28
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	2186648	9.56122	9.561		80.00- 120.00	100.00
21.812	21.812	(1.142)	148	1443386				0.00- 30.00	66.01
21.812	21.812	(1.142)	111	993928				0.00- 30.00	45.45
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	2190750	9.43579	9.436		80.00- 120.00	100.00
21.915	21.915	(1.148)	148	1447659				0.00- 30.00	66.08
21.915	21.915	(1.148)	111	981992				0.00- 30.00	44.82
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	2646225	9.47998	9.480		80.00- 120.00	100.00



CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
90 alpha-chlorotoluene (continued)								
22.044	22.044	(1.155)	126	556977			0.00- 30.00	21.05
-----								
93 1,2-Dichlorobenzene						CAS #: 95-50-1		
22.354	22.354	(1.171)	146	2072427	9.52272	9.523	80.00- 120.00	100.00
22.354	22.354	(1.171)	148	1342411			35.53- 95.53	64.77
22.354	22.354	(1.171)	111	983128			17.01- 77.01	47.44
-----								
97 1,2,4-Trichlorobenzene						CAS #: 120-82-1		
24.107	24.107	(1.263)	180	1613018	11.1861	11.186	80.00- 120.00	100.00
24.107	24.107	(1.263)	182	1540231			0.00- 30.00	95.49
-----								
98 Hexachlorobutadiene						CAS #: 87-68-3		
24.184	24.184	(1.267)	225	1191743	9.62020	9.620	80.00- 120.00	100.00
24.184	24.184	(1.267)	223	772259			0.00- 30.00	64.80
-----								
99 Naphthalene						CAS #: 91-20-3		
24.416	24.417	(1.279)	128	2503725	9.84463	9.845	80.00- 120.00	100.00
24.416	24.417	(1.279)	127	366958			0.00- 30.00	14.66
-----								
179 Butane						CAS #: 106-97-8		
6.754	6.737	(0.496)	58	131276	8.75832	8.758	80.00- 120.00	100.00
6.754	6.737	(0.496)	43	903911			0.00- 30.00	688.56
-----								
11 Isopentane						CAS #: 78-78-4		
8.736	8.737	(0.642)	57	469884	9.78542	9.785	80.00- 120.00	100.00
8.736	8.737	(0.642)	43	657370			0.00- 30.00	139.90
8.736	8.737	(0.642)	42	580747			0.00- 30.00	123.59
-----								
167 Methylcyclohexane						CAS #: 108-87-2		
15.408	15.409	(1.133)	83	781325	7.98149	7.981	80.00- 120.00	100.00
15.408	15.409	(1.133)	98	389601			0.00- 30.00	49.86
15.408	15.409	(1.133)	55	838496			0.00- 30.00	107.32
-----								
26 tert-butyl alcohol						CAS #: 75-65-0		
11.718	11.718	(0.861)	59	816533	7.26181	7.262	80.00- 120.00	100.00
11.718	11.718	(0.861)	41	271293			0.00- 30.00	33.22
11.718	11.718	(0.861)	57	113874			0.00- 30.00	13.95
-----								

Report Date: 09-May-2008 12:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 08-MAY-2008

Lab File ID: z050805.d

Calibration Time: 13:18

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 50ppbv -&gt; 10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	293082	-3.28
52 1,4-Difluorobenze	1056800	634080	1479520	1002617	-5.13
68 Chlorobenzene-d5	1305891	783535	1828247	1207912	-7.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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: 08May2008  
 Sample Matrix: GAS Fraction: VOA  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Level: LOW Operator: sjr  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: SpectraENSR.spk Quant Type: ISTD  
 Sublist File: AT08.sub  
 Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
 Misc Info: 50ppbv -> 10ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	10.000	9.077	90.77	70-130
1 Propylene	10.000	11.130	111.30	60-140
4 Freon 114	10.000	9.196	91.97	70-130
5 Chloromethane	10.000	9.546	95.46	70-130
6 Vinyl Chloride	10.000	8.532	85.32	70-130
7 1,3-Butadiene	10.000	9.578	95.78	60-140
9 Bromomethane	10.000	8.646	86.46	70-130
10 Chloroethane	10.000	9.017	90.17	70-130
13 Trichlorofluoromet	10.000	9.277	92.77	70-130
14 Ethanol	10.000	8.321	83.21	60-140
17 Freon 113	10.000	10.038	100.38	70-130
15 1,1-Dichloroethene	10.000	8.500	85.00	70-130
20 Acetone	10.000	8.423	84.23	60-140
19 Carbon Disulfide	10.000	8.575	85.75	60-140
21 2-Propanol	10.000	7.846	78.46	60-140
22 3-Chloroprene	10.000	8.515	85.15	60-140
25 Methylene Chloride	10.000	8.410	84.10	70-130
27 MTBE	10.000	8.228	82.28	60-140
28 trans-1,2-Dichloro	10.000	8.589	85.89	60-140
30 Hexane	10.000	8.405	84.05	60-140
31 1,1-Dichloroethane	10.000	9.018	90.18	70-130
33 Vinyl Acetate	10.000	7.808	78.08	60-140
36 cis-1,2-Dichloroet	10.000	8.188	81.88	70-130
37 2-Butanone	10.000	7.854	78.54	60-140
38 Tetrahydrofuran	10.000	8.441	84.41	60-140
40 Chloroform	10.000	8.862	88.62	70-130
42 Cyclohexane	10.000	7.830	78.30	60-140
43 1,1,1-Trichloroeth	10.000	9.252	92.52	70-130
44 Carbon Tetrachlori	10.000	11.748	117.48	70-130
45 2,2,4-Trimethylpen	10.000	8.276	82.76	60-140
46 Benzene	10.000	9.025	90.25	70-130
50 Heptane	10.000	9.411	94.11	60-140
49 1,2-Dichloroethane	10.000	10.483	104.83	70-130

Report Date: 09-May-2008 12:24

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
53 Trichloroethene	10.000	9.357	93.57	70-130
54 1,2-Dichloropropan	10.000	8.893	88.93	70-130
55 1,4-Dioxane	10.000	7.760	77.60	60-140
56 Bromodichlorometha	10.000	10.043	100.43	60-140
57 cis-1,3-Dichloropr	10.000	8.554	85.55	70-130
58 4-Methyl-2-pentano	10.000	9.797	97.97	60-140
60 Toluene	10.000	9.151	91.51	70-130
61 trans-1,3-Dichloro	10.000	9.327	93.27	70-130
62 1,1,2-Trichloroeth	10.000	9.707	97.07	70-130
64 2-Hexanone	10.000	8.936	89.36	60-140
63 Tetrachloroethene	10.000	10.205	102.05	70-130
66 Dibromochlorometha	10.000	11.421	114.21	60-140
67 1,2-Dibromoethane	10.000	9.384	93.85	70-130
69 Chlorobenzene	10.000	9.321	93.21	70-130
70 Ethyl Benzene	10.000	9.168	91.68	70-130
71 m,p-Xylene	10.000	9.362	93.63	70-130
72 o-Xylene	10.000	9.418	94.18	70-130
73 Styrene	10.000	9.343	93.43	70-130
75 Bromoform	10.000	12.033	120.33	60-140
76 Cumene	10.000	9.908	99.08	60-140
79 1,1,2,2-Tetrachlor	10.000	9.875	98.75	70-130
80 Propylbenzene	10.000	10.070	100.70	70-130
82 4-Ethyltoluene	10.000	9.696	96.97	60-140
83 1,3,5-Trimethylben	10.000	9.830	98.30	70-130
85 1,2,4-Trimethylben	10.000	9.569	95.69	70-130
88 1,3-Dichlorobenzen	10.000	9.561	95.61	70-130
89 1,4-Dichlorobenzen	10.000	9.436	94.36	70-130
90 alpha-chlorotoluen	10.000	9.480	94.80	70-130
93 1,2-Dichlorobenzen	10.000	9.523	95.23	70-130
97 1,2,4-Trichloroben	10.000	11.186	111.86	70-130
98 Hexachlorobutadien	10.000	9.620	96.20	60-140
99 Naphthalene	10.000	9.845	98.45	60-140
11 Isopentane	10.000	9.785	97.85	60-140
179 Butane	10.000	8.758	87.58	60-140
167 Methylcyclohexane	10.000	7.981	79.81	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 47 1,2-Dichloroethane	10.000	9.733	97.33	70-130
\$ 59 Toluene-d8	10.000	10.086	100.86	70-130
\$ 77 Bromofluorobenzene	10.000	9.933	99.33	70-130

Date : 08-MAY-2008 14:17

Client ID: LCS-1

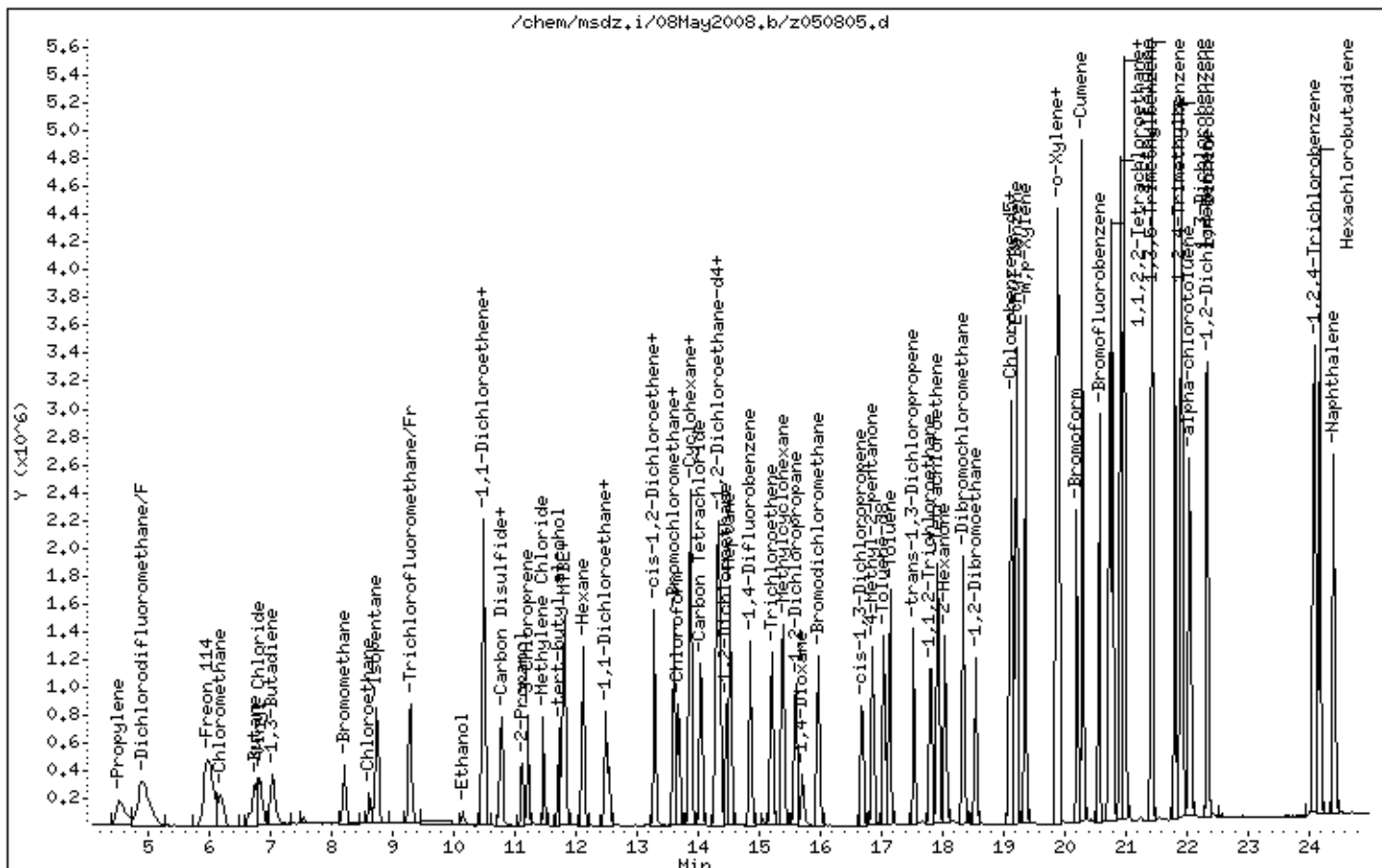
Instrument: msdz.i

Sample Info: 100mL #1541-52:LCS-1:LCS-1

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



Report Date: 25-Apr-2008 07:37

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042225.d  
 Lab Smp Id: ICAL Client Smp ID: Level 5  
 Inj Date : 23-APR-2008 11:45  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 25mL #1541-111;ICAL;Level 5  
 Misc Info : 2.0ppbv -> 0.10ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:37 sruth Quant Type: ISTD  
 Cal Date : 23-APR-2008 11:45 Cal File: z042225.d  
 Als bottle: 1 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: Level#1.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	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	370894	10.0000		70.00- 130.00	100.00	
13.605	13.605	(1.000)	128	292658			48.91- 108.91	78.91	
13.605	13.605	(1.000)	49	595194			130.48- 190.48	160.48	
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1470525	10.0000		70.00- 130.00	100.00	
14.859	14.859	(1.000)	88	311085			0.00- 51.15	21.15	
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	1879394	10.0000		70.00- 130.00	100.00	
19.093	19.093	(1.000)	82	1224202			35.14- 95.14	65.14	
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	765801	10.0000	9.565	70.00- 130.00	100.00	
14.365	14.365	(1.056)	67	368448			18.11- 78.11	48.11	
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1530995	10.0000	9.958	70.00- 130.00	100.00	
17.038	17.038	(1.147)	70	241763			0.00- 45.79	15.79	

AMOUNTS

CAL-AMT ON-COL

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

\$ 59 Toluene-d8 (continued)

17.038 17.038 (1.147) 100 1038143 37.81- 97.81 67.81

\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574 20.574 (1.078) 174 1375499 10.0000 9.724 70.00- 130.00 100.00

20.574 20.574 (1.078) 95 1823135 102.54- 162.54 132.54

20.574 20.574 (1.078) 176 1310263 65.26- 125.26 95.26

3 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

4.906 4.906 (0.361) 85 39804 0.10000 0.1335 70.00- 130.00 100.00

4.906 4.906 (0.361) 87 9976 0.00- 55.06 25.06

4 Freon 114

CAS #: 76-14-2

5.991 5.991 (0.440) 135 19436 0.10000 0.1301 70.00- 130.00 100.00

5.967 5.967 (0.439) 137 5440 0.00- 57.99 27.99

5 Chloromethane

CAS #: 74-87-3

6.184 6.184 (0.455) 50 13050 0.10000 0.1443 70.00- 130.00 100.00

6.208 6.208 (0.456) 52 4682 5.88- 65.88 35.88

6 Vinyl Chloride

CAS #: 75-01-4

6.840 6.840 (0.503) 62 11665 0.10000 0.1290 70.00- 130.00 100.00

6.858 6.858 (0.504) 64 5075 13.51- 73.51 43.51

7 1,3-Butadiene

CAS #: 106-99-0

7.031 7.031 (0.517) 54 9737 0.10000 0.1511 70.00- 130.00 100.00

7.014 7.014 (0.516) 39 12227 95.57- 155.57 125.57

9 Bromomethane

CAS #: 74-83-9

8.218 8.218 (0.604) 94 10951 0.10000 0.1545 70.00- 130.00 100.00

8.218 8.218 (0.604) 96 8722 49.65- 109.65 79.65

10 Chloroethane

CAS #: 75-00-3

8.612 8.612 (0.633) 64 5793 0.10000 0.1426 70.00- 130.00 100.00

8.612 8.612 (0.633) 49 2748 17.44- 77.44 47.44

8.632 8.632 (0.635) 66 2444 12.19- 72.19 42.19

13 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

9.296 9.296 (0.683) 101 28345 0.10000 0.1509 70.00- 130.00 100.00

9.296 9.296 (0.683) 103 17871 33.05- 93.05 63.05

17 Freon 113

CAS #: 76-13-1

10.498 10.498 (0.772) 151 15044 0.10000 0.1468 70.00- 130.00 100.00

10.498 10.498 (0.772) 153 9815 35.24- 95.24 65.24

10.498 10.498 (0.772) 101 16504 79.70- 139.70 109.70

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	====	=====	=====	=====	=====	=====		
-----										
15	1,1-Dichloroethene					CAS #: 75-35-4				
10.498	10.498	(0.772)	98	6326	0.10000	0.1546	70.00- 130.00	100.00		
10.498	10.498	(0.772)	61	15862			220.74- 280.74	250.74		
10.498	10.498	(0.772)	96	7516			88.81- 148.81	118.81		
-----										
19	Carbon Disulfide					CAS #: 75-15-0				
10.788	10.788	(0.793)	76	20124	0.10000	0.1214	70.00- 130.00	100.00		
-----										
25	Methylene Chloride					CAS #: 75-09-2				
11.470	11.470	(0.843)	84	9529	0.10000	0.1699	70.00- 130.00	100.00		
11.470	11.470	(0.843)	49	11864			94.50- 154.50	124.50		
11.470	11.470	(0.843)	51	3981			11.78- 71.78	41.78		
-----										
27	MTBE					CAS #: 1634-04-4				
11.799	11.799	(0.867)	73	18388	0.10000	0.1035	70.00- 130.00	100.00		
11.827	11.827	(0.869)	57	7443			10.48- 70.48	40.48		
11.799	11.799	(0.867)	41	8242			14.82- 74.82	44.82		
-----										
28	trans-1,2-Dichloroethene					CAS #: 156-60-5				
11.827	11.827	(0.869)	98	5857	0.10000	0.1331	70.00- 130.00	100.00		
11.827	11.827	(0.869)	61	13645			202.97- 262.97	232.97		
11.827	11.827	(0.869)	96	8451			114.29- 174.29	144.29		
-----										
30	Hexane					CAS #: 110-54-3				
12.129	12.129	(0.892)	57	11794	0.10000	0.1117	70.00- 130.00	100.00		
12.129	12.129	(0.892)	43	8468			41.80- 101.80	71.80		
12.129	12.129	(0.892)	86	1943			0.00- 46.47	16.47		
-----										
31	1,1-Dichloroethane					CAS #: 75-34-3				
12.486	12.486	(0.918)	63	14417	0.10000	0.1171	70.00- 130.00	100.00		
12.486	12.486	(0.918)	65	6040			11.89- 71.89	41.89		
-----										
37	2-Butanone					CAS #: 78-93-3				
13.326	13.326	(0.979)	72	3494	0.10000	0.1055	70.00- 130.00	100.00		
13.326	13.326	(0.979)	43	14726			391.47- 451.47	421.47		
13.326	13.326	(0.979)	57	1548			14.30- 74.30	44.30		
-----										
36	cis-1,2-Dichloroethene					CAS #: 156-59-2				
13.284	13.284	(0.976)	98	5527	0.10000	0.1286	70.00- 130.00	100.00		
13.284	13.284	(0.976)	61	14001			223.32- 283.32	253.32		
13.284	13.284	(0.976)	96	8680			127.05- 187.05	157.05		
-----										
40	Chloroform					CAS #: 67-66-3				
13.666	13.666	(1.005)	83	19529	0.10000	0.1304	70.00- 130.00	100.00		
13.666	13.666	(1.005)	85	11819			30.52- 90.52	60.52		
-----										



AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
43	1,1,1-Trichloroethane					CAS #: 71-55-6				
13.882	13.882	(1.020)	97	19155	0.10000	0.1119	70.00- 130.00	100.00		
13.882	13.882	(1.020)	99	12952			37.62- 97.62	67.62		
-----										
42	Cyclohexane					CAS #: 110-82-7				
13.882	13.882	(1.020)	84	12108	0.10000	0.1254	70.00- 130.00	100.00		
13.882	13.882	(1.020)	56	19100			127.75- 187.75	157.75		
13.851	13.851	(1.018)	41	7677			33.40- 93.40	63.40		
-----										
44	Carbon Tetrachloride					CAS #: 56-23-5				
14.036	14.036	(1.032)	119	14710	0.10000	0.1198	70.00- 130.00	100.00		
14.036	14.036	(1.032)	117	16108			79.50- 139.50	109.50		
-----										
45	2,2,4-Trimethylpentane					CAS #: 540-84-1				
14.310	14.310	(1.052)	56	14341	0.10000	0.1218	70.00- 130.00	100.00		
14.310	14.310	(1.052)	57	43245			271.55- 331.55	301.55		
14.310	14.310	(1.052)	41	13842			66.52- 126.52	96.52		
-----										
46	Benzene					CAS #: 71-43-2				
14.338	14.338	(0.965)	78	30631	0.10000	0.1474	70.00- 130.00	100.00		
14.338	14.338	(0.965)	77	7064			0.00- 53.06	23.06		
-----										
49	1,2-Dichloroethane					CAS #: 107-06-2				
14.447	14.447	(0.972)	62	16318	0.10000	0.1217	70.00- 130.00	100.00		
14.447	14.447	(0.972)	64	5248			2.16- 62.16	32.16		
-----										
50	Heptane					CAS #: 142-82-5				
14.530	14.530	(0.978)	57	9648	0.10000	0.1248	70.00- 130.00	100.00		
14.530	14.530	(0.978)	100	2874			0.00- 59.79	29.79		
14.530	14.530	(0.978)	43	18423			160.95- 220.95	190.95		
-----										
53	Trichloroethene					CAS #: 79-01-6				
15.216	15.216	(1.024)	130	11914	0.10000	0.1327	70.00- 130.00	100.00		
15.216	15.216	(1.024)	95	12821			77.61- 137.61	107.61		
15.216	15.216	(1.024)	97	7919			36.47- 96.47	66.47		
-----										
54	1,2-Dichloropropane					CAS #: 78-87-5				
15.600	15.600	(1.050)	63	10188	0.10000	0.1185	70.00- 130.00	100.00		
15.600	15.600	(1.050)	62	6553			34.32- 94.32	64.32		
15.600	15.600	(1.050)	41	9885			67.03- 127.03	97.03		
-----										
55	1,4-Dioxane					CAS #: 123-91-1				
15.737	15.737	(1.059)	88	8887	0.10000	0.1573	70.00- 130.00	100.00		
15.737	15.737	(1.059)	58	6288			40.76- 100.76	70.76		
15.710	15.710	(1.057)	57	1925			0.00- 51.66	21.66		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
56 Bromodichloromethane						CAS #:	75-27-4		
15.985	15.985	(1.076)	83	19248	0.10000	0.1167	70.00-	130.00	100.00
15.985	15.985	(1.076)	85	12920			37.12-	97.12	67.12
-----									
57 cis-1,3-Dichloropropene						CAS #:	10061-01-5		
16.702	16.702	(1.124)	75	12141	0.10000	0.1023	70.00-	130.00	100.00
16.702	16.702	(1.124)	77	3945			2.49-	62.49	32.49
16.702	16.702	(1.124)	39	9880			51.38-	111.38	81.38
-----									
58 4-Methyl-2-pentanone						CAS #:	108-10-1		
16.859	16.859	(1.135)	43	17641	0.10000	0.09870	70.00-	130.00	100.00(a)
16.881	16.881	(1.136)	58	6070			4.41-	64.41	34.41
16.881	16.881	(1.136)	85	3304			0.00-	48.73	18.73
-----									
60 Toluene						CAS #:	108-88-3		
17.150	17.150	(1.154)	91	31508	0.10000	0.1286	70.00-	130.00	100.00
17.150	17.150	(1.154)	92	18713			29.39-	89.39	59.39
-----									
61 trans-1,3-Dichloropropene						CAS #:	10061-02-6		
17.553	17.553	(0.919)	75	16102	0.10000	0.1101	70.00-	130.00	100.00
17.531	17.531	(0.918)	77	5611			4.85-	64.85	34.85
17.531	17.531	(0.918)	39	9126			26.68-	86.68	56.68
-----									
62 1,1,2-Trichloroethane						CAS #:	79-00-5		
17.818	17.818	(0.933)	97	11275	0.10000	0.1147	70.00-	130.00	100.00
17.818	17.818	(0.933)	99	8264			43.29-	103.29	73.29
17.818	17.818	(0.933)	83	9983			58.54-	118.54	88.54
-----									
63 Tetrachloroethene						CAS #:	127-18-4		
17.934	17.934	(0.939)	166	14794	0.10000	0.1138	70.00-	130.00	100.00
17.905	17.905	(0.938)	129	12708			55.90-	115.90	85.90
17.934	17.934	(0.939)	131	11865			50.20-	110.20	80.20
-----									
66 Dibromochloromethane						CAS #:	124-48-1		
18.343	18.343	(0.961)	129	16333	0.10000	0.1043	70.00-	130.00	100.00
18.343	18.343	(0.961)	127	14159			56.69-	116.69	86.69
-----									
67 1,2-Dibromoethane						CAS #:	106-93-4		
18.547	18.547	(0.971)	107	19941	0.10000	0.1180	70.00-	130.00	100.00
18.547	18.547	(0.971)	109	18542			62.98-	122.98	92.98
-----									
69 Chlorobenzene						CAS #:	108-90-7		
19.141	19.141	(1.003)	112	36335	0.10000	0.1308	70.00-	130.00	100.00
19.141	19.141	(1.003)	114	12679			4.89-	64.89	34.89
19.141	19.141	(1.003)	77	52836			115.41-	175.41	145.41
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
70 Ethyl Benzene									
						CAS #: 100-41-4			
19.213	19.213	(1.006)	106	19375	0.10000	0.1231	70.00- 130.00	100.00	
19.213	19.213	(1.006)	91	55612			257.03- 317.03	287.03	
-----									
71 m,p-Xylene									
						CAS #: 108-38-3			
19.358	19.358	(1.014)	106	23457	0.10000	0.1177	70.00- 130.00	100.00	
19.358	19.358	(1.014)	91	48059			174.88- 234.88	204.88	
-----									
72 o-Xylene									
						CAS #: 95-47-6			
19.888	19.888	(1.042)	106	23297	0.10000	0.1164	70.00- 130.00	100.00	
19.888	19.888	(1.042)	91	50190			185.44- 245.44	215.44	
-----									
73 Styrene									
						CAS #: 100-42-5			
19.912	19.912	(1.043)	104	29622	0.10000	0.09696	70.00- 130.00	100.00(a)	
19.912	19.912	(1.043)	78	21704			43.27- 103.27	73.27	
-----									
75 Bromoform									
						CAS #: 75-25-2			
20.201	20.201	(1.058)	173	14404	0.10000	0.08957	70.00- 130.00	100.00(a)	
20.201	20.201	(1.058)	171	6613			15.91- 75.91	45.91	
-----									
76 Cumene									
						CAS #: 98-82-8			
20.297	20.297	(1.063)	105	62939	0.10000	0.1101	70.00- 130.00	100.00	
20.297	20.297	(1.063)	120	19093			0.34- 60.34	30.34	
-----									
79 1,1,2,2-Tetrachloroethane									
						CAS #: 79-34-5			
20.729	20.729	(1.086)	83	38642	0.10000	0.1145	70.00- 130.00	100.00	
20.729	20.729	(1.086)	85	24100			32.37- 92.37	62.37	
-----									
80 Propylbenzene									
						CAS #: 103-65-1			
20.780	20.780	(1.088)	91	82654	0.10000	0.1110	70.00- 130.00	100.00	
20.806	20.806	(1.090)	120	18251			0.00- 52.08	22.08	
-----									
82 4-Ethyltoluene									
						CAS #: 622-96-8			
20.909	20.909	(1.095)	105	77187	0.10000	0.1073	70.00- 130.00	100.00	
20.909	20.909	(1.095)	120	25008			2.40- 62.40	32.40	
-----									
83 1,3,5-Trimethylbenzene									
						CAS #: 108-67-8			
20.987	20.987	(1.099)	105	63862	0.10000	0.1157	70.00- 130.00	100.00	
20.987	20.987	(1.099)	120	29260			15.82- 75.82	45.82	
-----									
85 1,2,4-Trimethylbenzene									
						CAS #: 95-63-6			
21.425	21.425	(1.122)	105	57495	0.10000	0.1030	70.00- 130.00	100.00	
21.425	21.425	(1.122)	120	28271			19.17- 79.17	49.17	
-----									
88 1,3-Dichlorobenzene									
						CAS #: 541-73-1			
21.812	21.812	(1.142)	146	38280	0.10000	0.1030	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
88 1,3-Dichlorobenzene (continued)									
21.812	21.812	(1.142)	148	25106			35.59- 95.59	65.59	
21.812	21.812	(1.142)	111	18956			19.52- 79.52	49.52	
-----									
89 1,4-Dichlorobenzene									
						CAS #: 106-46-7			
21.915	21.915	(1.148)	146	38158	0.10000	0.1010	70.00- 130.00	100.00	
21.915	21.915	(1.148)	148	27068			40.94- 100.94	70.94	
21.915	21.915	(1.148)	111	19251			20.45- 80.45	50.45	
-----									
90 alpha-chlorotoluene									
						CAS #: 100-44-7			
22.070	22.070	(1.156)	91	31057	0.10000	0.06989	70.00- 130.00	100.00(a)	
22.070	22.070	(1.156)	126	9189			0.00- 59.59	29.59	
-----									
93 1,2-Dichlorobenzene									
						CAS #: 95-50-1			
22.353	22.353	(1.171)	146	35910	0.10000	0.1022	70.00- 130.00	100.00	
22.353	22.353	(1.171)	148	27976			47.91- 107.91	77.91	
22.353	22.353	(1.171)	111	16516			15.99- 75.99	45.99	
-----									

QC Flag Legend

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

Report Date: 25-Apr-2008 07:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042225.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 5

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 2.0ppbv -&gt; 0.10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	370894	-8.90
52 1,4-Difluorobenze	1616499	969899	2263099	1470525	-9.03
68 Chlorobenzene-d5	2038617	1223170	2854064	1879394	-7.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 23-APR-2008 11:45

Client ID: Level 5

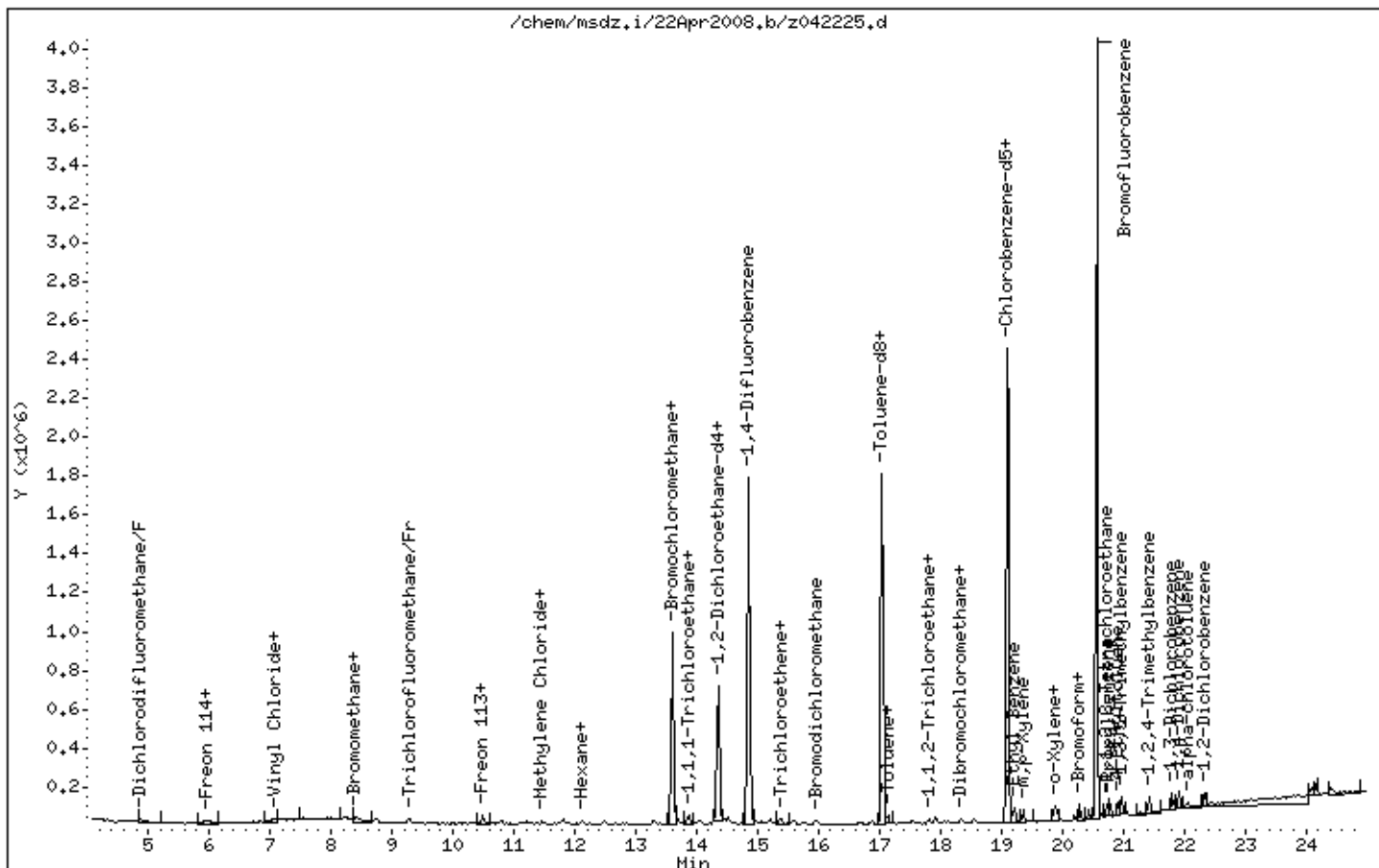
Instrument: msdz,i

Sample Info: 25mL #1541-111;ICAL;Level 5

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32



Report Date: 09-May-2008 11:26

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042904.d  
 Lab Smp Id: ICAL Client Smp ID: Level 6  
 Inj Date : 29-APR-2008 11:21  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 125mL #1541-116  
 Misc Info : 2.0ppbv -> 0.5ppbv  
 Comment :  
 Method : /chem/msdz.i/29Apr2008.b/t1410422R1.m  
 Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD  
 Cal Date : 29-APR-2008 11:21 Cal File: z042904.d  
 Als bottle: 1 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp4b.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
==	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5								
13.605	13.605	(1.000)	130	301669	10.0000		70.00- 130.00	100.00
13.605	13.605	(1.000)	128	234048			0.00- 30.00	77.58
13.605	13.605	(1.000)	49	480418			0.00- 30.00	159.25
-----								
* 52 1,4-Difluorobenzene CAS #: 540-36-3								
14.859	14.859	(1.000)	114	1063156	10.0000		70.00- 130.00	100.00
14.859	14.859	(1.000)	88	227529			0.00- 30.00	21.40
-----								
* 68 Chlorobenzene-d5 CAS #: 3114-55-4								
19.117	19.117	(1.000)	117	1350964	10.0000		70.00- 130.00	100.00
19.093	19.093	(1.000)	82	883411			0.00- 30.00	65.39
-----								
12 Vinyl Bromide CAS #: 593-60-2								
9.130	9.130	(0.671)	106	22867	0.50000	0.5000	70.00- 130.00	100.00
9.130	9.130	(0.671)	108	22734			0.00- 30.00	99.42
-----								
24 Acetonitrile CAS #: 75-05-8								
11.361	11.361	(0.835)	40	19840	0.50000	0.5000	70.00- 130.00	100.00
11.361	11.361	(0.835)	41	47163			0.00- 30.00	237.72

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
24 Acetonitrile (continued)									
11.388	11.388	(0.837)	39	25978			0.00- 30.00	130.94	
-----									
29 Acrylonitrile									
						CAS #: 107-13-1			
11.965	11.965	(0.879)	53	15326	0.50000	0.5000	70.00- 130.00	100.00	
11.965	11.965	(0.879)	52	16642			0.00- 30.00	108.59	
-----									
34 Chlorprene									
						CAS #: 126-99-8			
12.569	12.569	(0.924)	53	28444	0.50000	0.5000	70.00- 130.00	100.00	
12.569	12.569	(0.924)	88	10130			0.00- 30.00	35.61	
-----									



Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 29-APR-2008

Lab File ID: z042904.d

Calibration Time: 13:01

Lab Smp Id: ICAL

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/29Apr2008.b/t1410422R1.m

Misc Info: 2.0ppbv -&gt; 0.5ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	327424	196454	458394	301669	-7.87
52 1,4-Difluorobenze	1205511	723307	1687715	1063156	-11.81
68 Chlorobenzene-d5	1420624	852374	1988874	1350964	-4.90

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 29-APR-2008 11:21

Client ID: Level 6

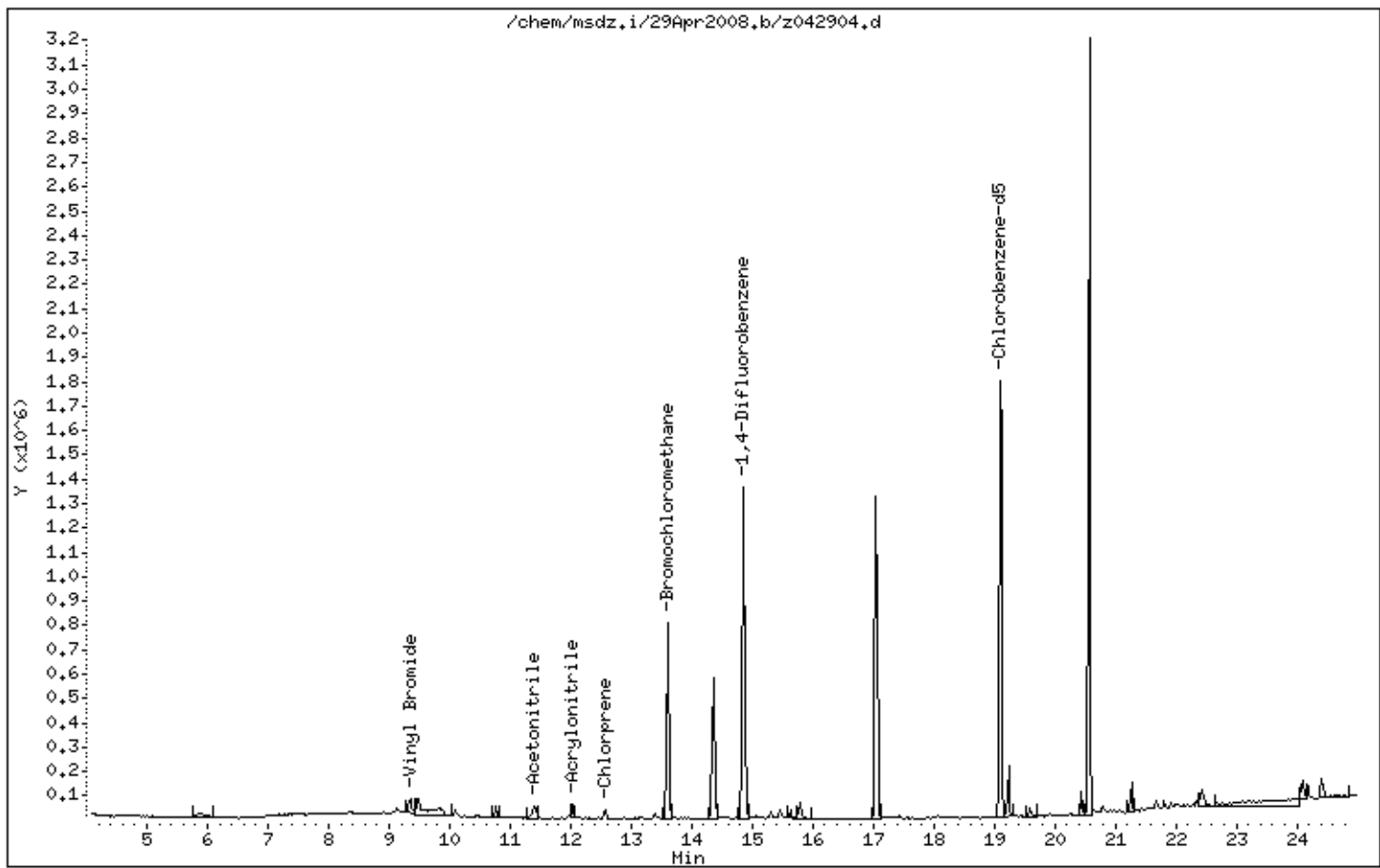
Instrument: msdz,i

Sample Info: 125mL #1541-116

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32



Report Date: 25-Apr-2008 07:36

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042216.d  
 Lab Smp Id: ICAL Client Smp ID: Level 6  
 Inj Date : 22-APR-2008 19:38  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 125mL #1541-111  
 Misc Info : 2.0ppbv -> 0.50ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 19:38 Cal File: z042216.d  
 Als bottle: 1 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	364636	10.0000		70.00- 130.00	100.00	
13.605	13.605	(1.000)	128	288442			0.00- 30.00	79.10	
13.605	13.605	(1.000)	49	593576			0.00- 30.00	162.79	
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1460612	10.0000		70.00- 130.00	100.00	
14.859	14.859	(1.000)	88	320654			0.00- 30.00	21.95	
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	1904107	10.0000		70.00- 130.00	100.00	
19.093	19.093	(1.000)	82	1265539			0.00- 30.00	66.46	
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	769811	10.0000	9.780	70.00- 130.00	100.00	
14.365	14.365	(1.056)	67	362756			0.00- 30.00	47.12	
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1560694	10.0000	10.220	70.00- 130.00	100.00	
17.038	17.038	(1.147)	70	249902			0.00- 30.00	16.01	

