
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 #: 0706160

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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	6/25/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0706160

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 Bay Shore OU1
DATE RECEIVED:	06/07/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	06/19/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	AMS3 DW	Modified TO-15	5.5 "Hg
02A	AMS6 UW	Modified TO-15	6.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 06/19/07

Laboratory Director

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0706160

Two 6 Liter Summa Canister samples were received on June 07, 2007. 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 quantified amounts.

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

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

Receiving Notes

The Chain of Custody (COC) information for samples AMS3 DW and AMS6 UW did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

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

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS3 DW	0706160-01A	6/ 6/2007	6/ 7/2007	NA	9	6/15/2007	NA	Good
AMS6 UW	0706160-02A	6/ 6/2007	6/ 7/2007	NA	10	6/16/2007	NA	Good
Lab Blank	0706160-03A	NA	NA	NA	NA	6/15/2007	NA	Good
CCV	0706160-04A	NA	NA	NA	NA	6/15/2007	NA	Good
LCS	0706160-05A	NA	NA	NA	NA	6/15/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS3 DW

Lab ID#: 0706160-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	0.91	4.0	4.5
Acetone	3.3	5.0	7.8	12
2-Butanone (Methyl Ethyl Ketone)	0.82	1.0	2.4	3.0

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Client Sample ID: AMS3 DW

Lab ID#: 0706160-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061518**	**Date of Collection: 6/6/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 6/15/07 11:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	0.91	4.0	4.5
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	Not Detected	3.6	Not Detected
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	Not Detected	2.9	Not Detected
Cyclohexane	0.82	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS3 DW

Lab ID#: 0706160-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061518**	**Date of Collection: 6/6/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 6/15/07 11:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	5.0	7.8	12
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	1.0	2.4	3.0
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	103	70-130

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AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15jun.b/5061518.d
Lab Smp Id: 0706160-01A
Inj Date : 15-JUN-2007 23:32
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #34001
Misc Info : 5.5"Hg-5psi
Comment :
Method : /var/chem/msd5.i/5-15jun.b/t14q529a.m
Meth Date : 15-Jun-2007 11:44 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1
Dil Factor: 1.64000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 57 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	168911	25.0000		80.00- 120.00	100.00
8.214	8.214 (1.000)	128	119444			47.96- 107.96	70.71
8.214	8.214 (1.000)	49	447708			246.95- 306.95	265.06
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	606317	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	107773			0.00- 49.73	17.78
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	473503	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	315526			33.54- 93.54	66.64
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.293 (1.128)	65	373745	27.6021	27.602	80.00- 120.00	100.00
9.265	9.293 (1.128)	67	151030			25.98- 85.98	40.41
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	554407	25.1213	25.121	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	63387			0.00- 41.05	11.43

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	332329			36.04- 96.04	59.94
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	307087	25.8126	25.813	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	512738			140.08- 200.08	166.97
16.675	16.675 (1.104)	176	286890			65.81- 125.81	93.42
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.436 (0.293)	85	16560	0.55260	0.9063	80.00- 120.00	100.00
2.408	2.436 (0.293)	87	7347			1.62- 61.62	44.37
22 Acetone					CAS #: 67-64-1		
4.869	4.869 (0.593)	58	33155	3.08179	5.054	80.00- 120.00	100.00
4.869	4.841 (0.593)	43	167273			327.94- 387.94	504.52
53 2-Butanone					CAS #: 78-93-3		
7.827	7.800 (0.953)	72	3455	0.62176	1.020	80.00- 120.00	100.00
7.827	7.800 (0.953)	43	19718			756.84- 816.84	570.71
7.855	7.800 (0.956)	57	2974			23.20- 83.20	86.08

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5061518.d
Lab Smp Id: 0706160-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: 5.5"Hg-5psi

Calibration Date: 15-JUN-2007
Calibration Time: 10:38
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	221444	132866	310022	168911	-23.72
79 1,4-Difluorobenze	867858	520715	1215001	606317	-30.14
108 Chlorobenzene-d5	685113	411068	959158	473503	-30.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

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RECOVERY REPORT

Client Name: Client SDG: 5-15jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0706160-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/t14q529a.m
Misc Info: 5.5"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	27.602	110.41	70-130
$ 97 Toluene-d8	25.000	25.121	100.49	70-130
$ 122 Bromofluorobenzene	25.000	25.813	103.25	70-130

Data File: /chem/msd5.i/5-15jun.b/5061518.d

Date : 15-JUN-2007 23:32

Client ID:

Sample Info: 200mL #34001

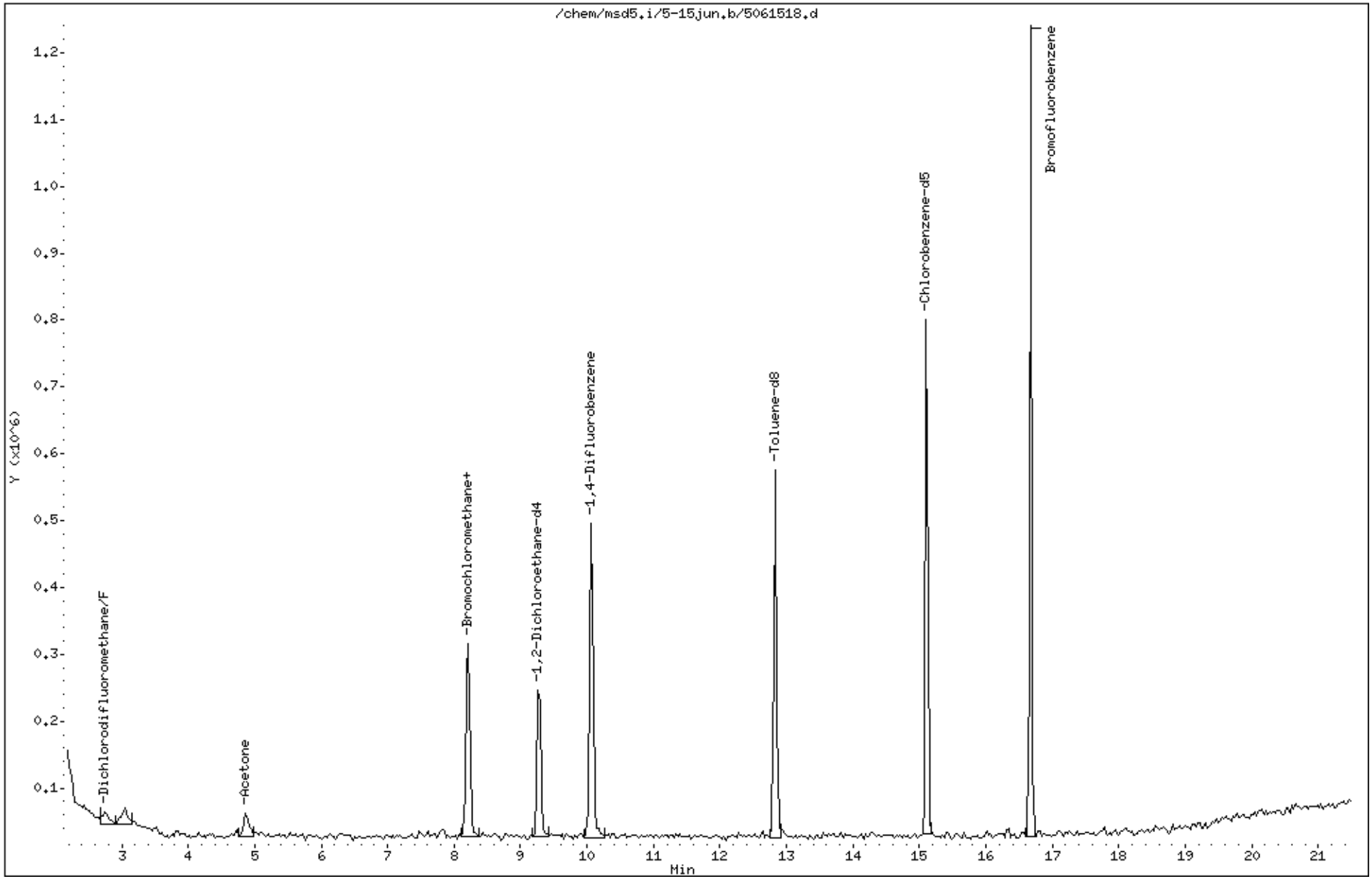
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0013