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 59 Toluene-d8 (continued)										
17.038	17.038	(1.147)	100	1052652			37.57- 97.57	67.45		
-----										
\$ 77 Bromofluorobenzene										
						CAS #: 460-00-4				
20.574	20.574	(1.078)	174	1473375	10.0000	10.281	70.00- 130.00	100.00		
20.574	20.574	(1.078)	95	1983242			103.94- 163.94	134.61		
20.574	20.574	(1.078)	176	1415357			66.39- 126.39	96.06		
-----										
1 Propylene						CAS #: 115-07-1				
4.497	4.497	(0.331)	41	34875	0.50000	0.4807	70.00- 130.00	100.00(a)		
4.521	4.521	(0.332)	42	18965			0.00- 30.00	54.38		
4.497	4.497	(0.331)	39	14847			0.00- 30.00	42.57		
-----										
3 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8				
4.883	4.883	(0.359)	85	171944	0.50000	0.5865	70.00- 130.00	100.00		
4.883	4.883	(0.359)	87	62498			5.02- 65.02	36.35		
-----										
4 Freon 114						CAS #: 76-14-2				
5.967	5.967	(0.439)	135	85982	0.50000	0.5854	70.00- 130.00	100.00		
5.991	5.991	(0.440)	137	30524			0.00- 30.00	35.50		
-----										
5 Chloromethane						CAS #: 74-87-3				
6.184	6.184	(0.455)	50	46797	0.50000	0.5263	70.00- 130.00	100.00		
6.184	6.184	(0.455)	52	17354			0.00- 30.00	37.08		
-----										
6 Vinyl Chloride						CAS #: 75-01-4				
6.841	6.841	(0.503)	62	53034	0.50000	0.5966	70.00- 130.00	100.00		
6.823	6.823	(0.502)	64	17903			4.56- 64.56	33.76		
-----										
7 1,3-Butadiene						CAS #: 106-99-0				
7.014	7.014	(0.516)	54	29433	0.50000	0.4646	70.00- 130.00	100.00(a)		
7.032	7.032	(0.517)	39	40563			0.00- 30.00	137.81		
-----										
9 Bromomethane						CAS #: 74-83-9				
8.198	8.198	(0.603)	94	41617	0.50000	0.5973	70.00- 130.00	100.00		
8.198	8.198	(0.603)	96	34715			62.26- 122.26	83.42		
-----										
10 Chloroethane						CAS #: 75-00-3				
8.612	8.612	(0.633)	64	21473	0.50000	0.5379	70.00- 130.00	100.00		
8.612	8.612	(0.633)	49	7036			0.00- 30.00	32.77		
8.612	8.612	(0.633)	66	9048			0.00- 30.00	42.14		
-----										
13 Trichlorofluoromethane/Fr11						CAS #: 75-69-4				
9.296	9.296	(0.683)	101	101690	0.50000	0.5505	70.00- 130.00	100.00		
9.296	9.296	(0.683)	103	72105			36.19- 96.19	70.91		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol						CAS #: 64-17-5			
10.166	10.166	(0.747)	45	15816	0.50000	0.6574	70.00- 130.00	100.00	
10.146	10.146	(0.746)	43	5463			0.00- 30.00	34.54	
10.166	10.166	(0.747)	46	9305			0.00- 30.00	58.83	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	58711	0.50000	0.5825	70.00- 130.00	100.00	
10.498	10.498	(0.772)	153	37286			35.16- 95.16	63.51	
10.498	10.498	(0.772)	101	72246			0.00- 30.00	123.05	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	22834	0.50000	0.5674	70.00- 130.00	100.00	
10.477	10.477	(0.770)	61	67644			0.00- 30.00	296.24	
10.498	10.498	(0.772)	96	32634			0.00- 30.00	142.92	
-----									
20 Acetone						CAS #: 67-64-1			
10.767	10.767	(0.791)	58	24736	0.50000	0.7021	70.00- 130.00	100.00	
10.767	10.767	(0.791)	43	82707			0.00- 30.00	334.36	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	14696	0.50000	0.5124	70.00- 130.00	100.00	
11.223	11.223	(0.825)	41	48039			0.00- 30.00	326.88	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.120	11.120	(0.817)	45	69916	0.50000	0.5844	70.00- 130.00	100.00	
11.120	11.120	(0.817)	43	18449			0.00- 30.00	26.39	
11.120	11.120	(0.817)	59	2882			0.00- 30.00	4.12	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	90376	0.50000	0.5547	70.00- 130.00	100.00	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.470	(0.843)	84	28154	0.50000	0.5105	70.00- 130.00	100.00	
11.470	11.470	(0.843)	49	42957			0.00- 30.00	152.58	
11.470	11.470	(0.843)	51	14320			0.00- 30.00	50.86	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	106275	0.50000	0.6087	70.00- 130.00	100.00	
11.800	11.800	(0.867)	57	26817			0.00- 30.00	25.23	
11.800	11.800	(0.867)	41	28326			0.00- 30.00	26.65	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	25198	0.50000	0.5825	70.00- 130.00	100.00	
11.827	11.827	(0.869)	61	62405			0.00- 30.00	247.66	
11.827	11.827	(0.869)	96	35874			0.00- 30.00	142.37	
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AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
30 Hexane						CAS #:	110-54-3			
12.129	12.129	(0.892)	57	61954	0.50000	0.5968	70.00- 130.00	100.00		
12.129	12.129	(0.892)	43	35230			0.00- 30.00	56.86		
12.129	12.129	(0.892)	86	10786			0.00- 30.00	17.41		
-----										
31 1,1-Dichloroethane						CAS #:	75-34-3			
12.486	12.486	(0.918)	63	65986	0.50000	0.5452	70.00- 130.00	100.00		
12.486	12.486	(0.918)	65	21106			0.00- 30.00	31.99		
-----										
33 Vinyl Acetate						CAS #:	108-05-4			
12.541	12.541	(0.922)	43	58623	0.50000	0.4724	70.00- 130.00	100.00(a)		
12.541	12.541	(0.922)	42	7488			0.00- 30.00	12.77		
12.541	12.541	(0.922)	86	6068			0.00- 30.00	10.35		
-----										
37 2-Butanone						CAS #:	78-93-3			
13.305	13.305	(0.978)	72	18143	0.50000	0.5571	70.00- 130.00	100.00		
13.305	13.305	(0.978)	43	76505			0.00- 30.00	421.68		
13.305	13.305	(0.978)	57	7443			0.00- 30.00	41.02		
-----										
36 cis-1,2-Dichloroethene						CAS #:	156-59-2			
13.285	13.285	(0.976)	98	23856	0.50000	0.5646	70.00- 130.00	100.00		
13.285	13.285	(0.976)	61	59339			0.00- 30.00	248.74		
13.285	13.285	(0.976)	96	33959			124.79- 184.79	142.35		
-----										
38 Tetrahydrofuran						CAS #:	109-99-9			
13.605	13.605	(1.000)	42	48385	0.50000	0.6205	70.00- 130.00	100.00		
13.605	13.605	(1.000)	71	19486			0.00- 30.00	40.27		
13.605	13.605	(1.000)	72	22495			0.00- 30.00	46.49		
-----										
40 Chloroform						CAS #:	67-66-3			
13.697	13.697	(1.007)	83	79820	0.50000	0.5420	70.00- 130.00	100.00		
13.697	13.697	(1.007)	85	58084			0.00- 30.00	72.77		
-----										
43 1,1,1-Trichloroethane						CAS #:	71-55-6			
13.882	13.882	(1.020)	97	96150	0.50000	0.5712	70.00- 130.00	100.00		
13.882	13.882	(1.020)	99	64658			0.00- 30.00	67.25		
-----										
42 Cyclohexane						CAS #:	110-82-7			
13.882	13.882	(1.020)	84	56437	0.50000	0.5944	70.00- 130.00	100.00		
13.882	13.882	(1.020)	56	68989			0.00- 30.00	122.24		
13.882	13.882	(1.020)	41	41923			0.00- 30.00	74.28		
-----										
44 Carbon Tetrachloride						CAS #:	56-23-5			
14.067	14.067	(1.034)	119	69474	0.50000	0.5757	70.00- 130.00	100.00		
14.067	14.067	(1.034)	117	73759			0.00- 30.00	106.17		
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AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #:	540-84-1			
14.310	14.310	(1.052)	56	64296	0.50000	0.5555	70.00-	130.00	100.00	
14.310	14.310	(1.052)	57	192037			0.00-	30.00	298.68	
14.310	14.310	(1.052)	41	65868			0.00-	30.00	102.44	
-----										
46	Benzene					CAS #:	71-43-2			
14.338	14.338	(0.965)	78	114720	0.50000	0.5558	70.00-	130.00	100.00	
14.338	14.338	(0.965)	77	31072			0.00-	30.00	27.09	
-----										
49	1,2-Dichloroethane					CAS #:	107-06-2			
14.448	14.448	(0.972)	62	73919	0.50000	0.5548	70.00-	130.00	100.00	
14.448	14.448	(0.972)	64	25648			0.00-	30.00	34.70	
-----										
50	Heptane					CAS #:	142-82-5			
14.530	14.530	(0.978)	57	43297	0.50000	0.5640	70.00-	130.00	100.00	
14.530	14.530	(0.978)	100	13447			0.00-	30.00	31.06	
14.530	14.530	(0.978)	43	71993			0.00-	30.00	166.28	
-----										
53	Trichloroethene					CAS #:	79-01-6			
15.216	15.216	(1.024)	130	52012	0.50000	0.5832	70.00-	130.00	100.00	
15.216	15.216	(1.024)	95	56753			0.00-	30.00	109.12	
15.216	15.216	(1.024)	97	40175			0.00-	30.00	77.24	
-----										
54	1,2-Dichloropropane					CAS #:	78-87-5			
15.601	15.601	(1.050)	63	48757	0.50000	0.5711	70.00-	130.00	100.00	
15.601	15.601	(1.050)	62	34134			0.00-	30.00	70.01	
15.601	15.601	(1.050)	41	41683			47.90-	107.90	85.49	
-----										
55	1,4-Dioxane					CAS #:	123-91-1			
15.738	15.738	(1.059)	88	31614	0.50000	0.5635	70.00-	130.00	100.00	
15.710	15.710	(1.057)	58	26162			0.00-	30.00	82.75	
15.738	15.738	(1.059)	57	10980			0.00-	30.00	34.73	
-----										
56	Bromodichloromethane					CAS #:	75-27-4			
15.985	15.985	(1.076)	83	89916	0.50000	0.5487	70.00-	130.00	100.00	
15.985	15.985	(1.076)	85	57992			0.00-	30.00	64.50	
-----										
57	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
16.702	16.702	(1.124)	75	62905	0.50000	0.5337	70.00-	130.00	100.00	
16.702	16.702	(1.124)	77	20277			0.00-	30.00	32.23	
16.702	16.702	(1.124)	39	42622			37.73-	97.73	67.76	
-----										
58	4-Methyl-2-pentanone					CAS #:	108-10-1			
16.859	16.859	(1.135)	43	93846	0.50000	0.5286	70.00-	130.00	100.00	
16.859	16.859	(1.135)	58	38218			0.00-	30.00	40.72	
16.859	16.859	(1.135)	85	18585			0.00-	30.00	19.80	
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AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
60 Toluene						CAS #:	108-88-3			
17.151	17.151	(1.154)	91	138230	0.50000	0.5681	70.00-	130.00	100.00	
17.151	17.151	(1.154)	92	80237			0.00-	30.00	58.05	
-----										
61 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
17.531	17.531	(0.918)	75	82373	0.50000	0.5561	70.00-	130.00	100.00	
17.531	17.531	(0.918)	77	26731			0.00-	30.00	32.45	
17.531	17.531	(0.918)	39	44039			29.55-	89.55	53.46	
-----										
62 1,1,2-Trichloroethane						CAS #:	79-00-5			
17.818	17.818	(0.933)	97	55902	0.50000	0.5612	70.00-	130.00	100.00	
17.818	17.818	(0.933)	99	33824			0.00-	30.00	60.51	
17.818	17.818	(0.933)	83	46911			56.32-	116.32	83.92	
-----										
63 Tetrachloroethene						CAS #:	127-18-4			
17.935	17.935	(0.939)	166	73015	0.50000	0.5542	70.00-	130.00	100.00	
17.935	17.935	(0.939)	129	55119			0.00-	30.00	75.49	
17.906	17.906	(0.938)	131	56912			43.64-	103.64	77.95	
-----										
64 2-Hexanone						CAS #:	591-78-6			
18.081	18.081	(0.947)	58	66298	0.50000	0.5390	70.00-	130.00	100.00	
18.081	18.081	(0.947)	43	117291			0.00-	30.00	176.91	
18.081	18.081	(0.947)	100	14169			0.00-	30.00	21.37	
-----										
66 Dibromochloromethane						CAS #:	124-48-1			
18.343	18.343	(0.961)	129	83770	0.50000	0.5280	70.00-	130.00	100.00	
18.343	18.343	(0.961)	127	62983			0.00-	30.00	75.19	
-----										
67 1,2-Dibromoethane						CAS #:	106-93-4			
18.547	18.547	(0.971)	107	91913	0.50000	0.5369	70.00-	130.00	100.00	
18.547	18.547	(0.971)	109	87887			0.00-	30.00	95.62	
-----										
69 Chlorobenzene						CAS #:	108-90-7			
19.141	19.141	(1.003)	112	156404	0.50000	0.5560	70.00-	130.00	100.00	
19.141	19.141	(1.003)	114	54799			0.00-	30.00	35.04	
19.141	19.141	(1.003)	77	137741			43.25-	103.25	88.07	
-----										
70 Ethyl Benzene						CAS #:	100-41-4			
19.214	19.214	(1.006)	106	86938	0.50000	0.5451	70.00-	130.00	100.00	
19.214	19.214	(1.006)	91	273372			0.00-	30.00	314.44	
-----										
71 m,p-Xylene						CAS #:	108-38-3			
19.358	19.358	(1.014)	106	113627	0.50000	0.5627	70.00-	130.00	100.00	
19.358	19.358	(1.014)	91	228273			0.00-	30.00	200.90	
-----										
72 o-Xylene						CAS #:	95-47-6			
19.888	19.888	(1.042)	106	112820	0.50000	0.5563	70.00-	130.00	100.00	



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	241688			0.00- 30.00	214.22	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	172664	0.50000	0.5578	70.00- 130.00	100.00	
19.912	19.912	(1.043)	78	100015			0.00- 30.00	57.92	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	80329	0.50000	0.4930	70.00- 130.00	100.00(a)	
20.201	20.201	(1.058)	171	42045			0.00- 30.00	52.34	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	337375	0.50000	0.5823	70.00- 130.00	100.00	
20.298	20.298	(1.063)	120	92995			0.00- 30.00	27.56	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	196150	0.50000	0.5735	70.00- 130.00	100.00	
20.729	20.729	(1.086)	85	124057			0.00- 30.00	63.25	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	415563	0.50000	0.5509	70.00- 130.00	100.00	
20.781	20.781	(1.088)	120	107691			0.00- 30.00	25.91	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	405209	0.50000	0.5561	70.00- 130.00	100.00	
20.910	20.910	(1.095)	120	133117			0.00- 30.00	32.85	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	316042	0.50000	0.5652	70.00- 130.00	100.00	
20.987	20.987	(1.099)	120	156707			0.00- 30.00	49.58	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	327713	0.50000	0.5795	70.00- 130.00	100.00	
21.425	21.425	(1.122)	120	156386			0.00- 30.00	47.72	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	212932	0.50000	0.5656	70.00- 130.00	100.00	
21.812	21.812	(1.142)	148	139479			0.00- 30.00	65.50	
21.812	21.812	(1.142)	111	98559			0.00- 30.00	46.29	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	219267	0.50000	0.5730	70.00- 130.00	100.00	
21.915	21.915	(1.148)	148	142710			0.00- 30.00	65.09	
21.915	21.915	(1.148)	111	96559			0.00- 30.00	44.04	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	224976	0.50000	0.4997	70.00- 130.00	100.00(a)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.070	22.070	(1.156)	126	46129			0.00- 30.00	20.50	
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93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	202465	0.50000	0.5689	70.00- 130.00	100.00	
22.354	22.354	(1.171)	148	125398			35.51- 95.51	61.94	
22.354	22.354	(1.171)	111	103291			17.92- 77.92	51.02	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	136704	0.50000	0.5842	70.00- 130.00	100.00	
24.107	24.107	(1.263)	182	125124			0.00- 30.00	91.53	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	120569	0.50000	0.5919	70.00- 130.00	100.00	
24.184	24.184	(1.267)	223	78269			0.00- 30.00	64.92	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.279)	128	222272	0.50000	0.5352	70.00- 130.00	100.00	
24.416	24.416	(1.279)	127	32598			0.00- 30.00	14.67	
-----									
179 Butane CAS #: 106-97-8									
6.737	6.737	(0.495)	58	12695	0.50000	0.6548	70.00- 130.00	100.00	
6.737	6.737	(0.495)	43	74308			0.00- 30.00	585.33	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	37857	0.50000	0.6112	70.00- 130.00	100.00	
8.736	8.736	(0.642)	43	52630			0.00- 30.00	139.02	
8.736	8.736	(0.642)	42	43876			0.00- 30.00	115.90	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	73979	0.50000	0.5852	70.00- 130.00	100.00	
15.408	15.408	(1.133)	98	38905			0.00- 30.00	52.59	
15.408	15.408	(1.133)	55	73260			0.00- 30.00	99.03	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.718	11.718	(0.861)	59	88988	0.50000	0.6009	70.00- 130.00	100.00	
11.718	11.718	(0.861)	41	27710			0.00- 30.00	31.14	
11.718	11.718	(0.861)	57	15755			0.00- 30.00	17.70	
-----									

QC Flag Legend

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

Report Date: 25-Apr-2008 07:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042216.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 6

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 2.0ppbv -&gt; 0.50ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	364636	-10.44
52 1,4-Difluorobenze	1616499	969899	2263099	1460612	-9.64
68 Chlorobenzene-d5	2038617	1223170	2854064	1904107	-6.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 19:38

Client ID: Level 6

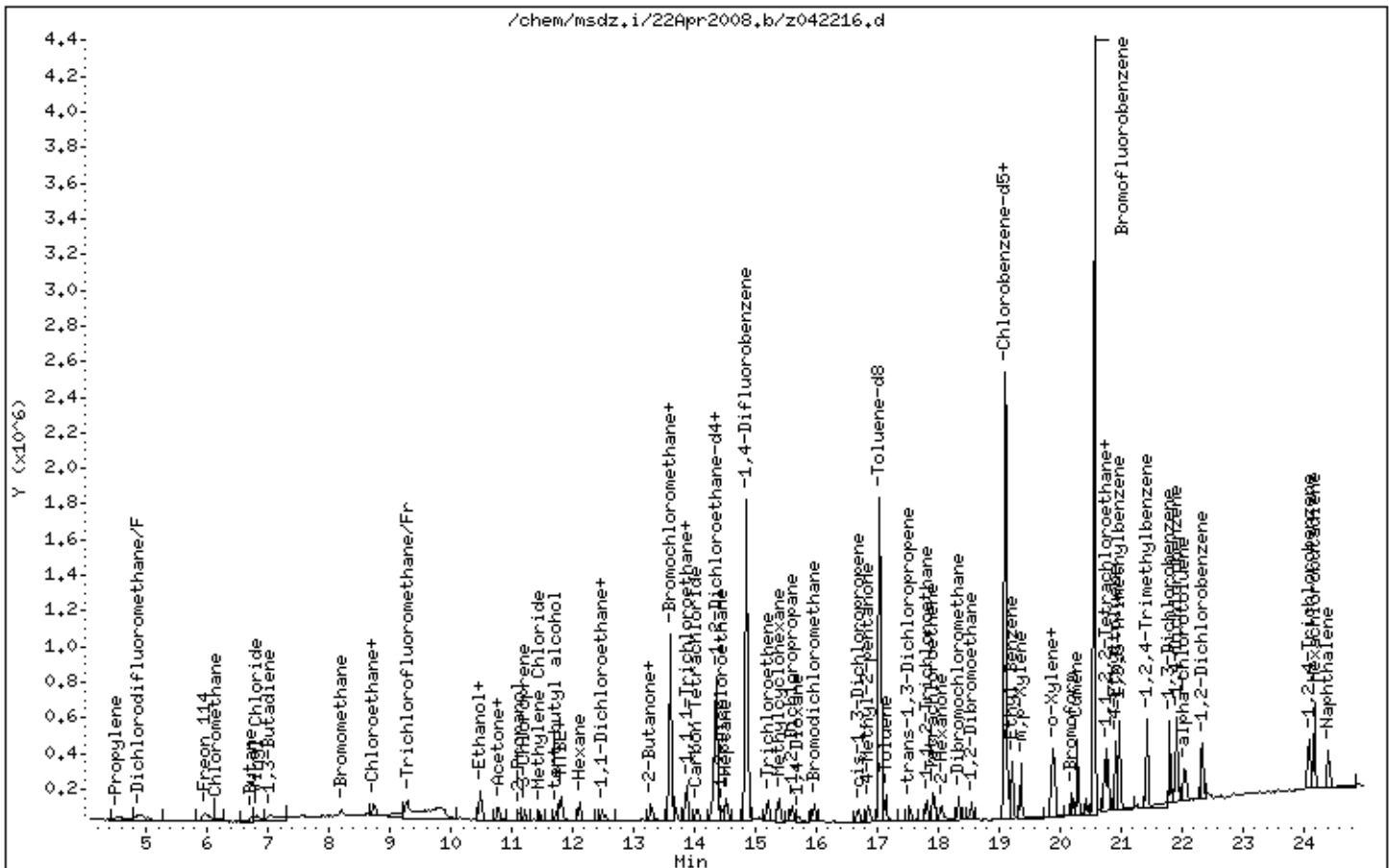
Instrument: msdz.i

Sample Info: 125mL #1541-111

Operator: ACT

Column phase: RTX-624

Column diameter: 0.32



Report Date: 09-May-2008 11:26

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042905.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 29-APR-2008 12:17  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 500mL #1541-116  
 Misc Info : 2.0ppbv -> 2.0ppbv  
 Comment :  
 Method : /chem/msdz.i/29Apr2008.b/t1410422R1.m  
 Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD  
 Cal Date : 29-APR-2008 12:17 Cal File: z042905.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp4b.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
==	=====	=====	=====	=====	=====	=====	=====	=====
-----								
* 39	Bromochloromethane					CAS #:	74-97-5	
13.605	13.605	(1.000)	130	305530	10.0000		70.00- 130.00	100.00
13.605	13.605	(1.000)	128	245839			0.00- 30.00	80.46
13.605	13.605	(1.000)	49	493499			0.00- 30.00	161.52
-----								
* 52	1,4-Difluorobenzene					CAS #:	540-36-3	
14.859	14.859	(1.000)	114	1114642	10.0000		70.00- 130.00	100.00
14.859	14.859	(1.000)	88	223447			0.00- 30.00	20.05
-----								
* 68	Chlorobenzene-d5					CAS #:	3114-55-4	
19.117	19.117	(1.000)	117	1377765	10.0000		70.00- 130.00	100.00
19.093	19.093	(1.000)	82	907283			0.00- 30.00	65.85
-----								
12	Vinyl Bromide					CAS #:	593-60-2	
9.130	9.130	(0.671)	106	81898	2.00000	1.877	70.00- 130.00	100.00
9.130	9.130	(0.671)	108	79662			0.00- 30.00	97.27
-----								
24	Acetonitrile					CAS #:	75-05-8	
11.333	11.333	(0.833)	40	76106	2.00000	1.945	70.00- 130.00	100.00
11.333	11.333	(0.833)	41	88138			0.00- 30.00	115.81

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
24 Acetonitrile (continued)									
11.388	11.388	(0.837)	39	83230			0.00- 30.00	109.36	
-----									
29 Acrylonitrile									
						CAS #: 107-13-1			
11.937	11.937	(0.877)	53	68912	2.00000	2.104	70.00- 130.00	100.00	
11.937	11.937	(0.877)	52	67928			0.00- 30.00	98.57	
-----									
34 Chlorprene									
						CAS #: 126-99-8			
12.569	12.569	(0.924)	53	111111	2.00000	1.964	70.00- 130.00	100.00	
12.569	12.569	(0.924)	88	47618			0.00- 30.00	42.86	
-----									

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 29-APR-2008

Lab File ID: z042905.d

Calibration Time: 13:01

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/29Apr2008.b/t1410422R1.m

Misc Info: 2.0ppbv -&gt; 2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	327424	196454	458394	305530	-6.69
52 1,4-Difluorobenze	1205511	723307	1687715	1114642	-7.54
68 Chlorobenzene-d5	1420624	852374	1988874	1377765	-3.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 29-APR-2008 12:17

Client ID: Level 7

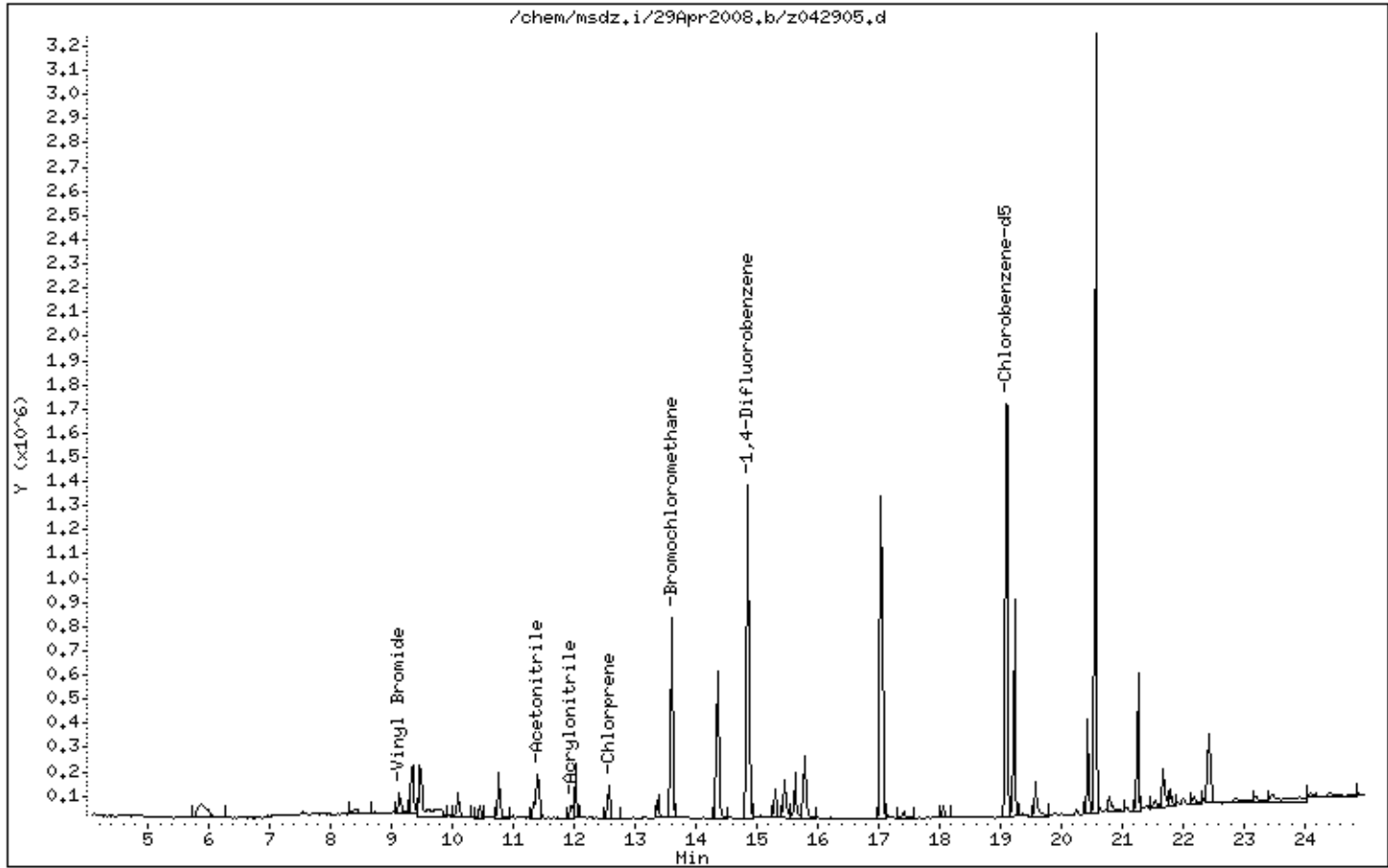
Instrument: msdz,i

Sample Info: 500mL #1541-116

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32





Report Date: 25-Apr-2008 07:36

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042217.d  
 Lab Smp Id: ICAL Client Smp ID: Level 7  
 Inj Date : 22-APR-2008 20:39  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 500mL #1541-111  
 Misc Info : 2.0ppbv -> 2.0ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 20:39 Cal File: z042217.d  
 Als bottle: 1 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	384475	10.0000			70.00- 130.00	100.00
13.605	13.605	(1.000)	128	297268				0.00- 30.00	77.32
13.605	13.605	(1.000)	49	643136				0.00- 30.00	167.28
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.860	14.860	(1.000)	114	1513184	10.0000			70.00- 130.00	100.00
14.860	14.860	(1.000)	88	326777				0.00- 30.00	21.60
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	1831918	10.0000			70.00- 130.00	100.00
19.093	19.093	(1.000)	82	1224283				0.00- 30.00	66.83
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	806493	10.0000	9.717		70.00- 130.00	100.00
14.365	14.365	(1.056)	67	399131				0.00- 30.00	49.49
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.039	17.039	(1.147)	98	1521654	10.0000	9.618		70.00- 130.00	100.00
17.039	17.039	(1.147)	70	241138				0.00- 30.00	15.85

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 59 Toluene-d8 (continued)										
17.039	17.039	(1.147)	100	1029138			37.57- 97.57	67.63		
-----										
\$ 77 Bromofluorobenzene										
						CAS #:	460-00-4			
20.575	20.575	(1.078)	174	1416871	10.0000	10.277	70.00- 130.00	100.00		
20.575	20.575	(1.078)	95	1887367			103.94- 163.94	133.21		
20.575	20.575	(1.078)	176	1344946			66.39- 126.39	94.92		
-----										
1 Propylene										
						CAS #:	115-07-1			
4.521	4.521	(0.332)	41	164970	2.00000	2.157	70.00- 130.00	100.00		
4.521	4.521	(0.332)	42	118901			0.00- 30.00	72.07		
4.521	4.521	(0.332)	39	146659			0.00- 30.00	88.90		
-----										
3 Dichlorodifluoromethane/Fr12										
						CAS #:	75-71-8			
4.907	4.907	(0.361)	85	596240	2.00000	1.929	70.00- 130.00	100.00		
4.883	4.883	(0.359)	87	209234			5.02- 65.02	35.09		
-----										
4 Freon 114										
						CAS #:	76-14-2			
5.967	5.967	(0.439)	135	321118	2.00000	2.073	70.00- 130.00	100.00		
5.992	5.992	(0.440)	137	112721			0.00- 30.00	35.10		
-----										
5 Chloromethane										
						CAS #:	74-87-3			
6.184	6.184	(0.455)	50	180208	2.00000	1.922	70.00- 130.00	100.00		
6.184	6.184	(0.455)	52	64551			0.00- 30.00	35.82		
-----										
6 Vinyl Chloride										
						CAS #:	75-01-4			
6.841	6.841	(0.503)	62	195963	2.00000	2.091	70.00- 130.00	100.00		
6.824	6.824	(0.502)	64	70650			4.56- 64.56	36.05		
-----										
7 1,3-Butadiene										
						CAS #:	106-99-0			
7.014	7.014	(0.516)	54	136202	2.00000	2.039	70.00- 130.00	100.00		
7.014	7.014	(0.516)	39	143045			0.00- 30.00	105.02		
-----										
9 Bromomethane										
						CAS #:	74-83-9			
8.198	8.198	(0.603)	94	143070	2.00000	1.947	70.00- 130.00	100.00		
8.198	8.198	(0.603)	96	133887			62.26- 122.26	93.58		
-----										
10 Chloroethane										
						CAS #:	75-00-3			
8.612	8.612	(0.633)	64	86786	2.00000	2.062	70.00- 130.00	100.00		
8.612	8.612	(0.633)	49	27170			0.00- 30.00	31.31		
8.612	8.612	(0.633)	66	29395			0.00- 30.00	33.87		
-----										
13 Trichlorofluoromethane/Fr11										
						CAS #:	75-69-4			
9.296	9.296	(0.683)	101	407652	2.00000	2.093	70.00- 130.00	100.00		
9.296	9.296	(0.683)	103	265567			36.19- 96.19	65.15		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
14 Ethanol						CAS #:	64-17-5			
10.146	10.146	(0.746)	45	57312	2.00000	2.259	70.00-	130.00	100.00	
10.146	10.146	(0.746)	43	19148			0.00-	30.00	33.41	
10.166	10.166	(0.747)	46	25943			0.00-	30.00	45.27	
-----										
17 Freon 113						CAS #:	76-13-1			
10.498	10.498	(0.772)	151	228254	2.00000	2.148	70.00-	130.00	100.00	
10.498	10.498	(0.772)	153	151607			35.16-	95.16	66.42	
10.498	10.498	(0.772)	101	279410			0.00-	30.00	122.41	
-----										
15 1,1-Dichloroethene						CAS #:	75-35-4			
10.477	10.477	(0.770)	98	85963	2.00000	2.026	70.00-	130.00	100.00	
10.477	10.477	(0.770)	61	255341			0.00-	30.00	297.04	
10.498	10.498	(0.772)	96	125624			0.00-	30.00	146.14	
-----										
20 Acetone						CAS #:	67-64-1			
10.767	10.767	(0.791)	58	84397	2.00000	2.272	70.00-	130.00	100.00	
10.767	10.767	(0.791)	43	309471			0.00-	30.00	366.68	
-----										
22 3-Chloroprene						CAS #:	107-05-1			
11.223	11.223	(0.825)	76	67791	2.00000	2.242	70.00-	130.00	100.00	
11.223	11.223	(0.825)	41	199694			0.00-	30.00	294.57	
-----										
21 2-Propanol						CAS #:	67-63-0			
11.120	11.120	(0.817)	45	277883	2.00000	2.203	70.00-	130.00	100.00	
11.120	11.120	(0.817)	43	66046			0.00-	30.00	23.77	
11.120	11.120	(0.817)	59	12649			0.00-	30.00	4.55	
-----										
19 Carbon Disulfide						CAS #:	75-15-0			
10.788	10.788	(0.793)	76	358905	2.00000	2.089	70.00-	130.00	100.00	
-----										
25 Methylene Chloride						CAS #:	75-09-2			
11.471	11.471	(0.843)	84	117700	2.00000	2.024	70.00-	130.00	100.00	
11.471	11.471	(0.843)	49	168561			0.00-	30.00	143.21	
11.471	11.471	(0.843)	51	54166			0.00-	30.00	46.02	
-----										
27 MTBE						CAS #:	1634-04-4			
11.800	11.800	(0.867)	73	421226	2.00000	2.288	70.00-	130.00	100.00	
11.800	11.800	(0.867)	57	112090			0.00-	30.00	26.61	
11.800	11.800	(0.867)	41	133123			0.00-	30.00	31.60	
-----										
28 trans-1,2-Dichloroethene						CAS #:	156-60-5			
11.827	11.827	(0.869)	98	90922	2.00000	1.993	70.00-	130.00	100.00	
11.827	11.827	(0.869)	61	242752			0.00-	30.00	266.99	
11.827	11.827	(0.869)	96	139089			0.00-	30.00	152.98	
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
30 Hexane						CAS #:	110-54-3			
12.129	12.129	(0.892)	57	230804	2.00000	2.109	70.00- 130.00	100.00		
12.129	12.129	(0.892)	43	150353			0.00- 30.00	65.14		
12.129	12.129	(0.892)	86	38707			0.00- 30.00	16.77		
-----										
31 1,1-Dichloroethane						CAS #:	75-34-3			
12.486	12.486	(0.918)	63	273162	2.00000	2.140	70.00- 130.00	100.00		
12.486	12.486	(0.918)	65	92951			0.00- 30.00	34.03		
-----										
33 Vinyl Acetate						CAS #:	108-05-4			
12.541	12.541	(0.922)	43	286498	2.00000	2.189	70.00- 130.00	100.00		
12.541	12.541	(0.922)	42	35301			0.00- 30.00	12.32		
12.541	12.541	(0.922)	86	28244			0.00- 30.00	9.86		
-----										
37 2-Butanone						CAS #:	78-93-3			
13.305	13.305	(0.978)	72	70647	2.00000	2.057	70.00- 130.00	100.00		
13.285	13.285	(0.976)	43	288179			0.00- 30.00	407.91		
13.305	13.305	(0.978)	57	27018			0.00- 30.00	38.24		
-----										
36 cis-1,2-Dichloroethene						CAS #:	156-59-2			
13.285	13.285	(0.976)	98	90796	2.00000	2.038	70.00- 130.00	100.00		
13.285	13.285	(0.976)	61	222454			0.00- 30.00	245.00		
13.285	13.285	(0.976)	96	134795			124.79- 184.79	148.46		
-----										
38 Tetrahydrofuran						CAS #:	109-99-9			
13.605	13.605	(1.000)	42	175244	2.00000	2.131	70.00- 130.00	100.00		
13.605	13.605	(1.000)	71	73897			0.00- 30.00	42.17		
13.605	13.605	(1.000)	72	78931			0.00- 30.00	45.04		
-----										
40 Chloroform						CAS #:	67-66-3			
13.667	13.667	(1.005)	83	320022	2.00000	2.061	70.00- 130.00	100.00		
13.667	13.667	(1.005)	85	218614			0.00- 30.00	68.31		
-----										
43 1,1,1-Trichloroethane						CAS #:	71-55-6			
13.882	13.882	(1.020)	97	375910	2.00000	2.118	70.00- 130.00	100.00		
13.882	13.882	(1.020)	99	243625			0.00- 30.00	64.81		
-----										
42 Cyclohexane						CAS #:	110-82-7			
13.882	13.882	(1.020)	84	198718	2.00000	1.985	70.00- 130.00	100.00		
13.882	13.882	(1.020)	56	256175			0.00- 30.00	128.91		
13.882	13.882	(1.020)	41	161556			0.00- 30.00	81.30		
-----										
44 Carbon Tetrachloride						CAS #:	56-23-5			
14.037	14.037	(1.032)	119	271821	2.00000	2.136	70.00- 130.00	100.00		
14.067	14.067	(1.034)	117	281651			0.00- 30.00	103.62		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT (PPEV)	ON-COL (PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #:	540-84-1			
14.311	14.311	(1.052)	56	255869	2.00000	2.097	70.00-	130.00	100.00	
14.311	14.311	(1.052)	57	713119			0.00-	30.00	278.70	
14.311	14.311	(1.052)	41	237476			0.00-	30.00	92.81	
-----										
46	Benzene					CAS #:	71-43-2			
14.338	14.338	(0.965)	78	426554	2.00000	1.995	70.00-	130.00	100.00	
14.338	14.338	(0.965)	77	110615			0.00-	30.00	25.93	
-----										
49	1,2-Dichloroethane					CAS #:	107-06-2			
14.448	14.448	(0.972)	62	286255	2.00000	2.074	70.00-	130.00	100.00	
14.448	14.448	(0.972)	64	100159			0.00-	30.00	34.99	
-----										
50	Heptane					CAS #:	142-82-5			
14.530	14.530	(0.978)	57	163998	2.00000	2.062	70.00-	130.00	100.00	
14.530	14.530	(0.978)	100	52271			0.00-	30.00	31.87	
14.530	14.530	(0.978)	43	282291			0.00-	30.00	172.13	
-----										
53	Trichloroethene					CAS #:	79-01-6			
15.216	15.216	(1.024)	130	185042	2.00000	2.003	70.00-	130.00	100.00	
15.216	15.216	(1.024)	95	209537			0.00-	30.00	113.24	
15.216	15.216	(1.024)	97	140029			0.00-	30.00	75.67	
-----										
54	1,2-Dichloropropane					CAS #:	78-87-5			
15.601	15.601	(1.050)	63	184705	2.00000	2.088	70.00-	130.00	100.00	
15.601	15.601	(1.050)	62	128915			0.00-	30.00	69.80	
15.601	15.601	(1.050)	41	147329			47.90-	107.90	79.76	
-----										
55	1,4-Dioxane					CAS #:	123-91-1			
15.710	15.710	(1.057)	88	126036	2.00000	2.168	70.00-	130.00	100.00	
15.710	15.710	(1.057)	58	103176			0.00-	30.00	81.86	
15.710	15.710	(1.057)	57	43133			0.00-	30.00	34.22	
-----										
56	Bromodichloromethane					CAS #:	75-27-4			
15.985	15.985	(1.076)	83	340817	2.00000	2.007	70.00-	130.00	100.00	
15.985	15.985	(1.076)	85	224252			0.00-	30.00	65.80	
-----										
57	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
16.703	16.703	(1.124)	75	245775	2.00000	2.013	70.00-	130.00	100.00	
16.703	16.703	(1.124)	77	84049			0.00-	30.00	34.20	
16.680	16.680	(1.123)	39	173861			37.73-	97.73	70.74	
-----										
58	4-Methyl-2-pentanone					CAS #:	108-10-1			
16.859	16.859	(1.135)	43	395006	2.00000	2.148	70.00-	130.00	100.00	
16.859	16.859	(1.135)	58	154124			0.00-	30.00	39.02	
16.859	16.859	(1.135)	85	75753			0.00-	30.00	19.18	
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
60 Toluene									
17.151	17.151	(1.154)	91	500825	2.00000	1.987	70.00- 130.00	100.00	
17.151	17.151	(1.154)	92	311846			0.00- 30.00	62.27	
-----									
61 trans-1,3-Dichloropropene									
17.531	17.531	(0.918)	75	302601	2.00000	2.123	70.00- 130.00	100.00	
17.531	17.531	(0.918)	77	99074			0.00- 30.00	32.74	
17.531	17.531	(0.918)	39	173551			29.55- 89.55	57.35	
-----									
62 1,1,2-Trichloroethane									
17.818	17.818	(0.933)	97	205970	2.00000	2.149	70.00- 130.00	100.00	
17.818	17.818	(0.933)	99	127700			0.00- 30.00	62.00	
17.818	17.818	(0.933)	83	175471			56.32- 116.32	85.19	
-----									
63 Tetrachloroethene									
17.935	17.935	(0.939)	166	278984	2.00000	2.201	70.00- 130.00	100.00	
17.906	17.906	(0.938)	129	214764			0.00- 30.00	76.98	
17.906	17.906	(0.938)	131	206886			43.64- 103.64	74.16	
-----									
64 2-Hexanone									
18.052	18.052	(0.945)	58	244027	2.00000	2.062	70.00- 130.00	100.00	
18.052	18.052	(0.945)	43	415373			0.00- 30.00	170.22	
18.052	18.052	(0.945)	100	53908			0.00- 30.00	22.09	
-----									
66 Dibromochloromethane									
18.343	18.343	(0.961)	129	328940	2.00000	2.155	70.00- 130.00	100.00	
18.343	18.343	(0.961)	127	267765			0.00- 30.00	81.40	
-----									
67 1,2-Dibromoethane									
18.547	18.547	(0.971)	107	351171	2.00000	2.132	70.00- 130.00	100.00	
18.547	18.547	(0.971)	109	337774			0.00- 30.00	96.19	
-----									
69 Chlorobenzene									
19.142	19.142	(1.003)	112	576754	2.00000	2.131	70.00- 130.00	100.00	
19.142	19.142	(1.003)	114	203963			0.00- 30.00	35.36	
19.142	19.142	(1.003)	77	440164			43.25- 103.25	76.32	
-----									
70 Ethyl Benzene									
19.214	19.214	(1.006)	106	335095	2.00000	2.184	70.00- 130.00	100.00	
19.214	19.214	(1.006)	91	1012378			0.00- 30.00	302.12	
-----									
71 m,p-Xylene									
19.358	19.358	(1.014)	106	419769	2.00000	2.161	70.00- 130.00	100.00	
19.358	19.358	(1.014)	91	857768			0.00- 30.00	204.34	
-----									
72 o-Xylene									
19.888	19.888	(1.042)	106	434797	2.00000	2.228	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	904497			0.00- 30.00	208.03	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	672178	2.00000	2.257	70.00- 130.00	100.00	
19.912	19.912	(1.043)	78	392244			0.00- 30.00	58.35	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	358390	2.00000	2.286	70.00- 130.00	100.00	
20.201	20.201	(1.058)	171	196998			0.00- 30.00	54.97	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	1238608	2.00000	2.222	70.00- 130.00	100.00	
20.298	20.298	(1.063)	120	350941			0.00- 30.00	28.33	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	714891	2.00000	2.173	70.00- 130.00	100.00	
20.729	20.729	(1.086)	85	472560			0.00- 30.00	66.10	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	1634011	2.00000	2.251	70.00- 130.00	100.00	
20.781	20.781	(1.088)	120	392934			0.00- 30.00	24.05	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	1557765	2.00000	2.222	70.00- 130.00	100.00	
20.910	20.910	(1.095)	120	518399			0.00- 30.00	33.28	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	1206791	2.00000	2.243	70.00- 130.00	100.00	
20.987	20.987	(1.099)	120	605854			0.00- 30.00	50.20	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	1258621	2.00000	2.313	70.00- 130.00	100.00	
21.425	21.425	(1.122)	120	592342			0.00- 30.00	47.06	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	822100	2.00000	2.270	70.00- 130.00	100.00	
21.812	21.812	(1.142)	148	531207			0.00- 30.00	64.62	
21.812	21.812	(1.142)	111	380096			0.00- 30.00	46.23	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	831118	2.00000	2.257	70.00- 130.00	100.00	
21.915	21.915	(1.148)	148	536282			0.00- 30.00	64.53	
21.915	21.915	(1.148)	111	378848			0.00- 30.00	45.58	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	993896	2.00000	2.295	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.070	22.070	(1.156)	126	207742			0.00- 30.00	20.90	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	777348	2.00000	2.270	70.00- 130.00	100.00	
22.354	22.354	(1.171)	148	505423			35.51- 95.51	65.02	
22.354	22.354	(1.171)	111	370956			17.92- 77.92	47.72	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	515873	2.00000	2.292	70.00- 130.00	100.00	
24.107	24.107	(1.263)	182	488923			0.00- 30.00	94.78	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	460302	2.00000	2.349	70.00- 130.00	100.00	
24.184	24.184	(1.267)	223	303141			0.00- 30.00	65.86	
-----									
99 Naphthalene CAS #: 91-20-3									
24.417	24.417	(1.279)	128	911944	2.00000	2.282	70.00- 130.00	100.00	
24.417	24.417	(1.279)	127	131388			0.00- 30.00	14.41	
-----									
179 Butane CAS #: 106-97-8									
6.737	6.737	(0.495)	58	45274	2.00000	2.215	70.00- 130.00	100.00	
6.754	6.754	(0.496)	43	279542			0.00- 30.00	617.44	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	146370	2.00000	2.241	70.00- 130.00	100.00	
8.736	8.736	(0.642)	43	193680			0.00- 30.00	132.32	
8.736	8.736	(0.642)	42	161302			0.00- 30.00	110.20	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.409	15.409	(1.133)	83	279665	2.00000	2.098	70.00- 130.00	100.00	
15.409	15.409	(1.133)	98	140563			0.00- 30.00	50.26	
15.409	15.409	(1.133)	55	277300			0.00- 30.00	99.15	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.718	11.718	(0.861)	59	330657	2.00000	2.118	70.00- 130.00	100.00	
11.718	11.718	(0.861)	41	82486			0.00- 30.00	24.95	
11.718	11.718	(0.861)	57	41499			0.00- 30.00	12.55	
-----									



Report Date: 25-Apr-2008 07:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042217.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 7

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 2.0ppbv -&gt; 2.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	384475	-5.57
52 1,4-Difluorobenze	1616499	969899	2263099	1513184	-6.39
68 Chlorobenzene-d5	2038617	1223170	2854064	1831918	-10.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 20:39

Client ID: Level 7

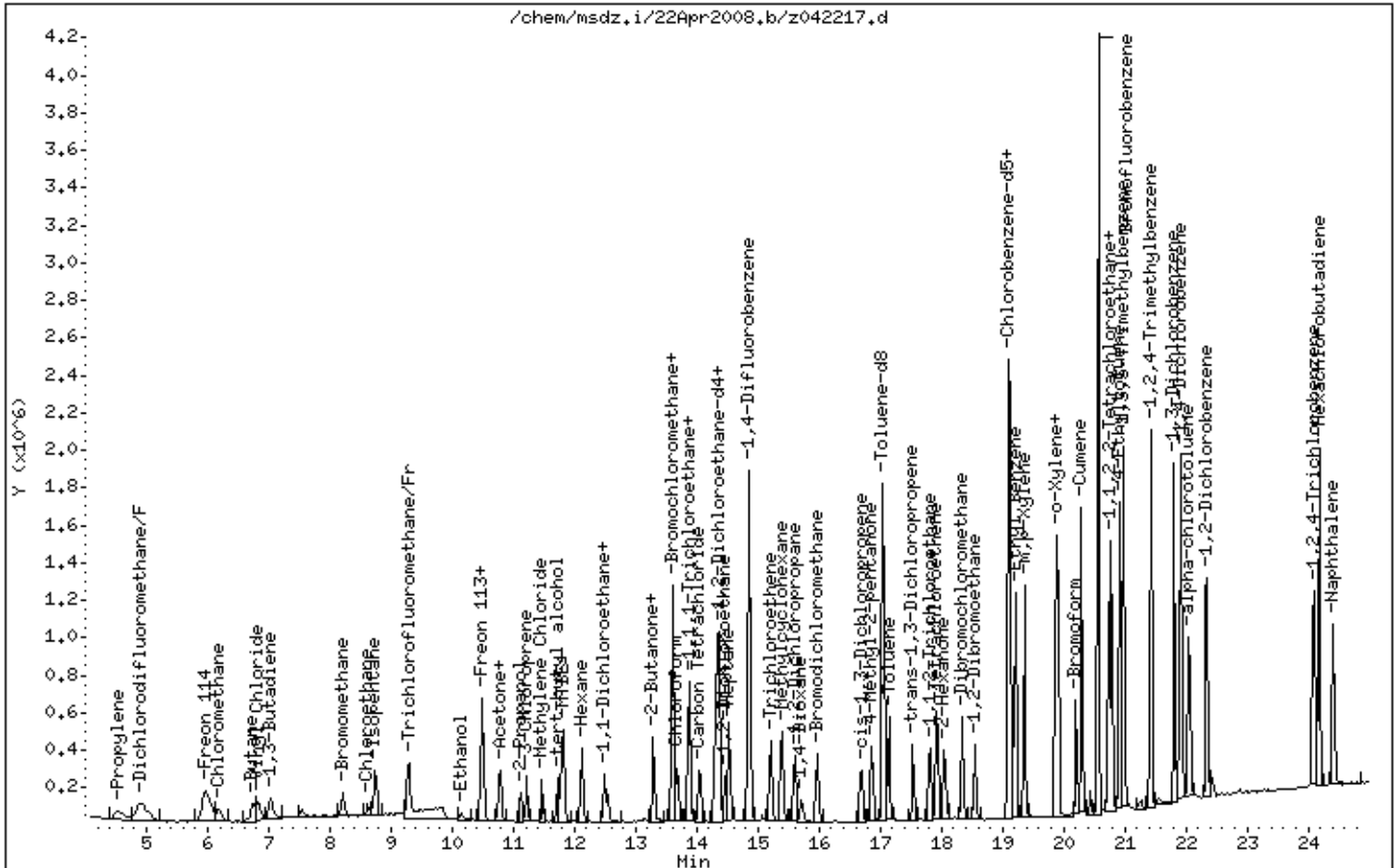
Instrument: msdz,i

Sample Info: 500mL #1541-111

Operator: ACT

Column phase: RTX-624

Column diameter: 0.32



Report Date: 25-Apr-2008 07:36

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042218.d  
 Lab Smp Id: ICAL Client Smp ID: Level 8  
 Inj Date : 22-APR-2008 21:12  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 50mL #1541-91  
 Misc Info : 50ppbv -> 5.0ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 21:12 Cal File: z042218.d  
 Als bottle: 1 Calibration Sample, Level: 8  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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	
==	=====	=====	=====	=====	=====	=====	=====	=====	
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	363365	10.0000		70.00- 130.00	100.00	
13.605	13.605	(1.000)	128	282258			0.00- 30.00	77.68	
13.605	13.605	(1.000)	49	600732			0.00- 30.00	165.32	
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1436533	10.0000		70.00- 130.00	100.00	
14.859	14.859	(1.000)	88	314702			0.00- 30.00	21.91	
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	1820012	10.0000		70.00- 130.00	100.00	
19.093	19.093	(1.000)	82	1216653			0.00- 30.00	66.85	
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	796539	10.0000	10.155	70.00- 130.00	100.00	
14.365	14.365	(1.056)	67	396674			0.00- 30.00	49.80	
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1497167	10.0000	9.968	70.00- 130.00	100.00	
17.038	17.038	(1.147)	70	246182			0.00- 30.00	16.44	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 59 Toluene-d8 (continued)									
17.038	17.038	(1.147)	100	1020488			37.57- 97.57	68.16	
-----									
\$ 77 Bromofluorobenzene									
						CAS #: 460-00-4			
20.574	20.574	(1.078)	174	1368142	10.0000	9.988	70.00- 130.00	100.00	
20.574	20.574	(1.078)	95	1884918			103.94- 163.94	137.77	
20.574	20.574	(1.078)	176	1314419			66.39- 126.39	96.07	
-----									
1 Propylene									
						CAS #: 115-07-1			
4.521	4.521	(0.332)	41	411904	5.00000	5.698	70.00- 130.00	100.00	
4.521	4.521	(0.332)	42	274427			0.00- 30.00	66.62	
4.545	4.545	(0.334)	39	338397			0.00- 30.00	82.15	
-----									
3 Dichlorodifluoromethane/Fr12									
						CAS #: 75-71-8			
4.907	4.907	(0.361)	85	1497126	5.00000	5.124	70.00- 130.00	100.00	
4.931	4.931	(0.362)	87	524001			5.02- 65.02	35.00	
-----									
4 Freon 114									
						CAS #: 76-14-2			
5.991	5.991	(0.440)	135	740013	5.00000	5.056	70.00- 130.00	100.00	
5.991	5.991	(0.440)	137	254815			0.00- 30.00	34.43	
-----									
5 Chloromethane									
						CAS #: 74-87-3			
6.184	6.184	(0.455)	50	451673	5.00000	5.097	70.00- 130.00	100.00	
6.184	6.184	(0.455)	52	157681			0.00- 30.00	34.91	
-----									
6 Vinyl Chloride									
						CAS #: 75-01-4			
6.841	6.841	(0.503)	62	452127	5.00000	5.104	70.00- 130.00	100.00	
6.841	6.841	(0.503)	64	157787			4.56- 64.56	34.90	
-----									
7 1,3-Butadiene									
						CAS #: 106-99-0			
7.032	7.032	(0.517)	54	330914	5.00000	5.242	70.00- 130.00	100.00	
7.032	7.032	(0.517)	39	343117			0.00- 30.00	103.69	
-----									
9 Bromomethane									
						CAS #: 74-83-9			
8.218	8.218	(0.604)	94	322505	5.00000	4.645	70.00- 130.00	100.00	
8.218	8.218	(0.604)	96	293187			62.26- 122.26	90.91	
-----									
10 Chloroethane									
						CAS #: 75-00-3			
8.612	8.612	(0.633)	64	190377	5.00000	4.785	70.00- 130.00	100.00	
8.612	8.612	(0.633)	49	65409			0.00- 30.00	34.36	
8.612	8.612	(0.633)	66	65837			0.00- 30.00	34.58	
-----									
13 Trichlorofluoromethane/Fr11									
						CAS #: 75-69-4			
9.296	9.296	(0.683)	101	893678	5.00000	4.855	70.00- 130.00	100.00	
9.296	9.296	(0.683)	103	592712			36.19- 96.19	66.32	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	114045	5.00000	4.757	70.00- 130.00	100.00	
10.146	10.146	(0.746)	43	34981			0.00- 30.00	30.67	
10.146	10.146	(0.746)	46	48072			0.00- 30.00	42.15	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	503831	5.00000	5.017	70.00- 130.00	100.00	
10.498	10.498	(0.772)	153	324036			35.16- 95.16	64.31	
10.498	10.498	(0.772)	101	618577			0.00- 30.00	122.77	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	186635	5.00000	4.654	70.00- 130.00	100.00	
10.498	10.498	(0.772)	61	601018			0.00- 30.00	322.03	
10.498	10.498	(0.772)	96	292497			0.00- 30.00	156.72	
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	170777	5.00000	4.864	70.00- 130.00	100.00	
10.747	10.747	(0.790)	43	596833			0.00- 30.00	349.48	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	150464	5.00000	5.264	70.00- 130.00	100.00	
11.223	11.223	(0.825)	41	442551			0.00- 30.00	294.12	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.099	11.099	(0.816)	45	593226	5.00000	4.976	70.00- 130.00	100.00	
11.099	11.099	(0.816)	43	143327			0.00- 30.00	24.16	
11.099	11.099	(0.816)	59	28009			0.00- 30.00	4.72	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	825279	5.00000	5.083	70.00- 130.00	100.00	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.470	(0.843)	84	252985	5.00000	4.603	70.00- 130.00	100.00	
11.470	11.470	(0.843)	49	381822			0.00- 30.00	150.93	
11.470	11.470	(0.843)	51	125384			0.00- 30.00	49.56	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	947575	5.00000	5.446	70.00- 130.00	100.00	
11.800	11.800	(0.867)	57	243291			0.00- 30.00	25.68	
11.800	11.800	(0.867)	41	271608			0.00- 30.00	28.66	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	211551	5.00000	4.908	70.00- 130.00	100.00	
11.827	11.827	(0.869)	61	541561			0.00- 30.00	256.00	
11.827	11.827	(0.869)	96	311437			0.00- 30.00	147.22	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	====	=====	=====	=====	=====	=====		
30 Hexane						CAS #:	110-54-3			
12.129	12.129	(0.892)	57	526266	5.00000	5.088	70.00- 130.00	100.00		
12.129	12.129	(0.892)	43	340764			0.00- 30.00	64.75		
12.129	12.129	(0.892)	86	91869			0.00- 30.00	17.46		
-----										
31 1,1-Dichloroethane						CAS #:	75-34-3			
12.486	12.486	(0.918)	63	615218	5.00000	5.101	70.00- 130.00	100.00		
12.486	12.486	(0.918)	65	202518			0.00- 30.00	32.92		
-----										
33 Vinyl Acetate						CAS #:	108-05-4			
12.541	12.541	(0.922)	43	660792	5.00000	5.343	70.00- 130.00	100.00		
12.541	12.541	(0.922)	42	80564			0.00- 30.00	12.19		
12.541	12.541	(0.922)	86	65975			0.00- 30.00	9.98		
-----										
37 2-Butanone						CAS #:	78-93-3			
13.284	13.284	(0.976)	72	171444	5.00000	5.282	70.00- 130.00	100.00		
13.284	13.284	(0.976)	43	674201			0.00- 30.00	393.25		
13.284	13.284	(0.976)	57	64660			0.00- 30.00	37.71		
-----										
36 cis-1,2-Dichloroethene						CAS #:	156-59-2			
13.284	13.284	(0.976)	98	203681	5.00000	4.838	70.00- 130.00	100.00		
13.284	13.284	(0.976)	61	513660			0.00- 30.00	252.19		
13.284	13.284	(0.976)	96	313439			124.79- 184.79	153.89		
-----										
38 Tetrahydrofuran						CAS #:	109-99-9			
13.605	13.605	(1.000)	42	396956	5.00000	5.108	70.00- 130.00	100.00		
13.605	13.605	(1.000)	71	162909			0.00- 30.00	41.04		
13.605	13.605	(1.000)	72	171611			0.00- 30.00	43.23		
-----										
40 Chloroform						CAS #:	67-66-3			
13.666	13.666	(1.005)	83	713665	5.00000	4.862	70.00- 130.00	100.00		
13.666	13.666	(1.005)	85	480793			0.00- 30.00	67.37		
-----										
43 1,1,1-Trichloroethane						CAS #:	71-55-6			
13.882	13.882	(1.020)	97	847157	5.00000	5.051	70.00- 130.00	100.00		
13.882	13.882	(1.020)	99	558332			0.00- 30.00	65.91		
-----										
42 Cyclohexane						CAS #:	110-82-7			
13.882	13.882	(1.020)	84	465332	5.00000	4.918	70.00- 130.00	100.00		
13.882	13.882	(1.020)	56	602118			0.00- 30.00	129.40		
13.882	13.882	(1.020)	41	374636			0.00- 30.00	80.51		
-----										
44 Carbon Tetrachloride						CAS #:	56-23-5			
14.036	14.036	(1.032)	119	571004	5.00000	4.748	70.00- 130.00	100.00		
14.036	14.036	(1.032)	117	593605			0.00- 30.00	103.96		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #:	540-84-1			
14.310	14.310	(1.052)	56	574388	5.00000	4.980	70.00-	130.00	100.00	
14.310	14.310	(1.052)	57	1645817			0.00-	30.00	286.53	
14.310	14.310	(1.052)	41	567017			0.00-	30.00	98.72	
-----										
46	Benzene					CAS #:	71-43-2			
14.338	14.338	(0.965)	78	958121	5.00000	4.720	70.00-	130.00	100.00	
14.338	14.338	(0.965)	77	258051			0.00-	30.00	26.93	
-----										
49	1,2-Dichloroethane					CAS #:	107-06-2			
14.448	14.448	(0.972)	62	662431	5.00000	5.056	70.00-	130.00	100.00	
14.448	14.448	(0.972)	64	228873			0.00-	30.00	34.55	
-----										
50	Heptane					CAS #:	142-82-5			
14.530	14.530	(0.978)	57	378217	5.00000	5.009	70.00-	130.00	100.00	
14.530	14.530	(0.978)	100	120544			0.00-	30.00	31.87	
14.530	14.530	(0.978)	43	669280			0.00-	30.00	176.96	
-----										
53	Trichloroethene					CAS #:	79-01-6			
15.216	15.216	(1.024)	130	414177	5.00000	4.722	70.00-	130.00	100.00	
15.216	15.216	(1.024)	95	492021			0.00-	30.00	118.79	
15.216	15.216	(1.024)	97	321789			0.00-	30.00	77.69	
-----										
54	1,2-Dichloropropane					CAS #:	78-87-5			
15.600	15.600	(1.050)	63	423692	5.00000	5.046	70.00-	130.00	100.00	
15.600	15.600	(1.050)	62	313801			0.00-	30.00	74.06	
15.600	15.600	(1.050)	41	338840			47.90-	107.90	79.97	
-----										
55	1,4-Dioxane					CAS #:	123-91-1			
15.710	15.710	(1.057)	88	284496	5.00000	5.156	70.00-	130.00	100.00	
15.710	15.710	(1.057)	58	231597			0.00-	30.00	81.41	
15.710	15.710	(1.057)	57	92655			0.00-	30.00	32.57	
-----										
56	Bromodichloromethane					CAS #:	75-27-4			
15.985	15.985	(1.076)	83	799748	5.00000	4.962	70.00-	130.00	100.00	
15.985	15.985	(1.076)	85	526938			0.00-	30.00	65.89	
-----										
57	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
16.680	16.680	(1.123)	75	595893	5.00000	5.141	70.00-	130.00	100.00	
16.680	16.680	(1.123)	77	208328			0.00-	30.00	34.96	
16.680	16.680	(1.123)	39	425893			37.73-	97.73	71.47	
-----										
58	4-Methyl-2-pentanone					CAS #:	108-10-1			
16.859	16.859	(1.135)	43	896410	5.00000	5.134	70.00-	130.00	100.00	
16.859	16.859	(1.135)	58	365526			0.00-	30.00	40.78	
16.859	16.859	(1.135)	85	162918			0.00-	30.00	18.17	
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
60 Toluene									
						CAS #:	108-88-3		
17.150	17.150	(1.154)	91	1178671	5.00000	4.925	70.00-	130.00	100.00
17.150	17.150	(1.154)	92	728124			0.00-	30.00	61.77
-----									
61 trans-1,3-Dichloropropene									
						CAS #:	10061-02-6		
17.531	17.531	(0.918)	75	703867	5.00000	4.972	70.00-	130.00	100.00
17.531	17.531	(0.918)	77	239537			0.00-	30.00	34.03
17.531	17.531	(0.918)	39	434646			29.55-	89.55	61.75
-----									
62 1,1,2-Trichloroethane									
						CAS #:	79-00-5		
17.818	17.818	(0.933)	97	475603	5.00000	4.995	70.00-	130.00	100.00
17.818	17.818	(0.933)	99	309823			0.00-	30.00	65.14
17.818	17.818	(0.933)	83	403557			56.32-	116.32	84.85
-----									
63 Tetrachloroethene									
						CAS #:	127-18-4		
17.906	17.906	(0.938)	166	632380	5.00000	5.021	70.00-	130.00	100.00
17.906	17.906	(0.938)	129	492540			0.00-	30.00	77.89
17.906	17.906	(0.938)	131	475986			43.64-	103.64	75.27
-----									
64 2-Hexanone									
						CAS #:	591-78-6		
18.051	18.051	(0.945)	58	617180	5.00000	5.249	70.00-	130.00	100.00
18.051	18.051	(0.945)	43	1077658			0.00-	30.00	174.61
18.051	18.051	(0.945)	100	127080			0.00-	30.00	20.59
-----									
66 Dibromochloromethane									
						CAS #:	124-48-1		
18.343	18.343	(0.961)	129	767374	5.00000	5.060	70.00-	130.00	100.00
18.343	18.343	(0.961)	127	613010			0.00-	30.00	79.88
-----									
67 1,2-Dibromoethane									
						CAS #:	106-93-4		
18.547	18.547	(0.971)	107	836368	5.00000	5.111	70.00-	130.00	100.00
18.547	18.547	(0.971)	109	765685			0.00-	30.00	91.55
-----									
69 Chlorobenzene									
						CAS #:	108-90-7		
19.141	19.141	(1.003)	112	1336154	5.00000	4.969	70.00-	130.00	100.00
19.141	19.141	(1.003)	114	464399			0.00-	30.00	34.76
19.141	19.141	(1.003)	77	1001974			43.25-	103.25	74.99
-----									
70 Ethyl Benzene									
						CAS #:	100-41-4		
19.214	19.214	(1.006)	106	771317	5.00000	5.060	70.00-	130.00	100.00
19.214	19.214	(1.006)	91	2349576			0.00-	30.00	304.62
-----									
71 m,p-Xylene									
						CAS #:	108-38-3		
19.358	19.358	(1.014)	106	1001713	5.00000	5.190	70.00-	130.00	100.00
19.358	19.358	(1.014)	91	2004763			0.00-	30.00	200.13
-----									
72 o-Xylene									
						CAS #:	95-47-6		
19.888	19.888	(1.042)	106	990920	5.00000	5.112	70.00-	130.00	100.00



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	2090393			0.00- 30.00	210.95	
-----									
73 Styrene									
19.912	19.912	(1.043)	104	1601063	5.00000	5.412	70.00- 130.00	100.00	
19.912	19.912	(1.043)	78	934866			0.00- 30.00	58.39	
-----									
75 Bromoform									
20.201	20.201	(1.058)	173	805489	5.00000	5.172	70.00- 130.00	100.00	
20.201	20.201	(1.058)	171	432234			0.00- 30.00	53.66	
-----									
76 Cumene									
20.297	20.297	(1.063)	105	2860215	5.00000	5.165	70.00- 130.00	100.00	
20.297	20.297	(1.063)	120	780103			0.00- 30.00	27.27	
-----									
79 1,1,2,2-Tetrachloroethane									
20.729	20.729	(1.086)	83	1686522	5.00000	5.159	70.00- 130.00	100.00	
20.729	20.729	(1.086)	85	1100108			0.00- 30.00	65.23	
-----									
80 Propylbenzene									
20.781	20.781	(1.088)	91	3796050	5.00000	5.264	70.00- 130.00	100.00	
20.781	20.781	(1.088)	120	908158			0.00- 30.00	23.92	
-----									
82 4-Ethyltoluene									
20.910	20.910	(1.095)	105	3594302	5.00000	5.161	70.00- 130.00	100.00	
20.910	20.910	(1.095)	120	1204928			0.00- 30.00	33.52	
-----									
83 1,3,5-Trimethylbenzene									
20.987	20.987	(1.099)	105	2714422	5.00000	5.078	70.00- 130.00	100.00	
20.987	20.987	(1.099)	120	1343251			0.00- 30.00	49.49	
-----									
85 1,2,4-Trimethylbenzene									
21.425	21.425	(1.122)	105	2832592	5.00000	5.240	70.00- 130.00	100.00	
21.425	21.425	(1.122)	120	1302640			0.00- 30.00	45.99	
-----									
88 1,3-Dichlorobenzene									
21.812	21.812	(1.142)	146	1842998	5.00000	5.122	70.00- 130.00	100.00	
21.812	21.812	(1.142)	148	1188704			0.00- 30.00	64.50	
21.812	21.812	(1.142)	111	850715			0.00- 30.00	46.16	
-----									
89 1,4-Dichlorobenzene									
21.915	21.915	(1.148)	146	1851482	5.00000	5.062	70.00- 130.00	100.00	
21.915	21.915	(1.148)	148	1229911			0.00- 30.00	66.43	
21.915	21.915	(1.148)	111	829926			0.00- 30.00	44.82	
-----									
90 alpha-chlorotoluene									
22.044	22.044	(1.155)	91	2264780	5.00000	5.263	70.00- 130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	468718			0.00- 30.00	20.70	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	1712894	5.00000	5.035	70.00- 130.00	100.00	
22.354	22.354	(1.171)	148	1104202			35.51- 95.51	64.46	
22.354	22.354	(1.171)	111	818471			17.92- 77.92	47.78	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	960204	5.00000	4.293	70.00- 130.00	100.00	
24.107	24.107	(1.263)	182	918288			0.00- 30.00	95.63	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	912014	5.00000	4.684	70.00- 130.00	100.00	
24.184	24.184	(1.267)	223	602018			0.00- 30.00	66.01	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.279)	128	1713502	5.00000	4.316	70.00- 130.00	100.00	
24.416	24.416	(1.279)	127	251587			0.00- 30.00	14.68	
-----									
179 Butane CAS #: 106-97-8									
6.754	6.754	(0.496)	58	102153	5.00000	5.287	70.00- 130.00	100.00	
6.737	6.737	(0.495)	43	631373			0.00- 30.00	618.07	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	343860	5.00000	5.571	70.00- 130.00	100.00	
8.736	8.736	(0.642)	43	435231			0.00- 30.00	126.57	
8.736	8.736	(0.642)	42	377292			0.00- 30.00	109.72	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	646180	5.00000	5.129	70.00- 130.00	100.00	
15.408	15.408	(1.133)	98	317467			0.00- 30.00	49.13	
15.408	15.408	(1.133)	55	636384			0.00- 30.00	98.48	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.717	11.717	(0.861)	59	741915	5.00000	5.028	70.00- 130.00	100.00	
11.717	11.717	(0.861)	41	180374			0.00- 30.00	24.31	
11.717	11.717	(0.861)	57	99518			0.00- 30.00	13.41	
-----									

Report Date: 25-Apr-2008 07:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042218.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 8

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 50ppbv -&gt; 5.0ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	363365	-10.75
52 1,4-Difluorobenze	1616499	969899	2263099	1436533	-11.13
68 Chlorobenzene-d5	2038617	1223170	2854064	1820012	-10.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 21:12

Client ID: Level 8

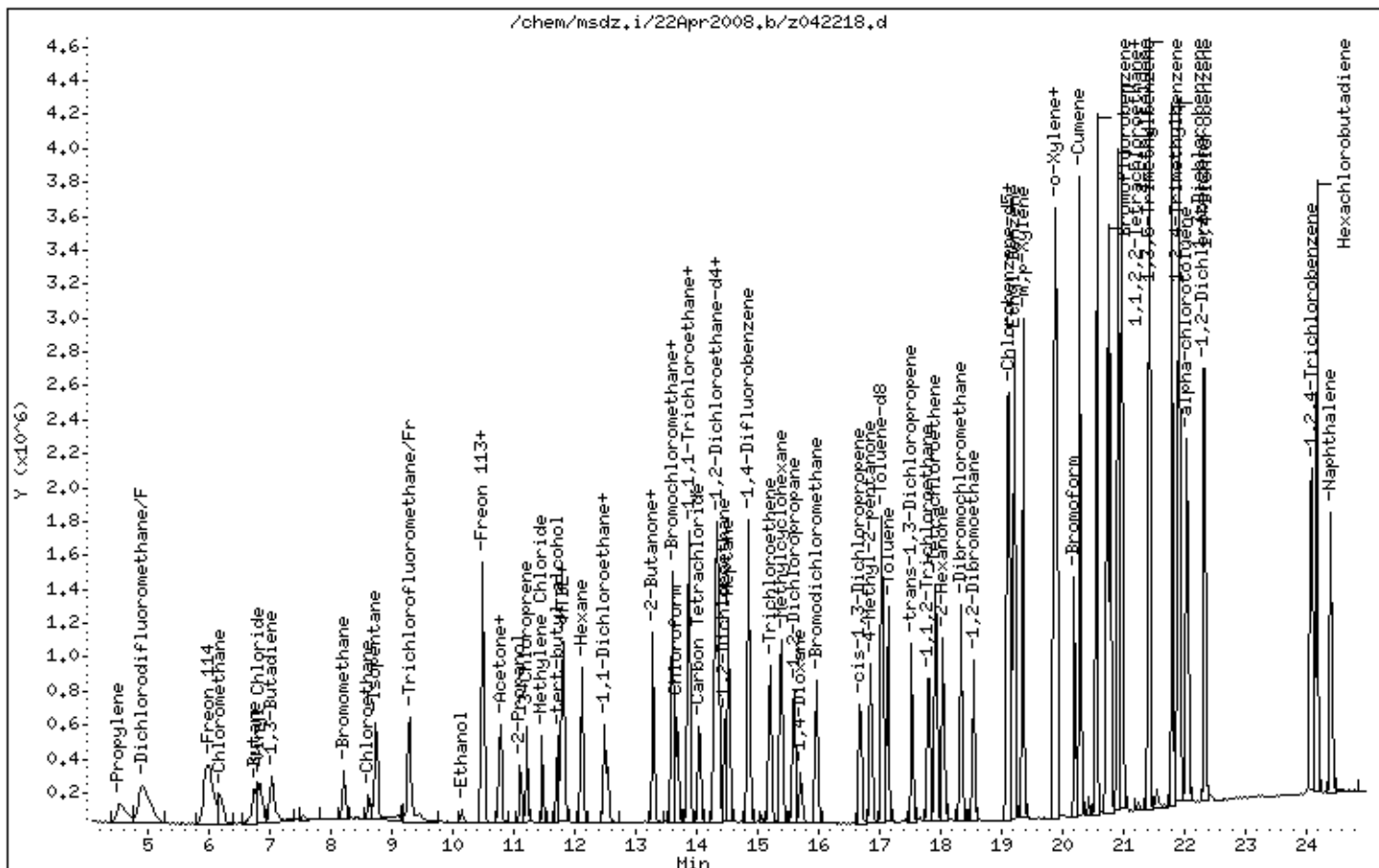
Instrument: msdz.i

Sample Info: 50mL #1541-91

Operator: ACT

Column phase: RTX-624

Column diameter: 0.32



Report Date: 09-May-2008 11:26

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042906.d  
 Lab Smp Id: ICAL Client Smp ID: Level 9  
 Inj Date : 29-APR-2008 13:01  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 100mL #1541-115  
 Misc Info : 50ppbv -> 10ppbv  
 Comment :  
 Method : /chem/msdz.i/29Apr2008.b/t1410422R1.m  
 Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD  
 Cal Date : 29-APR-2008 13:01 Cal File: z042906.d  
 Als bottle: 1 Calibration Sample, Level: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp4b.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
==	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5								
13.605	13.605	(1.000)	130	327424	10.0000		80.00- 120.00	100.00
13.605	13.605	(1.000)	128	253798			0.00- 30.00	77.51
13.605	13.605	(1.000)	49	504912			0.00- 30.00	154.21
-----								
* 52 1,4-Difluorobenzene CAS #: 540-36-3								
14.859	14.859	(1.000)	114	1205511	10.0000		80.00- 120.00	100.00
14.859	14.859	(1.000)	88	252469			0.00- 30.00	20.94
-----								
* 68 Chlorobenzene-d5 CAS #: 3114-55-4								
19.117	19.117	(1.000)	117	1420624	10.0000		80.00- 120.00	100.00
19.093	19.093	(1.000)	82	928822			0.00- 30.00	65.38
-----								
12 Vinyl Bromide CAS #: 593-60-2								
9.130	9.130	(0.671)	106	403776	10.0000	9.046	80.00- 120.00	100.00
9.130	9.130	(0.671)	108	386070			0.00- 30.00	95.61
-----								
24 Acetonitrile CAS #: 75-05-8								
11.333	11.333	(0.833)	40	194097	10.0000	5.639	80.00- 120.00	100.00
11.333	11.333	(0.833)	41	342287			0.00- 30.00	176.35

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
24 Acetonitrile (continued)									
11.388	11.388	(0.837)	39	434550			0.00- 30.00	223.88	
-----									
29 Acrylonitrile									
						CAS #: 107-13-1			
11.937	11.937	(0.877)	53	328485	10.0000	9.564	80.00- 120.00	100.00	
11.937	11.937	(0.877)	52	342996			0.00- 30.00	104.42	
-----									
34 Chlorprene									
						CAS #: 126-99-8			
12.568	12.568	(0.924)	53	667046	10.0000	10.645	80.00- 120.00	100.00	
12.568	12.568	(0.924)	88	270837			0.00- 30.00	40.60	
-----									

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 29-APR-2008

Lab File ID: z042906.d

Calibration Time: 13:01

Lab Smp Id: ICAL

Client Smp ID: Level 9

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/29Apr2008.b/t1410422R1.m

Misc Info: 50ppbv -&gt; 10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	327424	196454	458394	327424	0.00
52 1,4-Difluorobenze	1205511	723307	1687715	1205511	0.00
68 Chlorobenzene-d5	1420624	852374	1988874	1420624	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 29-APR-2008 13:01

Client ID: Level 9

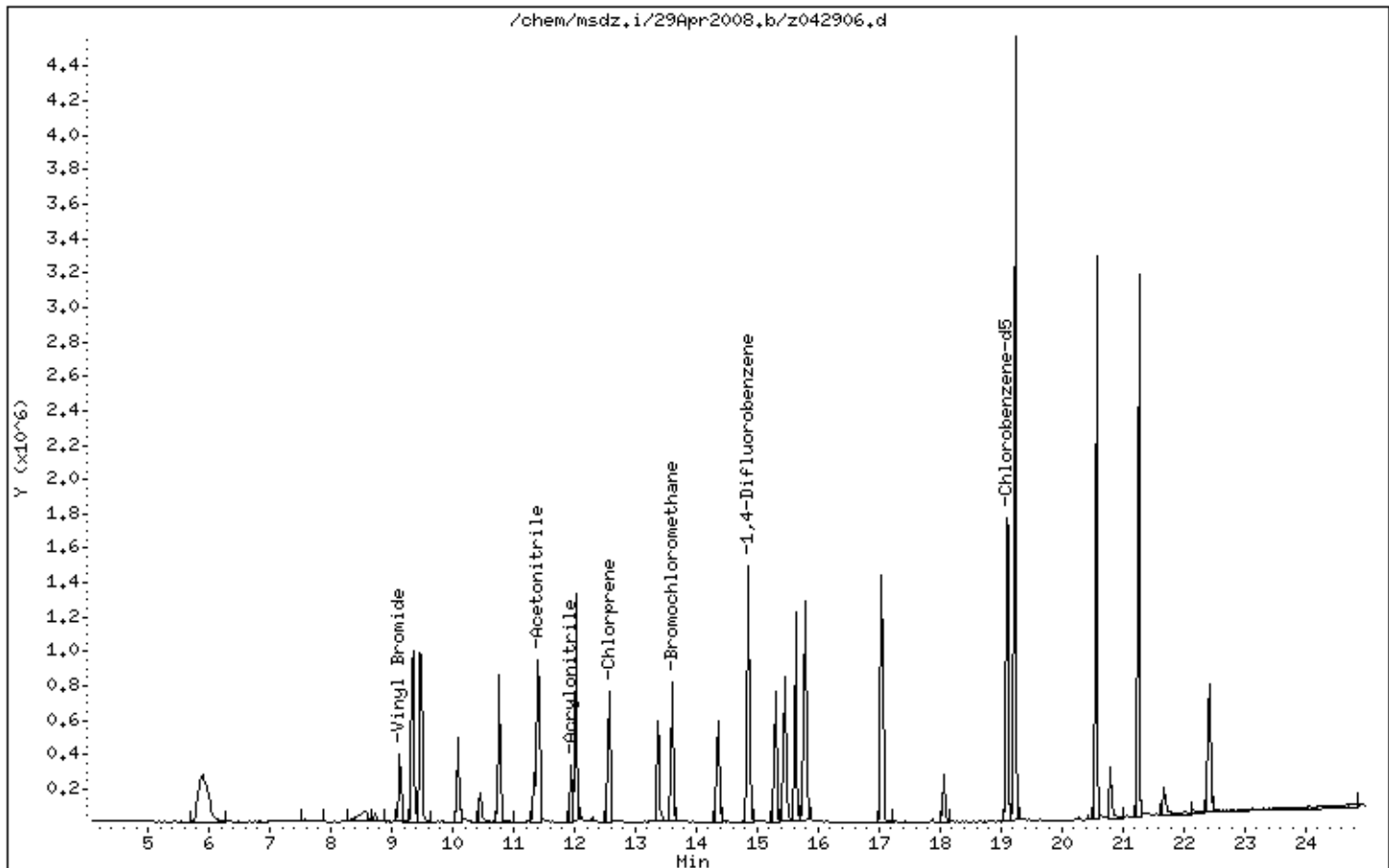
Instrument: msdz,i

Sample Info: 100mL #1541-115

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32





Report Date: 25-Apr-2008 07:36

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042219.d  
 Lab Smp Id: ICAL Client Smp ID: Level 9  
 Inj Date : 22-APR-2008 21:50  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 100mL #1541-91  
 Misc Info : 50ppbv -> 10ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 21:50 Cal File: z042219.d  
 Als bottle: 1 Calibration Sample, Level: 9  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	407140	10.0000			80.00- 120.00	100.00
13.605	13.605	(1.000)	128	322640				0.00- 30.00	79.25
13.605	13.605	(1.000)	49	651438				0.00- 30.00	160.00
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1616499	10.0000			80.00- 120.00	100.00
14.859	14.859	(1.000)	88	352314				0.00- 30.00	21.79
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	2038617	10.0000			80.00- 120.00	100.00
19.093	19.093	(1.000)	82	1320151				0.00- 30.00	64.76
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	864149	10.0000	9.832		80.00- 120.00	100.00
14.365	14.365	(1.056)	67	474889				0.00- 30.00	54.95
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1674736	10.0000	9.909		80.00- 120.00	100.00
17.038	17.038	(1.147)	70	263459				0.00- 30.00	15.73

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 59 Toluene-d8 (continued)										
17.038	17.038	(1.147)	100	1131602			37.57- 97.57	67.57		
-----										
\$ 77 Bromofluorobenzene										
						CAS #:	460-00-4			
20.574	20.574	(1.078)	174	1596540	10.0000	10.406	80.00- 120.00	100.00		
20.574	20.574	(1.078)	95	2138439			103.94- 163.94	133.94		
20.574	20.574	(1.078)	176	1538937			66.39- 126.39	96.39		
-----										
1 Propylene						CAS #:	115-07-1			
4.521	4.521	(0.332)	41	807994	10.0000	9.975	80.00- 120.00	100.00		
4.521	4.521	(0.332)	42	538762			0.00- 30.00	66.68		
4.521	4.521	(0.332)	39	638752			0.00- 30.00	79.05		
-----										
3 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8			
4.907	4.907	(0.361)	85	2975085	10.0000	9.088	80.00- 120.00	100.00		
4.907	4.907	(0.361)	87	1041938			5.02- 65.02	35.02		
-----										
4 Freon 114						CAS #:	76-14-2			
5.991	5.991	(0.440)	135	1477503	10.0000	9.009	80.00- 120.00	100.00		
5.967	5.967	(0.439)	137	520900			0.00- 30.00	35.26		
-----										
5 Chloromethane						CAS #:	74-87-3			
6.184	6.184	(0.455)	50	917585	10.0000	9.242	80.00- 120.00	100.00		
6.184	6.184	(0.455)	52	309216			0.00- 30.00	33.70		
-----										
6 Vinyl Chloride						CAS #:	75-01-4			
6.841	6.841	(0.503)	62	912892	10.0000	9.198	80.00- 120.00	100.00		
6.841	6.841	(0.503)	64	315536			4.56- 64.56	34.56		
-----										
7 1,3-Butadiene						CAS #:	106-99-0			
7.014	7.014	(0.516)	54	641703	10.0000	9.073	80.00- 120.00	100.00		
7.032	7.032	(0.517)	39	652651			0.00- 30.00	101.71		
-----										
9 Bromomethane						CAS #:	74-83-9			
8.218	8.218	(0.604)	94	675286	10.0000	8.680	80.00- 120.00	100.00		
8.218	8.218	(0.604)	96	622987			62.26- 122.26	92.26		
-----										
10 Chloroethane						CAS #:	75-00-3			
8.612	8.612	(0.633)	64	393053	10.0000	8.817	80.00- 120.00	100.00		
8.612	8.612	(0.633)	49	129638			0.00- 30.00	32.98		
8.612	8.612	(0.633)	66	130621			0.00- 30.00	33.23		
-----										
13 Trichlorofluoromethane/Fr11						CAS #:	75-69-4			
9.296	9.296	(0.683)	101	1802262	10.0000	8.738	80.00- 120.00	100.00		
9.296	9.296	(0.683)	103	1192949			36.19- 96.19	66.19		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
14 Ethanol						CAS #:	64-17-5			
10.146	10.146	(0.746)	45	232615	10.0000	8.659	80.00-	120.00	100.00	
10.146	10.146	(0.746)	43	66153			0.00-	30.00	28.44	
10.146	10.146	(0.746)	46	100916			0.00-	30.00	43.38	
-----										
17 Freon 113						CAS #:	76-13-1			
10.498	10.498	(0.772)	151	995971	10.0000	8.851	80.00-	120.00	100.00	
10.498	10.498	(0.772)	153	649019			35.16-	95.16	65.16	
10.498	10.498	(0.772)	101	1204176			0.00-	30.00	120.90	
-----										
15 1,1-Dichloroethene						CAS #:	75-35-4			
10.498	10.498	(0.772)	98	387861	10.0000	8.632	80.00-	120.00	100.00	
10.477	10.477	(0.770)	61	1205337			0.00-	30.00	310.77	
10.477	10.477	(0.770)	96	587250			0.00-	30.00	151.41	
-----										
20 Acetone						CAS #:	67-64-1			
10.747	10.747	(0.790)	58	347064	10.0000	8.823	80.00-	120.00	100.00	
10.747	10.747	(0.790)	43	1220244			0.00-	30.00	351.59	
-----										
22 3-Chloroprene						CAS #:	107-05-1			
11.223	11.223	(0.825)	76	322630	10.0000	10.074	80.00-	120.00	100.00	
11.223	11.223	(0.825)	41	872519			0.00-	30.00	270.44	
-----										
21 2-Propanol						CAS #:	67-63-0			
11.099	11.099	(0.816)	45	1191698	10.0000	8.922	80.00-	120.00	100.00	
11.099	11.099	(0.816)	43	333630			0.00-	30.00	28.00	
11.120	11.120	(0.817)	59	57840			0.00-	30.00	4.85	
-----										
19 Carbon Disulfide						CAS #:	75-15-0			
10.788	10.788	(0.793)	76	1688636	10.0000	9.282	80.00-	120.00	100.00	
-----										
25 Methylene Chloride						CAS #:	75-09-2			
11.470	11.470	(0.843)	84	512491	10.0000	8.323	80.00-	120.00	100.00	
11.470	11.470	(0.843)	49	771828			0.00-	30.00	150.60	
11.470	11.470	(0.843)	51	252224			0.00-	30.00	49.22	
-----										
27 MTBE						CAS #:	1634-04-4			
11.800	11.800	(0.867)	73	1910686	10.0000	9.801	80.00-	120.00	100.00	
11.800	11.800	(0.867)	57	522320			0.00-	30.00	27.34	
11.800	11.800	(0.867)	41	579664			0.00-	30.00	30.34	
-----										
28 trans-1,2-Dichloroethene						CAS #:	156-60-5			
11.827	11.827	(0.869)	98	434671	10.0000	9.000	80.00-	120.00	100.00	
11.827	11.827	(0.869)	61	1133110			0.00-	30.00	260.68	
11.827	11.827	(0.869)	96	659614			0.00-	30.00	151.75	
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
30 Hexane						CAS #: 110-54-3			
12.129	12.129	(0.892)	57	1081415	10.0000	9.330	80.00- 120.00	100.00	
12.129	12.129	(0.892)	43	686102			0.00- 30.00	63.44	
12.129	12.129	(0.892)	86	192230			0.00- 30.00	17.78	
-----									
31 1,1-Dichloroethane						CAS #: 75-34-3			
12.486	12.486	(0.918)	63	1253935	10.0000	9.279	80.00- 120.00	100.00	
12.486	12.486	(0.918)	65	429487			0.00- 30.00	34.25	
-----									
33 Vinyl Acetate						CAS #: 108-05-4			
12.541	12.541	(0.922)	43	1327407	10.0000	9.580	80.00- 120.00	100.00	
12.541	12.541	(0.922)	42	163616			0.00- 30.00	12.33	
12.541	12.541	(0.922)	86	139325			0.00- 30.00	10.50	
-----									
37 2-Butanone						CAS #: 78-93-3			
13.284	13.284	(0.976)	72	355861	10.0000	9.786	80.00- 120.00	100.00	
13.284	13.284	(0.976)	43	1426512			0.00- 30.00	400.86	
13.284	13.284	(0.976)	57	143981			0.00- 30.00	40.46	
-----									
36 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.284	13.284	(0.976)	98	436504	10.0000	9.253	80.00- 120.00	100.00	
13.284	13.284	(0.976)	61	1054168			0.00- 30.00	241.50	
13.284	13.284	(0.976)	96	675684			124.79- 184.79	154.79	
-----									
38 Tetrahydrofuran						CAS #: 109-99-9			
13.605	13.605	(1.000)	42	809297	10.0000	9.295	80.00- 120.00	100.00	
13.605	13.605	(1.000)	71	344445			0.00- 30.00	42.56	
13.605	13.605	(1.000)	72	356593			0.00- 30.00	44.06	
-----									
40 Chloroform						CAS #: 67-66-3			
13.667	13.667	(1.005)	83	1527478	10.0000	9.288	80.00- 120.00	100.00	
13.667	13.667	(1.005)	85	1011699			0.00- 30.00	66.23	
-----									
43 1,1,1-Trichloroethane						CAS #: 71-55-6			
13.882	13.882	(1.020)	97	1802556	10.0000	9.591	80.00- 120.00	100.00	
13.882	13.882	(1.020)	99	1184427			0.00- 30.00	65.71	
-----									
42 Cyclohexane						CAS #: 110-82-7			
13.882	13.882	(1.020)	84	985102	10.0000	9.292	80.00- 120.00	100.00	
13.882	13.882	(1.020)	56	1227452			0.00- 30.00	124.60	
13.882	13.882	(1.020)	41	757043			0.00- 30.00	76.85	
-----									
44 Carbon Tetrachloride						CAS #: 56-23-5			
14.067	14.067	(1.034)	119	1253445	10.0000	9.302	80.00- 120.00	100.00	
14.036	14.036	(1.032)	117	1307915			0.00- 30.00	104.35	
-----									