Data File: /chem/msd5.i/5-15jun.b/5061518.d

Date : 15-JUN-2007 23:32

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34001

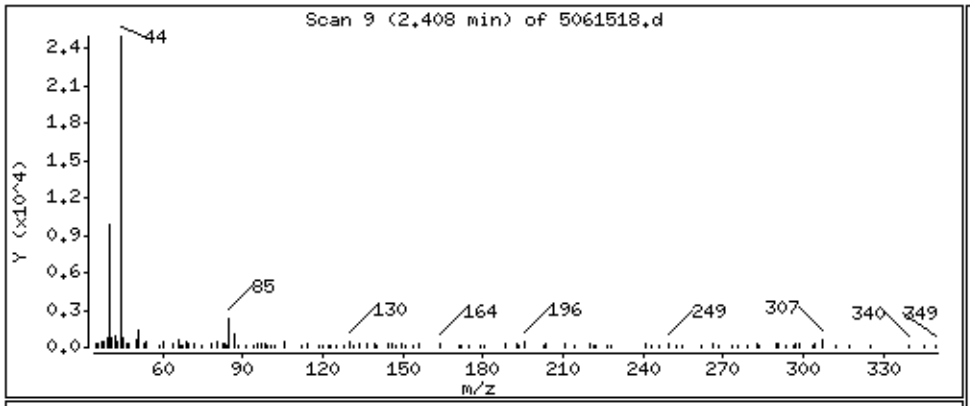
Operator: kr

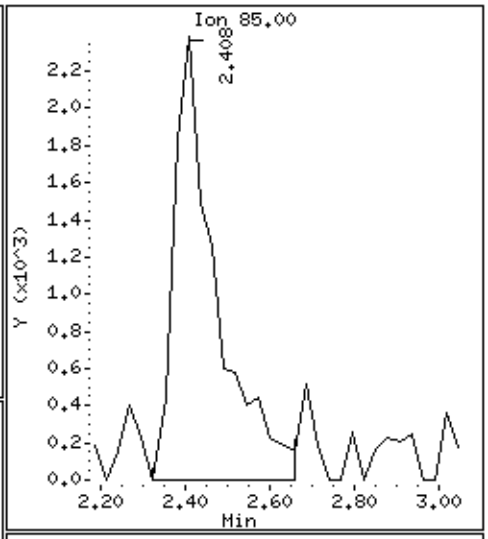
Column phase: RTx-624

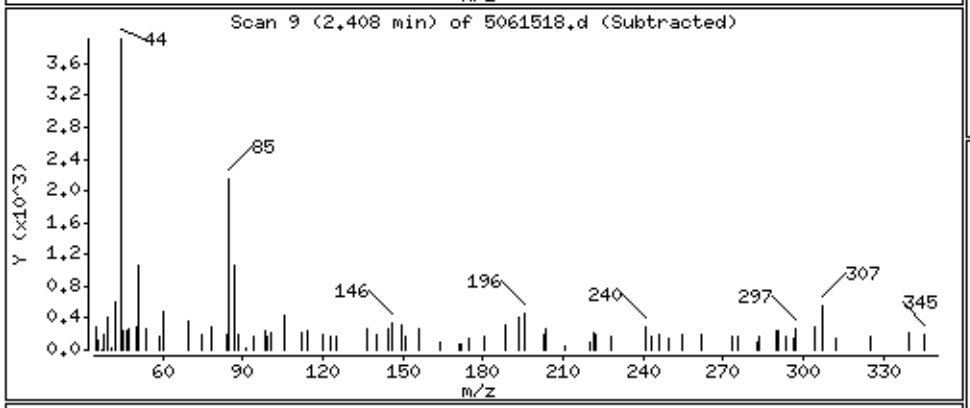
Column diameter: 0.53

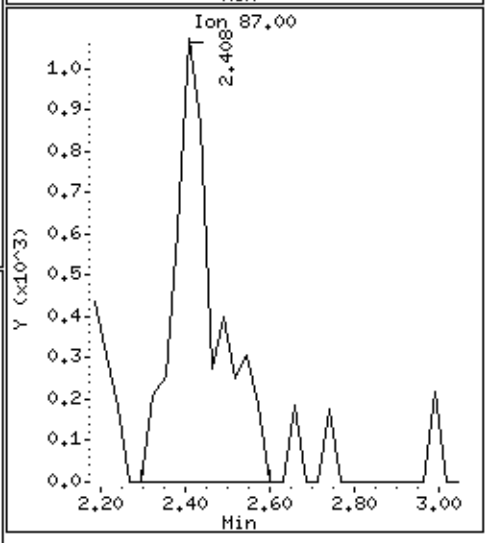
2 Dichlorodifluoromethane/Fr12

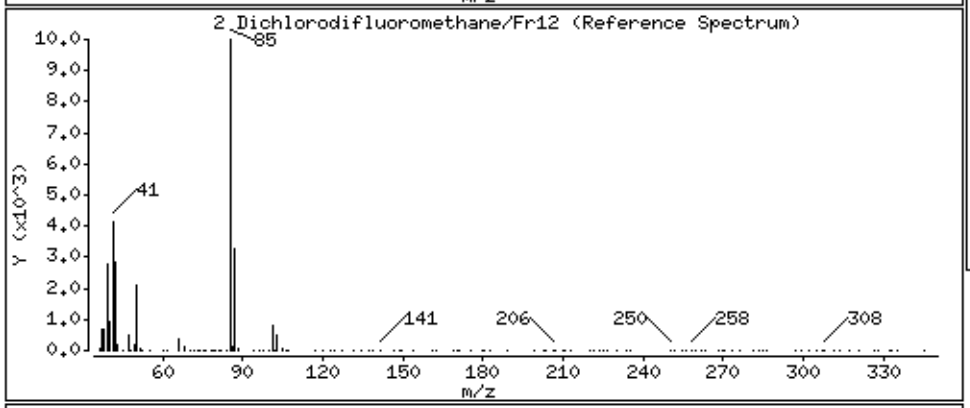
Concentration: 0.9063 PPBV

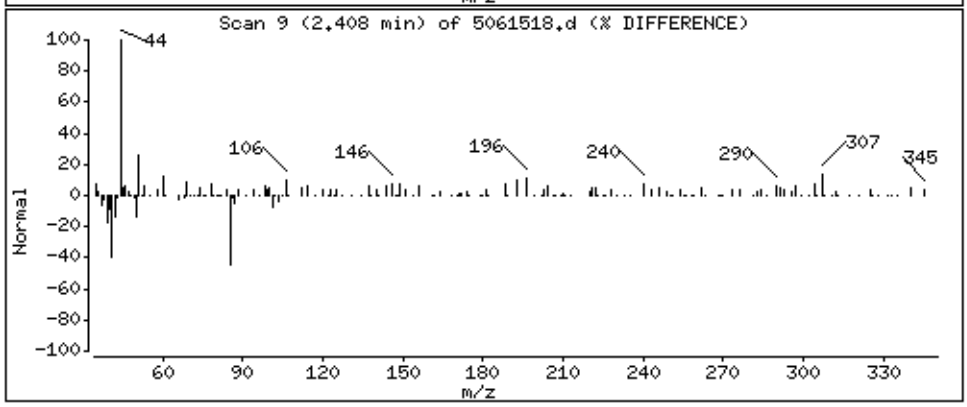












Data File: /chem/msd5.i/5-15jun.b/5061518.d

Date : 15-JUN-2007 23:32

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34001

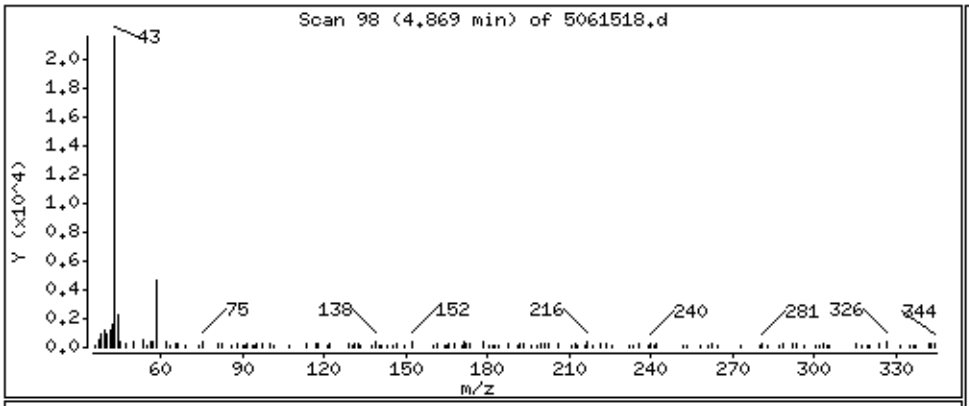
Operator: kr

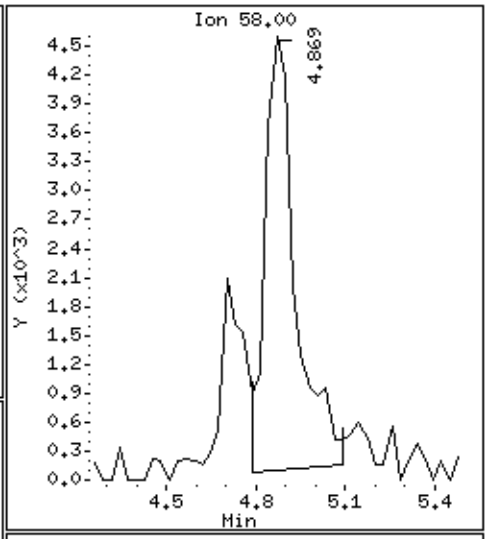
Column phase: RTx-624

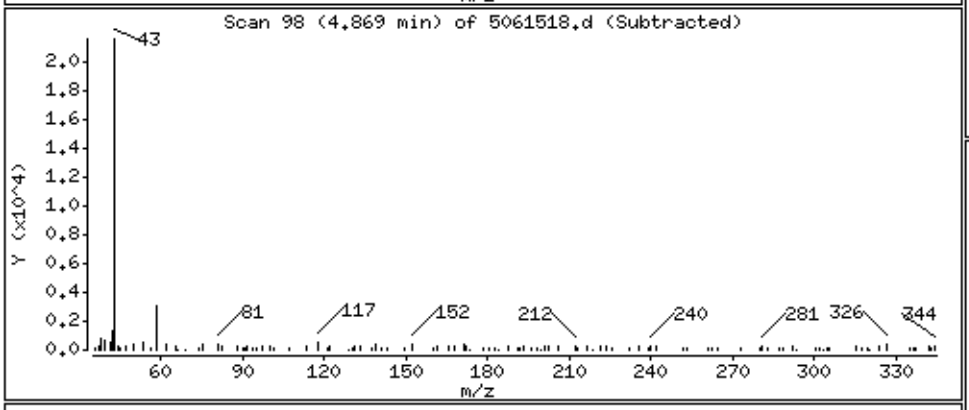
Column diameter: 0.53

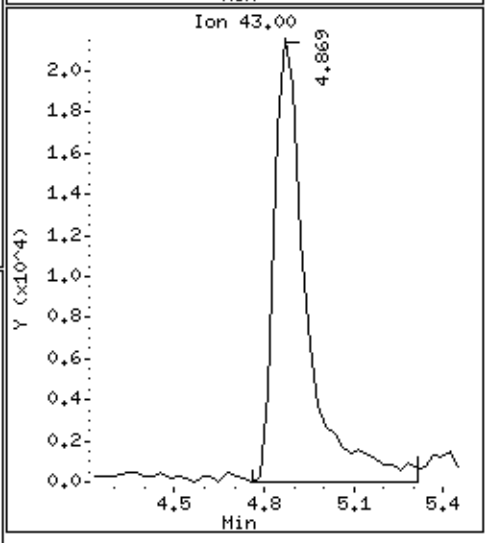
22 Acetone

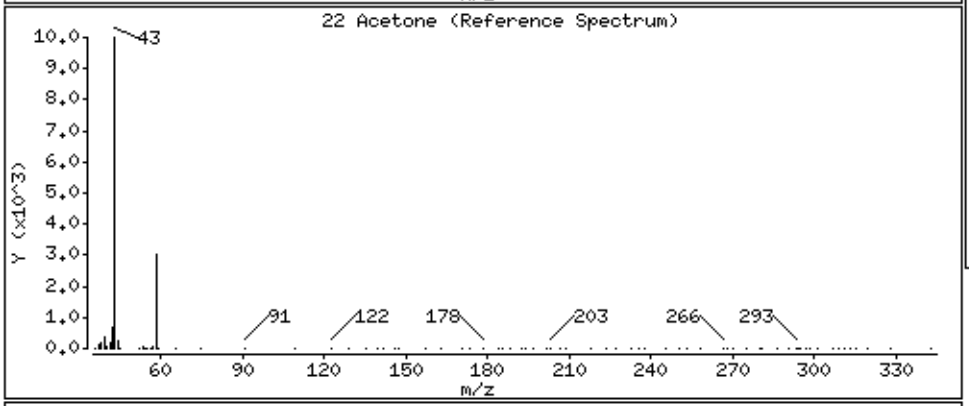
Concentration: 5.054 PPBV

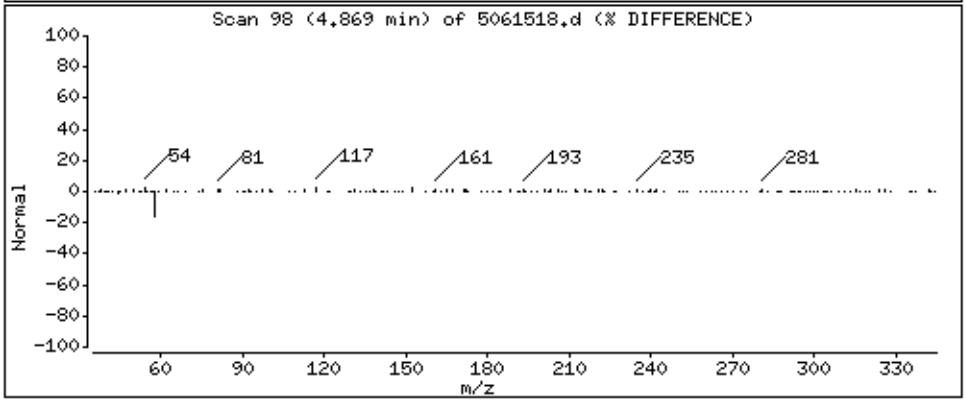












Data File: /chem/msd5.i/5-15jun.b/5061518.d

Date : 15-JUN-2007 23:32

Client ID:

Instrument: msd5.i

Sample Info: 200mL #34001

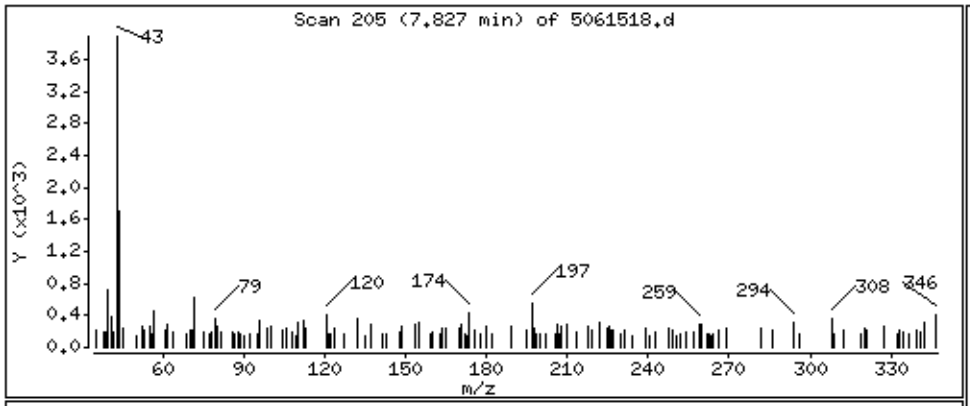
Operator: kr

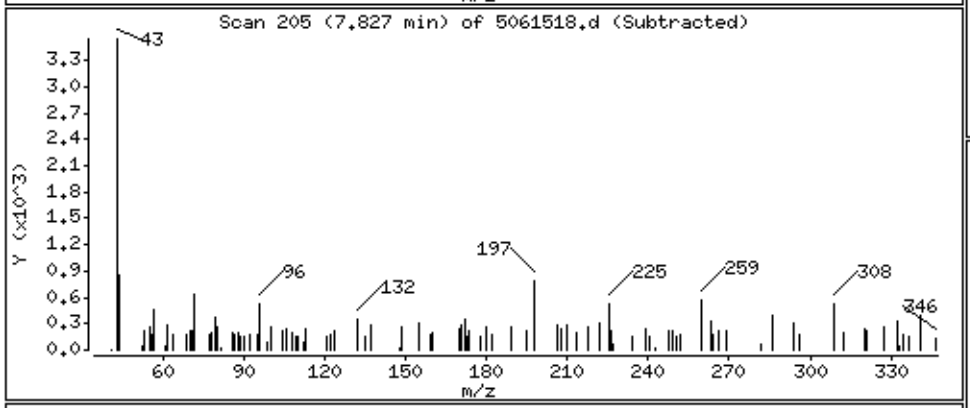
Column phase: RTx-624

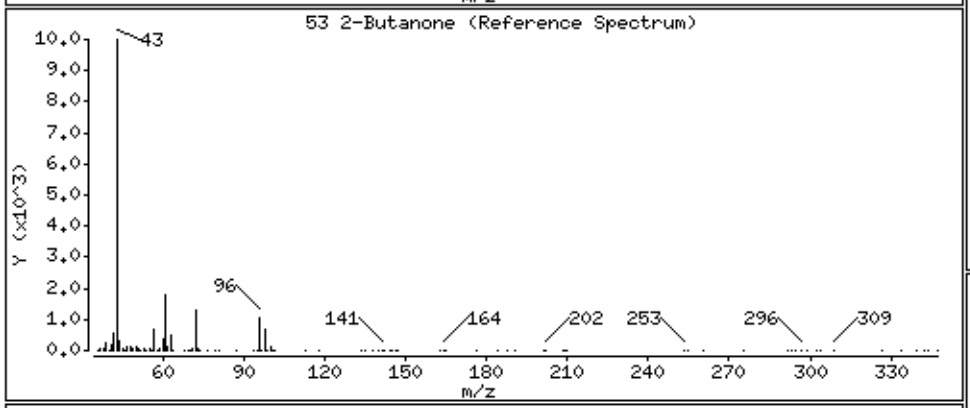
Column diameter: 0.53

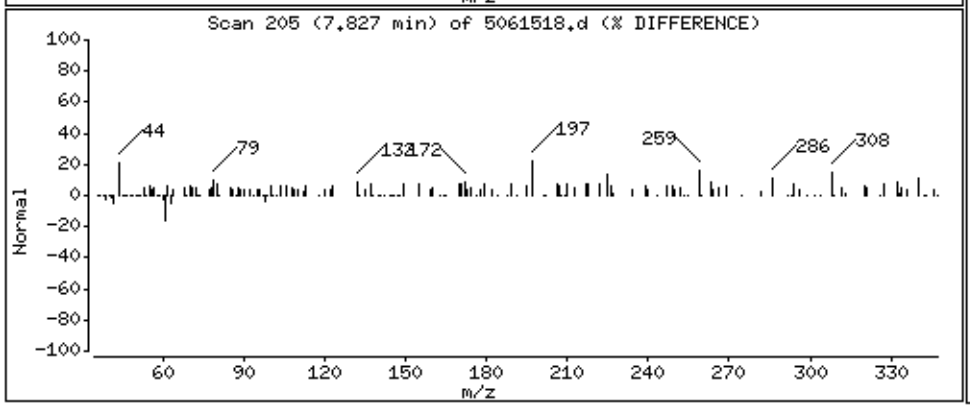
53 2-Butanone

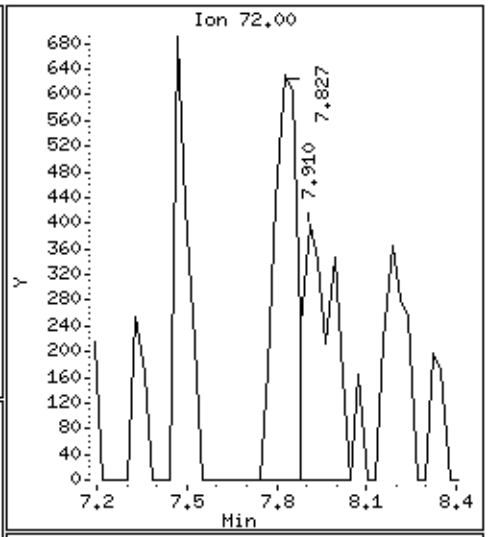
Concentration: 1.020 PPBV

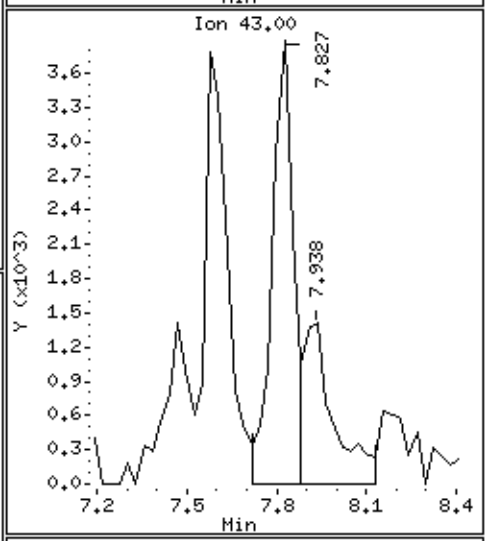


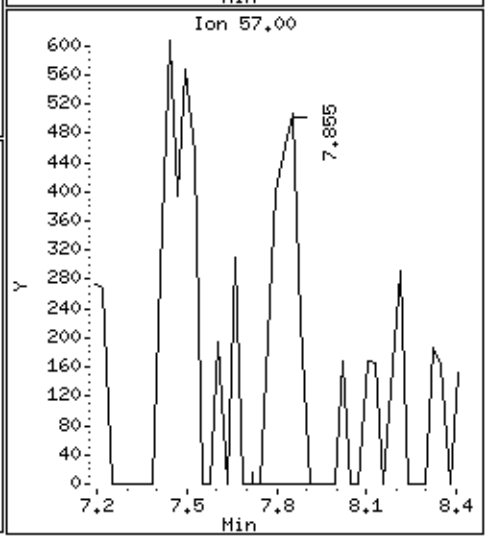












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS6 UW

Lab ID#: 0706160-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.4	4.0	8.0	9.6
2-Butanone (Methyl Ethyl Ketone)	0.84	1.4	2.5	4.0

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS6 UW

Lab ID#: 0706160-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061519**	**Date of Collection:**	**6/6/07**
Dil. Factor:	**1.68**	**Date of Analysis:**	**6/16/07 12:04 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Freon 114	0.84	Not Detected	5.9	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Bromomethane	0.84	Not Detected	3.3	Not Detected
Chloroethane	0.84	Not Detected	2.2	Not Detected
Freon 11	0.84	Not Detected	4.7	Not Detected
1,1-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Freon 113	0.84	Not Detected	6.4	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
Chloroform	0.84	Not Detected	4.1	Not Detected
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Carbon Tetrachloride	0.84	Not Detected	5.3	Not Detected
Benzene	0.84	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.84	Not Detected	3.4	Not Detected
Trichloroethene	0.84	Not Detected	4.5	Not Detected
1,2-Dichloropropane	0.84	Not Detected	3.9	Not Detected
cis-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
Toluene	0.84	Not Detected	3.2	Not Detected
trans-1,3-Dichloropropene	0.84	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.84	Not Detected	6.4	Not Detected
Chlorobenzene	0.84	Not Detected	3.9	Not Detected
Ethyl Benzene	0.84	Not Detected	3.6	Not Detected
m,p-Xylene	0.84	Not Detected	3.6	Not Detected
o-Xylene	0.84	Not Detected	3.6	Not Detected
Styrene	0.84	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.84	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,2,4-Trimethylbenzene	0.84	Not Detected	4.1	Not Detected
1,3-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
alpha-Chlorotoluene	0.84	Not Detected	4.3	Not Detected
1,2-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected
1,3-Butadiene	0.84	Not Detected	1.8	Not Detected
Hexane	0.84	Not Detected	3.0	Not Detected
Cyclohexane	0.84	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS6 UW

Lab ID#: 0706160-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061519**	**Date of Collection: 6/6/07**	
Dil. Factor:	**1.68**	**Date of Analysis: 6/16/07 12:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.84	Not Detected	3.4	Not Detected
Bromodichloromethane	0.84	Not Detected	5.6	Not Detected
Dibromochloromethane	0.84	Not Detected	7.2	Not Detected
Cumene	0.84	Not Detected	4.1	Not Detected
Propylbenzene	0.84	Not Detected	4.1	Not Detected
Chloromethane	3.4	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	4.0	8.0	9.6
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
2-Propanol	3.4	Not Detected	8.2	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.84	1.4	2.5	4.0
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.84	Not Detected	3.4	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.84	Not Detected	8.7	Not Detected
4-Ethyltoluene	0.84	Not Detected	4.1	Not Detected
Ethanol	3.4	Not Detected	6.3	Not Detected
Methyl tert-butyl ether	0.84	Not Detected	3.0	Not Detected
3-Chloropropene	3.4	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.84	Not Detected	3.9	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15jun.b/5061519.d
Lab Smp Id: 0706160-02A
Inj Date : 16-JUN-2007 00:04
Operator : kr Inst ID: msd5.i
Smp Info : 200mL #TO-1623
Misc Info : 6.0"Hg-5psi
Comment :
Method : /var/chem/msd5.i/5-15jun.b/t14q529a.m
Meth Date : 15-Jun-2007 11:44 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1
Dil Factor: 1.68000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 57 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	153422	25.0000		80.00- 120.00	100.00
8.214	8.214 (1.000)	128	125617			47.96- 107.96	81.88
8.214	8.214 (1.000)	49	405783			246.95- 306.95	264.49
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	572303	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	104288			0.00- 49.73	18.22
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	452067	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	315297			33.54- 93.54	69.75
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.293 (1.128)	65	378154	30.7472	30.747	80.00- 120.00	100.00
9.265	9.293 (1.128)	67	139153			25.98- 85.98	36.80
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	528496	25.3705	25.370	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	57255			0.00- 41.05	10.83

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	314996			36.04- 96.04	59.60
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	288923	25.4374	25.437	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	520413			140.08- 200.08	180.12
16.675	16.675 (1.104)	176	281416			65.81- 125.81	97.40
22 Acetone					CAS #: 67-64-1		
4.869	4.869 (0.593)	58	23547	2.40969	4.048	80.00- 120.00	100.00
4.869	4.841 (0.593)	43	92110			327.94- 387.94	391.18
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.950)	72	4114	0.81510	1.369	80.00- 120.00	100.00
7.827	7.800 (0.953)	43	22977			756.84- 816.84	558.51
7.827	7.800 (0.953)	57	3862			23.20- 83.20	93.87

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5061519.d
Lab Smp Id: 0706160-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 15-JUN-2007
Calibration Time: 10:38
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	221444	132866	310022	153422	-30.72
79 1,4-Difluorobenze	867858	520715	1215001	572303	-34.06
108 Chlorobenzene-d5	685113	411068	959158	452067	-34.02

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0706160-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /var/chem/msd5.i/t14q529a.m
Misc Info: 6.0"Hg-5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	30.747	122.99	70-130
$ 97 Toluene-d8	25.000	25.370	101.48	70-130
$ 122 Bromofluorobenzene	25.000	25.437	101.75	70-130

Data File: /chem/msd5.i/5-15jun.b/5061519.d

Date : 16-JUN-2007 00:04

Client ID:

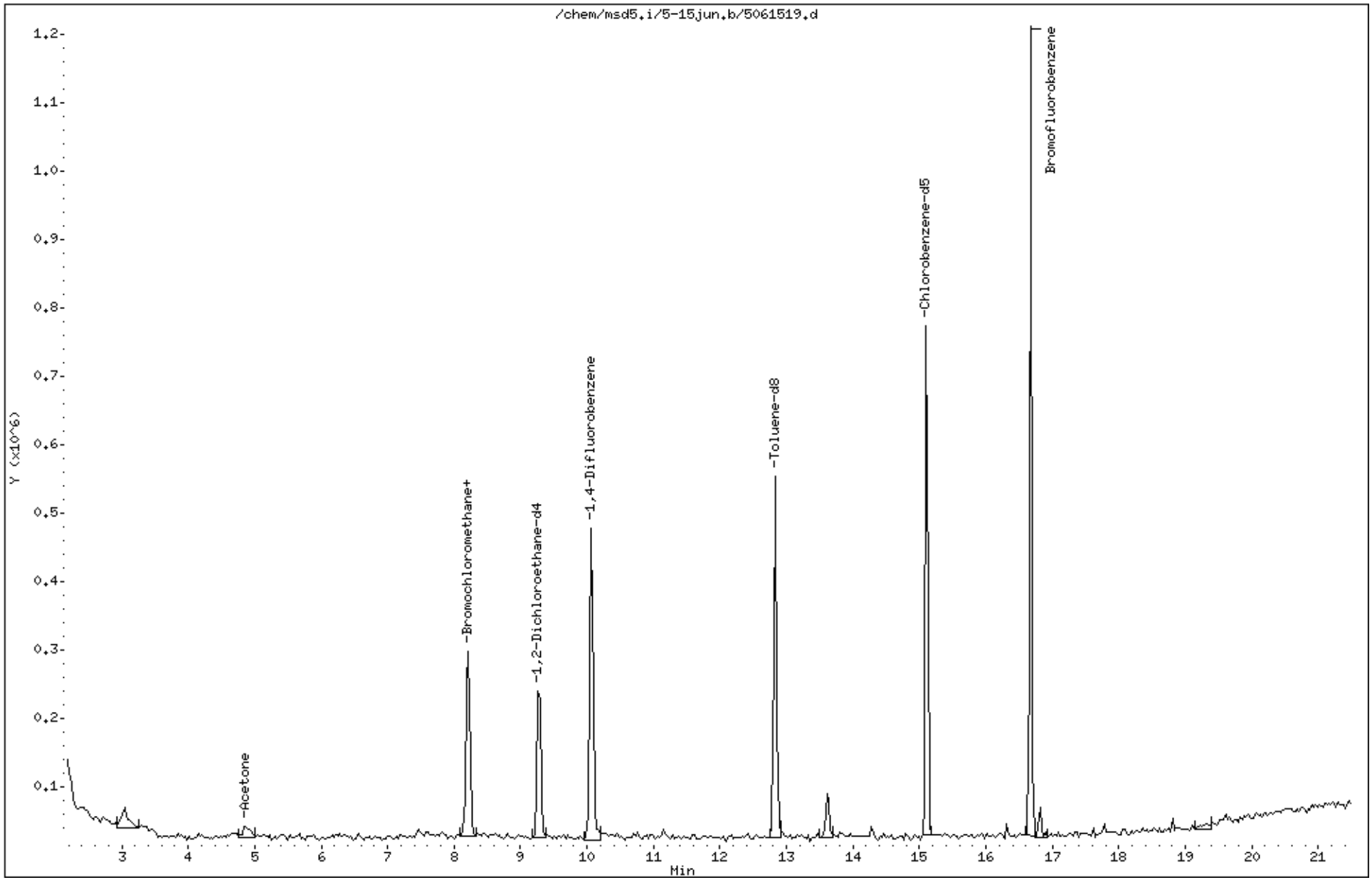
Sample Info: 200mL #TO-1623

Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53



Data File: /chem/msd5.i/5-15jun.b/5061519.d

Date : 16-JUN-2007 00:04

Client ID:

Instrument: msd5.i

Sample Info: 200mL #TO-1623

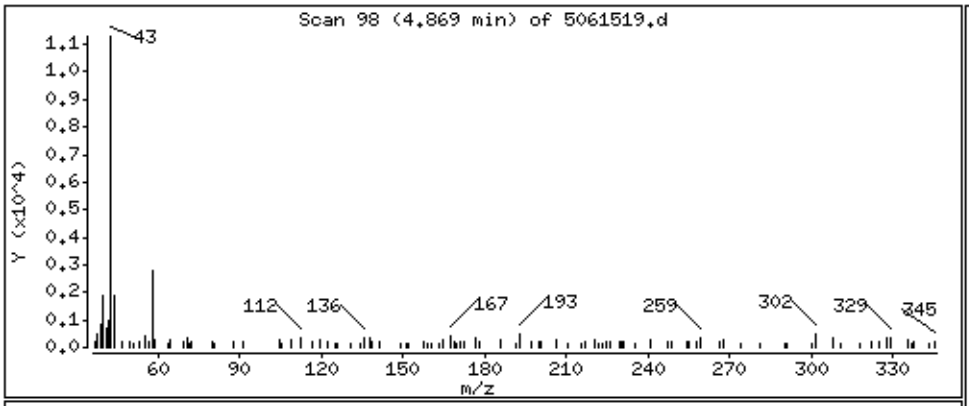
Operator: kr

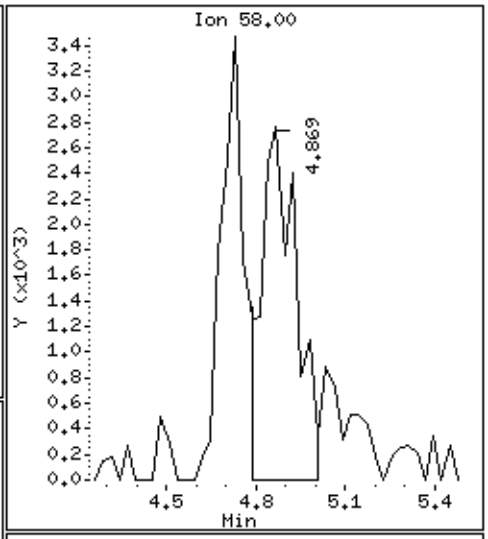
Column phase: RTx-624

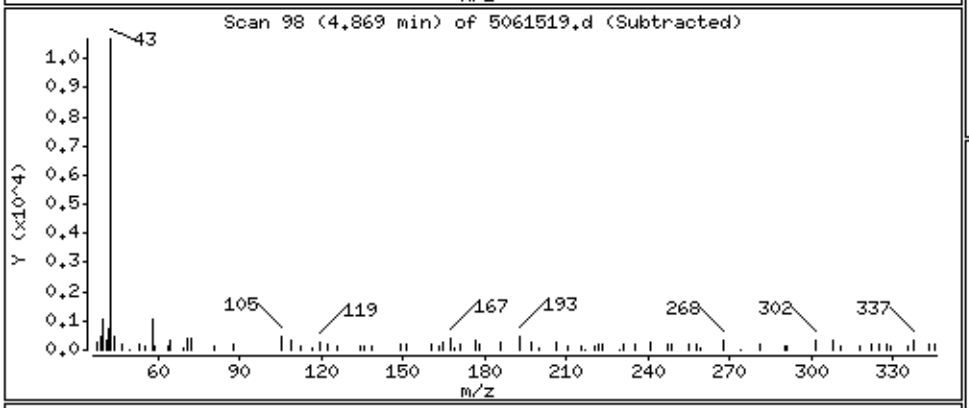
Column diameter: 0.53

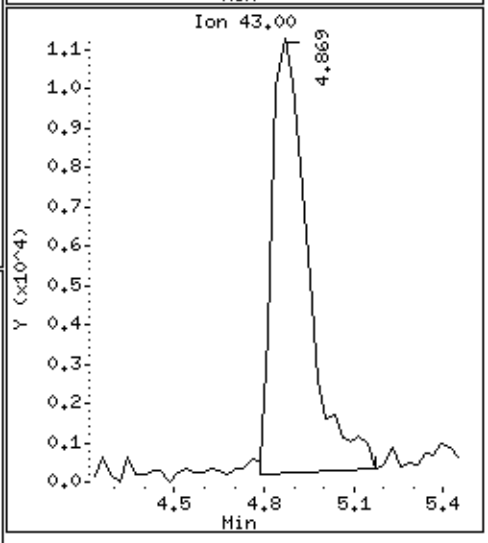
22 Acetone

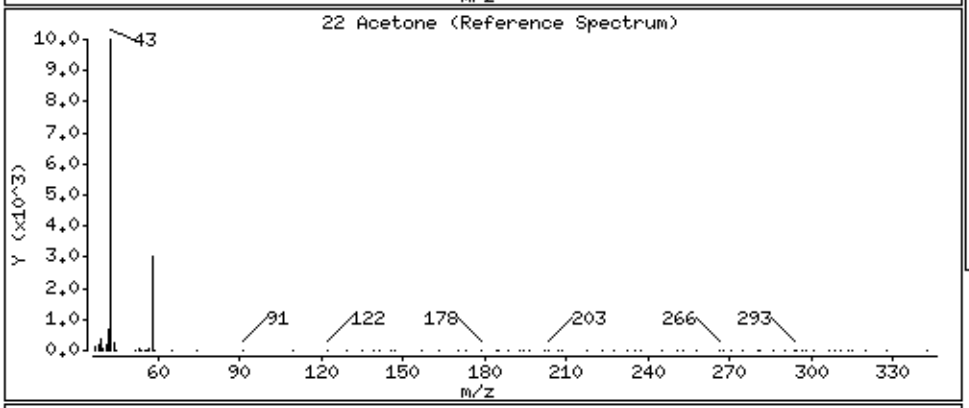
Concentration: 4.048 PPBV

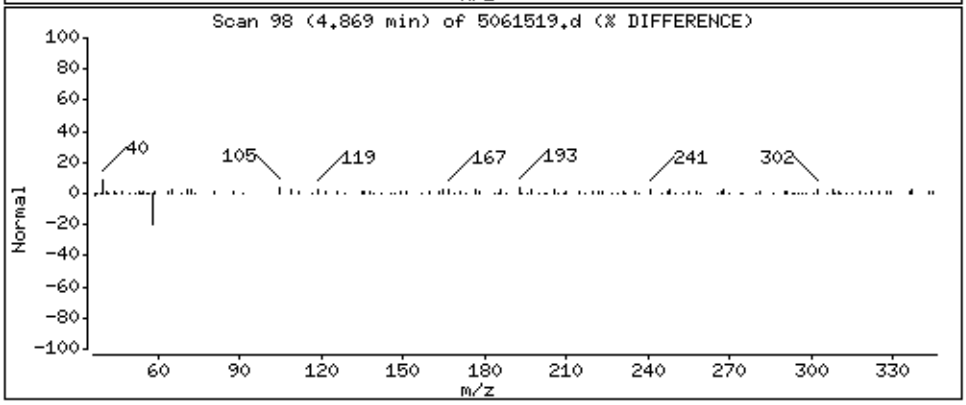












Data File: /chem/msd5.i/5-15jun.b/5061519.d

Date : 16-JUN-2007 00:04

Client ID:

Instrument: msd5.i

Sample Info: 200mL #TO-1623

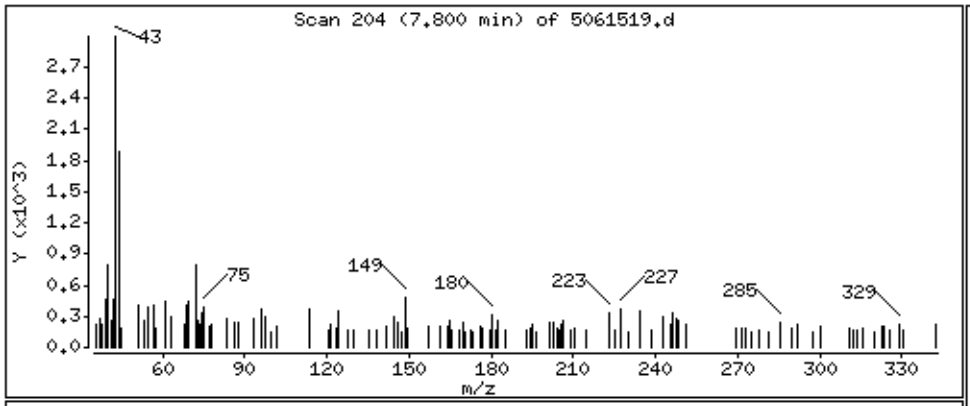
Operator: kr

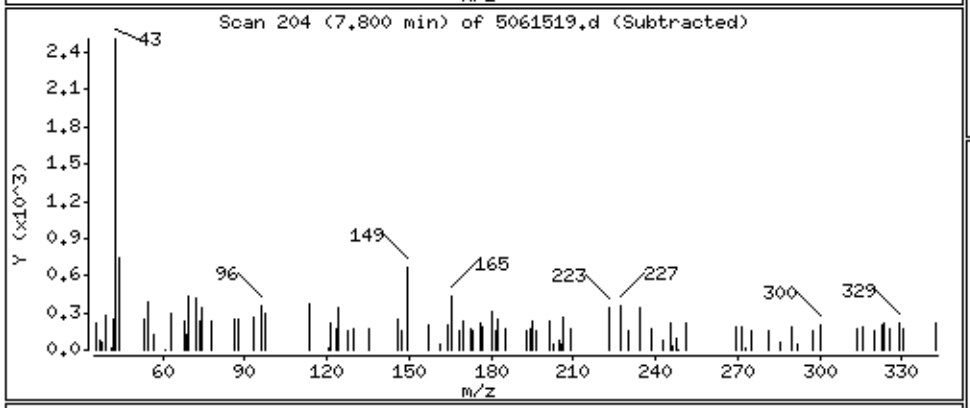
Column phase: RTx-624

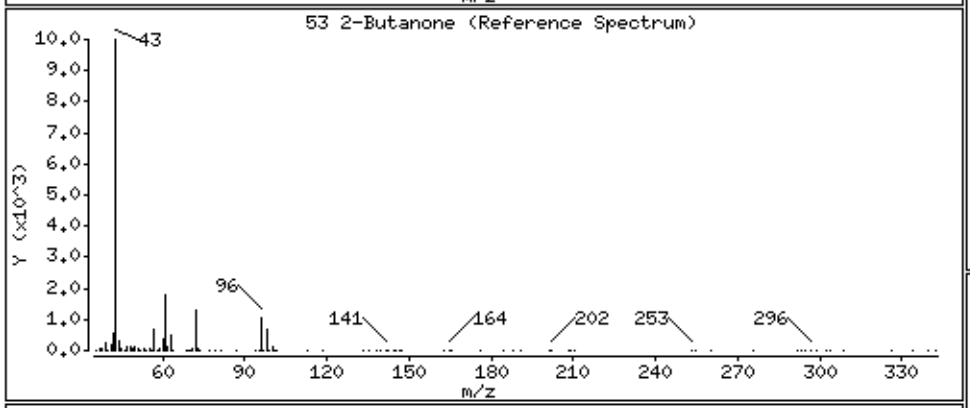
Column diameter: 0.53

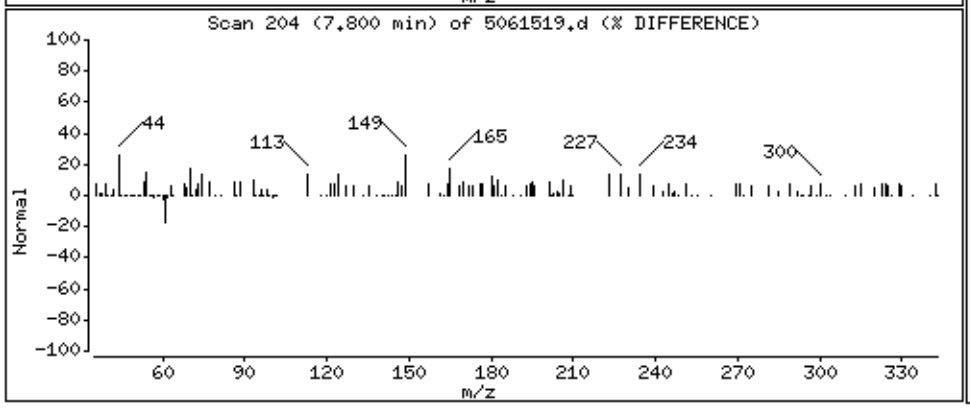
53 2-Butanone

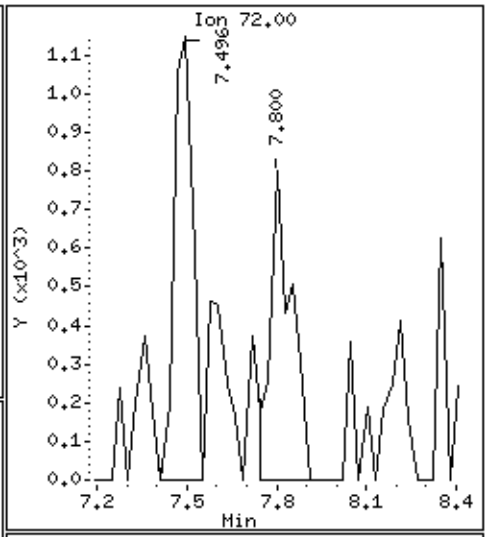
Concentration: 1.369 PPBV

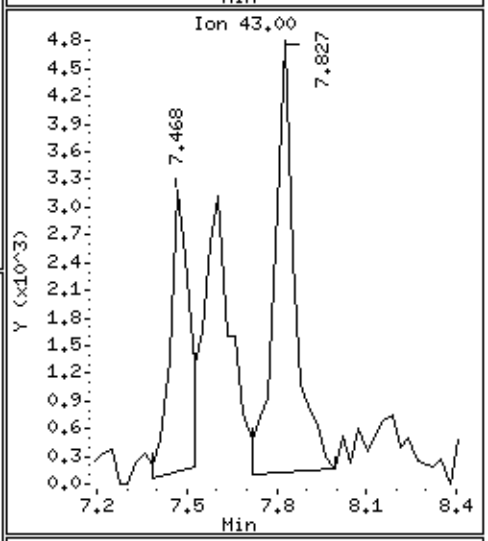


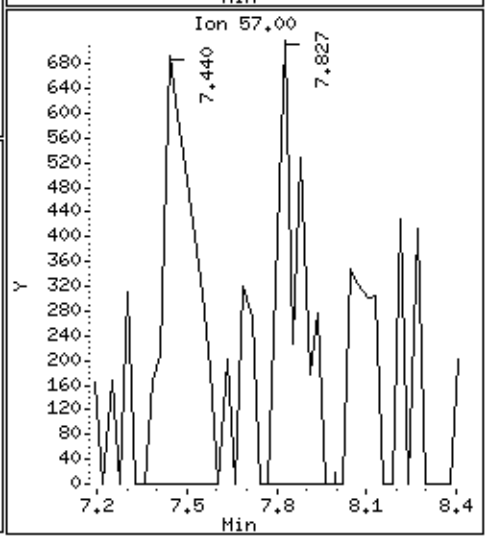












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0706160-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 12:22 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#: 0706160-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 12:22 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15jun.b/5061505.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 15-JUN-2007 12:22
Operator : jdg Inst ID: msd5.i
Smp Info : 200mL #13673
Misc Info : Humid
Comment :
Method : /var/chem/msd5.i/5-15jun.b/t14q529a.m
Meth Date : 15-Jun-2007 11:44 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 57 Bromochloromethane					CAS #: 74-97-5		
8.214	8.214 (1.000)	130	191209	25.0000		80.00- 120.00	100.00
8.214	8.214 (1.000)	128	150821			47.96- 107.96	78.88
8.187	8.214 (1.000)	49	489917			246.95- 306.95	256.22
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	692358	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	136736			0.00- 49.73	19.75
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	538750	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	371246			33.54- 93.54	68.91
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.293 (1.128)	65	418022	27.2719	27.272	80.00- 120.00	100.00
9.265	9.293 (1.128)	67	169795			25.98- 85.98	40.62
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	627020	24.8808	24.881	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	73354			0.00- 41.05	11.70

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	381973			36.04- 96.04	60.92
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	326128	24.0932	24.093	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	571625			140.08- 200.08	175.28
16.675	16.675 (1.104)	176	323842			65.81- 125.81	99.30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5061505.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: jdg
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: Humid

Calibration Date: 15-JUN-2007
Calibration Time: 10:38
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	221444	132866	310022	191209	-13.65
79 1,4-Difluorobenze	867858	520715	1215001	692358	-20.22
108 Chlorobenzene-d5	685113	411068	959158	538750	-21.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Report Date: 15-Jun-2007 12:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: jdg
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	27.272	109.09	70-130
$ 97 Toluene-d8	25.000	24.881	99.52	70-130
$ 122 Bromofluorobenzene	25.000	24.093	96.37	70-130

Data File: /chem/msd5.i/5-15jun.b/5061505.d

Date : 15-JUN-2007 12:22

Client ID: Lab Blank

Sample Info: 200mL #13673

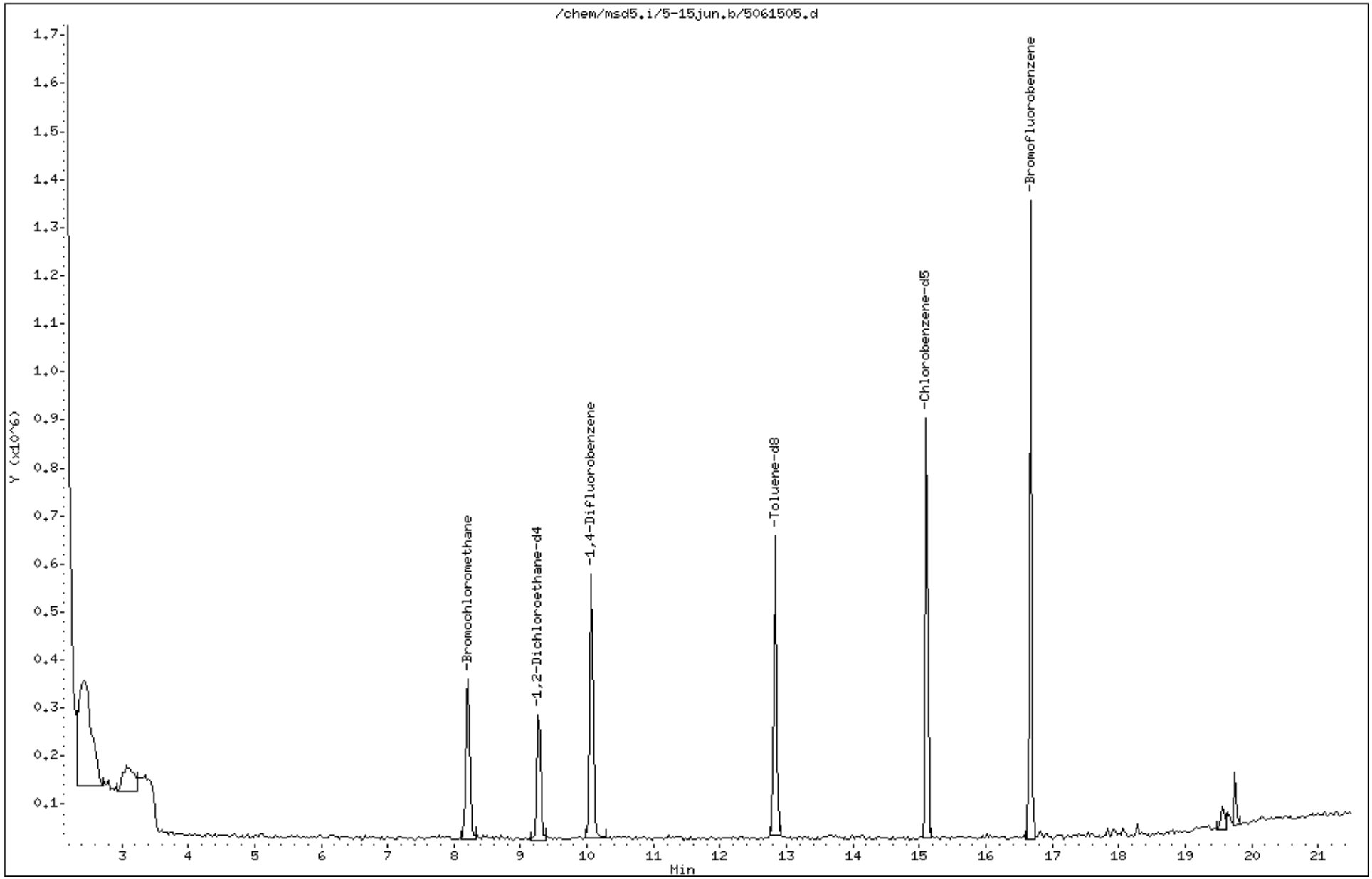
Column phase: RTx-624

Instrument: msd5.i

Operator: jdg

Column diameter: 0.53

0034



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0706160

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS3 DW	110		100		103				0
02	AMS6 UW	123		101		102				0
03	Lab Blank	109		100		96				0
04	CCV	123		101		104				0
05	LCS	117		107		102				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 0706160

Lab File ID: 5061503.d | Date Analyzed: 06/15/2007

Instrument ID: msd5.i | Time Analyzed: 10:38 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	685113		15.1		867858		10.07		221444		8.21	
	UPPER LIMIT	959158		15.43		1215001		10.40		310022		08.54	
	LOWER LIMIT	411068		14.77		520715		09.74		132866		07.88	
	CLIENT SAMPLE NO												
01	AMS3 DW	473503		15.1		606317		10.07		168911		8.21	
02	AMS6 UW	452067		15.1		572303		10.07		153422		8.21	
03	Lab Blank	538750		15.1		692358		10.07		191209		8.21	
04	CCV	685113		15.1		867858		10.07		221444		8.21	
05	LCS	550638		15.1		670098		10.07		181738		8.19	
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 : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-29may.b/5052911.d
Level 2: /chem/msd5.i/5-29may.b/5052912.d
Level 3: /chem/msd5.i/5-29may.b/5052920.d
Level 4: /chem/msd5.i/5-29may.b/5052914.d
Level 5: /chem/msd5.i/5-29may.b/5052915.d
Level 6: /chem/msd5.i/5-29may.b/5052916.d
Level 7: /chem/msd5.i/5-29may.b/5052917.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
10 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
191 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
1 Propylene	+++++	+++++	4.08978	3.22974	3.15123	3.14787	3.05315	3.33435	12.803
18 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
2 Dichlorodifluoromethane/Fr12	+++++	3.72970	5.87500	4.30608	4.15708	4.08363	4.46096	4.43541	16.839
3 Freon 114	+++++	3.68098	5.27186	4.28692	4.14578	4.13891	3.92809	4.24209	12.893
4 Chloromethane	+++++	+++++	4.80871	3.84264	4.02746	3.88042	3.46383	4.00461	12.368
21 Butane	+++++	+++++	1.11940	0.90873	0.86908	0.86095	0.85310	0.92225	12.173
6 1,3-Butadiene	+++++	2.48402	3.95675	3.27523	3.25400	3.25905	3.16479	3.23231	14.460
5 Vinyl Chloride	+++++	2.51337	3.71794	3.46633	3.33712	3.29960	3.20385	3.25637	12.439
27 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
7 Bromomethane	+++++	1.67053	2.35356	1.89691	1.89882	1.91404	1.87318	1.93451	11.608
35 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Isopentane	+++++	+++++	6.87370	5.58592	5.24023	5.35874	5.20818	5.65336	12.349