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #:	540-84-1			
14.310	14.310	(1.052)	56	1207158	10.0000	9.341	80.00-	120.00	100.00	
14.310	14.310	(1.052)	57	3474946			0.00-	30.00	287.86	
14.310	14.310	(1.052)	41	1168244			0.00-	30.00	96.78	
-----										
46	Benzene					CAS #:	71-43-2			
14.338	14.338	(0.965)	78	1996032	10.0000	8.738	80.00-	120.00	100.00	
14.338	14.338	(0.965)	77	530730			0.00-	30.00	26.59	
-----										
49	1,2-Dichloroethane					CAS #:	107-06-2			
14.448	14.448	(0.972)	62	1386592	10.0000	9.404	80.00-	120.00	100.00	
14.448	14.448	(0.972)	64	492333			0.00-	30.00	35.51	
-----										
50	Heptane					CAS #:	142-82-5			
14.530	14.530	(0.978)	57	785777	10.0000	9.248	80.00-	120.00	100.00	
14.530	14.530	(0.978)	100	266356			0.00-	30.00	33.90	
14.530	14.530	(0.978)	43	1382417			0.00-	30.00	175.93	
-----										
53	Trichloroethene					CAS #:	79-01-6			
15.216	15.216	(1.024)	130	919446	10.0000	9.315	80.00-	120.00	100.00	
15.216	15.216	(1.024)	95	1040879			0.00-	30.00	113.21	
15.216	15.216	(1.024)	97	694144			0.00-	30.00	75.50	
-----										
54	1,2-Dichloropropane					CAS #:	78-87-5			
15.601	15.601	(1.050)	63	884318	10.0000	9.359	80.00-	120.00	100.00	
15.601	15.601	(1.050)	62	632096			0.00-	30.00	71.48	
15.601	15.601	(1.050)	41	688865			47.90-	107.90	77.90	
-----										
55	1,4-Dioxane					CAS #:	123-91-1			
15.710	15.710	(1.057)	88	601751	10.0000	9.692	80.00-	120.00	100.00	
15.710	15.710	(1.057)	58	478087			0.00-	30.00	79.45	
15.710	15.710	(1.057)	57	182668			0.00-	30.00	30.36	
-----										
56	Bromodichloromethane					CAS #:	75-27-4			
15.985	15.985	(1.076)	83	1731650	10.0000	9.548	80.00-	120.00	100.00	
15.985	15.985	(1.076)	85	1150478			0.00-	30.00	66.44	
-----										
57	cis-1,3-Dichloropropene					CAS #:	10061-01-5			
16.680	16.680	(1.123)	75	1302306	10.0000	9.984	80.00-	120.00	100.00	
16.680	16.680	(1.123)	77	449109			0.00-	30.00	34.49	
16.680	16.680	(1.123)	39	882075			37.73-	97.73	67.73	
-----										
58	4-Methyl-2-pentanone					CAS #:	108-10-1			
16.859	16.859	(1.135)	43	1938166	10.0000	9.865	80.00-	120.00	100.00	
16.859	16.859	(1.135)	58	810383			0.00-	30.00	41.81	
16.859	16.859	(1.135)	85	377633			0.00-	30.00	19.48	
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
60 Toluene									
						CAS #:	108-88-3		
17.150	17.150	(1.154)	91	2455400	10.0000	9.118	80.00-	120.00	100.00
17.150	17.150	(1.154)	92	1548840			0.00-	30.00	63.08
-----									
61 trans-1,3-Dichloropropene									
						CAS #:	10061-02-6		
17.531	17.531	(0.918)	75	1508655	10.0000	9.513	80.00-	120.00	100.00
17.531	17.531	(0.918)	77	524983			0.00-	30.00	34.80
17.531	17.531	(0.918)	39	898449			29.55-	89.55	59.55
-----									
62 1,1,2-Trichloroethane									
						CAS #:	79-00-5		
17.818	17.818	(0.933)	97	1013691	10.0000	9.505	80.00-	120.00	100.00
17.818	17.818	(0.933)	99	637904			0.00-	30.00	62.93
17.818	17.818	(0.933)	83	875029			56.32-	116.32	86.32
-----									
63 Tetrachloroethene									
						CAS #:	127-18-4		
17.935	17.935	(0.939)	166	1361460	10.0000	9.651	80.00-	120.00	100.00
17.906	17.906	(0.938)	129	1033279			0.00-	30.00	75.89
17.906	17.906	(0.938)	131	1002619			43.64-	103.64	73.64
-----									
64 2-Hexanone									
						CAS #:	591-78-6		
18.051	18.051	(0.945)	58	1306517	10.0000	9.921	80.00-	120.00	100.00
18.051	18.051	(0.945)	43	2301280			0.00-	30.00	176.14
18.051	18.051	(0.945)	100	286366			0.00-	30.00	21.92
-----									
66 Dibromochloromethane									
						CAS #:	124-48-1		
18.343	18.343	(0.961)	129	1708117	10.0000	10.056	80.00-	120.00	100.00
18.343	18.343	(0.961)	127	1353916			0.00-	30.00	79.26
-----									
67 1,2-Dibromoethane									
						CAS #:	106-93-4		
18.547	18.547	(0.971)	107	1763110	10.0000	9.619	80.00-	120.00	100.00
18.547	18.547	(0.971)	109	1638667			0.00-	30.00	92.94
-----									
69 Chlorobenzene									
						CAS #:	108-90-7		
19.141	19.141	(1.003)	112	2768195	10.0000	9.191	80.00-	120.00	100.00
19.141	19.141	(1.003)	114	978580			0.00-	30.00	35.35
19.141	19.141	(1.003)	77	2027790			43.25-	103.25	73.25
-----									
70 Ethyl Benzene									
						CAS #:	100-41-4		
19.214	19.214	(1.006)	106	1619504	10.0000	9.484	80.00-	120.00	100.00
19.214	19.214	(1.006)	91	4935853			0.00-	30.00	304.78
-----									
71 m,p-Xylene									
						CAS #:	108-38-3		
19.358	19.358	(1.014)	106	2066593	10.0000	9.559	80.00-	120.00	100.00
19.358	19.358	(1.014)	91	4141088			0.00-	30.00	200.38
-----									
72 o-Xylene									
						CAS #:	95-47-6		
19.888	19.888	(1.042)	106	2127009	10.0000	9.796	80.00-	120.00	100.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	4455535			0.00- 30.00	209.47	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	3365964	10.0000	10.157	80.00- 120.00	100.00	
19.912	19.912	(1.043)	78	1996952			0.00- 30.00	59.33	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	1840826	10.0000	10.553	80.00- 120.00	100.00	
20.201	20.201	(1.058)	171	1015711			0.00- 30.00	55.18	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	6086031	10.0000	9.812	80.00- 120.00	100.00	
20.298	20.298	(1.063)	120	1731082			0.00- 30.00	28.44	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	3561747	10.0000	9.727	80.00- 120.00	100.00	
20.729	20.729	(1.086)	85	2328704			0.00- 30.00	65.38	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	8049233	10.0000	9.966	80.00- 120.00	100.00	
20.781	20.781	(1.088)	120	1921045			0.00- 30.00	23.87	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	7954180	10.0000	10.196	80.00- 120.00	100.00	
20.910	20.910	(1.095)	120	2622213			0.00- 30.00	32.97	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	5901443	10.0000	9.857	80.00- 120.00	100.00	
20.987	20.987	(1.099)	120	2950412			0.00- 30.00	49.99	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	5994293	10.0000	9.900	80.00- 120.00	100.00	
21.425	21.425	(1.122)	120	2798679			0.00- 30.00	46.69	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	3984578	10.0000	9.886	80.00- 120.00	100.00	
21.812	21.812	(1.142)	148	2580672			0.00- 30.00	64.77	
21.812	21.812	(1.142)	111	1836965			0.00- 30.00	46.10	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	4066281	10.0000	9.925	80.00- 120.00	100.00	
21.915	21.915	(1.148)	148	2649137			0.00- 30.00	65.15	
21.915	21.915	(1.148)	111	1777315			0.00- 30.00	43.71	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	5150683	10.0000	10.686	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	1081261			0.00- 30.00	20.99	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	3682026	10.0000	9.664	80.00- 120.00	100.00	
22.354	22.354	(1.171)	148	2412049			35.51- 95.51	65.51	
22.328	22.328	(1.169)	111	1764576			17.92- 77.92	47.92	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	2399656	10.0000	9.579	80.00- 120.00	100.00	
24.107	24.107	(1.263)	182	2267845			0.00- 30.00	94.51	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	2064768	10.0000	9.467	80.00- 120.00	100.00	
24.184	24.184	(1.267)	223	1374170			0.00- 30.00	66.55	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.279)	128	4350242	10.0000	9.784	80.00- 120.00	100.00	
24.416	24.416	(1.279)	127	635178			0.00- 30.00	14.60	
-----									
179 Butane CAS #: 106-97-8									
6.754	6.754	(0.496)	58	198948	10.0000	9.190	80.00- 120.00	100.00	
6.754	6.754	(0.496)	43	1207496			0.00- 30.00	606.94	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	650594	10.0000	9.407	80.00- 120.00	100.00	
8.736	8.736	(0.642)	43	844589			0.00- 30.00	129.82	
8.736	8.736	(0.642)	42	728428			0.00- 30.00	111.96	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	1390655	10.0000	9.852	80.00- 120.00	100.00	
15.408	15.408	(1.133)	98	686902			0.00- 30.00	49.39	
15.408	15.408	(1.133)	55	1339516			0.00- 30.00	96.32	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.717	11.717	(0.861)	59	1592106	10.0000	9.629	80.00- 120.00	100.00	
11.717	11.717	(0.861)	41	390528			0.00- 30.00	24.53	
11.717	11.717	(0.861)	57	202984			0.00- 30.00	12.75	
-----									



Report Date: 25-Apr-2008 07:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042219.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 9

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 50ppbv -&gt; 10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	407140	0.00
52 1,4-Difluorobenze	1616499	969899	2263099	1616499	0.00
68 Chlorobenzene-d5	2038617	1223170	2854064	2038617	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 21:50

Client ID: Level 9

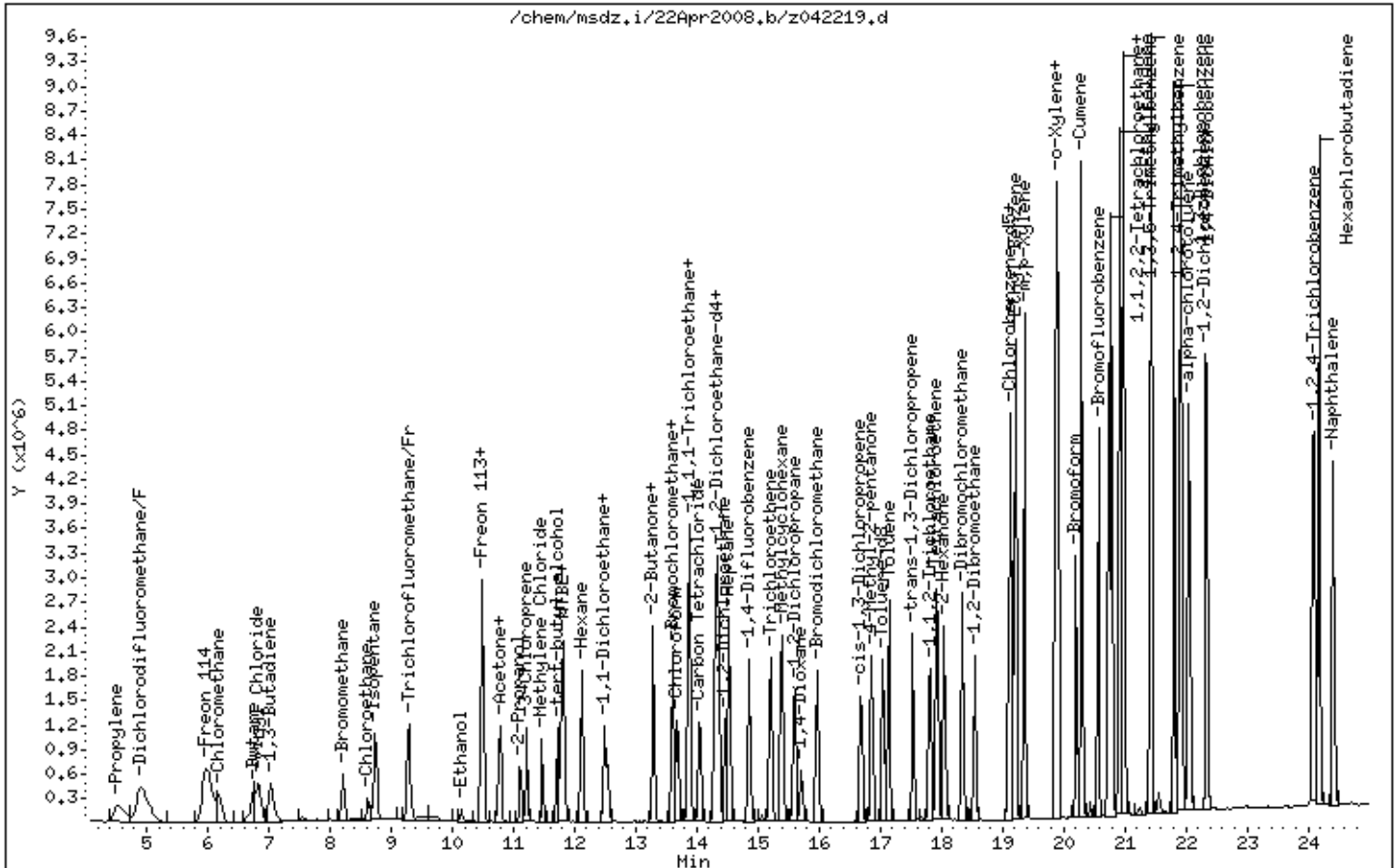
Instrument: msdz,i

Sample Info: 100mL #1541-91

Operator: ACT

Column phase: RTX-624

Column diameter: 0.32



Report Date: 09-May-2008 11:26

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042907.d  
 Lab Smp Id: ICAL Client Smp ID: Level 10  
 Inj Date : 29-APR-2008 14:26  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 200mL #1541-115  
 Misc Info : 50ppbv -> 20ppbv  
 Comment :  
 Method : /chem/msdz.i/29Apr2008.b/t1410422R1.m  
 Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD  
 Cal Date : 29-APR-2008 14:26 Cal File: z042907.d  
 Als bottle: 1 Calibration Sample, Level: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp4b.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
==	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5								
13.605	13.605	(1.000)	130	356496	10.0000		70.00- 130.00	100.00
13.605	13.605	(1.000)	128	280279			0.00- 30.00	78.62
13.605	13.605	(1.000)	49	551119			0.00- 30.00	154.59
-----								
* 52 1,4-Difluorobenzene CAS #: 540-36-3								
14.859	14.859	(1.000)	114	1343512	10.0000		70.00- 130.00	100.00
14.859	14.859	(1.000)	88	283745			0.00- 30.00	21.12
-----								
* 68 Chlorobenzene-d5 CAS #: 3114-55-4								
19.117	19.117	(1.000)	117	1403316	10.0000		70.00- 130.00	100.00
19.093	19.093	(1.000)	82	919353			0.00- 30.00	65.51
-----								
12 Vinyl Bromide CAS #: 593-60-2								
9.130	9.130	(0.671)	106	847443	20.0000	18.015	70.00- 130.00	100.00
9.130	9.130	(0.671)	108	788899			0.00- 30.00	93.09
-----								
24 Acetonitrile CAS #: 75-05-8								
11.333	11.333	(0.833)	40	437301	20.0000	13.026	70.00- 130.00	100.00
11.333	11.333	(0.833)	41	806517			0.00- 30.00	184.43

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
24 Acetonitrile (continued)									
11.388	11.388	(0.837)	39	893538			0.00- 30.00	204.33	
-----									
29 Acrylonitrile									
						CAS #: 107-13-1			
11.937	11.937	(0.877)	53	760861	20.0000	20.258	70.00- 130.00	100.00	
11.937	11.937	(0.877)	52	660061			0.00- 30.00	86.75	
-----									
34 Chlorprene									
						CAS #: 126-99-8			
12.568	12.568	(0.924)	53	1448445	20.0000	20.909	70.00- 130.00	100.00	
12.568	12.568	(0.924)	88	599414			0.00- 30.00	41.38	
-----									

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 29-APR-2008

Lab File ID: z042907.d

Calibration Time: 13:01

Lab Smp Id: ICAL

Client Smp ID: Level 10

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/29Apr2008.b/t1410422R1.m

Misc Info: 50ppbv -&gt; 20ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	327424	196454	458394	356496	8.88
52 1,4-Difluorobenze	1205511	723307	1687715	1343512	11.45
68 Chlorobenzene-d5	1420624	852374	1988874	1403316	-1.22

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 29-APR-2008 14:26

Client ID: Level 10

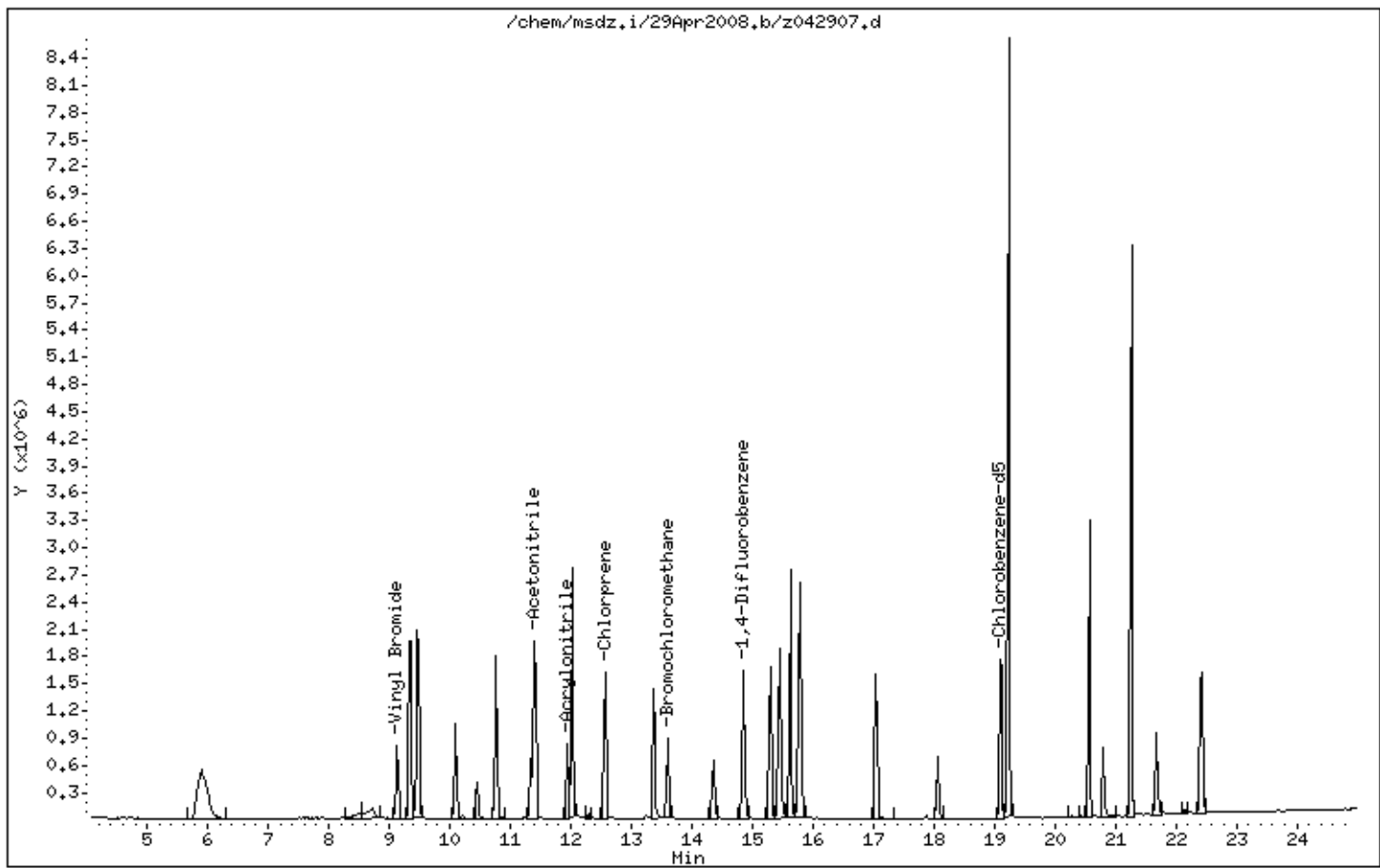
Instrument: msdz,i

Sample Info: 200mL #1541-115

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32



Report Date: 25-Apr-2008 07:37

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042220.d  
 Lab Smp Id: ICAL Client Smp ID: Level 10  
 Inj Date : 22-APR-2008 22:30  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 200mL #1541-91  
 Misc Info : 50ppbv -> 20ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:36 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 22:30 Cal File: z042220.d  
 Als bottle: 1 Calibration Sample, Level: 10  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	396921	10.0000			70.00- 130.00	100.00
13.605	13.605	(1.000)	128	307157				0.00- 30.00	77.38
13.605	13.605	(1.000)	49	646152				0.00- 30.00	162.79
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1582388	10.0000			70.00- 130.00	100.00
14.859	14.859	(1.000)	88	337112				0.00- 30.00	21.30
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	2016081	10.0000			70.00- 130.00	100.00
19.093	19.093	(1.000)	82	1343106				0.00- 30.00	66.62
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	882814	10.0000	10.303		70.00- 130.00	100.00
14.365	14.365	(1.056)	67	513183				0.00- 30.00	58.13
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1663476	10.0000	10.054		70.00- 130.00	100.00
17.038	17.038	(1.147)	70	269001				0.00- 30.00	16.17

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
\$ 59 Toluene-d8 (continued)										
17.038	17.038	(1.147)	100	1120233			37.57- 97.57	67.34		
-----										
\$ 77 Bromofluorobenzene										
						CAS #:	460-00-4			
20.574	20.574	(1.078)	174	1524272	10.0000	10.046	70.00- 130.00	100.00		
20.574	20.574	(1.078)	95	2046848			103.94- 163.94	134.28		
20.574	20.574	(1.078)	176	1452220			66.39- 126.39	95.27		
-----										
1 Propylene						CAS #:	115-07-1			
4.521	4.521	(0.332)	41	1508842	20.0000	19.107	70.00- 130.00	100.00		
4.497	4.497	(0.331)	42	1013738			0.00- 30.00	67.19		
4.521	4.521	(0.332)	39	1211560			0.00- 30.00	80.30		
-----										
3 Dichlorodifluoromethane/Fr12						CAS #:	75-71-8			
4.907	4.907	(0.361)	85	5414331	20.0000	16.965	70.00- 130.00	100.00		
4.907	4.907	(0.361)	87	1897758			5.02- 65.02	35.05		
-----										
4 Freon 114						CAS #:	76-14-2			
5.967	5.967	(0.439)	135	2709492	20.0000	16.947	70.00- 130.00	100.00		
5.991	5.991	(0.440)	137	941995			0.00- 30.00	34.77		
-----										
5 Chloromethane						CAS #:	74-87-3			
6.184	6.184	(0.455)	50	1636996	20.0000	16.912	70.00- 130.00	100.00		
6.184	6.184	(0.455)	52	554122			0.00- 30.00	33.85		
-----										
6 Vinyl Chloride						CAS #:	75-01-4			
6.823	6.823	(0.502)	62	1572389	20.0000	16.251	70.00- 130.00	100.00		
6.823	6.823	(0.502)	64	544444			4.56- 64.56	34.63		
-----										
7 1,3-Butadiene						CAS #:	106-99-0			
7.032	7.032	(0.517)	54	1179216	20.0000	17.101	70.00- 130.00	100.00		
7.032	7.032	(0.517)	39	1185075			0.00- 30.00	100.50		
-----										
9 Bromomethane						CAS #:	74-83-9			
8.198	8.198	(0.603)	94	1175675	20.0000	15.502	70.00- 130.00	100.00		
8.198	8.198	(0.603)	96	1121442			62.26- 122.26	95.39		
-----										
10 Chloroethane						CAS #:	75-00-3			
8.612	8.612	(0.633)	64	745070	20.0000	17.145	70.00- 130.00	100.00		
8.612	8.612	(0.633)	49	245764			0.00- 30.00	32.99		
8.612	8.612	(0.633)	66	253509			0.00- 30.00	34.02		
-----										
13 Trichlorofluoromethane/Fr11						CAS #:	75-69-4			
9.296	9.296	(0.683)	101	3248247	20.0000	16.155	70.00- 130.00	100.00		
9.296	9.296	(0.683)	103	2139503			36.19- 96.19	65.87		
-----										



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	494024	20.0000	18.863	70.00- 130.00	100.00	
10.146	10.146	(0.746)	43	140080			0.00- 30.00	28.35	
10.146	10.146	(0.746)	46	210227			0.00- 30.00	42.55	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	1639109	20.0000	14.941	70.00- 130.00	100.00	
10.498	10.498	(0.772)	153	1079582			35.16- 95.16	65.86	
10.498	10.498	(0.772)	101	2008548			0.00- 30.00	122.54	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	690500	20.0000	15.764	70.00- 130.00	100.00	
10.477	10.477	(0.770)	61	2237383			0.00- 30.00	324.02	
10.498	10.498	(0.772)	96	1069839			0.00- 30.00	154.94	
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	647090	20.0000	16.873	70.00- 130.00	100.00	
10.747	10.747	(0.790)	43	2301796			0.00- 30.00	355.71	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	597549	20.0000	19.139	70.00- 130.00	100.00	
11.223	11.223	(0.825)	41	1668696			0.00- 30.00	279.26	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.099	11.099	(0.816)	45	2488821	20.0000	19.112	70.00- 130.00	100.00	
11.099	11.099	(0.816)	43	603020			0.00- 30.00	24.23	
11.120	11.120	(0.817)	59	111809			0.00- 30.00	4.49	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	3136190	20.0000	17.682	70.00- 130.00	100.00	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.470	(0.843)	84	958845	20.0000	15.972	70.00- 130.00	100.00	
11.470	11.470	(0.843)	49	1424575			0.00- 30.00	148.57	
11.470	11.470	(0.843)	51	481550			0.00- 30.00	50.22	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	3035239	20.0000	15.970	70.00- 130.00	100.00	
11.800	11.800	(0.867)	57	832886			0.00- 30.00	27.44	
11.800	11.800	(0.867)	41	924359			0.00- 30.00	30.45	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	805587	20.0000	17.108	70.00- 130.00	100.00	
11.827	11.827	(0.869)	61	2108124			0.00- 30.00	261.69	
11.827	11.827	(0.869)	96	1219301			0.00- 30.00	151.36	
-----									

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
30 Hexane			CAS #: 110-54-3					
12.129	12.129	(0.892)	57	2009460	20.0000	17.784	70.00- 130.00	100.00
12.129	12.129	(0.892)	43	1276176			0.00- 30.00	63.51
12.129	12.129	(0.892)	86	348074			0.00- 30.00	17.32
-----								
31 1,1-Dichloroethane			CAS #: 75-34-3					
12.486	12.486	(0.918)	63	2384438	20.0000	18.098	70.00- 130.00	100.00
12.486	12.486	(0.918)	65	792862			0.00- 30.00	33.25
-----								
33 Vinyl Acetate			CAS #: 108-05-4					
12.541	12.541	(0.922)	43	2792443	20.0000	20.671	70.00- 130.00	100.00(A)
12.541	12.541	(0.922)	42	337598			0.00- 30.00	12.09
12.541	12.541	(0.922)	86	281326			0.00- 30.00	10.07
-----								
37 2-Butanone			CAS #: 78-93-3					
13.284	13.284	(0.976)	72	676152	20.0000	19.072	70.00- 130.00	100.00
13.284	13.284	(0.976)	43	2673062			0.00- 30.00	395.33
13.284	13.284	(0.976)	57	270404			0.00- 30.00	39.99
-----								
36 cis-1,2-Dichloroethene			CAS #: 156-59-2					
13.284	13.284	(0.976)	98	802398	20.0000	17.447	70.00- 130.00	100.00
13.284	13.284	(0.976)	61	1977421			0.00- 30.00	246.44
13.284	13.284	(0.976)	96	1238599			124.79- 184.79	154.36
-----								
38 Tetrahydrofuran			CAS #: 109-99-9					
13.605	13.605	(1.000)	42	1554335	20.0000	18.312	70.00- 130.00	100.00
13.605	13.605	(1.000)	71	645497			0.00- 30.00	41.53
13.605	13.605	(1.000)	72	678766			0.00- 30.00	43.67
-----								
40 Chloroform			CAS #: 67-66-3					
13.667	13.667	(1.005)	83	2837858	20.0000	17.701	70.00- 130.00	100.00
13.667	13.667	(1.005)	85	1873250			0.00- 30.00	66.01
-----								
43 1,1,1-Trichloroethane			CAS #: 71-55-6					
13.882	13.882	(1.020)	97	3310532	20.0000	18.069	70.00- 130.00	100.00
13.882	13.882	(1.020)	99	2184498			0.00- 30.00	65.99
-----								
42 Cyclohexane			CAS #: 110-82-7					
13.882	13.882	(1.020)	84	1806757	20.0000	17.482	70.00- 130.00	100.00
13.882	13.882	(1.020)	56	2335180			0.00- 30.00	129.25
13.882	13.882	(1.020)	41	1410475			0.00- 30.00	78.07
-----								
44 Carbon Tetrachloride			CAS #: 56-23-5					
14.036	14.036	(1.032)	119	2339372	20.0000	17.808	70.00- 130.00	100.00
14.036	14.036	(1.032)	117	2418678			0.00- 30.00	103.39
-----								

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #: 540-84-1				
14.310	14.310	(1.052)	56	2270588	20.0000	18.022	70.00- 130.00	100.00		
14.310	14.310	(1.052)	57	6503107			0.00- 30.00	286.41		
14.310	14.310	(1.052)	41	2206204			0.00- 30.00	97.16		
-----										
46	Benzene					CAS #: 71-43-2				
14.338	14.338	(0.965)	78	3762839	20.0000	16.827	70.00- 130.00	100.00		
14.338	14.338	(0.965)	77	983205			0.00- 30.00	26.13		
-----										
49	1,2-Dichloroethane					CAS #: 107-06-2				
14.448	14.448	(0.972)	62	2576192	20.0000	17.849	70.00- 130.00	100.00		
14.448	14.448	(0.972)	64	913005			0.00- 30.00	35.44		
-----										
50	Heptane					CAS #: 142-82-5				
14.530	14.530	(0.978)	57	1482518	20.0000	17.824	70.00- 130.00	100.00		
14.530	14.530	(0.978)	100	495985			0.00- 30.00	33.46		
14.530	14.530	(0.978)	43	2597840			0.00- 30.00	175.23		
-----										
53	Trichloroethene					CAS #: 79-01-6				
15.216	15.216	(1.024)	130	1646860	20.0000	17.044	70.00- 130.00	100.00		
15.216	15.216	(1.024)	95	1901094			0.00- 30.00	115.44		
15.216	15.216	(1.024)	97	1266516			0.00- 30.00	76.90		
-----										
54	1,2-Dichloropropane					CAS #: 78-87-5				
15.601	15.601	(1.050)	63	1637253	20.0000	17.701	70.00- 130.00	100.00		
15.601	15.601	(1.050)	62	1201517			0.00- 30.00	73.39		
15.601	15.601	(1.050)	41	1307626			47.90- 107.90	79.87		
-----										
55	1,4-Dioxane					CAS #: 123-91-1				
15.710	15.710	(1.057)	88	1124772	20.0000	18.507	70.00- 130.00	100.00		
15.710	15.710	(1.057)	58	944850			0.00- 30.00	84.00		
15.710	15.710	(1.057)	57	346734			0.00- 30.00	30.83		
-----										
56	Bromodichloromethane					CAS #: 75-27-4				
15.985	15.985	(1.076)	83	3290549	20.0000	18.534	70.00- 130.00	100.00		
15.985	15.985	(1.076)	85	2145233			0.00- 30.00	65.19		
-----										
57	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
16.680	16.680	(1.123)	75	2479516	20.0000	19.420	70.00- 130.00	100.00		
16.680	16.680	(1.123)	77	839238			0.00- 30.00	33.85		
16.680	16.680	(1.123)	39	1711049			37.73- 97.73	69.01		
-----										
58	4-Methyl-2-pentanone					CAS #: 108-10-1				
16.859	16.859	(1.135)	43	3755797	20.0000	19.529	70.00- 130.00	100.00		
16.859	16.859	(1.135)	58	1555895			0.00- 30.00	41.43		
16.859	16.859	(1.135)	85	721802			0.00- 30.00	19.22		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
60 Toluene										
						CAS #:	108-88-3			
17.150	17.150	(1.154)	91	4614477	20.0000	17.504	70.00-	130.00	100.00	
17.150	17.150	(1.154)	92	2865385			0.00-	30.00	62.10	
-----										
61 trans-1,3-Dichloropropene										
						CAS #:	10061-02-6			
17.531	17.531	(0.918)	75	2893505	20.0000	18.450	70.00-	130.00	100.00	
17.531	17.531	(0.918)	77	999572			0.00-	30.00	34.55	
17.531	17.531	(0.918)	39	1764962			29.55-	89.55	61.00	
-----										
62 1,1,2-Trichloroethane										
						CAS #:	79-00-5			
17.818	17.818	(0.933)	97	1875092	20.0000	17.778	70.00-	130.00	100.00	
17.818	17.818	(0.933)	99	1205702			0.00-	30.00	64.30	
17.818	17.818	(0.933)	83	1632044			56.32-	116.32	87.04	
-----										
63 Tetrachloroethene										
						CAS #:	127-18-4			
17.935	17.935	(0.939)	166	2468156	20.0000	17.692	70.00-	130.00	100.00	
17.906	17.906	(0.938)	129	1916093			0.00-	30.00	77.63	
17.906	17.906	(0.938)	131	1867538			43.64-	103.64	75.67	
-----										
64 2-Hexanone										
						CAS #:	591-78-6			
18.051	18.051	(0.945)	58	2561330	20.0000	19.667	70.00-	130.00	100.00	
18.051	18.051	(0.945)	43	4597237			0.00-	30.00	179.49	
18.051	18.051	(0.945)	100	551003			0.00-	30.00	21.51	
-----										
66 Dibromochloromethane										
						CAS #:	124-48-1			
18.343	18.343	(0.961)	129	3170226	20.0000	18.872	70.00-	130.00	100.00	
18.343	18.343	(0.961)	127	2551672			0.00-	30.00	80.49	
-----										
67 1,2-Dibromoethane										
						CAS #:	106-93-4			
18.547	18.547	(0.971)	107	3249554	20.0000	17.927	70.00-	130.00	100.00	
18.547	18.547	(0.971)	109	3058701			0.00-	30.00	94.13	
-----										
69 Chlorobenzene										
						CAS #:	108-90-7			
19.141	19.141	(1.003)	112	5052736	20.0000	16.963	70.00-	130.00	100.00	
19.141	19.141	(1.003)	114	1749448			0.00-	30.00	34.62	
19.141	19.141	(1.003)	77	3744558			43.25-	103.25	74.11	
-----										
70 Ethyl Benzene										
						CAS #:	100-41-4			
19.214	19.214	(1.006)	106	2964156	20.0000	17.553	70.00-	130.00	100.00	
19.214	19.214	(1.006)	91	9319496			0.00-	30.00	314.41	
-----										
71 m,p-Xylene										
						CAS #:	108-38-3			
19.358	19.358	(1.014)	106	3760076	20.0000	17.587	70.00-	130.00	100.00	
19.358	19.358	(1.014)	91	7734534			0.00-	30.00	205.70	
-----										
72 o-Xylene										
						CAS #:	95-47-6			
19.888	19.888	(1.042)	106	3783808	20.0000	17.622	70.00-	130.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	8080942			0.00- 30.00	213.57	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	6011310	20.0000	18.343	70.00- 130.00	100.00	
19.912	19.912	(1.043)	78	3622817			0.00- 30.00	60.27	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	3503209	20.0000	20.307	70.00- 130.00	100.00(A)	
20.201	20.201	(1.058)	171	1889432			0.00- 30.00	53.93	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	11009119	20.0000	17.947	70.00- 130.00	100.00	
20.298	20.298	(1.063)	120	3046112			0.00- 30.00	27.67	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	6352504	20.0000	17.542	70.00- 130.00	100.00	
20.729	20.729	(1.086)	85	4212672			0.00- 30.00	66.32	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	14774947	20.0000	18.498	70.00- 130.00	100.00	
20.781	20.781	(1.088)	120	3494358			0.00- 30.00	23.65	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	14177168	20.0000	18.376	70.00- 130.00	100.00	
20.910	20.910	(1.095)	120	4580546			0.00- 30.00	32.31	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	10613690	20.0000	17.926	70.00- 130.00	100.00	
20.987	20.987	(1.099)	120	5213929			0.00- 30.00	49.12	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	11082616	20.0000	18.508	70.00- 130.00	100.00	
21.425	21.425	(1.122)	120	5162234			0.00- 30.00	46.58	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	7286461	20.0000	18.280	70.00- 130.00	100.00	
21.812	21.812	(1.142)	148	4732394			0.00- 30.00	64.95	
21.812	21.812	(1.142)	111	3383169			0.00- 30.00	46.43	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	7488022	20.0000	18.481	70.00- 130.00	100.00	
21.915	21.915	(1.148)	148	4837702			0.00- 30.00	64.61	
21.915	21.915	(1.148)	111	3327353			0.00- 30.00	44.44	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	10336676	20.0000	21.684	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	2122676			0.00- 30.00	20.54	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	6951252	20.0000	18.448	70.00- 130.00	100.00	
22.354	22.354	(1.171)	148	4506896			35.51- 95.51	64.84	
22.354	22.354	(1.171)	111	3344703			17.92- 77.92	48.12	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	4918194	20.0000	19.852	70.00- 130.00	100.00	
24.107	24.107	(1.263)	182	4651568			0.00- 30.00	94.58	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	4010063	20.0000	18.592	70.00- 130.00	100.00	
24.184	24.184	(1.267)	223	2656673			0.00- 30.00	66.25	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.279)	128	9171689	20.0000	20.857	70.00- 130.00	100.00(A)	
24.416	24.416	(1.279)	127	1335421			0.00- 30.00	14.56	
-----									
179 Butane CAS #: 106-97-8									
6.754	6.754	(0.496)	58	366105	20.0000	17.348	70.00- 130.00	100.00	
6.737	6.737	(0.495)	43	2229204			0.00- 30.00	608.90	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	1157707	20.0000	17.171	70.00- 130.00	100.00	
8.736	8.736	(0.642)	43	1475336			0.00- 30.00	127.44	
8.736	8.736	(0.642)	42	1297355			0.00- 30.00	112.06	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	2574991	20.0000	18.712	70.00- 130.00	100.00	
15.408	15.408	(1.133)	98	1239833			0.00- 30.00	48.15	
15.408	15.408	(1.133)	55	2530693			0.00- 30.00	98.28	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.717	11.717	(0.861)	59	2907413	20.0000	18.036	70.00- 130.00	100.00	
11.717	11.717	(0.861)	41	710831			0.00- 30.00	24.45	
11.717	11.717	(0.861)	57	388956			0.00- 30.00	13.38	
-----									

QC Flag Legend

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

Report Date: 25-Apr-2008 07:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042220.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 10

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 50ppbv -&gt; 20ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	396921	-2.51
52 1,4-Difluorobenze	1616499	969899	2263099	1582388	-2.11
68 Chlorobenzene-d5	2038617	1223170	2854064	2016081	-1.11