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Chloroethane	+++++	1.67194	2.04815	1.72271	1.69648	1.64213	1.57937	1.72680	9.555
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
9 Trichlorofluoromethane/Fr11	+++++	3.40227	5.66703	4.54945	4.36369	4.45020	4.39434	4.47116	16.118
11 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Ethanol	+++++	+++++	1.61498	1.31750	1.35578	1.27302	1.29726	1.37171	10.157
45 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
23 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Freon 113	+++++	2.48402	3.11662	2.67387	2.74041	2.76627	2.64443	2.73760	7.689
24 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 1,1-Dichloroethene	+++++	3.58543	5.28257	4.26379	4.08669	4.21816	4.17591	4.26876	12.997
22 Acetone	+++++	+++++	1.87352	1.52120	1.51107	1.51609	1.53966	1.59231	9.896
49 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Carbon Disulfide	+++++	4.89091	7.20307	5.91247	5.78364	5.74795	5.72433	5.87706	12.689
28 3-Chloropropene	+++++	+++++	1.12260	0.95389	0.95729	0.97711	0.95380	0.99294	7.365
26 2-Propanol	+++++	+++++	9.06868	6.34052	6.28378	6.51673	6.48764	6.93947	17.210

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
51 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
54 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Methylene Chloride	+++++	3.91738	4.45296	4.05803	3.93492	3.87793	3.77980	4.00350	5.942
39 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 MTBE	+++++	2.70449	2.51114	3.88652	3.47320	3.32988	2.83533	3.12343	16.824
32 trans-1,2-Dichloroethene	+++++	1.86664	2.57121	2.15060	2.08051	2.09402	2.00838	2.12856	11.176

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
44 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
38 Hexane	+++++	4.78036	6.59127	5.26321	5.19213	5.19510		
	5.08856						5.35177	11.788
63 Vinyl Acetate	+++++	+++++	0.48526	0.48004	0.49455	0.51192		
	0.50764						0.49588	2.782
46 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
59 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
47 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
48 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
43 1,1-Dichloroethane	+++++	3.28689	5.28060	4.36747	4.20880	4.22479		
	4.17529						4.25730	14.897
67 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
55 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 cis-1,2-Dichloroethene	+++++	2.97211	3.96711	3.21722	3.26373	3.25730	3.16169	3.30653	10.313
53 2-Butanone	+++++	0.71855	0.95624	0.80862	0.80671	0.83146	0.81311	0.82245	9.308

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
76 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
56 Tetrahydrofuran	+++++	4.02761	5.76261	4.00834	3.95228	3.95033	3.89021	4.26523	17.236
58 Chloroform	2.63247	2.89638	3.60773	3.05828	3.09415	3.04360	3.01581	3.04977	9.580
187 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
61 Cyclohexane	+++++	1.71706	2.83715	2.36745	2.22235	2.22883	2.16235	2.25587	15.998
62 1,1,1-Trichloroethane	+++++	2.90528	3.94631	3.25147	3.26835	3.29077	3.26823	3.32174	10.210
81 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Carbon Tetrachloride	+++++	2.44311	3.38869	2.84513	2.86611	2.88706	2.93376	2.89398	10.399
83 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
87 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
68 2,2,4-Trimethylpentane	+++++	10.25538	15.84969	13.15898	12.58847	12.42203		
	12.03402						12.71810	14.343
69 Benzene	1.12278	1.04294	1.39176	1.14625	1.09325	1.04641		
	1.01423						1.12252	11.371
88 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
89 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
72 1,2-Dichloroethane	+++++	0.66259	0.89731	0.79334	0.74026	0.74256		
	0.74538						0.76357	10.193
93 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
94 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
95 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
104 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
75 Heptane	+++++	0.19465	0.19356	0.13746	0.12638	0.13170	0.13154	0.15255	21.225
86 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Trichloroethene	+++++	0.38172	0.64616	0.47752	0.44124	0.44152	0.43515	0.47055	19.415
96 Methyl Cyclohexane	+++++	0.59621	0.87511	0.65319	0.64182	0.61614	0.61002	0.66541	15.757
98 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
92 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,2-Dichloropropane	+++++	0.42725	0.59919	0.49504	0.47458	0.46780	0.46990	0.48896	11.930
84 1,4-Dioxane	+++++	+++++	0.31521	0.23910	0.24614	0.23018	0.22749	0.25162	14.428
85 Bromodichloromethane	+++++	0.54599	0.82970	0.69971	0.69902	0.69951	0.69687	0.69513	12.933

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
120 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 cis-1,3-Dichloropropene	+++++	0.39754	0.59007	0.53286	0.48983	0.50627	0.49265	0.50154	12.570
136 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
127 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
91 4-Methyl-2-pentanone	+++++	0.30898	0.64288	0.49905	0.48636	0.47601	0.47287	0.48102	22.049
99 Toluene	+++++	0.93138	1.32845	1.10392	1.05615	1.03627	1.01185	1.07800	12.548
132 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 29-MAY-2007 15:42
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
140 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
100 trans-1,3-Dichloropropene	+++++	0.50845	0.84881	0.70278	0.71353	0.72089	0.72029	0.70246	15.574
101 1,1,2-Trichloroethane	+++++	0.37764	0.62765	0.48112	0.45255	0.46075	0.44572	0.47424	17.485
145 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Tetrachloroethene	+++++	0.61301	0.73852	0.56801	0.55407	0.55058	0.53446	0.59311	12.828
148 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
112 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 2-Hexanone	+++++	+++++	1.06323	0.81955	0.84521	0.85038	0.85525	0.88672	11.235
105 Dibromochloromethane	+++++	0.68385	0.87093	0.76438	0.75839	0.77552	0.77912	0.77203	7.742
151 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
106 1,2-Dibromoethane	+++++	0.64923	0.82491	0.73006	0.72693	0.71970	0.69810	0.72482	7.927
117 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Chlorobenzene	+++++	1.15882	1.45125	1.10431	1.04671	1.06721	1.04106	1.14489	13.652
116 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Ethyl Benzene	+++++	0.38972	0.69470	0.59090	0.58323	0.57050	0.54682	0.56264	17.572
157 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 m,p-Xylene	+++++	0.62324	0.92967	0.72713	0.71720	0.71124	0.68667	0.73252	14.138
125 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 o-Xylene	+++++	0.49847	1.00166	0.68801	0.66790	0.66206	0.63839	0.69275	23.956

Air Toxics Ltd.

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
115 Styrene	0.75182	0.79894	1.28435	1.06831	1.06959	1.06229	1.05248	1.01254	17.937
118 Bromoform	+++++	0.48430	0.79842	0.65484	0.66649	0.68314	0.68260	0.66163	15.284
129 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 Cumene	1.61745	1.82447	2.95026	2.17017	2.11436	2.08005	2.05891	2.11652	19.642
130 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,1,2,2-Tetrachloroethane	+++++	0.97509	1.47796	1.04416	1.01239	1.01413	0.96842	1.08202	18.110
124 Propylbenzene	+++++	2.26537	3.81444	2.83305	2.75807	2.76105	2.07992	2.75198	21.947
137 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 29-MAY-2007 15:42
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
126 4-Ethyltoluene	+++++	1.89795	3.17263	2.44305	2.42525	2.38909	1.94345	2.37857	19.333
158 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 1,3,5-Trimethylbenzene	+++++	1.59214	2.60590	1.95344	1.91685	1.95571	1.94183	1.99431	16.596
159 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
144 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1,2,4-Trimethylbenzene	+++++	1.68972	2.88917	2.16934	2.12810	2.11912	1.85215	2.14127	19.236
147 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-29may.b/t14q529a.m
Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
149 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
138 1,3-Dichlorobenzene	+++++	1.30968	1.97642	1.32930	1.29022	1.29864	1.21703	1.40355	20.181
141 1,4-Dichlorobenzene	+++++	0.90964	1.46709	1.05261	1.08296	1.07267	1.07440	1.10990	16.824
143 alpha-Chlorotoluene	+++++	1.06838	2.07154	1.86993	1.97204	2.10109	2.02760	1.85176	21.190
150 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
146 1,2-Dichlorobenzene	+++++	1.47556	2.12615	1.34329	1.29080	1.29237	1.20744	1.45593	23.354
190 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
153 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
160 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		
154 1,2,4-Trichlorobenzene	+++++	+++++	1.53874	0.86580	0.89893	0.93748	0.87839	1.02387	28.236

Air Toxics Ltd.

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Cal Date : 30-May-2007 15:48 jgray
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	RRF	% RSD	
	200.000 Level 7								
155 Hexachlorobutadiene	+++++	+++++	1.39614	0.70711	0.74504	0.71452			
	0.67947						0.84846	36.190	<-
156 Naphthalene	+++++	+++++	4.72728	2.58758	2.81032	2.90596			
	2.16556						3.03934	32.434	<-
188 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
161 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
$ 71 1,2-Dichloroethane-d4	+++++	1.89977	1.95214	1.91095	1.94055	2.04894			
	2.27213						2.00408	7.062	
$ 97 Toluene-d8	+++++	0.88388	0.90642	0.93226	0.91722	0.90670			
	0.91334						0.90997	1.748	
$ 122 Bromofluorobenzene	+++++	0.60688	0.62071	0.64948	0.62853	0.61947			
	0.64369						0.62813	2.547	

Calibration History

Method : /chem/msd5.i/5-29may.b/t14q529a.m
Start Cal Date: 29-MAY-2007 15:42
End Cal Date : 29-MAY-2007 20:44

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
29-MAY-2007 15:42	AFCEElow	/chem/msd5.i/5-29may.b/5052911.d
Cal Level: 2 , Cal Amount: 0.50000		
29-MAY-2007 16:10	AT04Low+ENSR	/chem/msd5.i/5-29may.b/5052912.d
Cal Level: 3 , Cal Amount: 2.00000		
29-MAY-2007 20:44	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052920.d
Cal Level: 4 , Cal Amount: 25.00000		
29-MAY-2007 17:06	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052914.d
Cal Level: 5 , Cal Amount: 50.00000		
29-MAY-2007 17:34	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052915.d
Cal Level: 6 , Cal Amount: 100.00000		
29-MAY-2007 18:02	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052916.d
Cal Level: 7 , Cal Amount: 200.00000		
29-MAY-2007 18:31	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052917.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000

29-MAY-2007 17:34	AT04MDL+ENSR	/chem/msd5.i/5-29may.b/5052915a.d

@ Air Toxics Ltd.

MSD-5

Logbook #: 1523

0550

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	38.46
75	30.0 – 60.0% of mass 95	53.41
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.42
173	Less than 2.0% of mass 174	(0.83)[1]
174	Greater than 50.0% of mass 95	59.18
175	5.0 – 9.0% of mass 174	(7.06)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.75)[1]
177	5.0 – 9.0% of mass 176	(6.48)[2]

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

BFB Injection Date: 5/29/07
BFB Injection Time: 1447
BFB File ID: 5052909
Tekmar Purge Flow: 12.7 mL/min
Vacuum: 6.33 x 10-6 torr

IS/S Std.#:	1487-259	Exp. Date: 8/10/07
BCM	313773	
1,4-DFB	1277249	
CB-d5	1008759	

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

Verify 176/174 m/z Ratio: 878~~324~~ (272) / 907~~809~~ (776) · 100 = 96.75% (GS 5/29/07, GS 5/29/07)

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = ( ) / ( ) × ( ) / ( ) = _____

Reported Result _____

File ID:	
Compound:	
Initials:	GS 5/29/07

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5052909	BFB Tune Check	643-2480	50 ng	2 mL	1.00	JG	5/29/07	1447	JG	
2	X	10	System Blank	12941	Humid	200 mL	1.00	JG	5/29/07	1515	JG	
3	✓	11	ICAL Level 1	1487-288	0.3 ppbv	0.3 mL				1542	JG	1149529a
4	✓	12	2		0.5 ppbv	0.5 mL				1610	JG	
5	X	13	3		2.0 ppbv	2.0 mL				1638	GS	Bad Load
6	✓	14	4		25 ppbv	25 mL				1706	GS	
7	✓	15	5		50 ppbv	50 mL				1734	GS	
8	✓	16	6		100 ppbv	100 mL				1802	GS	
9	✓	17	7		200 ppbv	200 mL				1831	JG	

Signature Jessica Gray 5/29/07 Date

10	X	505 2918	System Blank	12941	Humid	200mL	1.00	JLT	5/29/07	1859	GS
11	✓	5052819	System Blank	34383	Humid	200ml	1.00	GS	↓	1859	GS
12	✓	20	ICAL: Level 3	14987-288	20ppbv	2.0ml	1.00	GS		2044	GS
13	✓	21	ICAL: LCS	14987-272	50ppbv	5.0ml	1.00	GS	↓	2153	GS
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32										GS 5/29/07	