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 22:30

Client ID: Level 10

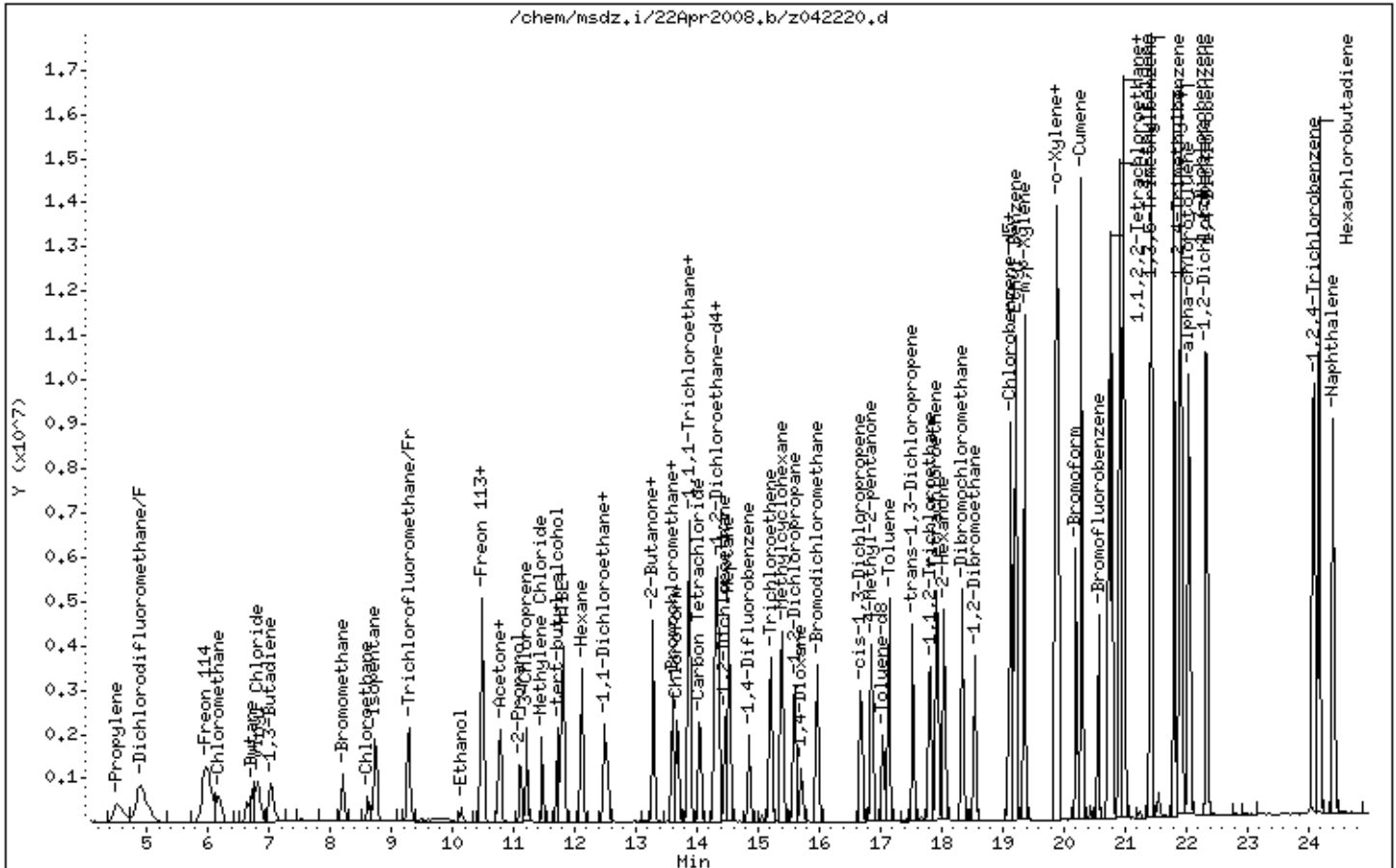
Instrument: msdz,i

Sample Info: 200mL #1541-91

Operator: ACT

Column phase: RTX-624

Column diameter: 0.32





Report Date: 09-May-2008 11:26

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/29Apr2008.b/z042908.d  
 Lab Smp Id: ICAL Client Smp ID: Level 11  
 Inj Date : 29-APR-2008 15:50  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 400mL #1541-115  
 Misc Info : 50ppbv -> 40ppbv  
 Comment :  
 Method : /chem/msdz.i/29Apr2008.b/t1410422R1.m  
 Meth Date : 09-May-2008 11:26 ejakob Quant Type: ISTD  
 Cal Date : 29-APR-2008 15:50 Cal File: z042908.d  
 Als bottle: 1 Calibration Sample, Level: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: sp4b.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	367950	10.0000			70.00- 130.00	100.00
13.605	13.605	(1.000)	128	287214				0.00- 30.00	78.06
13.605	13.605	(1.000)	49	585850				0.00- 30.00	159.22
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1420025	10.0000			70.00- 130.00	100.00
14.859	14.859	(1.000)	88	301480				0.00- 30.00	21.23
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.117	19.117	(1.000)	117	1617379	10.0000			70.00- 130.00	100.00
19.093	19.093	(1.000)	82	1044015				0.00- 30.00	64.55
-----									
12 Vinyl Bromide CAS #: 593-60-2									
9.109	9.109	(0.670)	106	1660906	40.0000	35.229		70.00- 130.00	100.00
9.130	9.130	(0.671)	108	1544376				0.00- 30.00	92.98
-----									
24 Acetonitrile CAS #: 75-05-8									
11.333	11.333	(0.833)	40	1333744	40.0000	38.783		70.00- 130.00	100.00
11.388	11.388	(0.837)	41	3227681				0.00- 30.00	242.00

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
24 Acetonitrile (continued)									
11.388	11.388	(0.837)	39	1739688			0.00- 30.00	130.44	
-----									
29 Acrylonitrile									
						CAS #: 107-13-1			
11.937	11.937	(0.877)	53	1599316	40.0000	40.999	70.00- 130.00	100.00(A)	
11.937	11.937	(0.877)	52	1379453			0.00- 30.00	86.25	
-----									
34 Chlorprene									
						CAS #: 126-99-8			
12.568	12.568	(0.924)	53	2965666	40.0000	41.173	70.00- 130.00	100.00(A)	
12.568	12.568	(0.924)	88	1242614			0.00- 30.00	41.90	
-----									

QC Flag Legend

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

Report Date: 09-May-2008 11:26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 29-APR-2008

Lab File ID: z042908.d

Calibration Time: 13:01

Lab Smp Id: ICAL

Client Smp ID: Level 11

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/29Apr2008.b/t1410422R1.m

Misc Info: 50ppbv -&gt; 40ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	327424	196454	458394	367950	12.38
52 1,4-Difluorobenze	1205511	723307	1687715	1420025	17.79
68 Chlorobenzene-d5	1420624	852374	1988874	1617379	13.85

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 29-APR-2008 15:50

Client ID: Level 11

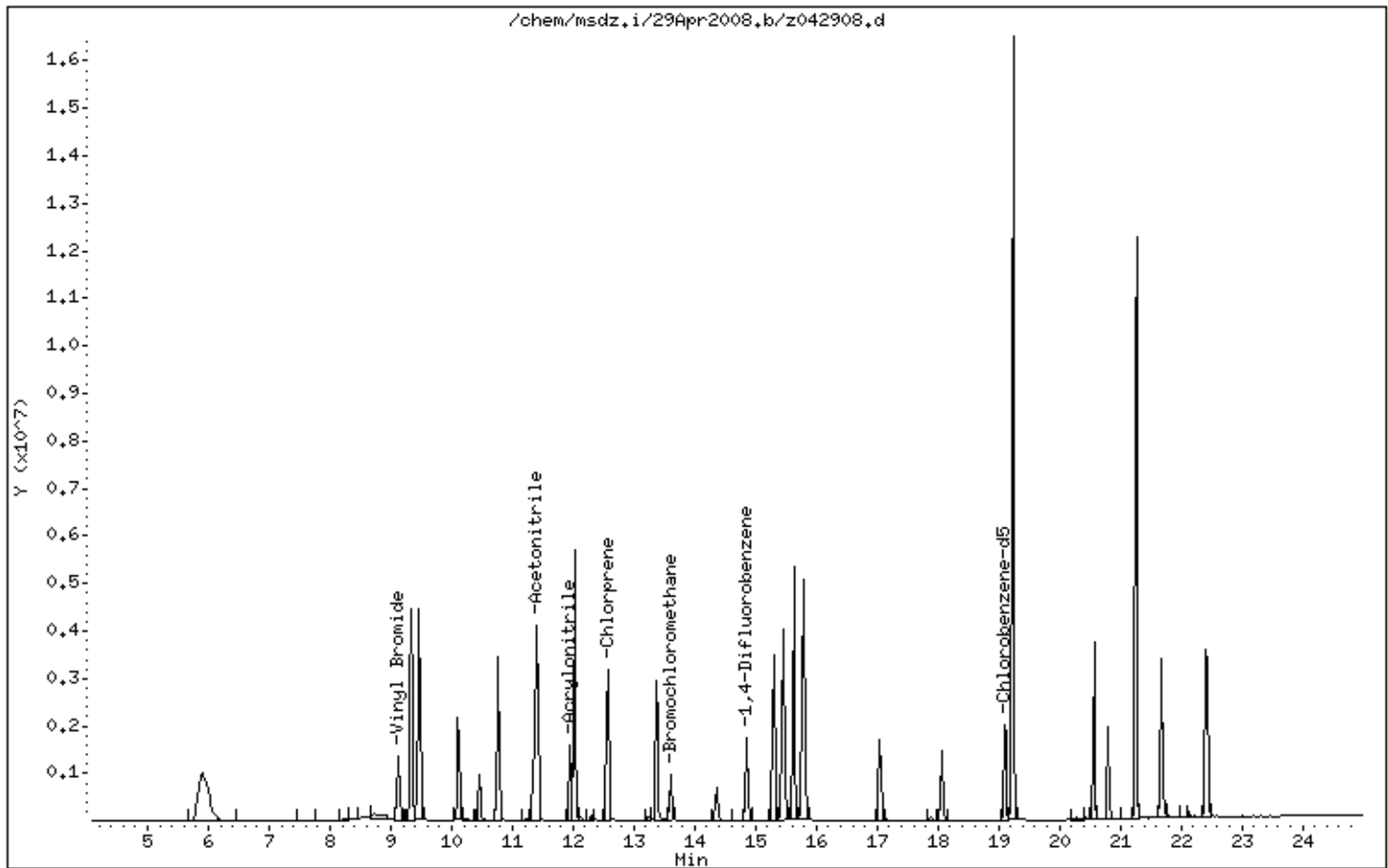
Instrument: msdz,i

Sample Info: 400mL #1541-115

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32



Report Date: 25-Apr-2008 07:37

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/22Apr2008.b/z042221.d  
 Lab Smp Id: ICAL Client Smp ID: Level 11  
 Inj Date : 22-APR-2008 23:25  
 Operator : ACT Inst ID: msdz.i  
 Smp Info : 400mL #1541-91  
 Misc Info : 50ppbv -> 40ppbv  
 Comment :  
 Method : /chem/msdz.i/22Apr2008.b/t1410422a.m  
 Meth Date : 25-Apr-2008 07:37 sruth Quant Type: ISTD  
 Cal Date : 22-APR-2008 23:25 Cal File: z042221.d  
 Als bottle: 1 Calibration Sample, Level: 11  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	429099	10.0000			70.00- 130.00	100.00
13.605	13.605	(1.000)	128	333791				0.00- 30.00	77.79
13.605	13.605	(1.000)	49	708068				0.00- 30.00	165.01
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1700904	10.0000			70.00- 130.00	100.00
14.859	14.859	(1.000)	88	359129				0.00- 30.00	21.11
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.093	19.093	(1.000)	117	2181747	10.0000			70.00- 130.00	100.00
19.093	19.093	(1.000)	82	1445756				0.00- 30.00	66.27
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	986318	10.0000	10.648		70.00- 130.00	100.00
14.365	14.365	(1.056)	67	606261				0.00- 30.00	61.47
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1826850	10.0000	10.273		70.00- 130.00	100.00
17.038	17.038	(1.147)	70	288749				0.00- 30.00	15.81

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 59 Toluene-d8 (continued)									
17.038	17.038	(1.147)	100	1256543			37.57- 97.57	68.78	
-----									
\$ 77 Bromofluorobenzene CAS #: 460-00-4									
20.574	20.574	(1.078)	174	1523488	10.0000	9.278	70.00- 130.00	100.00	
20.574	20.574	(1.078)	95	2071459			103.94- 163.94	135.97	
20.574	20.574	(1.078)	176	1457328			66.39- 126.39	95.66	
-----									
1 Propylene CAS #: 115-07-1									
4.521	4.521	(0.332)	41	2963454	40.0000	34.713	70.00- 130.00	100.00(A)	
4.521	4.521	(0.332)	42	2031405			0.00- 30.00	68.55	
4.521	4.521	(0.332)	39	2327035			0.00- 30.00	78.52	
-----									
3 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
4.907	4.907	(0.361)	85	10296761	40.0000	29.844	70.00- 130.00	100.00(A)	
4.907	4.907	(0.361)	87	3599846			5.02- 65.02	34.96	
-----									
4 Freon 114 CAS #: 76-14-2									
5.991	5.991	(0.440)	135	5061248	40.0000	29.282	70.00- 130.00	100.00(A)	
5.991	5.991	(0.440)	137	1749652			0.00- 30.00	34.57	
-----									
5 Chloromethane CAS #: 74-87-3									
6.184	6.184	(0.455)	50	3157962	40.0000	30.178	70.00- 130.00	100.00(A)	
6.184	6.184	(0.455)	52	1066828			0.00- 30.00	33.78	
-----									
6 Vinyl Chloride CAS #: 75-01-4									
6.823	6.823	(0.502)	62	3003830	40.0000	28.717	70.00- 130.00	100.00(A)	
6.823	6.823	(0.502)	64	1039371			4.56- 64.56	34.60	
-----									
7 1,3-Butadiene CAS #: 106-99-0									
7.032	7.032	(0.517)	54	2174185	40.0000	29.166	70.00- 130.00	100.00(A)	
7.032	7.032	(0.517)	39	2200657			0.00- 30.00	101.22	
-----									
9 Bromomethane CAS #: 74-83-9									
8.198	8.198	(0.603)	94	2342472	40.0000	28.570	70.00- 130.00	100.00(A)	
8.198	8.198	(0.603)	96	2198117			62.26- 122.26	93.84	
-----									
10 Chloroethane CAS #: 75-00-3									
8.612	8.612	(0.633)	64	1448556	40.0000	30.833	70.00- 130.00	100.00(A)	
8.612	8.612	(0.633)	49	474368			0.00- 30.00	32.75	
8.612	8.612	(0.633)	66	492412			0.00- 30.00	33.99	
-----									
13 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
9.296	9.296	(0.683)	101	6010500	40.0000	27.651	70.00- 130.00	100.00(A)	
9.296	9.296	(0.683)	103	3969852			36.19- 96.19	66.05	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	900611	40.0000	31.809	70.00- 130.00	100.00(A)	
10.146	10.146	(0.746)	43	243207			0.00- 30.00	27.00	
10.146	10.146	(0.746)	46	371657			0.00- 30.00	41.27	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	3121374	40.0000	26.318	70.00- 130.00	100.00(A)	
10.498	10.498	(0.772)	153	2044846			35.16- 95.16	65.51	
10.498	10.498	(0.772)	101	3805049			0.00- 30.00	121.90	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	1371868	40.0000	28.970	70.00- 130.00	100.00(A)	
10.477	10.477	(0.770)	61	4240300			0.00- 30.00	309.09	
10.498	10.498	(0.772)	96	2086326			0.00- 30.00	152.08	
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	1262121	40.0000	30.442	70.00- 130.00	100.00(A)	
10.747	10.747	(0.790)	43	4417986			0.00- 30.00	350.04	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	1130432	40.0000	33.491	70.00- 130.00	100.00(A)	
11.223	11.223	(0.825)	41	3247435			0.00- 30.00	287.27	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.099	11.099	(0.816)	45	4992035	40.0000	35.461	70.00- 130.00	100.00(A)	
11.099	11.099	(0.816)	43	1110633			0.00- 30.00	22.25	
11.099	11.099	(0.816)	59	214450			0.00- 30.00	4.30	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	6158712	40.0000	32.120	70.00- 130.00	100.00(A)	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.470	(0.843)	84	1860227	40.0000	28.664	70.00- 130.00	100.00(A)	
11.470	11.470	(0.843)	49	2752189			0.00- 30.00	147.95	
11.470	11.470	(0.843)	51	916119			0.00- 30.00	49.25	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	6043276	40.0000	29.413	70.00- 130.00	100.00(A)	
11.800	11.800	(0.867)	57	1583346			0.00- 30.00	26.20	
11.800	11.800	(0.867)	41	1690519			0.00- 30.00	27.97	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	1568173	40.0000	30.806	70.00- 130.00	100.00(A)	
11.827	11.827	(0.869)	61	4070209			0.00- 30.00	259.55	
11.827	11.827	(0.869)	96	2401607			0.00- 30.00	153.15	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
30 Hexane						CAS #: 110-54-3			
12.129	12.129	(0.892)	57	3884954	40.0000	31.804	70.00- 130.00	100.00(A)	
12.129	12.129	(0.892)	43	2429859			0.00- 30.00	62.55	
12.129	12.129	(0.892)	86	695079			0.00- 30.00	17.89	
-----									
31 1,1-Dichloroethane						CAS #: 75-34-3			
12.486	12.486	(0.918)	63	4644722	40.0000	32.611	70.00- 130.00	100.00(A)	
12.486	12.486	(0.918)	65	1555459			0.00- 30.00	33.49	
-----									
33 Vinyl Acetate						CAS #: 108-05-4			
12.541	12.541	(0.922)	43	5259168	40.0000	36.012	70.00- 130.00	100.00(A)	
12.541	12.541	(0.922)	42	656298			0.00- 30.00	12.48	
12.541	12.541	(0.922)	86	545111			0.00- 30.00	10.36	
-----									
37 2-Butanone						CAS #: 78-93-3			
13.284	13.284	(0.976)	72	1331521	40.0000	34.742	70.00- 130.00	100.00(A)	
13.284	13.284	(0.976)	43	5149853			0.00- 30.00	386.76	
13.284	13.284	(0.976)	57	527288			0.00- 30.00	39.60	
-----									
36 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.284	13.284	(0.976)	98	1591611	40.0000	32.012	70.00- 130.00	100.00(A)	
13.284	13.284	(0.976)	61	3872257			0.00- 30.00	243.29	
13.284	13.284	(0.976)	96	2446854			124.79- 184.79	153.73	
-----									
38 Tetrahydrofuran						CAS #: 109-99-9			
13.605	13.605	(1.000)	42	3033584	40.0000	33.059	70.00- 130.00	100.00(A)	
13.605	13.605	(1.000)	71	1277538			0.00- 30.00	42.11	
13.605	13.605	(1.000)	72	1338473			0.00- 30.00	44.12	
-----									
40 Chloroform						CAS #: 67-66-3			
13.667	13.667	(1.005)	83	5516542	40.0000	31.829	70.00- 130.00	100.00(A)	
13.667	13.667	(1.005)	85	3688129			0.00- 30.00	66.86	
-----									
43 1,1,1-Trichloroethane						CAS #: 71-55-6			
13.882	13.882	(1.020)	97	6392979	40.0000	32.276	70.00- 130.00	100.00(A)	
13.882	13.882	(1.020)	99	4217581			0.00- 30.00	65.97	
-----									
42 Cyclohexane						CAS #: 110-82-7			
13.882	13.882	(1.020)	84	3476542	40.0000	31.116	70.00- 130.00	100.00(A)	
13.882	13.882	(1.020)	56	4424922			0.00- 30.00	127.28	
13.882	13.882	(1.020)	41	2654731			0.00- 30.00	76.36	
-----									
44 Carbon Tetrachloride						CAS #: 56-23-5			
14.036	14.036	(1.032)	119	4613367	40.0000	32.484	70.00- 130.00	100.00(A)	
14.036	14.036	(1.032)	117	4748269			0.00- 30.00	102.92	



AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
-----										
45	2,2,4-Trimethylpentane					CAS #: 540-84-1				
14.310	14.310	(1.052)	56	4311102	40.0000	31.652	70.00- 130.00	100.00(A)		
14.310	14.310	(1.052)	57	12477826			0.00- 30.00	289.43		
14.310	14.310	(1.052)	41	4157062			0.00- 30.00	96.43		
-----										
46	Benzene					CAS #: 71-43-2				
14.338	14.338	(0.965)	78	7288125	40.0000	30.321	70.00- 130.00	100.00(A)		
14.338	14.338	(0.965)	77	1881363			0.00- 30.00	25.81		
-----										
49	1,2-Dichloroethane					CAS #: 107-06-2				
14.448	14.448	(0.972)	62	4918488	40.0000	31.704	70.00- 130.00	100.00(A)		
14.448	14.448	(0.972)	64	1710381			0.00- 30.00	34.77		
-----										
50	Heptane					CAS #: 142-82-5				
14.530	14.530	(0.978)	57	2771890	40.0000	31.004	70.00- 130.00	100.00(A)		
14.530	14.530	(0.978)	100	940455			0.00- 30.00	33.93		
14.530	14.530	(0.978)	43	4874119			0.00- 30.00	175.84		
-----										
53	Trichloroethene					CAS #: 79-01-6				
15.216	15.216	(1.024)	130	3230234	40.0000	31.101	70.00- 130.00	100.00(A)		
15.216	15.216	(1.024)	95	3800635			0.00- 30.00	117.66		
15.216	15.216	(1.024)	97	2493111			0.00- 30.00	77.18		
-----										
54	1,2-Dichloropropane					CAS #: 78-87-5				
15.601	15.601	(1.050)	63	3174515	40.0000	31.930	70.00- 130.00	100.00(A)		
15.601	15.601	(1.050)	62	2313875			0.00- 30.00	72.89		
15.601	15.601	(1.050)	41	2471074			47.90- 107.90	77.84		
-----										
55	1,4-Dioxane					CAS #: 123-91-1				
15.710	15.710	(1.057)	88	2254701	40.0000	34.513	70.00- 130.00	100.00(A)		
15.710	15.710	(1.057)	58	1785692			0.00- 30.00	79.20		
15.710	15.710	(1.057)	57	672713			0.00- 30.00	29.84		
-----										
56	Bromodichloromethane					CAS #: 75-27-4				
15.985	15.985	(1.076)	83	6553313	40.0000	34.339	70.00- 130.00	100.00(A)		
15.985	15.985	(1.076)	85	4255676			0.00- 30.00	64.94		
-----										
57	cis-1,3-Dichloropropene					CAS #: 10061-01-5				
16.680	16.680	(1.123)	75	4969394	40.0000	36.208	70.00- 130.00	100.00(A)		
16.680	16.680	(1.123)	77	1723067			0.00- 30.00	34.67		
16.680	16.680	(1.123)	39	3375834			37.73- 97.73	67.93		
-----										
58	4-Methyl-2-pentanone					CAS #: 108-10-1				
16.859	16.859	(1.135)	43	7374890	40.0000	35.675	70.00- 130.00	100.00(A)		
16.859	16.859	(1.135)	58	3086895			0.00- 30.00	41.86		
16.859	16.859	(1.135)	85	1413759			0.00- 30.00	19.17		
-----										

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
60 Toluene						CAS #: 108-88-3			
17.150	17.150	(1.154)	91	9207626	40.0000	32.494	70.00- 130.00	100.00(A)	
17.150	17.150	(1.154)	92	5722434			0.00- 30.00	62.15	
-----									
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
17.531	17.531	(0.918)	75	5814899	40.0000	34.262	70.00- 130.00	100.00(A)	
17.531	17.531	(0.918)	77	1984452			0.00- 30.00	34.13	
17.531	17.531	(0.918)	39	3499484			29.55- 89.55	60.18	
-----									
62 1,1,2-Trichloroethane						CAS #: 79-00-5			
17.818	17.818	(0.933)	97	3734590	40.0000	32.719	70.00- 130.00	100.00(A)	
17.818	17.818	(0.933)	99	2404764			0.00- 30.00	64.39	
17.818	17.818	(0.933)	83	3208622			56.32- 116.32	85.92	
-----									
63 Tetrachloroethene						CAS #: 127-18-4			
17.906	17.906	(0.938)	166	4828281	40.0000	31.982	70.00- 130.00	100.00(A)	
17.906	17.906	(0.938)	129	3727883			0.00- 30.00	77.21	
17.906	17.906	(0.938)	131	3620057			43.64- 103.64	74.98	
-----									
64 2-Hexanone						CAS #: 591-78-6			
18.051	18.051	(0.945)	58	4879748	40.0000	34.624	70.00- 130.00	100.00(A)	
18.051	18.051	(0.945)	43	8648519			0.00- 30.00	177.23	
18.051	18.051	(0.945)	100	1035738			0.00- 30.00	21.23	
-----									
66 Dibromochloromethane						CAS #: 124-48-1			
18.343	18.343	(0.961)	129	6271309	40.0000	34.497	70.00- 130.00	100.00(A)	
18.343	18.343	(0.961)	127	4953906			0.00- 30.00	78.99	
-----									
67 1,2-Dibromoethane						CAS #: 106-93-4			
18.547	18.547	(0.971)	107	6274329	40.0000	31.985	70.00- 130.00	100.00(A)	
18.547	18.547	(0.971)	109	5862452			0.00- 30.00	93.44	
-----									
69 Chlorobenzene						CAS #: 108-90-7			
19.141	19.141	(1.003)	112	9708434	40.0000	30.119	70.00- 130.00	100.00(A)	
19.141	19.141	(1.003)	114	3369518			0.00- 30.00	34.71	
19.141	19.141	(1.003)	77	7270100			43.25- 103.25	74.88	
-----									
70 Ethyl Benzene						CAS #: 100-41-4			
19.214	19.214	(1.006)	106	5476487	40.0000	29.967	70.00- 130.00	100.00(A)	
19.214	19.214	(1.006)	91	17360275			0.00- 30.00	317.00	
-----									
71 m,p-Xylene						CAS #: 108-38-3			
19.358	19.358	(1.014)	106	6883155	40.0000	29.751	70.00- 130.00	100.00(A)	
19.358	19.358	(1.014)	91	14197672			0.00- 30.00	206.27	
-----									
72 o-Xylene						CAS #: 95-47-6			
19.888	19.888	(1.042)	106	6748871	40.0000	29.044	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	14750683			0.00- 30.00	218.57	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	10935071	40.0000	30.833	70.00- 130.00	100.00(A)	
19.912	19.912	(1.043)	78	6604228			0.00- 30.00	60.39	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	6497562	40.0000	34.804	70.00- 130.00	100.00(A)	
20.201	20.201	(1.058)	171	3541354			0.00- 30.00	54.50	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	18909132	40.0000	28.485	70.00- 130.00	100.00(A)	
20.298	20.298	(1.063)	120	5384052			0.00- 30.00	28.47	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	11603466	40.0000	29.610	70.00- 130.00	100.00(A)	
20.729	20.729	(1.086)	85	7556586			0.00- 30.00	65.12	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	23793117	40.0000	27.526	70.00- 130.00	100.00(A)	
20.781	20.781	(1.088)	120	6105925			0.00- 30.00	25.66	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	24475278	40.0000	29.316	70.00- 130.00	100.00(A)	
20.910	20.910	(1.095)	120	8062779			0.00- 30.00	32.94	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	17768866	40.0000	27.732	70.00- 130.00	100.00(A)	
20.987	20.987	(1.099)	120	8967655			0.00- 30.00	50.47	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	17913634	40.0000	27.644	70.00- 130.00	100.00(A)	
21.425	21.425	(1.122)	120	9083811			0.00- 30.00	50.71	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	13404598	40.0000	31.075	70.00- 130.00	100.00(A)	
21.812	21.812	(1.142)	148	8664818			0.00- 30.00	64.64	
21.812	21.812	(1.142)	111	6205911			0.00- 30.00	46.30	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	13788889	40.0000	31.447	70.00- 130.00	100.00(A)	
21.915	21.915	(1.148)	148	8956771			0.00- 30.00	64.96	
21.915	21.915	(1.148)	111	6120894			0.00- 30.00	44.39	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	19581205	40.0000	37.959	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	3986377			0.00- 30.00	20.36	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	13192969	40.0000	32.354	70.00- 130.00	100.00(A)	
22.354	22.354	(1.171)	148	8481841			35.51- 95.51	64.29	
22.354	22.354	(1.171)	111	6278891			17.92- 77.92	47.59	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	9399947	40.0000	35.061	70.00- 130.00	100.00(A)	
24.107	24.107	(1.263)	182	8861414			0.00- 30.00	94.27	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	7737453	40.0000	33.150	70.00- 130.00	100.00(A)	
24.184	24.184	(1.267)	223	5027074			0.00- 30.00	64.97	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.279)	128	17206202	40.0000	36.157	70.00- 130.00	100.00(A)	
24.416	24.416	(1.279)	127	2482563			0.00- 30.00	14.43	
-----									
179 Butane CAS #: 106-97-8									
6.754	6.754	(0.496)	58	674481	40.0000	29.563	70.00- 130.00	100.00(A)	
6.754	6.754	(0.496)	43	4131819			0.00- 30.00	612.59	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	2167683	40.0000	29.740	70.00- 130.00	100.00(A)	
8.736	8.736	(0.642)	43	2784577			0.00- 30.00	128.46	
8.736	8.736	(0.642)	42	2403460			0.00- 30.00	110.88	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	4961433	40.0000	33.351	70.00- 130.00	100.00(A)	
15.408	15.408	(1.133)	98	2425327			0.00- 30.00	48.88	
15.408	15.408	(1.133)	55	4796351			0.00- 30.00	96.67	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.717	11.717	(0.861)	59	6058680	40.0000	34.767	70.00- 130.00	100.00	
11.717	11.717	(0.861)	41	1436717			0.00- 30.00	23.71	
11.717	11.717	(0.861)	57	798717			0.00- 30.00	13.18	

QC Flag Legend

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

Report Date: 25-Apr-2008 07:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 22-APR-2008

Lab File ID: z042221.d

Calibration Time: 21:50

Lab Smp Id: ICAL

Client Smp ID: Level 11

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: ACT

Method File: /chem/msdz.i/22Apr2008.b/t1410422a.m

Misc Info: 50ppbv -&gt; 40ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	407140	244284	569996	429099	5.39
52 1,4-Difluorobenze	1616499	969899	2263099	1700904	5.22
68 Chlorobenzene-d5	2038617	1223170	2854064	2181747	7.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 22-APR-2008 23:25

Client ID: Level 11

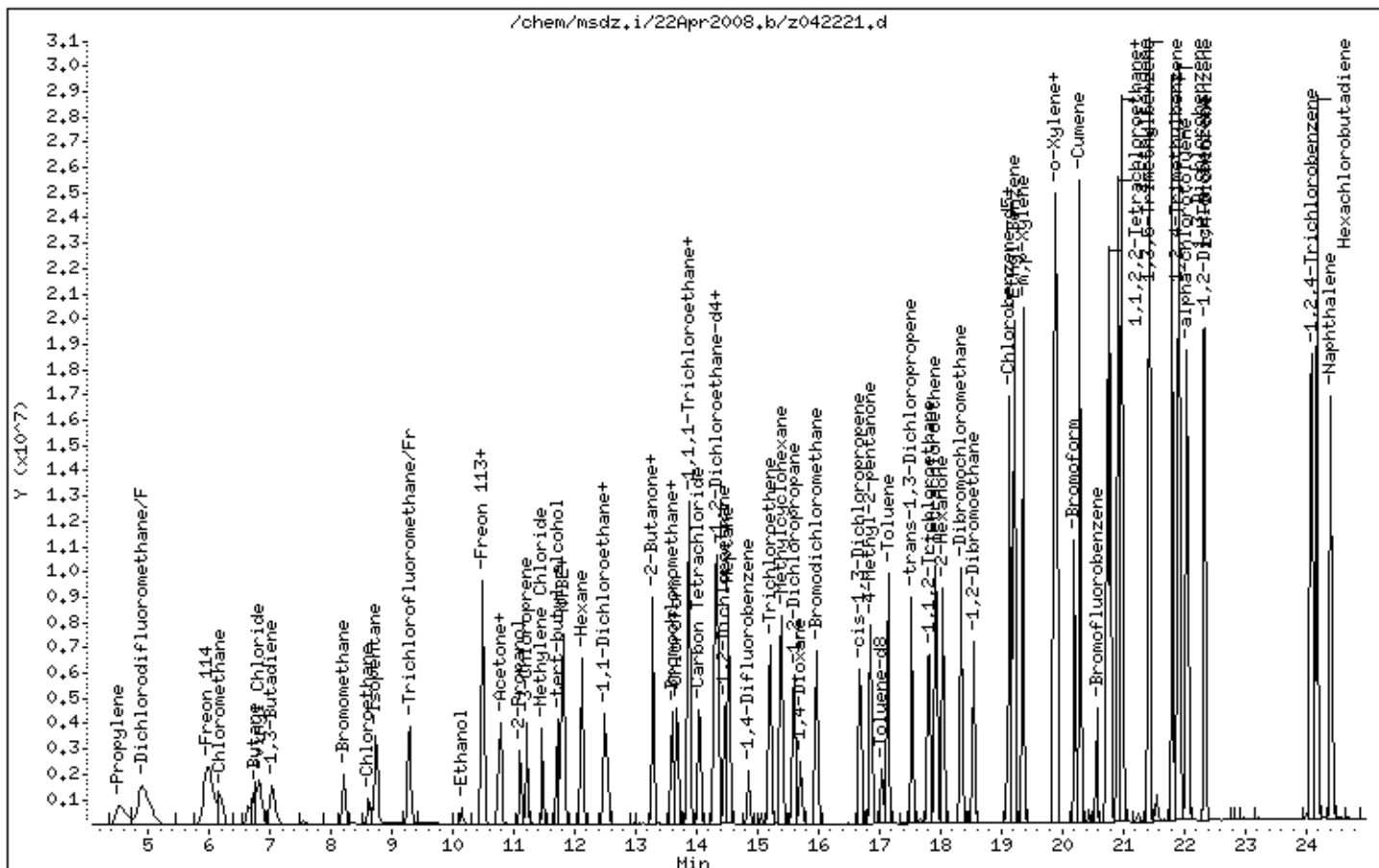
Instrument: msdz,i

Sample Info: 400mL #1541-91

Operator: ACT

Column phase: RTx-624

Column diameter: 0.32



Report Date: 09-May-2008 12:18

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050802.d  
 Lab Smp Id: ICAL Client Smp ID: Level 12  
 Inj Date : 08-MAY-2008 10:02  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 250mL #1612-6  
 Misc Info : 200ppbv -> 100ppbv  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 09-May-2008 12:18 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1 Calibration Sample, Level: 12  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: HILOcrvENSR.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
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5									
13.605	13.605	(1.000)	130	304246	10.0000			70.00- 130.00	100.00
13.605	13.605	(1.000)	128	240883				0.00- 30.00	79.17
13.605	13.605	(1.000)	49	585947				0.00- 30.00	192.59
-----									
* 52 1,4-Difluorobenzene CAS #: 540-36-3									
14.859	14.859	(1.000)	114	1086229	10.0000			70.00- 130.00	100.00
14.859	14.859	(1.000)	88	228547				0.00- 30.00	21.04
-----									
* 68 Chlorobenzene-d5 CAS #: 3114-55-4									
19.117	19.117	(1.000)	117	1389001	10.0000			70.00- 130.00	100.00
19.093	19.093	(1.000)	82	933142				0.00- 30.00	67.18
-----									
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0									
14.365	14.365	(1.056)	65	820472	10.0000	12.115		70.00- 130.00	100.00
14.365	14.365	(1.056)	67	620140				0.00- 30.00	75.58
-----									
\$ 59 Toluene-d8 CAS #: 2037-26-5									
17.038	17.038	(1.147)	98	1240956	10.0000	10.802		70.00- 130.00	100.00
17.038	17.038	(1.147)	70	202064				0.00- 30.00	16.28

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 59 Toluene-d8 (continued)									
17.038	17.038	(1.147)	100	853346			37.59- 97.59	68.77	
-----									
\$ 77 Bromofluorobenzene CAS #: 460-00-4									
20.574	20.574	(1.076)	174	997151	10.0000	9.594	70.00- 130.00	100.00	
20.574	20.574	(1.076)	95	1360058			101.89- 161.89	136.39	
20.574	20.574	(1.076)	176	962797			66.25- 126.25	96.55	
-----									
1 Propylene CAS #: 115-07-1									
4.521	4.521	(0.332)	41	5913794	100.000	98.021	70.00- 130.00	100.00(A)	
4.521	4.521	(0.332)	42	4025193			0.00- 30.00	68.06	
4.521	4.521	(0.332)	39	4715590			0.00- 30.00	79.74	
-----									
3 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
4.907	4.907	(0.361)	85	18254219	100.000	77.064	70.00- 130.00	100.00(A)	
4.907	4.907	(0.361)	87	6352405			4.96- 64.96	34.80	
-----									
4 Freon 114 CAS #: 76-14-2									
5.991	5.991	(0.440)	135	8558238	100.000	72.570	70.00- 130.00	100.00(A)	
5.967	5.967	(0.439)	137	2969851			0.00- 30.00	34.70	
-----									
5 Chloromethane CAS #: 74-87-3									
6.184	6.184	(0.455)	50	5791942	100.000	80.264	70.00- 130.00	100.00(A)	
6.184	6.184	(0.455)	52	1919453			0.00- 30.00	33.14	
-----									
6 Vinyl Chloride CAS #: 75-01-4									
6.823	6.823	(0.502)	62	5063705	100.000	71.094	70.00- 130.00	100.00(A)	
6.823	6.823	(0.502)	64	1755713			5.23- 65.23	34.67	
-----									
7 1,3-Butadiene CAS #: 106-99-0									
7.031	7.031	(0.517)	54	4296326	100.000	83.233	70.00- 130.00	100.00(A)	
7.031	7.031	(0.517)	39	4584247			0.00- 30.00	106.70	
-----									
9 Bromomethane CAS #: 74-83-9									
8.197	8.197	(0.603)	94	4014845	100.000	71.840	70.00- 130.00	100.00(A)	
8.197	8.197	(0.603)	96	3736698			65.93- 125.93	93.07	
-----									
10 Chloroethane CAS #: 75-00-3									
8.612	8.612	(0.633)	64	2587790	100.000	79.915	70.00- 130.00	100.00(A)	
8.612	8.612	(0.633)	49	950396			0.00- 30.00	36.73	
8.612	8.612	(0.633)	66	880990			0.00- 30.00	34.04	
-----									
13 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
9.296	9.296	(0.683)	101	10790286	100.000	72.737	70.00- 130.00	100.00(A)	
9.296	9.296	(0.683)	103	7054975			36.03- 96.03	65.38	
-----									



AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol						CAS #: 64-17-5			
10.145	10.145	(0.746)	45	1623133	100.000	83.128	70.00- 130.00	100.00(A)	
10.145	10.145	(0.746)	43	487252			0.00- 30.00	30.02	
10.145	10.145	(0.746)	46	680964			0.00- 30.00	41.95	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	4985826	100.000	62.469	70.00- 130.00	100.00(A)	
10.498	10.498	(0.772)	153	3254167			34.98- 94.98	65.27	
10.498	10.498	(0.772)	101	5971518			0.00- 30.00	119.77	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.477	10.477	(0.770)	98	2137325	100.000	66.687	70.00- 130.00	100.00(A)	
10.477	10.477	(0.770)	61	7010335			0.00- 30.00	328.00	
10.477	10.477	(0.770)	96	3252785			0.00- 30.00	152.19	
-----									
20 Acetone						CAS #: 67-64-1			
10.746	10.746	(0.790)	58	2026807	100.000	72.148	70.00- 130.00	100.00(A)	
10.746	10.746	(0.790)	43	7771194			0.00- 30.00	383.42	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	1857943	100.000	80.196	70.00- 130.00	100.00(A)	
11.223	11.223	(0.825)	41	6155243			0.00- 30.00	331.29	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.099	11.099	(0.816)	45	7433136	100.000	77.288	70.00- 130.00	100.00(A)	
11.099	11.099	(0.816)	43	2053550			0.00- 30.00	27.63	
11.099	11.099	(0.816)	59	339758			0.00- 30.00	4.57	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	10007476	100.000	76.122	70.00- 130.00	100.00(A)	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.470	(0.843)	84	2982649	100.000	67.801	70.00- 130.00	100.00(A)	
11.470	11.470	(0.843)	49	5009563			0.00- 30.00	167.96	
11.470	11.470	(0.843)	51	1647595			0.00- 30.00	55.24	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	6228871	100.000	46.052	70.00- 130.00	100.00(A)	
11.800	11.800	(0.867)	57	1753355			0.00- 30.00	28.15	
11.800	11.800	(0.867)	41	2157474			0.00- 30.00	34.64	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	2581541	100.000	74.165	70.00- 130.00	100.00(A)	
11.827	11.827	(0.869)	61	7020928			0.00- 30.00	271.97	
11.827	11.827	(0.869)	96	3969234			0.00- 30.00	153.75	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
30 Hexane						CAS #: 110-54-3			
12.129	12.129	(0.892)	57	6715326	100.000	79.775	70.00- 130.00	100.00(A)	
12.129	12.129	(0.892)	43	4524608			0.00- 30.00	67.38	
12.129	12.129	(0.892)	86	1114578			0.00- 30.00	16.60	
-----									
31 1,1-Dichloroethane						CAS #: 75-34-3			
12.486	12.486	(0.918)	63	7676441	100.000	78.364	70.00- 130.00	100.00(A)	
12.486	12.486	(0.918)	65	2546615			0.00- 30.00	33.17	
-----									
33 Vinyl Acetate						CAS #: 108-05-4			
12.541	12.541	(0.922)	43	8060158	100.000	80.385	70.00- 130.00	100.00(A)	
12.541	12.541	(0.922)	42	965377			0.00- 30.00	11.98	
12.541	12.541	(0.922)	86	731880			0.00- 30.00	9.08	
-----									
37 2-Butanone						CAS #: 78-93-3			
13.284	13.284	(0.976)	72	2106285	100.000	79.194	70.00- 130.00	100.00(A)	
13.284	13.284	(0.976)	43	9219498			0.00- 30.00	437.71	
13.284	13.284	(0.976)	57	892786			0.00- 30.00	42.39	
-----									
36 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.284	13.284	(0.976)	98	2533989	100.000	74.500	70.00- 130.00	100.00(A)	
13.284	13.284	(0.976)	61	6491527			0.00- 30.00	256.18	
13.284	13.284	(0.976)	96	3884165			119.42- 179.42	153.28	
-----									
38 Tetrahydrofuran						CAS #: 109-99-9			
13.605	13.605	(1.000)	42	5694744	100.000	89.115	70.00- 130.00	100.00(A)	
13.605	13.605	(1.000)	71	2011391			0.00- 30.00	35.32	
13.605	13.605	(1.000)	72	2074239			0.00- 30.00	36.42	
-----									
40 Chloroform						CAS #: 67-66-3			
13.666	13.666	(1.005)	83	9138494	100.000	76.826	70.00- 130.00	100.00(A)	
13.666	13.666	(1.005)	85	6014351			0.00- 30.00	65.81	
-----									
43 1,1,1-Trichloroethane						CAS #: 71-55-6			
13.882	13.882	(1.020)	97	10540485	100.000	77.469	70.00- 130.00	100.00(A)	
13.882	13.882	(1.020)	99	6870123			0.00- 30.00	65.18	
-----									
42 Cyclohexane						CAS #: 110-82-7			
13.882	13.882	(1.020)	84	5570257	100.000	73.024	70.00- 130.00	100.00(A)	
13.882	13.882	(1.020)	56	7513187			0.00- 30.00	134.88	
13.851	13.851	(1.018)	41	4675984			0.00- 30.00	83.95	
-----									
44 Carbon Tetrachloride						CAS #: 56-23-5			
14.036	14.036	(1.032)	119	10350688	100.000	102.43	70.00- 130.00	100.00(A)	
14.036	14.036	(1.032)	117	10812034			0.00- 30.00	104.46	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
45	2,2,4-Trimethylpentane				CAS #: 540-84-1				
14.310	14.310	(1.052)	56	7479785	100.000	79.699	70.00- 130.00	100.00(A)	
14.310	14.310	(1.052)	57	21545089			0.00- 30.00	288.04	
14.310	14.310	(1.052)	41	7571310			0.00- 30.00	101.22	
-----									
46	Benzene				CAS #: 71-43-2				
14.338	14.338	(0.965)	78	11779939	100.000	79.039	70.00- 130.00	100.00(A)	
14.338	14.338	(0.965)	77	3024374			0.00- 30.00	25.67	
-----									
49	1,2-Dichloroethane				CAS #: 107-06-2				
14.447	14.447	(0.972)	62	8615950	100.000	88.405	70.00- 130.00	100.00(A)	
14.447	14.447	(0.972)	64	2981239			0.00- 30.00	34.60	
-----									
50	Heptane				CAS #: 142-82-5				
14.530	14.530	(0.978)	57	4770782	100.000	85.312	70.00- 130.00	100.00(A)	
14.530	14.530	(0.978)	100	1508812			0.00- 30.00	31.63	
14.530	14.530	(0.978)	43	8915623			0.00- 30.00	186.88	
-----									
53	Trichloroethene				CAS #: 79-01-6				
15.216	15.216	(1.024)	130	5257426	100.000	81.373	70.00- 130.00	100.00(A)	
15.216	15.216	(1.024)	95	6014761			0.00- 30.00	114.41	
15.216	15.216	(1.024)	97	3983528			0.00- 30.00	75.77	
-----									
54	1,2-Dichloropropane				CAS #: 78-87-5				
15.600	15.600	(1.050)	63	5168028	100.000	83.334	70.00- 130.00	100.00(A)	
15.600	15.600	(1.050)	62	3744531			0.00- 30.00	72.46	
15.600	15.600	(1.050)	41	4603136			56.56- 116.56	89.07	
-----									
55	1,4-Dioxane				CAS #: 123-91-1				
15.710	15.710	(1.057)	88	3412689	100.000	77.984	70.00- 130.00	100.00(A)	
15.710	15.710	(1.057)	58	2982280			0.00- 30.00	87.39	
15.710	15.710	(1.057)	57	1122614			0.00- 30.00	32.90	
-----									
56	Bromodichloromethane				CAS #: 75-27-4				
15.985	15.985	(1.076)	83	10948180	100.000	90.989	70.00- 130.00	100.00(A)	
15.985	15.985	(1.076)	85	7127208			0.00- 30.00	65.10	
-----									
57	cis-1,3-Dichloropropene				CAS #: 10061-01-5				
16.680	16.680	(1.123)	75	7986789	100.000	92.147	70.00- 130.00	100.00(A)	
16.680	16.680	(1.123)	77	2724978			0.00- 30.00	34.12	
16.680	16.680	(1.123)	39	6143128			43.20- 103.20	76.92	
-----									
58	4-Methyl-2-pentanone				CAS #: 108-10-1				
16.859	16.859	(1.135)	43	13597712	100.000	102.61	70.00- 130.00	100.00(A)	
16.859	16.859	(1.135)	58	5194602			0.00- 30.00	38.20	
16.859	16.859	(1.135)	85	2231803			0.00- 30.00	16.41	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
-----									
60 Toluene						CAS #: 108-88-3			
17.150	17.150	(1.154)	91	14775235	100.000	83.566	70.00- 130.00	100.00(A)	
17.150	17.150	(1.154)	92	9062485			0.00- 30.00	61.34	
-----									
61 trans-1,3-Dichloropropene						CAS #: 10061-02-6			
17.531	17.531	(0.917)	75	9708519	100.000	91.006	70.00- 130.00	100.00(A)	
17.531	17.531	(0.917)	77	3249742			0.00- 30.00	33.47	
17.531	17.531	(0.917)	39	6481300			33.97- 93.97	66.76	
-----									
62 1,1,2-Trichloroethane						CAS #: 79-00-5			
17.818	17.818	(0.932)	97	5751701	100.000	81.269	70.00- 130.00	100.00(A)	
17.818	17.818	(0.932)	99	3684665			0.00- 30.00	64.06	
17.789	17.789	(0.931)	83	5000133			53.58- 113.58	86.93	
-----									
63 Tetrachloroethene						CAS #: 127-18-4			
17.935	17.935	(0.938)	166	7577795	100.000	80.985	70.00- 130.00	100.00(A)	
17.905	17.905	(0.937)	129	5825294			0.00- 30.00	76.87	
17.905	17.905	(0.937)	131	5667582			45.11- 105.11	74.79	
-----									
64 2-Hexanone						CAS #: 591-78-6			
18.051	18.051	(0.944)	58	7874685	100.000	89.324	70.00- 130.00	100.00(A)	
18.051	18.051	(0.944)	43	15591473			0.00- 30.00	197.99	
18.051	18.051	(0.944)	100	1571023			0.00- 30.00	19.95	
-----									
66 Dibromochloromethane						CAS #: 124-48-1			
18.343	18.343	(0.959)	129	10600247	100.000	92.561	70.00- 130.00	100.00(A)	
18.343	18.343	(0.959)	127	8469313			0.00- 30.00	79.90	
-----									
67 1,2-Dibromoethane						CAS #: 106-93-4			
18.547	18.547	(0.970)	107	9752352	100.000	80.289	70.00- 130.00	100.00(A)	
18.547	18.547	(0.970)	109	9075227			0.00- 30.00	93.06	
-----									
69 Chlorobenzene						CAS #: 108-90-7			
19.141	19.141	(1.001)	112	14415768	100.000	72.960	70.00- 130.00	100.00(A)	
19.141	19.141	(1.001)	114	4942890			0.00- 30.00	34.29	
19.141	19.141	(1.001)	77	10948468			41.05- 101.05	75.95	
-----									
70 Ethyl Benzene						CAS #: 100-41-4			
19.213	19.213	(1.005)	106	8105499	100.000	72.413	70.00- 130.00	100.00(A)	
19.213	19.213	(1.005)	91	21284234			0.00- 30.00	262.59	
-----									
71 m,p-Xylene						CAS #: 108-38-3			
19.358	19.358	(1.013)	106	10241451	100.000	72.283	70.00- 130.00	100.00(A)	
19.358	19.358	(1.013)	91	19829267			0.00- 30.00	193.62	
-----									
72 o-Xylene						CAS #: 95-47-6			
19.888	19.888	(1.040)	106	9725412	100.000	68.682	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.040)	91	21711975			0.00- 30.00	223.25	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.042)	104	15906033	100.000	73.149	70.00- 130.00	100.00(A)	
19.912	19.912	(1.042)	78	10289780			0.00- 30.00	64.69	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.057)	173	11614098	100.000	97.996	70.00- 130.00	100.00(A)	
20.201	20.201	(1.057)	171	6413890			0.00- 30.00	55.23	
-----									
76 Cumene CAS #: 98-82-8									
20.297	20.297	(1.062)	105	22438238	100.000	56.399	70.00- 130.00	100.00(A)	
20.297	20.297	(1.062)	120	7734241			0.00- 30.00	34.47	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.084)	83	16429763	100.000	68.790	70.00- 130.00	100.00(A)	
20.729	20.729	(1.084)	85	10723794			0.00- 30.00	65.27	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.780	20.780	(1.087)	91	26961703	100.000	52.330	70.00- 130.00	100.00(A)	
20.780	20.780	(1.087)	120	8610102			0.00- 30.00	31.93	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.909	20.909	(1.094)	105	30010020	100.000	59.709	70.00- 130.00	100.00(A)	
20.909	20.909	(1.094)	120	11036423			0.00- 30.00	36.78	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.098)	105	20170625	100.000	52.783	70.00- 130.00	100.00(A)	
20.987	20.987	(1.098)	120	12647117			0.00- 30.00	62.70	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.121)	105	20120945	100.000	52.109	70.00- 130.00	100.00(A)	
21.425	21.425	(1.121)	120	12415374			0.00- 30.00	61.70	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.141)	146	18149974	100.000	69.015	70.00- 130.00	100.00(A)	
21.812	21.812	(1.141)	148	11787238			0.00- 30.00	64.94	
21.812	21.812	(1.141)	111	8609460			0.00- 30.00	47.44	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.146)	146	18178360	100.000	68.088	70.00- 130.00	100.00(A)	
21.915	21.915	(1.146)	148	12025311			0.00- 30.00	66.15	
21.915	21.915	(1.146)	111	8494372			0.00- 30.00	46.73	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.153)	91	26896953	100.000	83.795	70.00- 130.00	100.00(A)	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.153)	126	6348922			0.00- 30.00	23.60	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.353	22.353	(1.169)	146	18480401	100.000	73.846	70.00- 130.00	100.00(A)	
22.353	22.353	(1.169)	148	11970321			35.81- 95.81	64.77	
22.353	22.353	(1.169)	111	8949967			17.37- 77.37	48.43	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.261)	180	13660040	100.000	82.381	70.00- 130.00	100.00(A)	
24.107	24.107	(1.261)	182	12691886			0.00- 30.00	92.91	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.265)	225	10557023	100.000	74.110	70.00- 130.00	100.00(A)	
24.184	24.184	(1.265)	223	6994920			0.00- 30.00	66.26	
-----									
99 Naphthalene CAS #: 91-20-3									
24.416	24.416	(1.277)	128	22940264	100.000	78.441	70.00- 130.00	100.00(A)	
24.416	24.416	(1.277)	127	3583174			0.00- 30.00	15.62	
-----									
179 Butane CAS #: 106-97-8									
6.754	6.754	(0.496)	58	1185890	100.000	76.216	70.00- 130.00	100.00(A)	
6.754	6.754	(0.496)	43	7985570			0.00- 30.00	673.38	
-----									
11 Isopentane CAS #: 78-78-4									
8.736	8.736	(0.642)	57	3885328	100.000	77.944	70.00- 130.00	100.00(A)	
8.736	8.736	(0.642)	43	5383541			0.00- 30.00	138.56	
8.736	8.736	(0.642)	42	4701157			0.00- 30.00	121.00	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.408	15.408	(1.133)	83	7847613	100.000	77.224	70.00- 130.00	100.00(A)	
15.408	15.408	(1.133)	98	3814272			0.00- 30.00	48.60	
15.408	15.408	(1.133)	55	8311748			0.00- 30.00	105.91	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.717	11.717	(0.861)	59	7570714	100.000	64.859	70.00- 130.00	100.00(A)	
11.717	11.717	(0.861)	41	2243528			0.00- 30.00	29.63	
11.717	11.717	(0.861)	57	1029114			0.00- 30.00	13.59	
-----									

QC Flag Legend

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

Report Date: 09-May-2008 12:18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 08-MAY-2008

Lab File ID: z050802.d

Calibration Time: 10:02

Lab Smp Id: ICAL

Client Smp ID: Level 12

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 200ppbv -&gt; 100ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	304246	182548	425944	304246	0.00
52 1,4-Difluorobenze	1086229	651737	1520721	1086229	0.00
68 Chlorobenzene-d5	1389001	833401	1944601	1389001	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.60	13.27	13.93	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.12	18.79	19.45	19.12	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.

Date : 08-MAY-2008 10:02

Client ID: Level 12

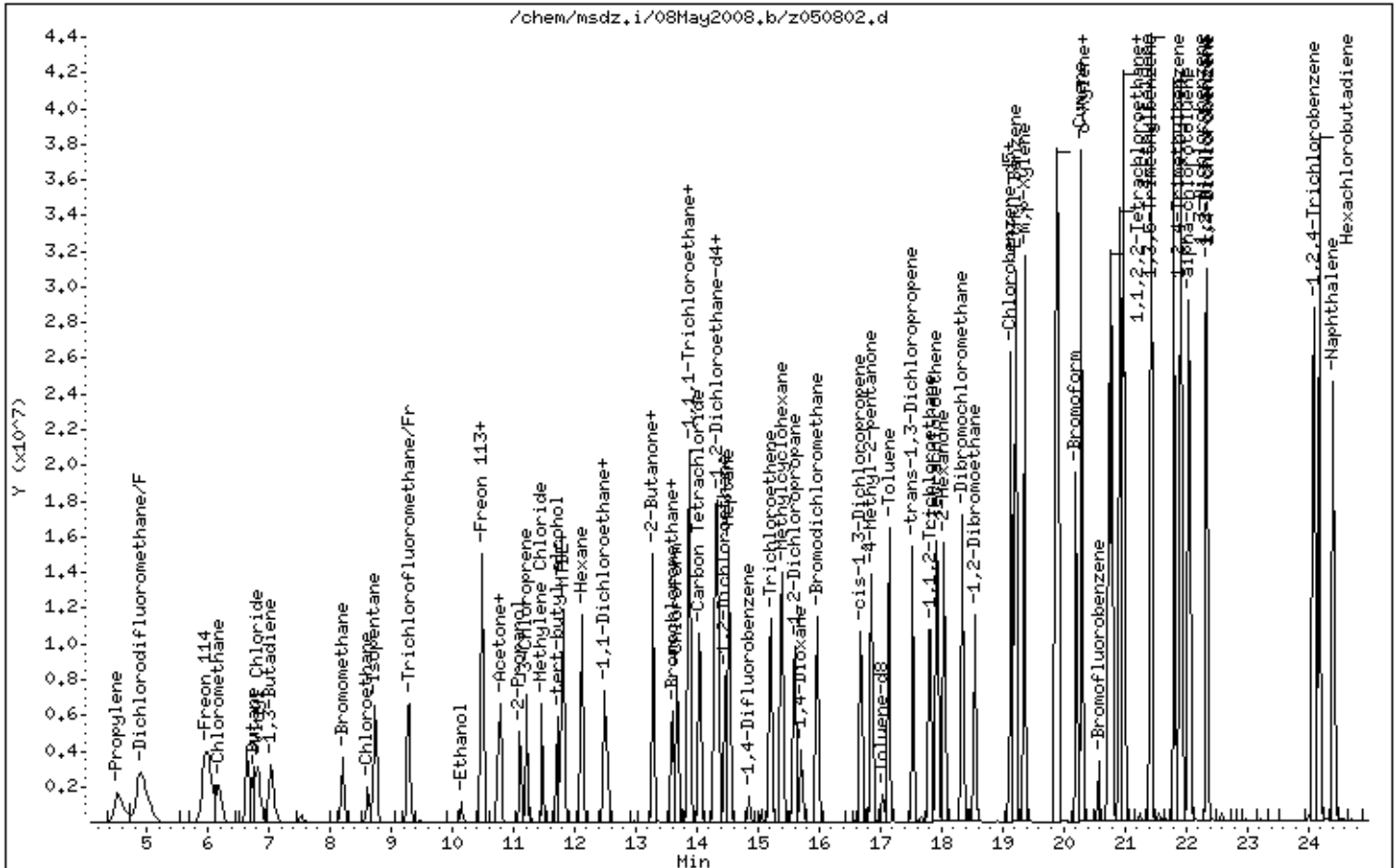
Instrument: msdz,i

Sample Info: 250mL #1612-6

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32







AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805029-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 01:18 PM

Compound	%Recovery
Freon 12	100
Freon 114	102
Vinyl Chloride	97
Bromomethane	98
Chloroethane	100
Freon 11	103
1,1-Dichloroethene	86
Freon 113	105
Methylene Chloride	88
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	85
Chloroform	96
1,1,1-Trichloroethane	101
Carbon Tetrachloride	132 Q
Benzene	97
1,2-Dichloroethane	112
Trichloroethene	103
1,2-Dichloropropane	99
cis-1,3-Dichloropropene	94
Toluene	97
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	104
Tetrachloroethene	113
1,2-Dibromoethane (EDB)	106
Chlorobenzene	102
Ethyl Benzene	100
m,p-Xylene	103
o-Xylene	103
Styrene	105
1,1,2,2-Tetrachloroethane	105
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	103
1,3-Butadiene	106
Hexane	90
Cyclohexane	85



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805029-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050804	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 01:18 PM

Compound	%Recovery
Heptane	102
Bromodichloromethane	109
Dibromochloromethane	125
Cumene	104
Propylbenzene	107
Chloromethane	104
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	105
Acetone	88
Carbon Disulfide	95
2-Propanol	99
trans-1,2-Dichloroethene	94
2-Butanone (Methyl Ethyl Ketone)	89
Tetrahydrofuran	96
1,4-Dioxane	92
4-Methyl-2-pentanone	109
2-Hexanone	104
Bromoform	140 Q
4-Ethyltoluene	107
Ethanol	93
Methyl tert-butyl ether	95
3-Chloropropene	93
2,2,4-Trimethylpentane	88
Naphthalene	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 09-May-2008 12:23

## Air Toxics Ltd.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i                      Injection Date: 08-MAY-2008 13:18  
 Lab File ID: z050804.d                  Init. Cal. Date(s): 22-APR-2008 08-MAY-2008  
 Analysis Type: AIR                        Init. Cal. Times: 19:38 10:02  
 Lab Sample ID: CCV-1                     Quant Type: ISTD  
 Method: /chem/msdz.i/08May2008.b/t1410422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN	MAX	CURVE TYPE
			RRF   %D / %DRIFT	%D / %DRIFT	
\$ 47 1,2-Dichloroethane-d4	2.22596	2.22339	0.010   0.11517	30.00000	Averaged
\$ 59 Toluene-d8	1.05765	1.07384	0.010   -1.53108	30.00000	Averaged
\$ 77 Bromofluorobenzene	0.74828	0.78086	0.010   -4.35423	30.00000	Averaged
1 Propylene	1.98300	2.13734	0.010   -7.78323	40.00000	Averaged
3 Dichlorodifluoromethane/Fr1	7.78547	7.80653	0.010   -0.27050	30.00000	Averaged
4 Freon 114	3.87617	3.96087	0.010   -2.18530	30.00000	Averaged
5 Chloromethane	2.37179	2.45738	0.010   -3.60864	30.00000	Averaged
6 Vinyl Chloride	2.34104	2.27843	0.010   2.67467	30.00000	Averaged
7 1,3-Butadiene	1.69659	1.80263	0.010   -6.24989	30.00000	Averaged
9 Bromomethane	1.83686	1.80696	0.010   1.62824	30.00000	Averaged
10 Chloroethane	1.06433	1.06782	0.010   -0.32771	30.00000	Averaged
13 Trichlorofluoromethane/Fr11	4.87589	5.02555	0.010   -3.06937	30.00000	Averaged
14 Ethanol	0.64177	0.59950	0.010   6.58617	30.00000	Averaged
15 1,1-Dichloroethene	1.05343	0.90664	0.010   13.93475	30.00000	Averaged
17 Freon 113	2.62328	2.75367	0.010   -4.97040	30.00000	Averaged
19 Carbon Disulfide	4.32105	4.10997	0.010   4.88499	30.00000	Averaged
20 Acetone	0.92334	0.81494	0.010   11.73965	30.00000	Averaged
21 2-Propanol	3.16108	3.14086	0.010   0.63973	30.00000	Averaged
22 3-Chloroprene	0.76147	0.71053	0.010   6.68910	40.00000	Averaged
25 Methylene Chloride	1.44591	1.26964	0.010   12.19125	30.00000	Averaged
27 MTBE	4.44562	4.21734	0.010   5.13504	30.00000	Averaged
28 trans-1,2-Dichloroethene	1.14408	1.07859	0.010   5.72449	30.00000	Averaged
30 Hexane	2.76678	2.48020	0.010   10.35782	30.00000	Averaged
31 1,1-Dichloroethane	3.21972	3.10248	0.010   3.64123	30.00000	Averaged
33 Vinyl Acetate	3.29565	2.94542	0.010   10.62718	40.00000	Averaged
36 cis-1,2-Dichloroethene	1.11795	0.95200	0.010   14.84388	30.00000	Averaged
37 2-Butanone	0.87418	0.77512	0.010   11.33166	30.00000	Averaged
38 Tetrahydrofuran	2.10038	2.01067	0.010   4.27155	30.00000	Averaged
40 Chloroform	3.90970	3.73748	0.010   4.40503	30.00000	Averaged
42 Cyclohexane	2.50718	2.13520	0.010   14.83676	30.00000	Averaged
43 1,1,1-Trichloroethane	4.47206	4.51202	0.010   -0.89358	30.00000	Averaged
44 Carbon Tetrachloride	3.32125	4.38166	0.010   -31.92804	30.00000	Averaged<-
46 Benzene	1.37209	1.33013	0.010   3.05819	30.00000	Averaged
45 2,2,4-Trimethylpentane	3.08470	2.70979	0.010   12.15395	30.00000	Averaged
49 1,2-Dichloroethane	0.89724	1.00395	0.010   -11.89395	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i                      Injection Date: 08-MAY-2008 13:18  
 Lab File ID: z050804.d                    Init. Cal. Date(s): 22-APR-2008 08-MAY-2008  
 Analysis Type: AIR                         Init. Cal. Times: 19:38                    10:02  
 Lab Sample ID: CCV-1                      Quant Type: ISTD  
 Method: /chem/msdz.i/08May2008.b/t1410422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
50 Heptane	0.51482	0.52372	0.010	-1.72855	30.00000	Averaged
53 Trichloroethene	0.59480	0.61112	0.010	-2.74421	30.00000	Averaged
54 1,2-Dichloropropane	0.57093	0.56320	0.010	1.35372	30.00000	Averaged
55 1,4-Dioxane	0.40288	0.37187	0.010	7.69509	30.00000	Averaged
56 Bromodichloromethane	1.10773	1.20925	0.010	-9.16468	30.00000	Averaged
57 cis-1,3-Dichloropropene	0.79794	0.75413	0.010	5.49030	30.00000	Averaged
58 4-Methyl-2-pentanone	1.21993	1.32576	0.010	-8.67527	30.00000	Averaged
60 Toluene	1.62774	1.57500	0.010	3.23995	30.00000	Averaged
61 trans-1,3-Dichloropropene	0.76804	0.78039	0.010	-1.60830	30.00000	Averaged
62 1,1,2-Trichloroethane	0.50953	0.52762	0.010	-3.55058	30.00000	Averaged
63 Tetrachloroethene	0.67365	0.75910	0.010	-12.68357	30.00000	Averaged
64 2-Hexanone	0.63469	0.65957	0.010	-3.92049	30.00000	Averaged
66 Dibromochloromethane	0.82449	1.02874	0.010	-24.77359	30.00000	Averaged
67 1,2-Dibromoethane	0.87448	0.92304	0.010	-5.55245	30.00000	Averaged
69 Chlorobenzene	1.42249	1.45647	0.010	-2.38871	30.00000	Averaged
70 Ethyl Benzene	0.80586	0.80610	0.010	-0.02946	30.00000	Averaged
71 m,p-Xylene	1.02005	1.04848	0.010	-2.78780	30.00000	Averaged
72 o-Xylene	1.01944	1.04978	0.010	-2.97626	30.00000	Averaged
73 Styrene	1.56548	1.64778	0.010	-5.25715	30.00000	Averaged
75 Bromoform	0.85325	1.19463	0.010	-40.00959	30.00000	Averaged<-
76 Cumene	2.86427	2.97913	0.010	-4.01026	30.00000	Averaged
79 1,1,2,2-Tetrachloroethane	1.71949	1.81282	0.010	-5.42733	30.00000	Averaged
80 Propylbenzene	3.70928	3.98205	0.010	-7.35369	30.00000	Averaged
82 4-Ethyltoluene	3.61844	3.86544	0.010	-6.82600	30.00000	Averaged
83 1,3,5-Trimethylbenzene	2.75120	2.93718	0.010	-6.76000	30.00000	Averaged
85 1,2,4-Trimethylbenzene	2.77995	2.88461	0.010	-3.76504	30.00000	Averaged
88 1,3-Dichlorobenzene	1.89335	1.99554	0.010	-5.39747	30.00000	Averaged
89 1,4-Dichlorobenzene	1.92211	2.06582	0.010	-7.47644	30.00000	Averaged
90 alpha-chlorotoluene	2.31092	2.61907	0.010	-13.33493	30.00000	Averaged
93 1,2-Dichlorobenzene	1.80170	1.86117	0.010	-3.30072	30.00000	Averaged
97 1,2,4-Trichlorobenzene	1.19378	1.19764	0.010	-0.32334	30.00000	Averaged
98 Hexachlorobutadiene	1.02557	1.07651	0.010	-4.96747	30.00000	Averaged
99 Naphthalene	2.10548	1.84548	0.010	12.34863	30.00000	Averaged
179 Butane	0.51142	0.47175	0.010	7.75649	40.00000	Averaged
11 Isopentane	1.63841	1.81063	0.010	-10.51148	40.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdz.i                    Injection Date: 08-MAY-2008 13:18  
Lab File ID: z050804.d                Init. Cal. Date(s): 22-APR-2008 08-MAY-2008  
Analysis Type: AIR                    Init. Cal. Times: 19:38                    10:02  
Lab Sample ID: CCV-1                Quant Type: ISTD  
Method: /chem/msdz.i/08May2008.b/t1410422c.m

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX RRF	%D / %DRIFT	CURVE TYPE
167 Methylcyclohexane	3.34009	2.88271	0.010	13.69373	40.00000		Averaged
26 tert-butyl alcohol	3.83654	3.20381	0.010	16.49212	40.00000		Averaged

Report Date: 09-May-2008 12:23

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050804.d  
 Lab Smp Id: CCV-1 Client Smp ID: CCV-1  
 Inj Date : 08-MAY-2008 13:18  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 100mL #1541-95;CCV-1;CCV-1  
 Misc Info : 50ppbv -> 10ppbv  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 09-May-2008 12:23 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT08.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

AMOUNTS								
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT	ON-COL	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====
* 39 Bromochloromethane CAS #: 74-97-5								
13.605	13.605	(1.000)	130	303019	10.0000		80.00- 120.00	100.00
13.605	13.605	(1.000)	128	240587			0.00- 30.00	79.40
13.605	13.605	(1.000)	49	530516			0.00- 30.00	175.08
-----								
* 52 1,4-Difluorobenzene CAS #: 540-36-3								
14.860	14.860	(1.000)	114	1056800	10.0000		80.00- 120.00	100.00
14.860	14.860	(1.000)	88	218846			0.00- 30.00	20.71
-----								
* 68 Chlorobenzene-d5 CAS #: 3114-55-4								
19.093	19.093	(1.000)	117	1305891	10.0000		80.00- 120.00	100.00
19.093	19.093	(1.000)	82	860839			0.00- 30.00	65.92
-----								
\$ 47 1,2-Dichloroethane-d4 CAS #: 17060-07-0								
14.365	14.365	(1.056)	65	673730	10.0000	9.988	80.00- 120.00	100.00
14.365	14.365	(1.056)	67	353025			0.00- 30.00	52.40
-----								
\$ 59 Toluene-d8 CAS #: 2037-26-5								
17.039	17.039	(1.147)	98	1134839	10.0000	10.153	80.00- 120.00	100.00
17.039	17.039	(1.147)	70	178657			0.00- 30.00	15.74

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
\$ 59 Toluene-d8 (continued)									
17.039	17.039	(1.147)	100	767153			37.60- 97.60	67.60	
-----									
\$ 77 Bromofluorobenzene CAS #: 460-00-4									
20.575	20.575	(1.078)	174	1019716	10.0000	10.435	80.00- 120.00	100.00	
20.575	20.575	(1.078)	95	1340721			101.48- 161.48	131.48	
20.575	20.575	(1.078)	176	988668			66.96- 126.96	96.96	
-----									
1 Propylene CAS #: 115-07-1									
4.521	4.521	(0.332)	41	647654	10.0000	10.778	80.00- 120.00	100.00	
4.545	4.545	(0.334)	42	450537			0.00- 30.00	69.56	
4.521	4.521	(0.332)	39	517732			0.00- 30.00	79.94	
-----									
3 Dichlorodifluoromethane/Fr12 CAS #: 75-71-8									
4.907	4.907	(0.361)	85	2365527	10.0000	10.027	80.00- 120.00	100.00	
4.907	4.907	(0.361)	87	821070			4.71- 64.71	34.71	
-----									
4 Freon 114 CAS #: 76-14-2									
5.967	5.967	(0.439)	135	1200220	10.0000	10.218	80.00- 120.00	100.00	
5.967	5.967	(0.439)	137	408126			0.00- 30.00	34.00	
-----									
5 Chloromethane CAS #: 74-87-3									
6.184	6.184	(0.455)	50	744634	10.0000	10.361	80.00- 120.00	100.00	
6.184	6.184	(0.455)	52	248951			0.00- 30.00	33.43	
-----									
6 Vinyl Chloride CAS #: 75-01-4									
6.841	6.841	(0.503)	62	690407	10.0000	9.732	80.00- 120.00	100.00	
6.841	6.841	(0.503)	64	240041			4.77- 64.77	34.77	
-----									
7 1,3-Butadiene CAS #: 106-99-0									
7.014	7.014	(0.516)	54	546230	10.0000	10.625	80.00- 120.00	100.00	
7.032	7.032	(0.517)	39	571031			0.00- 30.00	104.54	
-----									
9 Bromomethane CAS #: 74-83-9									
8.198	8.198	(0.603)	94	547542	10.0000	9.837	80.00- 120.00	100.00	
8.198	8.198	(0.603)	96	515407			64.13- 124.13	94.13	
-----									
10 Chloroethane CAS #: 75-00-3									
8.612	8.612	(0.633)	64	323569	10.0000	10.033	80.00- 120.00	100.00	
8.612	8.612	(0.633)	49	115940			0.00- 30.00	35.83	
8.612	8.612	(0.633)	66	110375			0.00- 30.00	34.11	
-----									
13 Trichlorofluoromethane/Fr11 CAS #: 75-69-4									
9.296	9.296	(0.683)	101	1522836	10.0000	10.307	80.00- 120.00	100.00	
9.296	9.296	(0.683)	103	1016979			36.78- 96.78	66.78	
-----									

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	181661	10.0000	9.341	80.00- 120.00	100.00	
10.146	10.146	(0.746)	43	58438			0.00- 30.00	32.17	
10.146	10.146	(0.746)	46	78050			0.00- 30.00	42.96	
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	274729	10.0000	8.606	80.00- 120.00	100.00	
10.477	10.477	(0.770)	61	879994			0.00- 30.00	320.31	
10.498	10.498	(0.772)	96	413464			0.00- 30.00	150.50	
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	834415	10.0000	10.497	80.00- 120.00	100.00	
10.498	10.498	(0.772)	153	553895			36.38- 96.38	66.38	
10.498	10.498	(0.772)	101	983163			0.00- 30.00	117.83	
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	1245398	10.0000	9.512	80.00- 120.00	100.00	
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	246943	10.0000	8.826	80.00- 120.00	100.00	
10.747	10.747	(0.790)	43	929745			0.00- 30.00	376.50	
-----									
21 2-Propanol						CAS #: 67-63-0			
11.099	11.099	(0.816)	45	951739	10.0000	9.936	80.00- 120.00	100.00	
11.099	11.099	(0.816)	43	265321			0.00- 30.00	27.88	
11.099	11.099	(0.816)	59	35569			0.00- 30.00	3.74	
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	215305	10.0000	9.331	80.00- 120.00	100.00	
11.223	11.223	(0.825)	41	681690			0.00- 30.00	316.62	
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.471	11.471	(0.843)	84	384724	10.0000	8.781	80.00- 120.00	100.00	
11.471	11.471	(0.843)	49	624611			0.00- 30.00	162.35	
11.471	11.471	(0.843)	51	207728			0.00- 30.00	53.99	
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	1277934	10.0000	9.486	80.00- 120.00	100.00	
11.800	11.800	(0.867)	57	357621			0.00- 30.00	27.98	
11.800	11.800	(0.867)	41	467608			0.00- 30.00	36.59	
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	326832	10.0000	9.428	80.00- 120.00	100.00	
11.827	11.827	(0.869)	61	869105			0.00- 30.00	265.92	
11.827	11.827	(0.869)	96	499732			0.00- 30.00	152.90	
-----									



AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
30 Hexane						CAS #:	110-54-3			
12.129	12.129	(0.892)	57	751549	10.0000	8.964	80.00-	120.00	100.00	
12.129	12.129	(0.892)	43	526504			0.00-	30.00	70.06	
12.129	12.129	(0.892)	86	130318			0.00-	30.00	17.34	
-----										
31 1,1-Dichloroethane						CAS #:	75-34-3			
12.486	12.486	(0.918)	63	940110	10.0000	9.636	80.00-	120.00	100.00	
12.486	12.486	(0.918)	65	307097			0.00-	30.00	32.67	
-----										
33 Vinyl Acetate						CAS #:	108-05-4			
12.541	12.541	(0.922)	43	892518	10.0000	8.937	80.00-	120.00	100.00	
12.541	12.541	(0.922)	42	119942			0.00-	30.00	13.44	
12.541	12.541	(0.922)	86	84837			0.00-	30.00	9.51	
-----										
36 cis-1,2-Dichloroethene						CAS #:	156-59-2			
13.285	13.285	(0.976)	98	288475	10.0000	8.516	80.00-	120.00	100.00	
13.285	13.285	(0.976)	61	748452			0.00-	30.00	259.45	
13.285	13.285	(0.976)	96	453312			127.14-	187.14	157.14	
-----										
37 2-Butanone						CAS #:	78-93-3			
13.285	13.285	(0.976)	72	234876	10.0000	8.867	80.00-	120.00	100.00	
13.285	13.285	(0.976)	43	1106954			0.00-	30.00	471.29	
13.285	13.285	(0.976)	57	103026			0.00-	30.00	43.86	
-----										
38 Tetrahydrofuran						CAS #:	109-99-9			
13.605	13.605	(1.000)	42	609270	10.0000	9.573	80.00-	120.00	100.00	
13.605	13.605	(1.000)	71	216016			0.00-	30.00	35.45	
13.605	13.605	(1.000)	72	230517			0.00-	30.00	37.83	
-----										
40 Chloroform						CAS #:	67-66-3			
13.667	13.667	(1.005)	83	1132526	10.0000	9.559	80.00-	120.00	100.00	
13.667	13.667	(1.005)	85	757821			0.00-	30.00	66.91	
-----										
42 Cyclohexane						CAS #:	110-82-7			
13.882	13.882	(1.020)	84	647005	10.0000	8.516	80.00-	120.00	100.00	
13.882	13.882	(1.020)	56	878385			0.00-	30.00	135.76	
13.882	13.882	(1.020)	41	580781			0.00-	30.00	89.76	
-----										
43 1,1,1-Trichloroethane						CAS #:	71-55-6			
13.882	13.882	(1.020)	97	1367229	10.0000	10.089	80.00-	120.00	100.00	
13.882	13.882	(1.020)	99	904351			0.00-	30.00	66.14	
-----										
44 Carbon Tetrachloride						CAS #:	56-23-5			
14.037	14.037	(1.032)	119	1327725	10.0000	13.193	80.00-	120.00	100.00	
14.037	14.037	(1.032)	117	1381454			0.00-	30.00	104.05	
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
46 Benzene						CAS #:	71-43-2			
14.338	14.338	(0.965)	78	1405677	10.0000	9.694	80.00- 120.00	100.00		
14.338	14.338	(0.965)	77	373905			0.00- 30.00	26.60		
-----										
45 2,2,4-Trimethylpentane						CAS #:	540-84-1			
14.311	14.311	(1.052)	56	821117	10.0000	8.785	80.00- 120.00	100.00		
14.311	14.311	(1.052)	57	2288065			0.00- 30.00	278.65		
14.311	14.311	(1.052)	41	858004			0.00- 30.00	104.49		
-----										
49 1,2-Dichloroethane						CAS #:	107-06-2			
14.448	14.448	(0.972)	62	1060977	10.0000	11.189	80.00- 120.00	100.00		
14.448	14.448	(0.972)	64	367575			0.00- 30.00	34.64		
-----										
50 Heptane						CAS #:	142-82-5			
14.530	14.530	(0.978)	57	553469	10.0000	10.173	80.00- 120.00	100.00		
14.530	14.530	(0.978)	100	181157			0.00- 30.00	32.73		
14.530	14.530	(0.978)	43	1034572			0.00- 30.00	186.93		
-----										
53 Trichloroethene						CAS #:	79-01-6			
15.216	15.216	(1.024)	130	645834	10.0000	10.274	80.00- 120.00	100.00		
15.216	15.216	(1.024)	95	713422			0.00- 30.00	110.47		
15.216	15.216	(1.024)	97	485164			0.00- 30.00	75.12		
-----										
54 1,2-Dichloropropane						CAS #:	78-87-5			
15.601	15.601	(1.050)	63	595186	10.0000	9.865	80.00- 120.00	100.00		
15.601	15.601	(1.050)	62	434079			0.00- 30.00	72.93		
15.601	15.601	(1.050)	41	551853			62.72- 122.72	92.72		
-----										
55 1,4-Dioxane						CAS #:	123-91-1			
15.710	15.710	(1.057)	88	392997	10.0000	9.230	80.00- 120.00	100.00		
15.710	15.710	(1.057)	58	340634			0.00- 30.00	86.68		
15.710	15.710	(1.057)	57	132099			0.00- 30.00	33.61		
-----										
56 Bromodichloromethane						CAS #:	75-27-4			
15.985	15.985	(1.076)	83	1277933	10.0000	10.916	80.00- 120.00	100.00		
15.985	15.985	(1.076)	85	839579			0.00- 30.00	65.70		
-----										
57 cis-1,3-Dichloropropene						CAS #:	10061-01-5			
16.680	16.680	(1.123)	75	796963	10.0000	9.451	80.00- 120.00	100.00		
16.680	16.680	(1.123)	77	278647			0.00- 30.00	34.96		
16.680	16.680	(1.123)	39	613871			47.03- 107.03	77.03		
-----										
58 4-Methyl-2-pentanone						CAS #:	108-10-1			
16.859	16.859	(1.135)	43	1401064	10.0000	10.868	80.00- 120.00	100.00		
16.859	16.859	(1.135)	58	521603			0.00- 30.00	37.23		
16.859	16.859	(1.135)	85	226937			0.00- 30.00	16.20		
-----										

AMOUNTS										
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO		
==	=====	=====	=====	=====	=====	=====	=====	=====		
60 Toluene						CAS #:	108-88-3			
17.151	17.151	(1.154)	91	1664457	10.0000	9.676	80.00-	120.00	100.00	
17.151	17.151	(1.154)	92	1036902			0.00-	30.00	62.30	
-----										
61 trans-1,3-Dichloropropene						CAS #:	10061-02-6			
17.531	17.531	(0.918)	75	1019101	10.0000	10.161	80.00-	120.00	100.00	
17.531	17.531	(0.918)	77	356119			0.00-	30.00	34.94	
17.531	17.531	(0.918)	39	675193			36.25-	96.25	66.25	
-----										
62 1,1,2-Trichloroethane						CAS #:	79-00-5			
17.818	17.818	(0.933)	97	689011	10.0000	10.355	80.00-	120.00	100.00	
17.818	17.818	(0.933)	99	440643			0.00-	30.00	63.95	
17.818	17.818	(0.933)	83	592428			55.98-	115.98	85.98	
-----										
63 Tetrachloroethene						CAS #:	127-18-4			
17.906	17.906	(0.938)	166	991298	10.0000	11.268	80.00-	120.00	100.00	
17.906	17.906	(0.938)	129	756750			0.00-	30.00	76.34	
17.906	17.906	(0.938)	131	732364			43.88-	103.88	73.88	
-----										
64 2-Hexanone						CAS #:	591-78-6			
18.052	18.052	(0.945)	58	861329	10.0000	10.392	80.00-	120.00	100.00	
18.052	18.052	(0.945)	43	1686735			0.00-	30.00	195.83	
18.052	18.052	(0.945)	100	178650			0.00-	30.00	20.74	
-----										
66 Dibromochloromethane						CAS #:	124-48-1			
18.343	18.343	(0.961)	129	1343424	10.0000	12.477	80.00-	120.00	100.00	
18.343	18.343	(0.961)	127	1063955			0.00-	30.00	79.20	
-----										
67 1,2-Dibromoethane						CAS #:	106-93-4			
18.547	18.547	(0.971)	107	1205384	10.0000	10.555	80.00-	120.00	100.00	
18.547	18.547	(0.971)	109	1117715			0.00-	30.00	92.73	
-----										
69 Chlorobenzene						CAS #:	108-90-7			
19.142	19.142	(1.003)	112	1901989	10.0000	10.239	80.00-	120.00	100.00	
19.142	19.142	(1.003)	114	678025			0.00-	30.00	35.65	
19.142	19.142	(1.003)	77	1371035			42.08-	102.08	72.08	
-----										
70 Ethyl Benzene						CAS #:	100-41-4			
19.214	19.214	(1.006)	106	1052679	10.0000	10.003	80.00-	120.00	100.00	
19.214	19.214	(1.006)	91	3230136			0.00-	30.00	306.85	
-----										
71 m,p-Xylene						CAS #:	108-38-3			
19.358	19.358	(1.014)	106	1369207	10.0000	10.279	80.00-	120.00	100.00	
19.358	19.358	(1.014)	91	2775501			0.00-	30.00	202.71	
-----										
72 o-Xylene						CAS #:	95-47-6			
19.888	19.888	(1.042)	106	1370902	10.0000	10.298	80.00-	120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	2883237			0.00- 30.00	210.32	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	2151826	10.0000	10.526	80.00- 120.00	100.00	
19.912	19.912	(1.043)	78	1310050			0.00- 30.00	60.88	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	1560052	10.0000	14.001	80.00- 120.00	100.00	
20.201	20.201	(1.058)	171	848487			0.00- 30.00	54.39	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	3890419	10.0000	10.401	80.00- 120.00	100.00	
20.298	20.298	(1.063)	120	1105829			0.00- 30.00	28.42	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	2367339	10.0000	10.543	80.00- 120.00	100.00	
20.729	20.729	(1.086)	85	1560544			0.00- 30.00	65.92	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	5200121	10.0000	10.735	80.00- 120.00	100.00	
20.781	20.781	(1.088)	120	1235356			0.00- 30.00	23.76	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	5047839	10.0000	10.683	80.00- 120.00	100.00	
20.910	20.910	(1.095)	120	1692980			0.00- 30.00	33.54	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	3835635	10.0000	10.676	80.00- 120.00	100.00	
20.987	20.987	(1.099)	120	1929607			0.00- 30.00	50.31	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	3766988	10.0000	10.376	80.00- 120.00	100.00	
21.425	21.425	(1.122)	120	1778912			0.00- 30.00	47.22	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	2605959	10.0000	10.540	80.00- 120.00	100.00	
21.812	21.812	(1.142)	148	1705076			0.00- 30.00	65.43	
21.812	21.812	(1.142)	111	1172947			0.00- 30.00	45.01	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	2697736	10.0000	10.748	80.00- 120.00	100.00	
21.915	21.915	(1.148)	148	1765625			0.00- 30.00	65.45	
21.915	21.915	(1.148)	111	1156285			0.00- 30.00	42.86	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	3420226	10.0000	11.333	80.00- 120.00	100.00	

AMOUNTS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	CAL-AMT ( PPEV)	ON-COL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	725060			0.00- 30.00	21.20	
-----									
93 1,2-Dichlorobenzene CAS #: 95-50-1									
22.354	22.354	(1.171)	146	2430487	10.0000	10.330	80.00- 120.00	100.00	
22.354	22.354	(1.171)	148	1592731			35.53- 95.53	65.53	
22.354	22.354	(1.171)	111	1142551			17.01- 77.01	47.01	
-----									
97 1,2,4-Trichlorobenzene CAS #: 120-82-1									
24.107	24.107	(1.263)	180	1563987	10.0000	10.032	80.00- 120.00	100.00	
24.107	24.107	(1.263)	182	1496038			0.00- 30.00	95.66	
-----									
98 Hexachlorobutadiene CAS #: 87-68-3									
24.184	24.184	(1.267)	225	1405805	10.0000	10.497	80.00- 120.00	100.00	
24.184	24.184	(1.267)	223	922026			0.00- 30.00	65.59	
-----									
99 Naphthalene CAS #: 91-20-3									
24.417	24.417	(1.279)	128	2410002	10.0000	8.765	80.00- 120.00	100.00	
24.417	24.417	(1.279)	127	356128			0.00- 30.00	14.78	
-----									
179 Butane CAS #: 106-97-8									
6.737	6.737	(0.495)	58	142949	10.0000	9.224	80.00- 120.00	100.00	
6.737	6.737	(0.495)	43	982132			0.00- 30.00	687.05	
-----									
11 Isopentane CAS #: 78-78-4									
8.737	8.737	(0.642)	57	548655	10.0000	11.051	80.00- 120.00	100.00	
8.737	8.737	(0.642)	43	743597			0.00- 30.00	135.53	
8.737	8.737	(0.642)	42	652473			0.00- 30.00	118.92	
-----									
167 Methylcyclohexane CAS #: 108-87-2									
15.409	15.409	(1.133)	83	873516	10.0000	8.631	80.00- 120.00	100.00	
15.409	15.409	(1.133)	98	440574			0.00- 30.00	50.44	
15.409	15.409	(1.133)	55	921775			0.00- 30.00	105.52	
-----									
26 tert-butyl alcohol CAS #: 75-65-0									
11.718	11.718	(0.861)	59	970816	10.0000	8.351	80.00- 120.00	100.00	
11.718	11.718	(0.861)	41	312814			0.00- 30.00	32.22	
11.718	11.718	(0.861)	57	129338			0.00- 30.00	13.32	
-----									