7500

Comments: Flow Controller: AA9203108 Flow Meter: 200-7744, Exp. 7/28/07

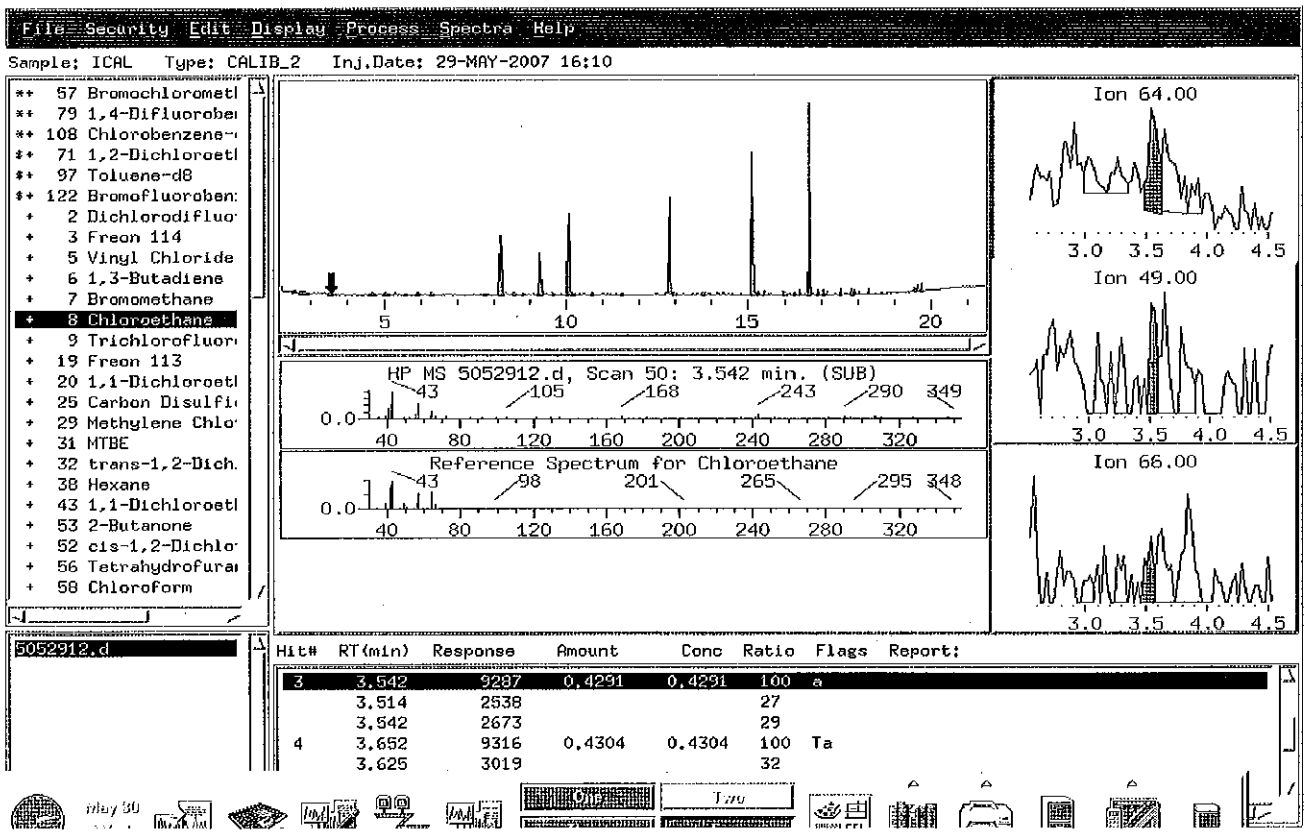
Actual: 25.0 mL/min Nominal: 22.4 mL/min on 5/29/07

Signature

5/29/07
Date

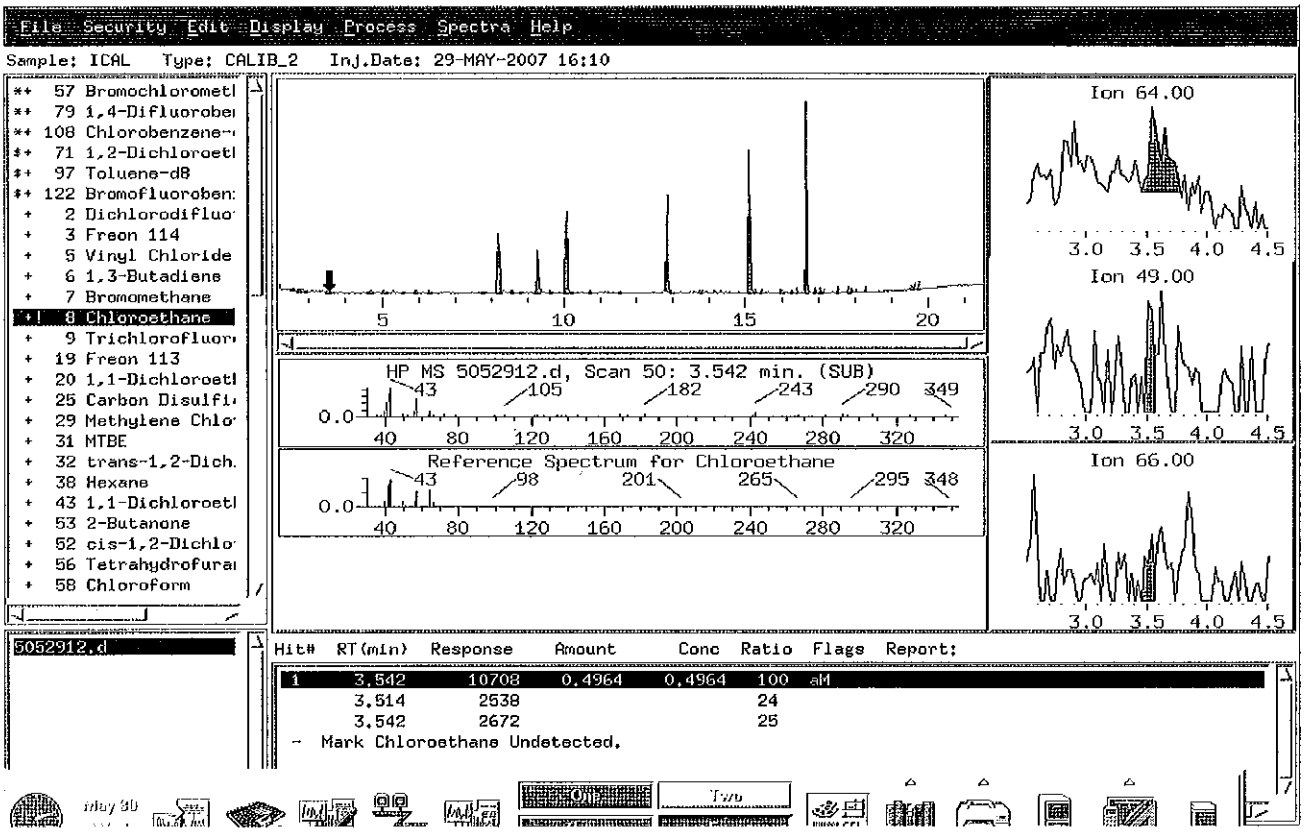
Initial Calibration Narrative

A seven-point initial calibration was analyzed on MSD-5 on May 29, 2007.


File Security Edit Display Process Spectra Help
Sample: ICAL Type: CALIB_2 Inj.Date: 29-MAY-2007 16:10
** 57 Bromochlorometl
** 79 1,4-Difluorobe
** 108 Chlorobenzene-
$+ 71 1,2-Dichloroetl
$+ 97 Toluene-d8
$+ 122 Bromofluoroben
+ 2 Dichlorodifluo
+ 3 Freon 114
+ 5 Vinyl Chloride
+ 6 1,3-Butadiene
+ 7 Bromomethane
+ 8 Chloroethane
+ 9 Trichlorofluor
+ 19 Freon 113
+ 20 1,1-Dichloroetl
+ 25 Carbon Disulfi
+ 29 Methylene Chlo
+ 31 MTBE
+ 32 trans-1,2-Dich.
+ 38 Hexane
+ 43 1,1-Dichloroetl
+ 53 2-Butanone
+ 52 cis-1,2-Dichlo
+ 56 Tetrahydrofura
+ 58 Chloroform
5 10 15 20
HP MS 5052912.d, Scan 50: 3.542 min. (SUB)
43 105 168 243 290 349
0.0
40 80 120 160 200 240 280 320
Reference Spectrum for Chloroethane
43 98 201 265 295 348
0.0
40 80 120 160 200 240 280 320
Ion 64.00
3.0 3.5 4.0 4.5
Ion 49.00
3.0 3.5 4.0 4.5
Ion 66.00
3.0 3.5 4.0 4.5
5052912.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
3 3.542 9287 0.4291 0.4291 100 a
3.514 2538 27
3.542 2673 29
4 3.652 9316 0.4304 0.4304 100 Ta
3.625 3019 32

or Integration	JL 5/30/07
plit Peak	✓
Peak Tailing	
ackground Subtraction	
om In	
l Peak	

MS 5/30/07



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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052921.d
Lab Smp Id: ICAL Client Smp ID: LCS
Inj Date : 29-MAY-2007 21:53
Operator : JG Inst ID: msd5.i
Smp Info : 50mL #1487-272
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========		=======	=======	==========	=====
* 57 Bromochloromethane						CAS #: 74-97-5		
8.187	8.187 (1.000)	130	328581	25.0000			80.00- 120.00	100.00
8.187	8.187 (1.000)	128	246155				50.27- 110.27	74.91
8.187	8.187 (1.000)	49	1012849				281.04- 341.04	308.25
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
10.067	10.067 (1.000)	114	1294035	25.0000			80.00- 120.00	100.00
10.067	10.067 (1.000)	88	234097				0.00- 48.57	18.09
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	1016588	25.0000			80.00- 120.00	100.00
15.099	15.099 (1.000)	82	638981				33.54- 93.54	62.86
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	633360	24.0454	24.045		80.00- 120.00	100.00
9.265	9.265 (1.132)	67	311083				25.98- 85.98	49.12
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	1187396	25.2094	25.209		80.00- 120.00	100.00
12.832	12.832 (1.275)	70	136597				0.00- 41.05	11.50