Report Date: 09-May-2008 12:23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 08-MAY-2008

Lab File ID: z050804.d

Calibration Time: 13:18

Lab Smp Id: CCV-1

Client Smp ID: CCV-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 50ppbv -&gt; 10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	303019	0.00
52 1,4-Difluorobenze	1056800	634080	1479520	1056800	0.00
68 Chlorobenzene-d5	1305891	783535	1828247	1305891	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.61	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 08-MAY-2008 13:18

Client ID: CCV-1

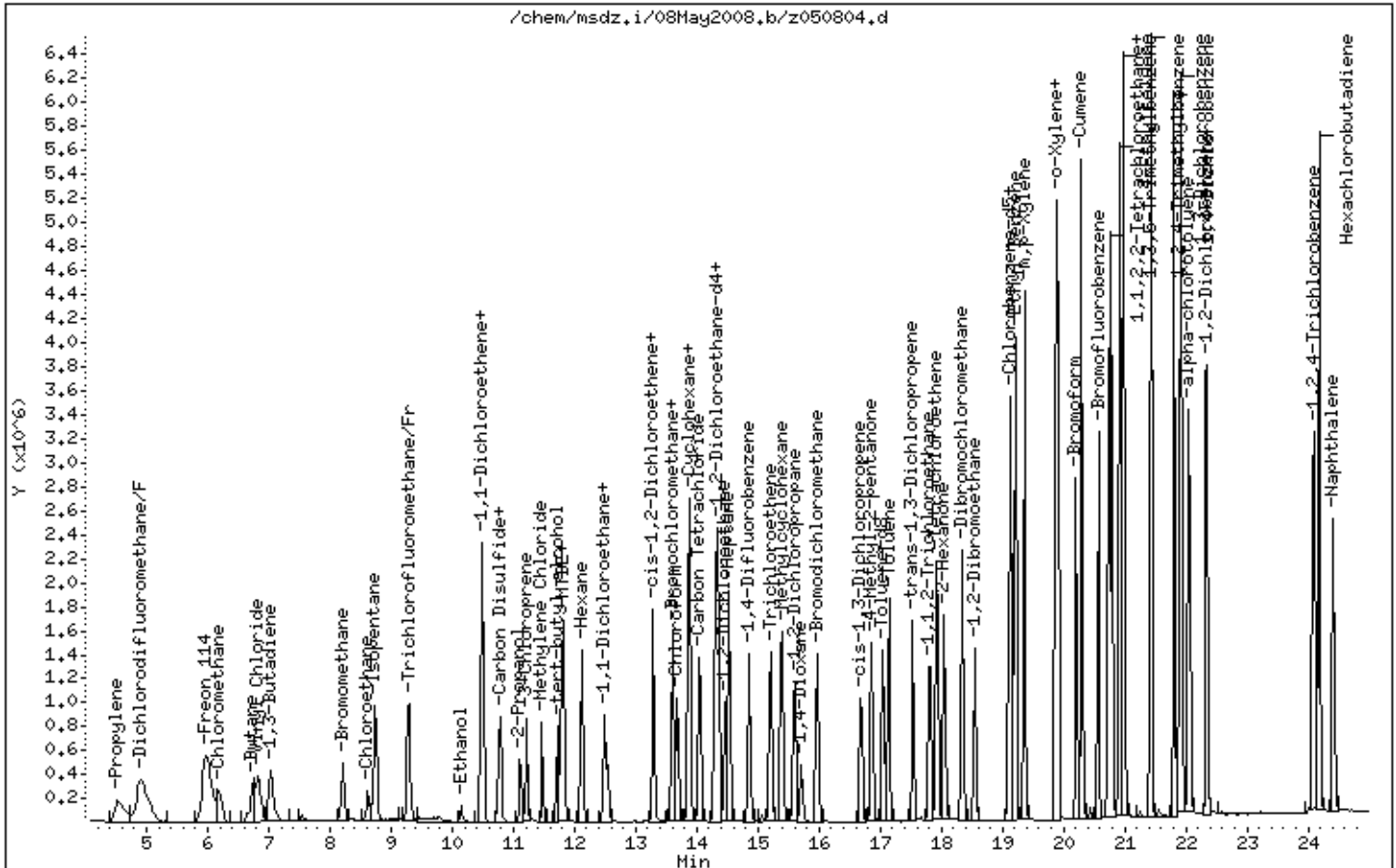
Instrument: msdz.i

Sample Info: 100mL #1541-95;CCV-1;CCV-1

Operator: sjr

Column phase: RTX-624

Column diameter: 0.32





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805029-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 02:17 PM

Compound	%Recovery
Freon 12	91
Freon 114	92
Vinyl Chloride	85
Bromomethane	86
Chloroethane	90
Freon 11	93
1,1-Dichloroethene	85
Freon 113	100
Methylene Chloride	84
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	82
Chloroform	89
1,1,1-Trichloroethane	92
Carbon Tetrachloride	117
Benzene	90
1,2-Dichloroethane	105
Trichloroethene	94
1,2-Dichloropropane	89
cis-1,3-Dichloropropene	86
Toluene	92
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	97
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	94
Chlorobenzene	93
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	94
Styrene	93
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	95
1,3-Butadiene	96
Hexane	84
Cyclohexane	78





AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805029-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	z050805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/8/08 02:17 PM

Compound	%Recovery
Heptane	94
Bromodichloromethane	100
Dibromochloromethane	114
Cumene	99
Propylbenzene	101
Chloromethane	95
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	96
Acetone	84
Carbon Disulfide	86
2-Propanol	78
trans-1,2-Dichloroethene	86
2-Butanone (Methyl Ethyl Ketone)	78
Tetrahydrofuran	84
1,4-Dioxane	78
4-Methyl-2-pentanone	98
2-Hexanone	89
Bromoform	120
4-Ethyltoluene	97
Ethanol	83
Methyl tert-butyl ether	82
3-Chloropropene	85
2,2,4-Trimethylpentane	83
Naphthalene	98

Container Type: NA - Not Applicable

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 08May2008  
 Sample Matrix: GAS Fraction: VOA  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Level: LOW Operator: sjr  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: SpectraENSR.spk Quant Type: ISTD  
 Sublist File: AT08.sub  
 Method File: /chem/msdz.i/08May2008.b/t1410422c.m  
 Misc Info: 50ppbv -> 10ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
3 Dichlorodifluorome	10.000	9.077	90.77	70-130
1 Propylene	10.000	11.130	111.30	60-140
4 Freon 114	10.000	9.196	91.97	70-130
5 Chloromethane	10.000	9.546	95.46	70-130
6 Vinyl Chloride	10.000	8.532	85.32	70-130
7 1,3-Butadiene	10.000	9.578	95.78	60-140
9 Bromomethane	10.000	8.646	86.46	70-130
10 Chloroethane	10.000	9.017	90.17	70-130
13 Trichlorofluoromet	10.000	9.277	92.77	70-130
14 Ethanol	10.000	8.321	83.21	60-140
17 Freon 113	10.000	10.038	100.38	70-130
15 1,1-Dichloroethene	10.000	8.500	85.00	70-130
20 Acetone	10.000	8.423	84.23	60-140
19 Carbon Disulfide	10.000	8.575	85.75	60-140
21 2-Propanol	10.000	7.846	78.46	60-140
22 3-Chloroprene	10.000	8.515	85.15	60-140
25 Methylene Chloride	10.000	8.410	84.10	70-130
27 MTBE	10.000	8.228	82.28	60-140
28 trans-1,2-Dichloro	10.000	8.589	85.89	60-140
30 Hexane	10.000	8.405	84.05	60-140
31 1,1-Dichloroethane	10.000	9.018	90.18	70-130
33 Vinyl Acetate	10.000	7.808	78.08	60-140
36 cis-1,2-Dichloroet	10.000	8.188	81.88	70-130
37 2-Butanone	10.000	7.854	78.54	60-140
38 Tetrahydrofuran	10.000	8.441	84.41	60-140
40 Chloroform	10.000	8.862	88.62	70-130
42 Cyclohexane	10.000	7.830	78.30	60-140
43 1,1,1-Trichloroeth	10.000	9.252	92.52	70-130
44 Carbon Tetrachlori	10.000	11.748	117.48	70-130
45 2,2,4-Trimethylpen	10.000	8.276	82.76	60-140
46 Benzene	10.000	9.025	90.25	70-130
50 Heptane	10.000	9.411	94.11	60-140
49 1,2-Dichloroethane	10.000	10.483	104.83	70-130

Report Date: 09-May-2008 12:24

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
53 Trichloroethene	10.000	9.357	93.57	70-130
54 1,2-Dichloropropan	10.000	8.893	88.93	70-130
55 1,4-Dioxane	10.000	7.760	77.60	60-140
56 Bromodichlorometha	10.000	10.043	100.43	60-140
57 cis-1,3-Dichloropr	10.000	8.554	85.55	70-130
58 4-Methyl-2-pentano	10.000	9.797	97.97	60-140
60 Toluene	10.000	9.151	91.51	70-130
61 trans-1,3-Dichloro	10.000	9.327	93.27	70-130
62 1,1,2-Trichloroeth	10.000	9.707	97.07	70-130
64 2-Hexanone	10.000	8.936	89.36	60-140
63 Tetrachloroethene	10.000	10.205	102.05	70-130
66 Dibromochlorometha	10.000	11.421	114.21	60-140
67 1,2-Dibromoethane	10.000	9.384	93.85	70-130
69 Chlorobenzene	10.000	9.321	93.21	70-130
70 Ethyl Benzene	10.000	9.168	91.68	70-130
71 m,p-Xylene	10.000	9.362	93.63	70-130
72 o-Xylene	10.000	9.418	94.18	70-130
73 Styrene	10.000	9.343	93.43	70-130
75 Bromoform	10.000	12.033	120.33	60-140
76 Cumene	10.000	9.908	99.08	60-140
79 1,1,2,2-Tetrachlor	10.000	9.875	98.75	70-130
80 Propylbenzene	10.000	10.070	100.70	70-130
82 4-Ethyltoluene	10.000	9.696	96.97	60-140
83 1,3,5-Trimethylben	10.000	9.830	98.30	70-130
85 1,2,4-Trimethylben	10.000	9.569	95.69	70-130
88 1,3-Dichlorobenzen	10.000	9.561	95.61	70-130
89 1,4-Dichlorobenzen	10.000	9.436	94.36	70-130
90 alpha-chlorotoluen	10.000	9.480	94.80	70-130
93 1,2-Dichlorobenzen	10.000	9.523	95.23	70-130
97 1,2,4-Trichloroben	10.000	11.186	111.86	70-130
98 Hexachlorobutadien	10.000	9.620	96.20	60-140
99 Naphthalene	10.000	9.845	98.45	60-140
11 Isopentane	10.000	9.785	97.85	60-140
179 Butane	10.000	8.758	87.58	60-140
167 Methylcyclohexane	10.000	7.981	79.81	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
\$ 47 1,2-Dichloroethane	10.000	9.733	97.33	70-130
\$ 59 Toluene-d8	10.000	10.086	100.86	70-130
\$ 77 Bromofluorobenzene	10.000	9.933	99.33	70-130

Report Date: 09-May-2008 12:24

## Air Toxics Ltd.

## AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msdz.i/08May2008.b/z050805.d  
 Lab Smp Id: LCS-1 Client Smp ID: LCS-1  
 Inj Date : 08-MAY-2008 14:17  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 100mL #1541-52;LCS-1;LCS-1  
 Misc Info : 50ppbv -> 10ppbv  
 Comment :  
 Method : /chem/msdz.i/08May2008.b/t1410422c.m  
 Meth Date : 09-May-2008 12:23 ejakob Quant Type: ISTD  
 Cal Date : 08-MAY-2008 10:02 Cal File: z050802.d  
 Als bottle: 1 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: AT08.sub  
 Target Version: 3.50 Sample Matrix: AIR  
 Processing Host: eeyore

Concentration Formula: Amt \* DF \* CpndVariable

Cpnd Variable Local Compound Variable

CONCENTRATIONS								
RT	EXP RT	(REL RT)	MASS	RESPONSE		TARGET RANGE	RATIO	
				( PPBV)	( PPBV)			
==	=====	=====	====	=====	=====	=====	=====	=====
-----								
* 39	Bromochloromethane					CAS #: 74-97-5		
13.605	13.605	(1.000)	130	293082	10.0000	80.00- 120.00	100.00	
13.605	13.605	(1.000)	128	227933		0.00- 30.00	77.77	
13.605	13.605	(1.000)	49	518406		0.00- 30.00	176.88	
-----								
* 52	1,4-Difluorobenzene					CAS #: 540-36-3		
14.859	14.860	(1.000)	114	1002617	10.0000	80.00- 120.00	100.00	
14.859	14.860	(1.000)	88	209618		0.00- 30.00	20.91	
-----								
* 68	Chlorobenzene-d5					CAS #: 3114-55-4		
19.093	19.093	(1.000)	117	1207912	10.0000	80.00- 120.00	100.00	
19.093	19.093	(1.000)	82	815212		0.00- 30.00	67.49	
-----								
\$ 47	1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.365	14.365	(1.056)	65	634991	9.73334	80.00- 120.00	100.00	
14.365	14.365	(1.056)	67	348150		0.00- 30.00	54.83	
-----								
\$ 59	Toluene-d8					CAS #: 2037-26-5		
17.038	17.039	(1.147)	98	1069562	10.0862	80.00- 120.00	100.00	
17.038	17.039	(1.147)	70	177069		0.00- 30.00	16.56	

CONCENTRATIONS

ON-COL FINAL

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

\$ 59 Toluene-d8 (continued)

17.038	17.039 (1.147)	100	731600			37.60- 97.60	68.40
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\$ 77 Bromofluorobenzene

CAS #: 460-00-4

20.574	20.575 (1.078)	174	897772	9.93273	9.933	80.00- 120.00	100.00
20.574	20.575 (1.078)	95	1215607			101.48- 161.48	135.40
20.574	20.575 (1.078)	176	883519			66.96- 126.96	98.41

1 Propylene

CAS #: 115-07-1

4.521	4.521 (0.332)	41	646849	11.1299	11.130	80.00- 120.00	100.00
4.521	4.545 (0.332)	42	441318			0.00- 30.00	68.23
4.521	4.521 (0.332)	39	506109			0.00- 30.00	78.24

3 Dichlorodifluoromethane/Fr12

CAS #: 75-71-8

4.907	4.907 (0.361)	85	2071231	9.07725	9.077	80.00- 120.00	100.00
4.907	4.907 (0.361)	87	731871			4.71- 64.71	35.34

4 Freon 114

CAS #: 76-14-2

5.967	5.967 (0.439)	135	1044758	9.19653	9.196	80.00- 120.00	100.00
5.991	5.967 (0.440)	137	367413			0.00- 30.00	35.17

5 Chloromethane

CAS #: 74-87-3

6.184	6.184 (0.455)	50	663547	9.54565	9.546	80.00- 120.00	100.00
6.184	6.184 (0.455)	52	223505			0.00- 30.00	33.68

6 Vinyl Chloride

CAS #: 75-01-4

6.823	6.841 (0.502)	62	585379	8.53176	8.532	80.00- 120.00	100.00
6.841	6.841 (0.503)	64	201997			4.77- 64.77	34.51

7 1,3-Butadiene

CAS #: 106-99-0

7.014	7.014 (0.516)	54	476280	9.57847	9.578	80.00- 120.00	100.00
7.014	7.032 (0.516)	39	485159			0.00- 30.00	101.86

9 Bromomethane

CAS #: 74-83-9

8.198	8.198 (0.603)	94	465435	8.64555	8.646	80.00- 120.00	100.00
8.198	8.198 (0.603)	96	440088			64.13- 124.13	94.55

10 Chloroethane

CAS #: 75-00-3

8.612	8.612 (0.633)	64	281288	9.01749	9.017	80.00- 120.00	100.00
8.612	8.612 (0.633)	49	97976			0.00- 30.00	34.83
8.612	8.612 (0.633)	66	96009			0.00- 30.00	34.13

13 Trichlorofluoromethane/Fr11

CAS #: 75-69-4

9.296	9.296 (0.683)	101	1325742	9.27718	9.277	80.00- 120.00	100.00
9.296	9.296 (0.683)	103	871864			36.78- 96.78	65.76

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	FINAL	TARGET RANGE	RATIO
				( PPEV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
-----									
14 Ethanol						CAS #: 64-17-5			
10.146	10.146	(0.746)	45	156513	8.32110	8.321		80.00- 120.00	100.00
10.146	10.146	(0.746)	43	48013				0.00- 30.00	30.68
10.146	10.146	(0.746)	46	62961				0.00- 30.00	40.23
-----									
15 1,1-Dichloroethene						CAS #: 75-35-4			
10.498	10.498	(0.772)	98	262439	8.50026	8.500		80.00- 120.00	100.00
10.477	10.477	(0.770)	61	857423				0.00- 30.00	326.71
10.498	10.498	(0.772)	96	400319				0.00- 30.00	152.54
-----									
17 Freon 113						CAS #: 76-13-1			
10.498	10.498	(0.772)	151	771745	10.0378	10.038		80.00- 120.00	100.00
10.498	10.498	(0.772)	153	501283				36.38- 96.38	64.95
10.498	10.498	(0.772)	101	907763				0.00- 30.00	117.62
-----									
19 Carbon Disulfide						CAS #: 75-15-0			
10.788	10.788	(0.793)	76	1085958	8.57501	8.575		80.00- 120.00	100.00
-----									
20 Acetone						CAS #: 67-64-1			
10.747	10.747	(0.790)	58	227932	8.42277	8.423		80.00- 120.00	100.00
10.747	10.747	(0.790)	43	849167				0.00- 30.00	372.55
-----									
21 2-Propanol						CAS #: 67-63-0			
11.120	11.099	(0.817)	45	726882	7.84584	7.846		80.00- 120.00	100.00
11.120	11.099	(0.817)	43	242367				0.00- 30.00	33.34
11.120	11.099	(0.817)	59	33057				0.00- 30.00	4.55
-----									
22 3-Chloroprene						CAS #: 107-05-1			
11.223	11.223	(0.825)	76	190024	8.51466	8.515		80.00- 120.00	100.00
11.223	11.223	(0.825)	41	615124				0.00- 30.00	323.71
-----									
25 Methylene Chloride						CAS #: 75-09-2			
11.470	11.471	(0.843)	84	356386	8.40988	8.410		80.00- 120.00	100.00
11.470	11.471	(0.843)	49	601409				0.00- 30.00	168.75
11.470	11.471	(0.843)	51	192523				0.00- 30.00	54.02
-----									
27 MTBE						CAS #: 1634-04-4			
11.800	11.800	(0.867)	73	1071990	8.22752	8.228		80.00- 120.00	100.00
11.800	11.800	(0.867)	57	304066				0.00- 30.00	28.36
11.800	11.800	(0.867)	41	411305				0.00- 30.00	38.37
-----									
28 trans-1,2-Dichloroethene						CAS #: 156-60-5			
11.827	11.827	(0.869)	98	287984	8.58862	8.589		80.00- 120.00	100.00
11.827	11.827	(0.869)	61	777832				0.00- 30.00	270.10
11.827	11.827	(0.869)	96	437873				0.00- 30.00	152.05
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE		ON-COL	FINAL	TARGET RANGE	RATIO
				( PPEV)	( PPBV)				
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
30 Hexane						CAS #: 110-54-3			
12.129	12.129	(0.892)	57	681548	8.40489	8.405		80.00- 120.00	100.00
12.129	12.129	(0.892)	43	461059				0.00- 30.00	67.65
12.129	12.129	(0.892)	86	110258				0.00- 30.00	16.18
-----									
31 1,1-Dichloroethane						CAS #: 75-34-3			
12.486	12.486	(0.918)	63	850944	9.01767	9.018		80.00- 120.00	100.00
12.486	12.486	(0.918)	65	283941				0.00- 30.00	33.37
-----									
33 Vinyl Acetate						CAS #: 108-05-4			
12.541	12.541	(0.922)	43	754219	7.80848	7.808		80.00- 120.00	100.00
12.541	12.541	(0.922)	42	96054				0.00- 30.00	12.74
12.541	12.541	(0.922)	86	68913				0.00- 30.00	9.14
-----									
36 cis-1,2-Dichloroethene						CAS #: 156-59-2			
13.285	13.285	(0.976)	98	268277	8.18789	8.188		80.00- 120.00	100.00
13.285	13.285	(0.976)	61	662109				0.00- 30.00	246.80
13.285	13.285	(0.976)	96	398315				127.14- 187.14	148.47
-----									
37 2-Butanone						CAS #: 78-93-3			
13.285	13.285	(0.976)	72	201229	7.85419	7.854		80.00- 120.00	100.00
13.285	13.285	(0.976)	43	920195				0.00- 30.00	457.29
13.285	13.285	(0.976)	57	88226				0.00- 30.00	43.84
-----									
38 Tetrahydrofuran						CAS #: 109-99-9			
13.605	13.605	(1.000)	42	519642	8.44143	8.441		80.00- 120.00	100.00
13.605	13.605	(1.000)	71	185135				0.00- 30.00	35.63
13.605	13.605	(1.000)	72	196338				0.00- 30.00	37.78
-----									
40 Chloroform						CAS #: 67-66-3			
13.667	13.667	(1.005)	83	1015488	8.86222	8.862		80.00- 120.00	100.00
13.667	13.667	(1.005)	85	680252				0.00- 30.00	66.99
-----									
42 Cyclohexane						CAS #: 110-82-7			
13.882	13.882	(1.020)	84	575381	7.83034	7.830		80.00- 120.00	100.00
13.882	13.882	(1.020)	56	779819				0.00- 30.00	135.53
13.882	13.882	(1.020)	41	509420				0.00- 30.00	88.54
-----									
43 1,1,1-Trichloroethane						CAS #: 71-55-6			
13.882	13.882	(1.020)	97	1212662	9.25215	9.252		80.00- 120.00	100.00
13.882	13.882	(1.020)	99	788574				0.00- 30.00	65.03
-----									
44 Carbon Tetrachloride						CAS #: 56-23-5			
14.036	14.037	(1.032)	119	1143517	11.7477	11.748		80.00- 120.00	100.00
14.036	14.037	(1.032)	117	1198525				0.00- 30.00	104.81
-----									

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
46 Benzene						CAS #: 71-43-2			
14.338	14.338	(0.965)	78	1241588	9.02528	9.025		80.00- 120.00	100.00
14.338	14.338	(0.965)	77	325168				0.00- 30.00	26.19
-----									
45 2,2,4-Trimethylpentane						CAS #: 540-84-1			
14.310	14.311	(1.052)	56	748164	8.27551	8.276		80.00- 120.00	100.00
14.310	14.311	(1.052)	57	2077321				0.00- 30.00	277.66
14.310	14.311	(1.052)	41	780239				0.00- 30.00	104.29
-----									
49 1,2-Dichloroethane						CAS #: 107-06-2			
14.448	14.448	(0.972)	62	943030	10.4830	10.483		80.00- 120.00	100.00
14.448	14.448	(0.972)	64	318133				0.00- 30.00	33.74
-----									
50 Heptane						CAS #: 142-82-5			
14.530	14.530	(0.978)	57	485761	9.41087	9.411		80.00- 120.00	100.00
14.530	14.530	(0.978)	100	158642				0.00- 30.00	32.66
14.530	14.530	(0.978)	43	922848				0.00- 30.00	189.98
-----									
53 Trichloroethene						CAS #: 79-01-6			
15.216	15.216	(1.024)	130	558025	9.35724	9.357		80.00- 120.00	100.00
15.216	15.216	(1.024)	95	609612				0.00- 30.00	109.24
15.216	15.216	(1.024)	97	410859				0.00- 30.00	73.63
-----									
54 1,2-Dichloropropane						CAS #: 78-87-5			
15.601	15.601	(1.050)	63	509034	8.89268	8.893		80.00- 120.00	100.00
15.601	15.601	(1.050)	62	381138				0.00- 30.00	74.87
15.601	15.601	(1.050)	41	484166				62.72- 122.72	95.11
-----									
55 1,4-Dioxane						CAS #: 123-91-1			
15.710	15.710	(1.057)	88	313447	7.75992	7.760		80.00- 120.00	100.00
15.710	15.710	(1.057)	58	272580				0.00- 30.00	86.96
15.710	15.710	(1.057)	57	106881				0.00- 30.00	34.10
-----									
56 Bromodichloromethane						CAS #: 75-27-4			
15.985	15.985	(1.076)	83	1115443	10.0434	10.043		80.00- 120.00	100.00
15.985	15.985	(1.076)	85	721168				0.00- 30.00	64.65
-----									
57 cis-1,3-Dichloropropene						CAS #: 10061-01-5			
16.680	16.680	(1.123)	75	684383	8.55451	8.554		80.00- 120.00	100.00
16.680	16.680	(1.123)	77	235801				0.00- 30.00	34.45
16.680	16.680	(1.123)	39	528167				47.03- 107.03	77.17
-----									
58 4-Methyl-2-pentanone						CAS #: 108-10-1			
16.859	16.859	(1.135)	43	1198296	9.79703	9.797		80.00- 120.00	100.00
16.859	16.859	(1.135)	58	450986				0.00- 30.00	37.64
16.859	16.859	(1.135)	85	195201				0.00- 30.00	16.29
-----									



CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL ( PPEV)	FINAL ( PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
60 Toluene									
						CAS #:	108-88-3		
17.151	17.151	(1.154)	91	1493453	9.15109	9.151	80.00-	120.00	100.00
17.151	17.151	(1.154)	92	919057			0.00-	30.00	61.54
-----									
61 trans-1,3-Dichloropropene									
						CAS #:	10061-02-6		
17.531	17.531	(0.918)	75	865292	9.32709	9.327	80.00-	120.00	100.00
17.531	17.531	(0.918)	77	295356			0.00-	30.00	34.13
17.531	17.531	(0.918)	39	582151			36.25-	96.25	67.28
-----									
62 1,1,2-Trichloroethane									
						CAS #:	79-00-5		
17.818	17.818	(0.933)	97	597437	9.70711	9.707	80.00-	120.00	100.00
17.818	17.818	(0.933)	99	390893			0.00-	30.00	65.43
17.818	17.818	(0.933)	83	506177			55.98-	115.98	84.72
-----									
63 Tetrachloroethene									
						CAS #:	127-18-4		
17.906	17.906	(0.938)	166	830373	10.2047	10.205	80.00-	120.00	100.00
17.906	17.906	(0.938)	129	639746			0.00-	30.00	77.04
17.906	17.906	(0.938)	131	628613			43.88-	103.88	75.70
-----									
64 2-Hexanone									
						CAS #:	591-78-6		
18.051	18.052	(0.945)	58	685104	8.93635	8.936	80.00-	120.00	100.00
18.051	18.052	(0.945)	43	1387373			0.00-	30.00	202.51
18.051	18.052	(0.945)	100	134274			0.00-	30.00	19.60
-----									
66 Dibromochloromethane									
						CAS #:	124-48-1		
18.343	18.343	(0.961)	129	1137406	11.4208	11.421	80.00-	120.00	100.00
18.343	18.343	(0.961)	127	897966			0.00-	30.00	78.95
-----									
67 1,2-Dibromoethane									
						CAS #:	106-93-4		
18.547	18.547	(0.971)	107	991286	9.38455	9.384	80.00-	120.00	100.00
18.547	18.547	(0.971)	109	925026			0.00-	30.00	93.32
-----									
69 Chlorobenzene									
						CAS #:	108-90-7		
19.141	19.142	(1.003)	112	1601568	9.32097	9.321	80.00-	120.00	100.00
19.141	19.142	(1.003)	114	562901			0.00-	30.00	35.15
19.141	19.142	(1.003)	77	1169398			42.08-	102.08	73.02
-----									
70 Ethyl Benzene									
						CAS #:	100-41-4		
19.214	19.214	(1.006)	106	892440	9.16817	9.168	80.00-	120.00	100.00
19.214	19.214	(1.006)	91	2739518			0.00-	30.00	306.97
-----									
71 m,p-Xylene									
						CAS #:	108-38-3		
19.358	19.358	(1.014)	106	1153581	9.36251	9.362	80.00-	120.00	100.00
19.358	19.358	(1.014)	91	2289973			0.00-	30.00	198.51
-----									
72 o-Xylene									
						CAS #:	95-47-6		
19.888	19.888	(1.042)	106	1159671	9.41753	9.418	80.00-	120.00	100.00

CONCENTRATIONS									
RT	EXP RT	(REL RT)	MASS	RESPONSE	ON-COL (PPEV)	FINAL (PPBV)	TARGET RANGE	RATIO	
==	=====	=====	=====	=====	=====	=====	=====	=====	
72 o-Xylene (continued)									
19.888	19.888	(1.042)	91	2442755			0.00- 30.00	210.64	
-----									
73 Styrene CAS #: 100-42-5									
19.912	19.912	(1.043)	104	1766683	9.34275	9.343	80.00- 120.00	100.00	
19.912	19.912	(1.043)	78	1075085			0.00- 30.00	60.85	
-----									
75 Bromoform CAS #: 75-25-2									
20.201	20.201	(1.058)	173	1240192	12.0331	12.033	80.00- 120.00	100.00	
20.201	20.201	(1.058)	171	671489			0.00- 30.00	54.14	
-----									
76 Cumene CAS #: 98-82-8									
20.298	20.298	(1.063)	105	3427787	9.90753	9.908	80.00- 120.00	100.00	
20.298	20.298	(1.063)	120	974646			0.00- 30.00	28.43	
-----									
79 1,1,2,2-Tetrachloroethane CAS #: 79-34-5									
20.729	20.729	(1.086)	83	2051130	9.87547	9.875	80.00- 120.00	100.00	
20.729	20.729	(1.086)	85	1349371			0.00- 30.00	65.79	
-----									
80 Propylbenzene CAS #: 103-65-1									
20.781	20.781	(1.088)	91	4511997	10.0703	10.070	80.00- 120.00	100.00	
20.781	20.781	(1.088)	120	1069354			0.00- 30.00	23.70	
-----									
82 4-Ethyltoluene CAS #: 622-96-8									
20.910	20.910	(1.095)	105	4238133	9.69656	9.696	80.00- 120.00	100.00	
20.910	20.910	(1.095)	120	1398435			0.00- 30.00	33.00	
-----									
83 1,3,5-Trimethylbenzene CAS #: 108-67-8									
20.987	20.987	(1.099)	105	3266807	9.83029	9.830	80.00- 120.00	100.00	
20.987	20.987	(1.099)	120	1625196			0.00- 30.00	49.75	
-----									
85 1,2,4-Trimethylbenzene CAS #: 95-63-6									
21.425	21.425	(1.122)	105	3213351	9.56944	9.569	80.00- 120.00	100.00	
21.425	21.425	(1.122)	120	1519259			0.00- 30.00	47.28	
-----									
88 1,3-Dichlorobenzene CAS #: 541-73-1									
21.812	21.812	(1.142)	146	2186648	9.56122	9.561	80.00- 120.00	100.00	
21.812	21.812	(1.142)	148	1443386			0.00- 30.00	66.01	
21.812	21.812	(1.142)	111	993928			0.00- 30.00	45.45	
-----									
89 1,4-Dichlorobenzene CAS #: 106-46-7									
21.915	21.915	(1.148)	146	2190750	9.43579	9.436	80.00- 120.00	100.00	
21.915	21.915	(1.148)	148	1447659			0.00- 30.00	66.08	
21.915	21.915	(1.148)	111	981992			0.00- 30.00	44.82	
-----									
90 alpha-chlorotoluene CAS #: 100-44-7									
22.044	22.044	(1.155)	91	2646225	9.47998	9.480	80.00- 120.00	100.00	

CONCENTRATIONS

RT	EXP RT	(REL RT)	MASS	RESPONSE	( PPEV)	FINAL	( PPBV)	TARGET RANGE	RATIO
==	=====	=====	=====	=====	=====	=====	=====	=====	=====
90 alpha-chlorotoluene (continued)									
22.044	22.044	(1.155)	126	556977				0.00- 30.00	21.05
-----									
93 1,2-Dichlorobenzene						CAS #: 95-50-1			
22.354	22.354	(1.171)	146	2072427	9.52272	9.523		80.00- 120.00	100.00
22.354	22.354	(1.171)	148	1342411				35.53- 95.53	64.77
22.354	22.354	(1.171)	111	983128				17.01- 77.01	47.44
-----									
97 1,2,4-Trichlorobenzene						CAS #: 120-82-1			
24.107	24.107	(1.263)	180	1613018	11.1861	11.186		80.00- 120.00	100.00
24.107	24.107	(1.263)	182	1540231				0.00- 30.00	95.49
-----									
98 Hexachlorobutadiene						CAS #: 87-68-3			
24.184	24.184	(1.267)	225	1191743	9.62020	9.620		80.00- 120.00	100.00
24.184	24.184	(1.267)	223	772259				0.00- 30.00	64.80
-----									
99 Naphthalene						CAS #: 91-20-3			
24.416	24.417	(1.279)	128	2503725	9.84463	9.845		80.00- 120.00	100.00
24.416	24.417	(1.279)	127	366958				0.00- 30.00	14.66
-----									
179 Butane						CAS #: 106-97-8			
6.754	6.737	(0.496)	58	131276	8.75832	8.758		80.00- 120.00	100.00
6.754	6.737	(0.496)	43	903911				0.00- 30.00	688.56
-----									
11 Isopentane						CAS #: 78-78-4			
8.736	8.737	(0.642)	57	469884	9.78542	9.785		80.00- 120.00	100.00
8.736	8.737	(0.642)	43	657370				0.00- 30.00	139.90
8.736	8.737	(0.642)	42	580747				0.00- 30.00	123.59
-----									
167 Methylcyclohexane						CAS #: 108-87-2			
15.408	15.409	(1.133)	83	781325	7.98149	7.981		80.00- 120.00	100.00
15.408	15.409	(1.133)	98	389601				0.00- 30.00	49.86
15.408	15.409	(1.133)	55	838496				0.00- 30.00	107.32
-----									
26 tert-butyl alcohol						CAS #: 75-65-0			
11.718	11.718	(0.861)	59	816533	7.26181	7.262		80.00- 120.00	100.00
11.718	11.718	(0.861)	41	271293				0.00- 30.00	33.22
11.718	11.718	(0.861)	57	113874				0.00- 30.00	13.95
-----									

Report Date: 09-May-2008 12:24

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: msdz.i

Calibration Date: 08-MAY-2008

Lab File ID: z050805.d

Calibration Time: 13:18

Lab Smp Id: LCS-1

Client Smp ID: LCS-1

Analysis Type: VOA

Level: LOW

Quant Type: ISTD

Sample Type: AIR

Operator: sjr

Method File: /chem/msdz.i/08May2008.b/t1410422c.m

Misc Info: 50ppbv -&gt; 10ppbv

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	303019	181811	424227	293082	-3.28
52 1,4-Difluorobenze	1056800	634080	1479520	1002617	-5.13
68 Chlorobenzene-d5	1305891	783535	1828247	1207912	-7.50

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
39 Bromochloromethan	13.61	13.28	13.94	13.60	0.00
52 1,4-Difluorobenze	14.86	14.53	15.19	14.86	0.00
68 Chlorobenzene-d5	19.09	18.76	19.42	19.09	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.

Date : 08-MAY-2008 14:17

Client ID: LCS-1

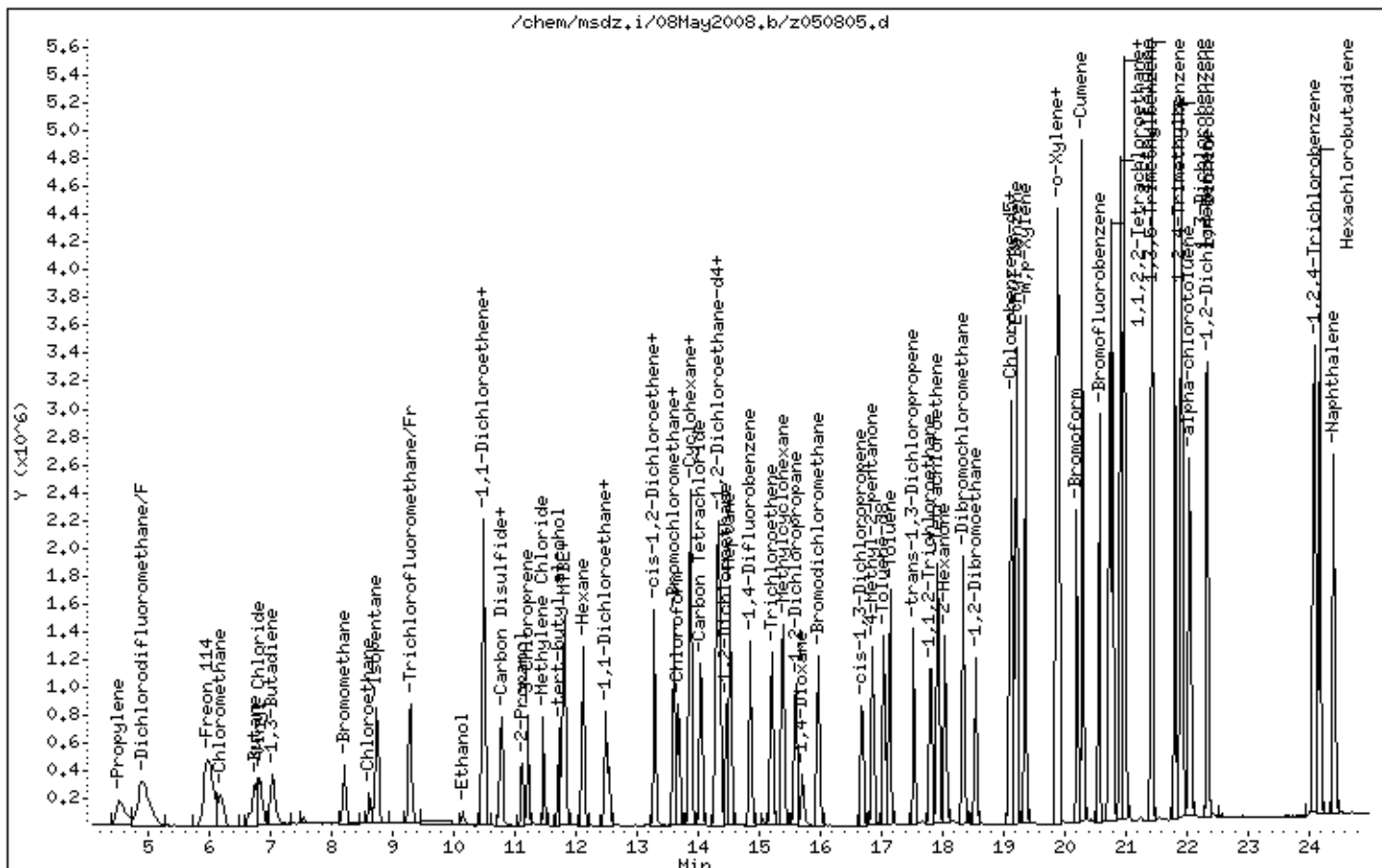
Instrument: msdz.i

Sample Info: 100mL #1541-52:LCS-1:LCS-1

Operator: sjr

Column phase: RTx-624

Column diameter: 0.32



m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 - 40.0% of mass 95	31.49
75	30.0 - 60.0% of mass 95	58.10
95	Base peak, 100.00% relative abundance	100
96	5.0 - 9.0% of mass 95	8.38
173	Less than 2.0% of mass 174	(1.06) <sup>1</sup>
174	50.0 - 100% of mass 95	75.91
175	5.0 - 9.0% of mass 174	(8.80) <sup>1</sup>
176	Greater than 95.0% but less than 101.0% of mass 174	(96.72) <sup>1</sup>
177	5.0 - 9.0% of mass 176	(7.99) <sup>2</sup>

<sup>1</sup> - value in parenthesis is % mass 174  
<sup>2</sup> - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio:  $\frac{9177750}{1948906} \times 100 = 96.72$

BFB Injection Date: 5/8/08  
 BFB Injection Time: 0900  
 BFB File ID: 2050801  
 Tekmar Purge Flow:           
 Vacuum:           
 IS/S Std #: 1541-156 Exp. Date: 8/6/08  
 BCM: 303019  
 1,4-DFB: 1056800  
 CB-d5: 1305891  
 Verified CCV IS vs ICAL mid-point (-40%D)  
 Analysts:         

NOAH Cart #: NA File #: NA

Calculation Check:  
 ppbv of compound =  $\frac{\text{Area}_{\text{sample}}}{\text{Area}_{\text{std}}} \times \text{Conc.}_{\text{std}} \times \text{RRF}$   
 =  $\frac{(1134839)}{(1056800)} \times (10.0) \times (1.05763) = 10.153$

File ID:	<u>2050804</u>
Compound:	<u>Tol-03</u>
Initials:	<u>        </u>

Method: T1420422C

#	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	<input checked="" type="checkbox"/>	<u>050801</u>	<u>BFB Tune Check</u>	<u>N/A-217</u>	<u>50ppb</u>	<u>2ul</u>	<u>        </u>	<u>5/8/08</u>	<u>0900</u>	<u>        </u>	
2	<input checked="" type="checkbox"/>	<u>02</u>	<u>TAM Level 12</u>	<u>1012-6</u>	<u>100ppb</u>	<u>250ul</u>	<u>        </u>	<u>        </u>	<u>1002</u>	<u>        </u>	
3	<input checked="" type="checkbox"/>	<u>03</u>	<u>System blank</u>	<u>12020</u>	<u>Humid</u>	<u>5ul</u>	<u>        </u>	<u>        </u>	<u>1231</u>	<u>        </u>	
4	<input checked="" type="checkbox"/>	<u>04</u>	<u>CV-1 (5ppb)</u>	<u>1541-95</u>	<u>10ppb</u>	<u>10ul</u>	<u>        </u>	<u>        </u>	<u>1318</u>	<u>        </u>	<u>2at</u>
5	<input checked="" type="checkbox"/>	<u>05</u>	<u>LC-1</u>	<u>1541-52</u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>        </u>	<u>1417</u>	<u>        </u>	<u>2at</u>
6	<input checked="" type="checkbox"/>	<u>06</u>	<u>Lab blank</u>	<u>30843</u>	<u>Humid</u>	<u>500ml</u>	<u>        </u>	<u>        </u>	<u>1507</u>	<u>        </u>	
7	<input checked="" type="checkbox"/>	<u>07</u>	<u>0805115A-01A</u>	<u>339636</u>	<u>514-4</u>	<u>500ml</u>	<u>        </u>	<u>        </u>	<u>1601</u>	<u>        </u>	

          
Signature

5/8/08  
Date

8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Z050808	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28			
0805118A					0805119A							0805010A								0805029			
-02A	-03A	-04A	-05A	-06A	-05AA	-01A	-02A	-03A	-04A	-04AA	-05A	-01A	-02A	-03A	-04A	-05A	-06A	-05AA	-01A	-02A			
34384	34440	34427	34460	35174	34440	33791	52011	33875	919		5728	10796	33971	03950	33995	924	11300	924	25237	33913			
15.1kg → 5 psi	↓	75.1kg → 5 psi	55.1kg → 5 psi	60.1kg → 5 psi	55.1kg → 5 psi	75.1kg → 5 psi	60.1kg → 5 psi	75.1kg → 5 psi	25.1kg → 5 psi	↓	15.1kg → 5 psi	10.1kg → 5 psi	25.1kg → 5 psi	0.4psi → 5 psi	0.4psi → 5 psi	0.4psi → 5 psi	28.0kg → 5 psi	0.4psi → 5 psi	65.1kg → 5 psi	70.1kg → 5 psi			
500ml																							
1.71	↓	1.79	1.64	1.68	1.64	1.79	1.68	1.79	1.46	↓	1.79	1.39	1.46	1.30	1.36	1.30	1.00	1.30	1.71	1.75			
ACT																							
5/8/08													5/9/08										
1057	1708	1738	1811	1841	1912	2012	2043	2125	2156	2230	2302	2333	0003	0034	0105	0150	0226	0302	0356	0441			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Comments:

  
Signature

5/9/08  
Date

Report Date: 22-Apr-2008 14:21

Air Toxics Ltd.

Data file : /var/chem/msdz.i/22Apr2008.b/z042209.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 22-APR-2008 14:29  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 2uL #1476-277;BFB Tune Check  
 Misc Info : 50ng  
 Comment :  
 Method : /var/chem/msdz.i/22Apr2008.b/bfb60.m  
 Meth Date : 22-Apr-2008 08:25 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  
 == =====

RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
1	bfb					CAS #: 460-00-4	
5.890	5.937	-0.047	95	1832106		100.00- 100.00	100.00
5.890	5.937	-0.047	50	484006		15.00- 40.00	26.42
5.890	5.937	-0.047	75	1000134		30.00- 60.00	54.59
5.890	5.937	-0.047	96	148450		5.00- 9.00	8.10
5.890	5.937	-0.047	173	0		0.00- 2.00	0.00
5.890	5.937	-0.047	174	1382722		50.00- 100.00	75.47
5.890	5.937	-0.047	175	123146		5.00- 9.00	8.91
5.890	5.937	-0.047	176	1340226		95.00- 101.00	96.93
5.890	5.937	-0.047	177	107942		5.00- 9.00	8.05



Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz,i

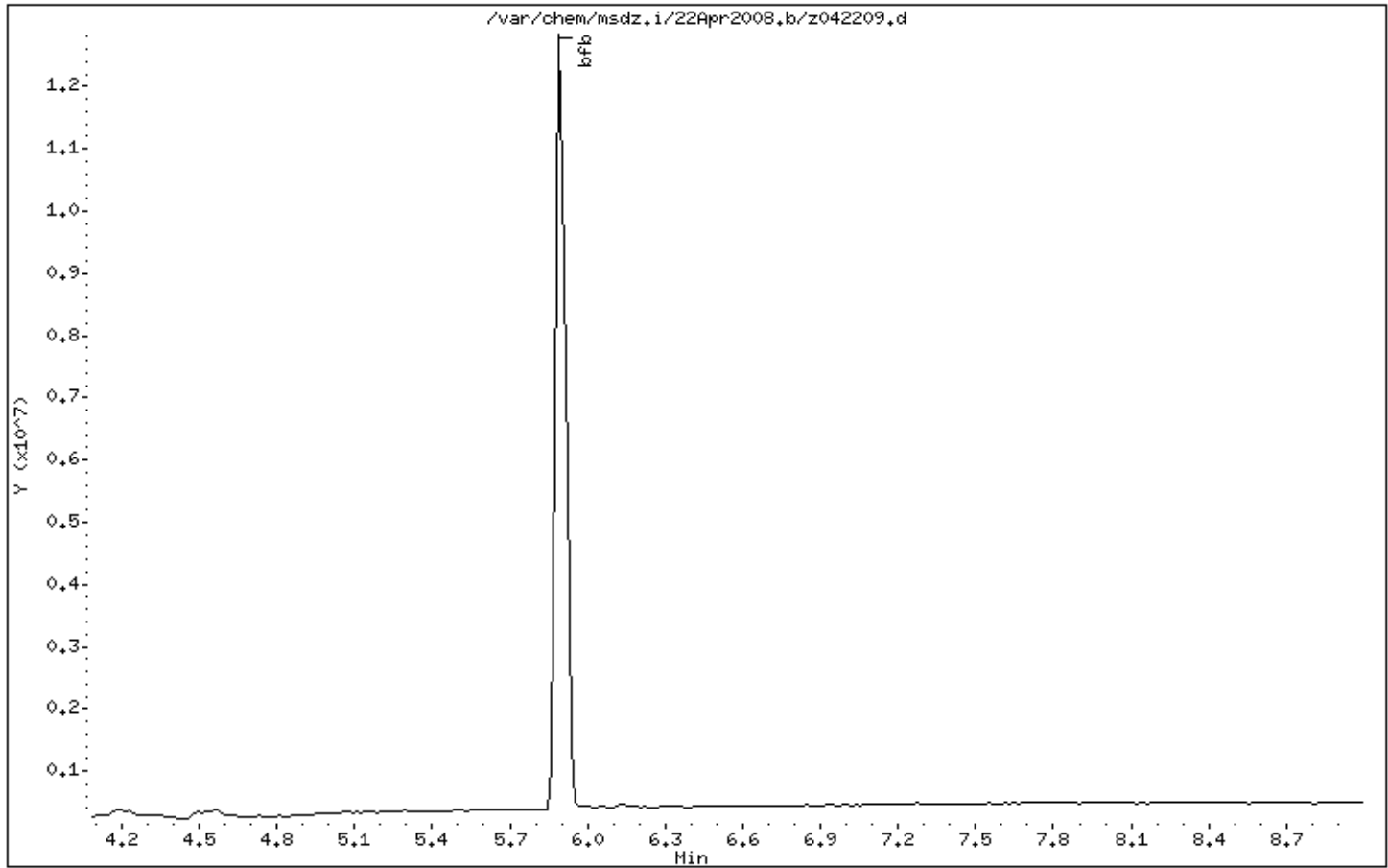
Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz,i

Sample Info: 2uL #1476-277;BFB Tune Check

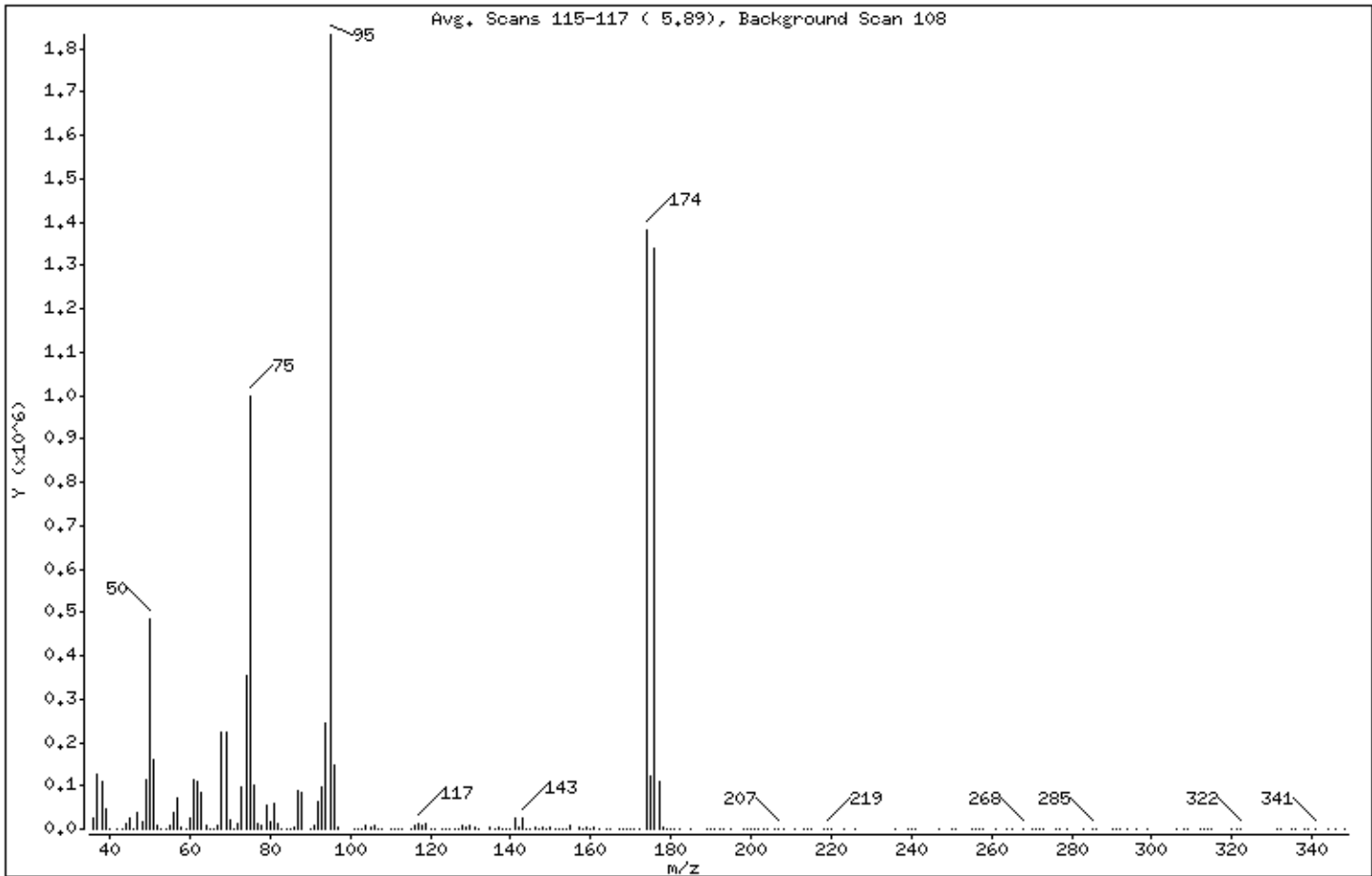
Volume Injected (uL): 1.0

Operator: sjr

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	26.42
75	30.00 - 60.00% of mass 95	54.59
96	5.00 - 9.00% of mass 95	8.10
173	Less than 2.00% of mass 174	0.00 ( 0.00)
174	50.00 - 100.00% of mass 95	75.47
175	5.00 - 9.00% of mass 174	6.72 ( 8.91)
176	95.00 - 101.00% of mass 174	73.15 ( 96.93)
177	5.00 - 9.00% of mass 176	5.89 ( 8.05)

Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277:BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z042209.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	24472	91.00	8223	152.00	1195	236.00	250
37.00	125728	92.00	63768	153.00	1805	239.00	78
38.00	109920	93.00	97000	154.00	1877	240.00	181
39.00	45792	94.00	244736	155.00	6410	241.00	112
40.00	1542	95.00	1831936	157.00	4534	247.00	167
42.00	473	96.00	148416	158.00	1066	250.00	177
43.00	1181	97.00	5395	159.00	2748	251.00	33
44.00	13791	101.00	163	160.00	221	255.00	573
45.00	24496	102.00	24	161.00	3278	256.00	278
46.00	1368	103.00	993	162.00	275	257.00	327
47.00	39736	104.00	9470	164.00	270	258.00	171
48.00	18552	105.00	2814	165.00	411	261.00	6
49.00	112792	106.00	8742	167.00	702	264.00	122
50.00	483968	107.00	2101	168.00	129	265.00	19
51.00	161344	108.00	281	169.00	320	268.00	817
52.00	8699	110.00	1909	170.00	537	270.00	372
53.00	345	111.00	1735	171.00	722	271.00	315
54.00	98	112.00	1039	172.00	929	272.00	6
55.00	7751	113.00	1991	174.00	1382400	273.00	261
56.00	38968	115.00	1929	175.00	123144	276.00	111
57.00	71248	116.00	7319	176.00	1339904	277.00	180
58.00	3678	117.00	12986	177.00	107936	279.00	180
59.00	1049	118.00	8754	178.00	4480	283.00	6
60.00	26064	119.00	11626	179.00	265	285.00	611
61.00	114136	120.00	385	180.00	242	286.00	211
62.00	111104	121.00	227	181.00	272	290.00	250
63.00	85488	123.00	897	182.00	44	291.00	89
64.00	8505	124.00	1368	185.00	147	292.00	63
65.00	734	125.00	1276	189.00	27	294.00	36
66.00	46	126.00	617	190.00	166	296.00	168
67.00	6725	127.00	1053	191.00	1278	299.00	154
68.00	224512	128.00	8290	192.00	312	306.00	217
69.00	221568	129.00	3652	193.00	206	308.00	369
70.00	20216	130.00	8998	195.00	122	309.00	118
71.00	390	131.00	3269	198.00	69	312.00	175

Date : 22-APR-2008 14:29

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z042209.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 210

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72,00	13597	132,00	728	199,00	36	313,00	159
73,00	95864	135,00	4360	200,00	91	314,00	144
74,00	352704	136,00	496	201,00	238	315,00	71
75,00	1000128	137,00	4574	202,00	197	320,00	177
76,00	100888	138,00	193	203,00	60	321,00	76
77,00	14040	139,00	500	204,00	82	322,00	380
78,00	9882	140,00	2028	206,00	474	331,00	2
79,00	54848	141,00	24296	207,00	709	332,00	260
80,00	17688	142,00	3178	208,00	707	335,00	152
81,00	58760	143,00	24872	211,00	102	336,00	73
82,00	12359	144,00	1158	213,00	96	338,00	83
83,00	1512	145,00	1622	214,00	110	339,00	183
84,00	580	146,00	3785	215,00	71	341,00	523
85,00	129	147,00	1771	218,00	629	344,00	389
86,00	2726	148,00	5891	219,00	370	346,00	224
87,00	88480	149,00	1441	220,00	75	348,00	89
88,00	83784	150,00	3090	223,00	360		
90,00	92	151,00	234	226,00	67		

Report Date: 29-Apr-2008 08:59

Air Toxics Ltd.

Data file : /var/chem/msdz.i/29Apr2008.b/z042901.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 29-APR-2008 09:07  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 2uL #1476-277;BFB Tune Check  
 Misc Info : 50ng  
 Comment :  
 Method : /var/chem/msdz.i/29Apr2008.b/bfb60.m  
 Meth Date : 29-Apr-2008 08:59 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  
 == =====

RT	EXP RT	DLT RT	MASS	RESPONSE ( ug/L)	( ug/L)	TARGET RANGE	RATIO
1	bfb					CAS #: 460-00-4	
5.890	5.937	-0.047	95	1499648		100.00- 100.00	100.00
5.890	5.937	-0.047	50	430539		15.00- 40.00	28.71
5.890	5.937	-0.047	75	842901		30.00- 60.00	56.21
5.890	5.937	-0.047	96	120505		5.00- 9.00	8.04
5.890	5.937	-0.047	173	12359		0.00- 2.00	1.05
5.890	5.937	-0.047	174	1173781		50.00- 100.00	78.27
5.890	5.937	-0.047	175	104218		5.00- 9.00	8.88
5.890	5.937	-0.047	176	1136797		95.00- 101.00	96.85
5.890	5.937	-0.047	177	90196		5.00- 9.00	7.93

Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz,i

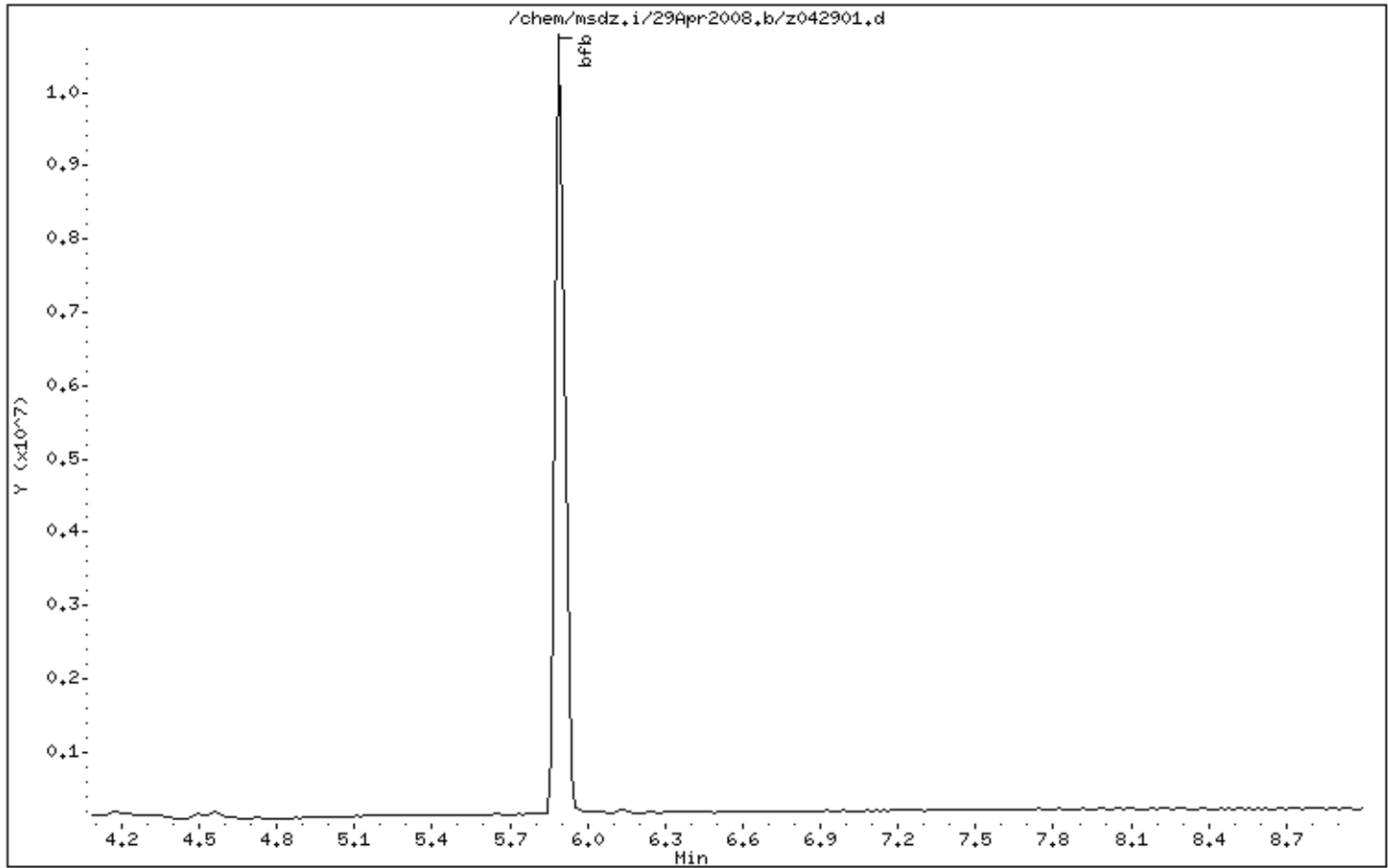
Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

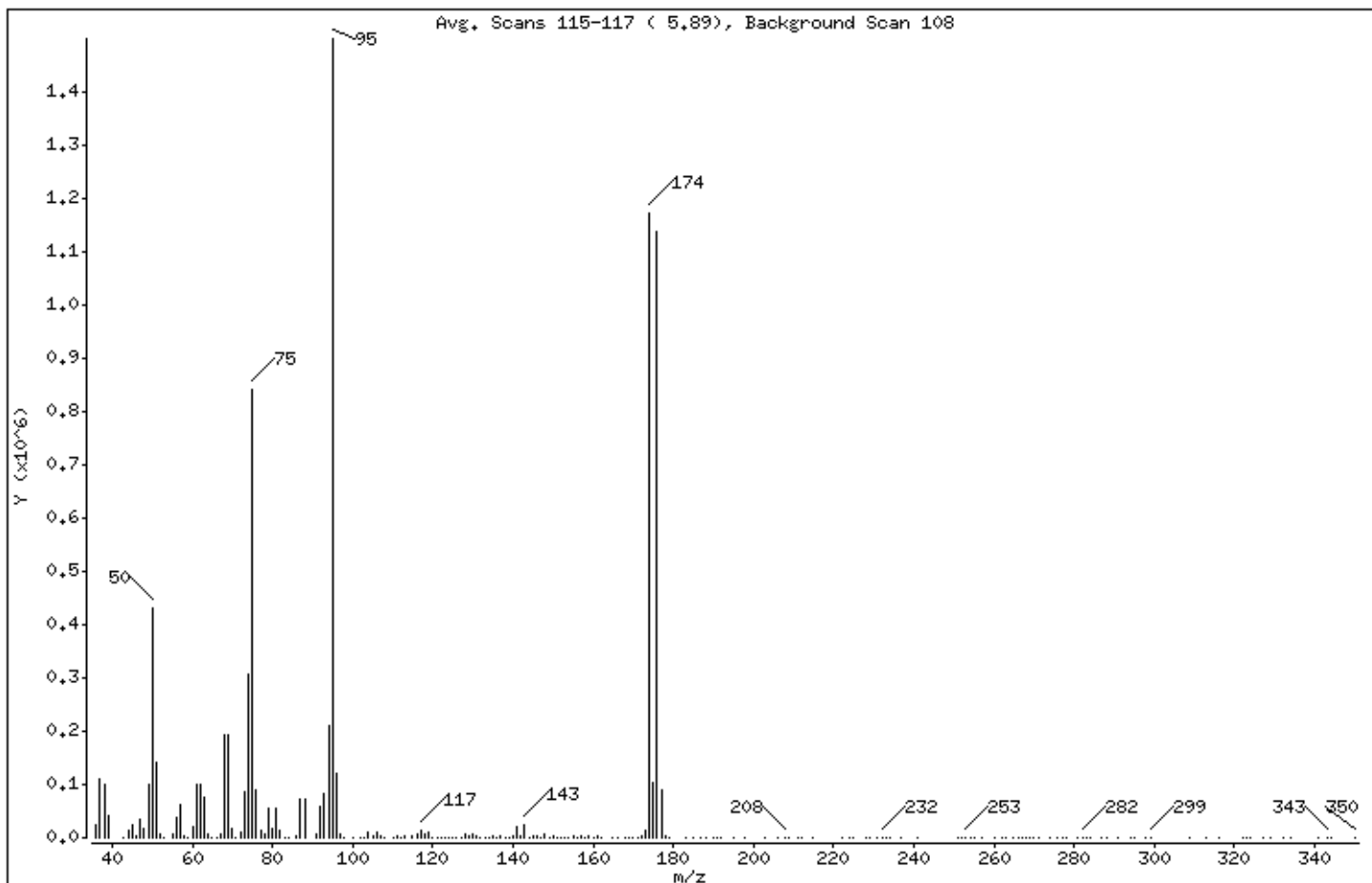
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.71
75	30.00 - 60.00% of mass 95	56.21
96	5.00 - 9.00% of mass 95	8.04
173	Less than 2.00% of mass 174	0.82 ( 1.05)
174	50.00 - 100.00% of mass 95	78.27
175	5.00 - 9.00% of mass 174	6.95 ( 8.88)
176	95.00 - 101.00% of mass 174	75.80 ( 96.85)
177	5.00 - 9.00% of mass 176	6.01 ( 7.93)

Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z042901.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	22752	94.00	208832	149.00	1439	233.00	103
37.00	111944	95.00	1499648	150.00	2653	234.00	67
38.00	101064	96.00	120504	151.00	385	237.00	74
39.00	40440	97.00	5222	152.00	1090	241.00	258
43.00	1196	98.00	28	153.00	1621	251.00	48
44.00	13738	100.00	188	154.00	1486	252.00	149
45.00	23544	102.00	376	155.00	5120	253.00	1208
46.00	1773	103.00	1181	156.00	1578	254.00	248
47.00	33816	104.00	9651	157.00	3479	255.00	266
48.00	16392	105.00	3202	158.00	1380	257.00	105
49.00	99304	106.00	9664	159.00	2997	260.00	18
50.00	430528	107.00	1894	160.00	319	262.00	173
51.00	141312	108.00	476	161.00	2677	263.00	159
52.00	6837	110.00	1372	162.00	321	265.00	35
53.00	278	111.00	2201	165.00	135	266.00	233
55.00	6955	112.00	1620	166.00	441	267.00	522
56.00	36800	113.00	1768	168.00	81	268.00	324
57.00	63392	115.00	1835	169.00	168	269.00	439
58.00	2776	116.00	7678	170.00	401	270.00	217
59.00	88	117.00	12605	171.00	414	271.00	72
60.00	22056	118.00	8503	172.00	2333	274.00	81
61.00	99256	119.00	9983	173.00	12359	276.00	198
62.00	99056	120.00	456	174.00	1173504	277.00	89
63.00	74768	121.00	537	175.00	104216	278.00	81
64.00	8103	122.00	714	176.00	1136640	281.00	432
65.00	1610	123.00	827	177.00	90192	282.00	632
66.00	119	124.00	1323	178.00	3030	283.00	116
67.00	5530	125.00	592	179.00	133	284.00	48
68.00	194304	126.00	978	183.00	78	287.00	77
69.00	191744	127.00	35	185.00	100	288.00	71
70.00	17880	128.00	7010	187.00	85	291.00	76
71.00	71	129.00	4154	188.00	97	294.00	174
72.00	11836	130.00	7193	190.00	276	295.00	68
73.00	84696	131.00	3061	191.00	698	298.00	91
74.00	306560	132.00	340	192.00	200	299.00	121



Date : 29-APR-2008 09:07

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z042901.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 202

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	842880	133.00	824	195.00	190	309.00	68
76.00	88160	134.00	543	198.00	91	313.00	107
77.00	12388	135.00	4560	203.00	98	316.00	67
78.00	8195	136.00	533	206.00	137	322.00	119
79.00	54088	137.00	4644	208.00	1045	323.00	81
80.00	16424	138.00	330	209.00	273	324.00	68
81.00	55896	139.00	1033	211.00	295	327.00	180
82.00	12410	140.00	1873	212.00	74	329.00	233
83.00	1676	141.00	21992	215.00	70	332.00	72
84.00	66	142.00	2969	222.00	164	334.00	128
86.00	2478	143.00	23008	224.00	70	341.00	111
87.00	73232	144.00	1635	225.00	13	343.00	354
88.00	70984	145.00	2440	228.00	69	344.00	240
91.00	7477	146.00	2858	229.00	117	350.00	90
92.00	58104	147.00	1525	231.00	69		
93.00	81904	148.00	5441	232.00	280		

Report Date: 08-May-2008 08:52

## Air Toxics Ltd.

Data file : /var/chem/msdz.i/08May2008.b/z050801.d  
 Lab Smp Id: Client Smp ID: BFB  
 Inj Date : 08-MAY-2008 09:00  
 Operator : sjr Inst ID: msdz.i  
 Smp Info : 2uL #1476-277;BFB Tune Check  
 Misc Info : 50ng  
 Comment :  
 Method : /var/chem/msdz.i/08May2008.b/bfb60.m  
 Meth Date : 08-May-2008 08:52 Quant Type: ESTD  
 Cal Date : Cal File:  
 Als bottle: 1 QC Sample: BFB  
 Dil Factor: 1.00000  
 Integrator: HP RTE Compound Sublist: all.sub  
 Target Version: 3.50 Sample Matrix: WATER  
 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							
5.890	5.937	-0.047	95	1249972		100.00- 100.00	100.00
5.890	5.937	-0.047	50	393575		15.00- 40.00	31.49
5.890	5.937	-0.047	75	726268		30.00- 60.00	58.10
5.890	5.937	-0.047	96	104765		5.00- 9.00	8.38
5.890	5.937	-0.047	173	10014		0.00- 2.00	1.06
5.890	5.937	-0.047	174	948906		50.00- 100.00	75.91
5.890	5.937	-0.047	175	83507		5.00- 9.00	8.80
5.890	5.937	-0.047	176	917750		95.00- 101.00	96.72
5.890	5.937	-0.047	177	73373		5.00- 9.00	7.99

Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

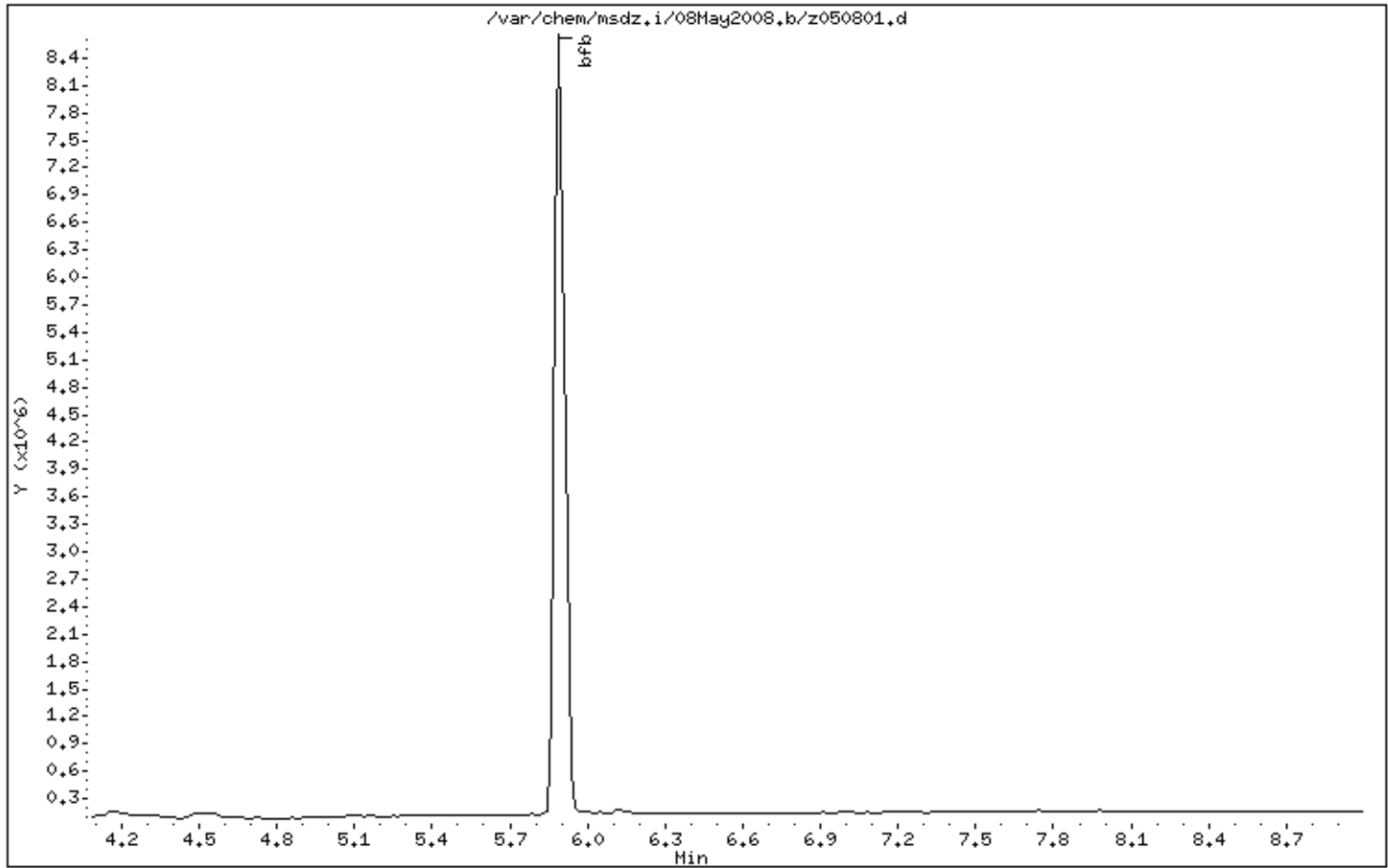
Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00



Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

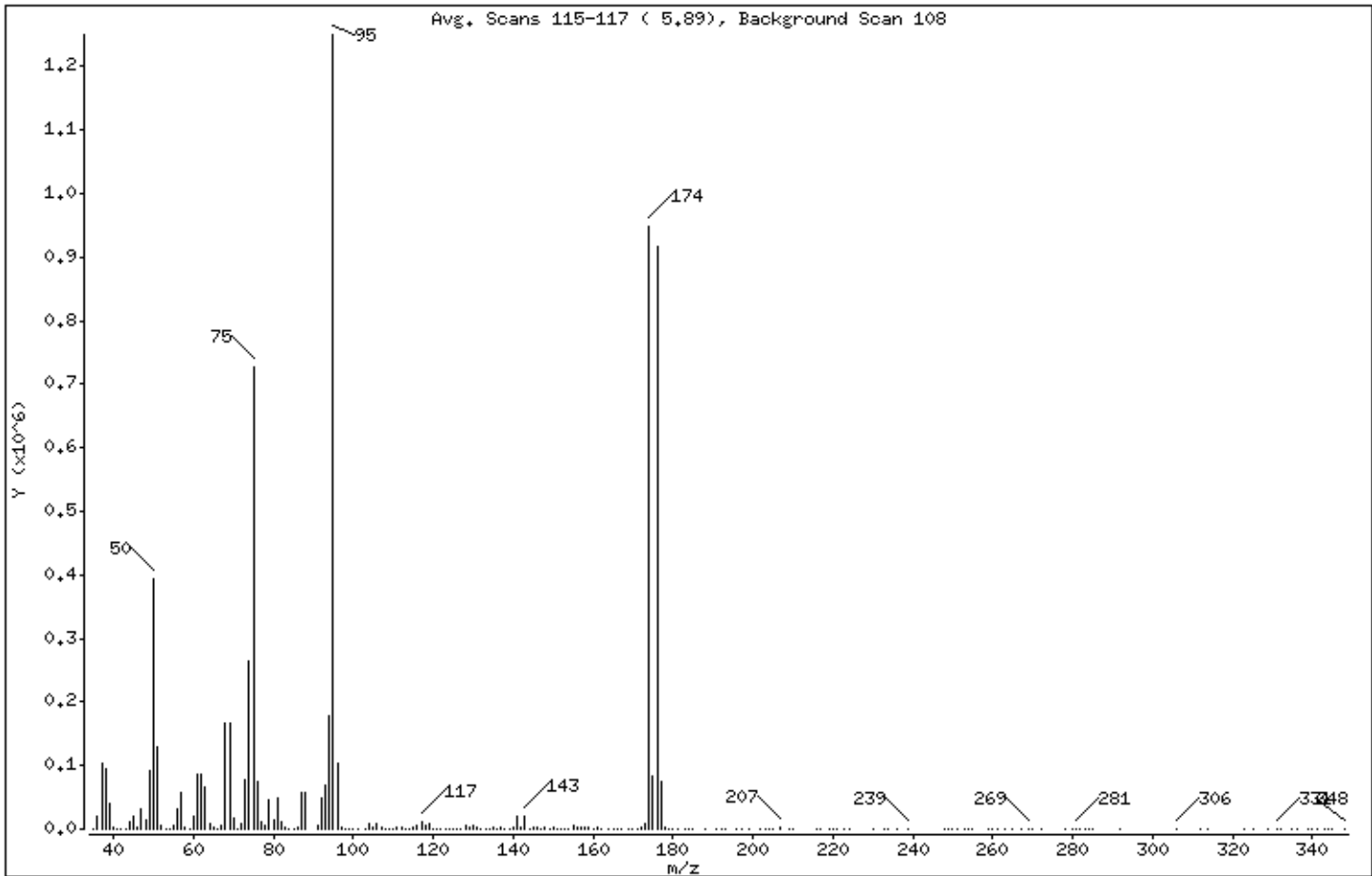
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	31.49
75	30.00 - 60.00% of mass 95	58.10
96	5.00 - 9.00% of mass 95	8.38
173	Less than 2.00% of mass 174	0.80 ( 1.06)
174	50.00 - 100.00% of mass 95	75.91
175	5.00 - 9.00% of mass 174	6.68 ( 8.80)
176	95.00 - 101.00% of mass 174	73.42 ( 96.72)
177	5.00 - 9.00% of mass 176	5.87 ( 7.99)

Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277:BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z050801.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	252	91.00	6742	146.00	2016	220.00	69
36.00	21200	92.00	48472	147.00	1309	221.00	97
37.00	104168	93.00	69080	148.00	4242	223.00	94
38.00	95448	94.00	176896	149.00	1331	224.00	89
39.00	40024	95.00	1249792	150.00	2214	230.00	71
40.00	1909	96.00	104760	151.00	196	233.00	72
41.00	463	97.00	3716	152.00	1125	234.00	79
42.00	309	98.00	364	153.00	1413	236.00	74
43.00	785	99.00	90	154.00	1366	239.00	381
44.00	12148	100.00	101	155.00	4382	248.00	71
45.00	21328	101.00	88	156.00	2359	249.00	153
46.00	1703	103.00	1003	157.00	3466	250.00	198
47.00	31504	104.00	7822	158.00	1870	251.00	268
48.00	15075	105.00	2694	159.00	2505	253.00	459
49.00	91624	106.00	8097	160.00	239	254.00	233
50.00	393536	107.00	1767	161.00	2129	255.00	31
51.00	128904	108.00	10	162.00	8	259.00	92
52.00	6618	109.00	189	164.00	79	260.00	99
53.00	652	110.00	1180	165.00	370	261.00	499
54.00	339	111.00	1705	166.00	93	263.00	181
55.00	6639	112.00	1634	167.00	135	265.00	178
56.00	31712	113.00	1408	169.00	244	267.00	451
57.00	58584	114.00	176	170.00	778	269.00	723
58.00	2551	115.00	2005	171.00	538	270.00	133
59.00	618	116.00	6684	172.00	3335	272.00	69
60.00	19176	117.00	11660	173.00	10014	278.00	75
61.00	87464	118.00	6598	174.00	948864	280.00	91
62.00	85632	119.00	9504	175.00	83504	281.00	685
63.00	65944	120.00	626	176.00	917696	282.00	18
64.00	7394	121.00	519	177.00	73368	283.00	40
65.00	2951	122.00	233	178.00	2205	284.00	105
66.00	235	123.00	701	179.00	9	285.00	84
67.00	5380	124.00	1218	180.00	67	292.00	78
68.00	167552	125.00	273	181.00	403	306.00	160
69.00	166208	126.00	725	183.00	156	312.00	100

Date : 08-MAY-2008 09:00

Client ID: BFB

Instrument: msdz.i

Sample Info: 2uL #1476-277;BFB Tune Check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: z050801.d

Spectrum: Avg. Scans 115-117 ( 5.89), Background Scan 108

Location of Maximum: 95.00

Number of points: 212

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	16243	127.00	587	184.00	157	314.00	79
71.00	683	128.00	6848	185.00	143	323.00	177
72.00	9783	129.00	3302	188.00	88	325.00	144
73.00	76144	130.00	6515	191.00	214	329.00	80
74.00	263040	131.00	2770	192.00	186	331.00	292
75.00	726208	132.00	591	193.00	357	332.00	93
76.00	75176	133.00	529	196.00	77	335.00	77
77.00	12703	134.00	589	197.00	108	336.00	92
78.00	6071	135.00	3721	199.00	111	339.00	87
79.00	46696	136.00	859	202.00	199	340.00	71
80.00	14479	137.00	4003	203.00	192	341.00	274
81.00	47776	138.00	202	204.00	261	343.00	143
82.00	10171	139.00	939	205.00	25	344.00	260
83.00	1508	140.00	1552	207.00	4226	345.00	9
84.00	179	141.00	18968	209.00	918	348.00	95
85.00	124	142.00	2908	210.00	168		
86.00	1695	143.00	19840	216.00	135		
87.00	58080	144.00	1222	217.00	200		
88.00	56344	145.00	2443	219.00	364		

## **Shipping/ Receiving Documents**



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AN ENVIRONMENTAL ANALYTICAL LABORATORY

**180 Blue Ravine Road, Suite B  
Folsom, CA 95630**

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

COMPANY: \_\_\_\_\_ GEI Consultants, Inc. \_\_\_\_\_  
ATTENTION: \_\_\_\_\_ Ms. Theresa Landgraff \_\_\_\_\_  
FAX #: \_\_\_\_\_  
FROM: \_\_\_\_\_ Sample Receiving \_\_\_\_\_  
Workorder #: \_\_\_\_\_ 0805029 \_\_\_\_\_  
# of pages (Including Cover): \_\_\_\_\_ 1 \_\_\_\_\_

5/16/2008

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



# AIR TOXICS LTD.

## Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling, or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hazmat (800) 467-4822

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

<b>Contact</b> Company: GEI Consultants, Inc. Address: 455 Winding Brook Glastonbury CT 06033 Phone: 860-968-5900 Cell:		<b>Project Info:</b> P.O. #: _____ Project #: 061140 - 8 - 1703 Project Name: BayShore OJ1 Southern cell Air Monitoring		<b>Turn Around Time:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush _____ Specify _____	
Collected By: Signature: <i>B. Powell</i>					

Lab ID.	Field Sample I.D.	Date & Time	Analysis Requested	Canister Pressure Initial	Canister Pressure Final	Vacuum Receipt
O1A	Amns 1 Div #25237	4-30-08 5:50 / 1:50	TO-15 + Naphthalene	-30	-8.5	
O2A	Amns 7 Div #33418	4-30-08 5:55 / 1:55	TO-15 + Naphthalene	-30	-8	

Relinquished By: (Signature) Date/Time <i>[Signature]</i> 4-30-08	Received By: (Signature) Date/Time <i>[Signature]</i> AT 05-01-02 0840
Relinquished By: (Signature) Date/Time _____	Received By: (Signature) Date/Time _____

Notes: used flow controllers included  
Initial and final can pressures in inches Hg  
Send Data Pack to Lisa McDonough and EDD to [datagroup@geico-consultants.com](mailto:datagroup@geico-consultants.com)

Lab Use Only Shipper Name: FedEx Air Bill #: 8631 8554 8385 Opened By: <i>[Signature]</i> Temp. (C): _____ Condition: _____ Quantity Seals intact: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> None <input type="checkbox"/> Work Order #: 0805029
---



AN ENVIRONMENTAL ANALYTICAL LABORATORY

## SAMPLE RECEIPT SUMMARY

### WORKORDER 0805029

**Client**

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

**Phone**

631-760-9300 x 12

**Fax**

**Date Promised:** 05/15/08

**Date Completed:** 5/14/08

**Date Received:** 5/1/08

**PO#:** NR

**Project#:** 061140-8-1703 BayShore OU1 Southern cell  
Air Monitorin

**Total \$:** \$ 798.00

**Logged By:** MG

**Sales Rep:** TB

<u>Fraction</u>	<u>Sample #</u>	<u>Analysis</u>	<u>Collected</u>	<u>Receipt Vac./Pres.</u>	<u>Amount\$</u>
01A	AMS 1 DW	Modified TO-15	4/30/2008	6.5 "Hg	\$225.00
02A	AMS 7 UW	Modified TO-15	4/30/2008	7.0 "Hg	\$225.00
03A	Lab Blank	Modified TO-15	NA	NA	\$0.00
04A	CCV	Modified TO-15	NA	NA	\$0.00
05A	LCS	Modified TO-15	NA	NA	\$0.00
Misc. Charges 6 Liter Summa Canister (4) @ \$50.00 each., Shipment 58293					\$200.00
Blue Body Flow Controller (4) @ \$35.00 each., Shipment 58293					\$140.00
Fuel Surcharge (4) @ \$2.00 each.					\$8.00

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

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

Analysis Code: TO-14A

**TERMS:**

Reporting Method: Modified TO-15 + Naph

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

## **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 #:

0805029

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 (N<sub>2</sub> 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: Fr 113 31%, MeCl<sub>2</sub> 34% in ICAL.  
Carbon Tet & Bromoform ↑ = 40 in CCV.  
Ø out in LCS. 14 day HT.

M/Q:

A (Analytical Review/Date) R/T (Reporting Review/Date) M (Management Review/Date) Q (QA Review/Date)

*SA* 5/9/08 R: *RTALAB* 5-14-08 *CRP* 5/11/08

T: \_\_\_\_\_



**Not Applicable**