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	757476			36.04- 96.04	63.79
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	632002	24.7438	24.744	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	1045367			131.53- 191.53	165.41
16.675	16.675 (1.104)	176	615640			65.40- 125.40	97.41
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	2233228	50.9588	50.959	80.00- 120.00	100.00
2.353	2.353 (0.287)	42	1504094			36.96- 96.96	67.35
2.353	2.353 (0.287)	39	1558713			37.69- 97.69	69.80
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	2842771	48.7647	48.765	80.00- 120.00	100.00
2.408	2.408 (0.294)	87	929381			1.62- 61.62	32.69
3 Freon 114					CAS #: 76-14-2		
2.518	2.546 (0.308)	135	2788676	50.0168	50.017	80.00- 120.00	100.00
2.518	2.546 (0.308)	137	898608			0.80- 60.80	32.22
4 Chloromethane					CAS #: 74-87-3		
2.657	2.657 (0.325)	50	2485583	47.2243	47.224	80.00- 120.00	100.00
2.657	2.684 (0.325)	52	777295			0.00- 59.51	31.27
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	2295483	53.6338	53.634	80.00- 120.00	100.00
2.850	2.850 (0.348)	64	679679			0.00- 59.15	29.61
6 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	2197289	51.7216	51.722	80.00- 120.00	100.00
2.823	2.823 (0.345)	39	2510833			92.11- 152.11	114.27
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	1325019	52.1134	52.113	80.00- 120.00	100.00
3.376	3.376 (0.412)	96	1242843			64.95- 124.95	93.80
8 Chloroethane					CAS #: 75-00-3		
3.486	3.514 (0.426)	64	1169705	51.5386	51.539	80.00- 120.00	100.00
3.486	3.486 (0.426)	49	366779			1.83- 61.83	31.36
3.486	3.514 (0.426)	66	327916			0.00- 57.39	28.03
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	2981684	50.7386	50.739	80.00- 120.00	100.00
3.818	3.818 (0.466)	103	1908394			35.72- 95.72	64.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.177	4.177 (0.510)	45	1001511	55.5509	55.551	80.00- 120.00	100.00
4.177	4.177 (0.510)	43	184480			0.00- 49.45	18.42
4.177	4.177 (0.510)	46	406974			11.95- 71.95	40.64
19 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	2050329	56.9837	56.984	80.00- 120.00	100.00
4.647	4.647 (0.568)	153	1266678			32.16- 92.16	61.78
4.647	4.647 (0.568)	101	2667615			100.00- 160.00	130.11
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	3085705	54.9984	54.998	80.00- 120.00	100.00
4.675	4.675 (0.571)	96	1447359			19.13- 79.13	46.91
4.675	4.675 (0.571)	98	952584			0.28- 60.28	30.87
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	1024500	48.9533	48.953	80.00- 120.00	100.00
4.813	4.841 (0.588)	43	3671091			327.94- 387.94	358.33
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	4365491	47.8635	47.863	80.00- 120.00	100.00
5.035	5.035 (0.615)	43	854212			0.00- 49.24	19.57
5.035	5.035 (0.615)	59	143011			0.00- 33.25	3.28
25 Carbon Disulfide					CAS #: 75-15-0		
5.007	5.007 (0.612)	76	3890875	50.3715	50.371	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	630854	48.3397	48.340	80.00- 120.00	100.00
5.311	5.311 (0.649)	41	3347565			480.64- 540.64	530.64
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	2785514	52.9374	52.937	80.00- 120.00	100.00
5.560	5.560 (0.679)	84	1134060			9.87- 69.87	40.71
5.560	5.560 (0.679)	51	806371			0.00- 59.58	28.95
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1907407	46.4632	46.463	80.00- 120.00	100.00
5.892	5.892 (0.720)	57	736012			5.77- 65.77	38.59
5.892	5.892 (0.720)	41	792960			10.34- 70.34	41.57
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	1344405	48.0554	48.055	80.00- 120.00	100.00
5.947	5.947 (0.726)	61	2652163			164.17- 224.17	197.27
5.947	5.947 (0.726)	98	853292			32.40- 92.40	63.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	3373087	47.9543	47.954	80.00- 120.00	100.00
6.279	6.279 (0.767)	43	2580083			46.14- 106.14	76.49
6.279	6.279 (0.767)	86	390543			0.00- 41.50	11.58
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	2854811	51.0200	51.020	80.00- 120.00	100.00
6.721	6.721 (0.821)	65	841440			0.00- 59.00	29.47
53 2-Butanone					CAS #: 78-93-3		
7.799	7.800 (0.953)	72	533620	49.3653	49.365	80.00- 120.00	100.00
7.799	7.800 (0.953)	43	4341216			796.36- 856.36	813.54
7.799	7.800 (0.953)	57	283771			23.20- 83.20	53.18
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.744 (0.949)	61	2136568	49.1634	49.163	80.00- 120.00	100.00
7.772	7.772 (0.949)	96	1129748			25.31- 85.31	52.88
7.772	7.772 (0.949)	98	715273			2.88- 62.88	33.48
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	2540884	45.3252	45.325	80.00- 120.00	100.00
8.187	8.187 (1.000)	71	478922			0.00- 48.47	18.85
8.187	8.187 (1.000)	72	513127			0.00- 49.73	20.19
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	2011562	50.1838	50.184	80.00- 120.00	100.00
8.325	8.325 (1.017)	85	1282416			33.68- 93.68	63.75
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	2131561	48.8237	48.824	80.00- 120.00	100.00
8.574	8.574 (1.047)	99	1367254			32.24- 92.24	64.14
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	1446241	48.7781	48.778	80.00- 120.00	100.00
8.546	8.546 (1.044)	56	3030397			177.94- 237.94	209.54
8.546	8.546 (1.044)	41	1867779			93.55- 153.55	129.15
63 Vinyl Acetate					CAS #: 108-05-4		
6.776	6.776 (0.828)	86	335258	51.4397	51.440	80.00- 120.00	100.00
6.776	6.776 (0.828)	43	5941317			1767.50-1827.50	1772.16
6.776	6.776 (0.828)	42	440302			104.58- 164.58	131.33
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.822	8.795 (1.078)	119	1872056	49.2177	49.218	80.00- 120.00	100.00
8.822	8.795 (1.078)	117	1925632			71.97- 131.97	102.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	8141017	48.7028	48.703	80.00- 120.00	100.00
9.237	9.237 (1.128)	56	2670713			2.91- 62.91	32.81
9.237	9.237 (1.128)	41	2455108			0.00- 59.75	30.16
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	2795203	48.1077	48.108	80.00- 120.00	100.00
9.237	9.237 (0.918)	77	668273			0.00- 53.04	23.91
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	2027123	51.2890	51.289	80.00- 120.00	100.00
9.403	9.403 (0.934)	64	600657			0.57- 60.57	29.63
75 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	346412	43.8709	43.871	80.00- 120.00	100.00
9.624	9.624 (0.956)	43	3847579			1063.83-1123.83	1110.69
9.624	9.624 (0.956)	71	1048504			257.42- 317.42	302.68
80 Trichloroethene					CAS #: 79-01-6		
10.481	10.481 (1.041)	95	1190865	48.8932	48.893	80.00- 120.00	100.00
10.481	10.481 (1.041)	130	1096871			65.35- 125.35	92.11
10.481	10.481 (1.041)	97	763310			35.05- 95.05	64.10
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	1228584	48.5426	48.543	80.00- 120.00	100.00
10.979	10.979 (1.091)	62	900625			43.36- 103.36	73.31
10.979	10.979 (1.091)	41	1134771			62.33- 122.33	92.36
84 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	595375	45.7124	45.712	80.00- 120.00	100.00
11.200	11.200 (1.113)	58	731250			87.73- 147.73	122.82
11.200	11.200 (1.113)	57	239506			11.42- 71.42	40.23
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	1845676	51.2958	51.296	80.00- 120.00	100.00
11.532	11.532 (1.146)	85	1170404			33.28- 93.28	63.41
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	1293446	49.8242	49.824	80.00- 120.00	100.00
12.445	12.445 (1.236)	77	403556			2.34- 62.34	31.20
12.445	12.445 (1.236)	39	1392068			80.54- 140.54	107.62
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	1261156	50.6519	50.652	80.00- 120.00	100.00
12.721	12.721 (1.264)	43	4191997			296.95- 356.95	332.39
12.721	12.721 (1.264)	85	335448			0.00- 57.61	26.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	2840038	50.8977	50.898	80.00- 120.00	100.00
12.942	12.942 (1.286)	92	1722805			28.86- 88.86	60.66
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1449562	50.7470	50.747	80.00- 120.00	100.00
13.468	13.468 (0.892)	77	452827			1.06- 61.06	31.24
13.468	13.468 (0.892)	39	1379718			66.05- 126.05	95.18
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	944433	48.9743	48.974	80.00- 120.00	100.00
13.744	13.744 (0.910)	99	590028			31.72- 91.72	62.47
13.744	13.744 (0.910)	83	758791			52.19- 112.19	80.34
102 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	1169576	48.4943	48.494	80.00- 120.00	100.00
13.799	13.799 (0.914)	129	924700			54.09- 114.09	79.06
13.799	13.799 (0.914)	131	909075			52.34- 112.34	77.73
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	1701830	47.1980	47.198	80.00- 120.00	100.00
14.131	14.131 (0.936)	43	4059070			204.79- 264.79	238.51
14.131	14.131 (0.936)	100	205885			0.00- 42.78	12.10
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1561225	49.7308	49.731	80.00- 120.00	100.00
14.297	14.297 (0.947)	127	1212556			48.77- 108.77	77.67
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	1400509	47.5171	47.517	80.00- 120.00	100.00
14.463	14.463 (0.958)	109	1321879			62.51- 122.51	94.39
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	2159699	46.3899	46.390	80.00- 120.00	100.00
15.154	15.154 (1.004)	114	675757			2.97- 62.97	31.29
15.154	15.154 (1.004)	77	1399699			34.70- 94.70	64.81
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	1144210	50.0113	50.011	80.00- 120.00	100.00
15.265	15.265 (1.011)	91	4013568			322.22- 382.22	350.77
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	1399608	46.9872	46.987	80.00- 120.00	100.00
15.431	15.431 (1.022)	91	3256875			202.98- 262.98	232.70
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	1347025	47.8185	47.818	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	3254697			210.36- 270.36	241.62
115 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	2142520	52.0365	52.036	80.00- 120.00	100.00
16.011	16.011 (1.060)	78	1282063			31.61- 91.61	59.84
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1397096	51.9281	51.928	80.00- 120.00	100.00
16.260	16.260 (1.077)	171	713676			21.89- 81.89	51.08
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	2016866	45.8390	45.839	80.00- 120.00	100.00
16.896	16.896 (1.119)	85	1315247			35.56- 95.56	65.21
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	4879392	50.4481	50.448	80.00- 120.00	100.00
17.062	17.062 (1.130)	120	1412960			0.00- 58.00	28.96
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	4001483	49.3427	49.343	80.00- 120.00	100.00
17.145	17.145 (1.135)	120	1829481			16.58- 76.58	45.72
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	4285275	49.2156	49.216	80.00- 120.00	100.00
17.532	17.532 (1.161)	120	1799437			13.06- 73.06	41.99
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	2541505	44.5306	44.531	80.00- 120.00	100.00
17.836	17.836 (1.181)	148	1663398			33.12- 93.12	65.45
17.836	17.836 (1.181)	111	1198332			15.78- 75.78	47.15
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	2106072	46.6644	46.664	80.00- 120.00	100.00
17.919	17.919 (1.187)	148	1337569			34.33- 94.33	63.51
17.919	17.919 (1.187)	111	982215			18.49- 78.49	46.64
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	3955552	52.5311	52.531	80.00- 120.00	100.00
18.057	18.057 (1.196)	126	660353			0.00- 47.06	16.69
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	2607052	44.0355	44.035	80.00- 120.00	100.00
18.279	18.279 (1.211)	148	1600083			33.74- 93.74	61.38
18.279	18.279 (1.211)	111	1182260			15.34- 75.34	45.35

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1707198	41.0049	41.005	80.00- 120.00	100.00
19.578	19.578 (1.297)	182	1691728			65.13- 125.13	99.09
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1416907	41.0683	41.068	80.00- 120.00	100.00
19.661	19.661 (1.302)	223	909647			29.70- 89.70	64.20
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	5651398	50.5016	50.502	80.00- 120.00	100.00
16.924	16.924 (1.121)	120	1193922			0.00- 50.53	21.13
16.924	16.924 (1.121)	105	199897			0.00- 33.52	3.54
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	4346404	50.5012	50.501	80.00- 120.00	100.00
16.426	16.426 (1.088)	120	1127154			0.00- 55.50	25.93
16.426	16.426 (1.088)	51	974611			0.00- 50.84	22.42
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	4747848	38.4160	38.416	80.00- 120.00	100.00
19.744	19.744 (1.308)	127	612458			0.00- 42.90	12.90
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	3633174	48.8965	48.896	80.00- 120.00	100.00
3.514	3.514 (0.429)	57	2156441			30.33- 90.33	59.35
3.514	3.514 (0.429)	72	171680			0.00- 34.69	4.73
21 Butane					CAS #: 106-97-8		
2.740	2.767 (0.335)	58	601819	49.6493	49.649	80.00- 120.00	100.00
2.740	2.740 (0.335)	43	4717176			773.30- 833.30	783.82
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	1670135	48.4902	48.490	80.00- 120.00	100.00
10.703	10.703 (1.063)	98	855898			20.58- 80.58	51.25
10.703	10.703 (1.063)	55	2526188			125.23- 185.23	151.26

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052921.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	328581	4.72
79 1,4-Difluorobenze	1277249	766349	1788149	1294035	1.31
108 Chlorobenzene-d5	1008759	605255	1412263	1016588	0.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Report Date: 30-May-2007 15:41

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-29may
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICAL Client Smp ID: LCS
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	48.765	97.53	70-130
3 Freon 114	50.000	50.017	100.03	70-130
4 Chloromethane	50.000	47.224	94.45	70-130
5 Vinyl Chloride	50.000	53.634	107.27	70-130
6 1,3-Butadiene	50.000	51.722	103.44	60-140
7 Bromomethane	50.000	52.113	104.23	70-130
8 Chloroethane	50.000	51.539	103.08	70-130
9 Trichlorofluoromet	50.000	50.739	101.48	70-130
13 Ethanol	50.000	55.551	111.10	60-140
19 Freon 113	50.000	56.984	113.97	70-130
20 1,1-Dichloroethene	50.000	54.998	110.00	70-130
25 Carbon Disulfide	50.000	50.371	100.74	60-140
22 Acetone	50.000	48.953	97.91	60-140
26 2-Propanol	50.000	47.863	95.73	60-140
28 3-Chloropropene	50.000	48.340	96.68	60-140
29 Methylene Chloride	50.000	52.937	105.87	70-130
31 MTBE	50.000	46.463	92.93	60-140
32 trans-1,2-Dichloro	50.000	48.055	96.11	60-140
38 Hexane	50.000	47.954	95.91	60-140
43 1,1-Dichloroethane	50.000	51.020	102.04	70-130
52 cis-1,2-Dichloroet	50.000	49.163	98.33	70-130
53 2-Butanone	50.000	49.365	98.73	60-140
56 Tetrahydrofuran	50.000	45.325	90.65	60-140
58 Chloroform	50.000	50.184	100.37	70-130
61 Cyclohexane	50.000	48.778	97.56	60-140
62 1,1,1-Trichloroeth	50.000	48.824	97.65	70-130
63 Vinyl Acetate	50.000	51.440	102.88	60-140
65 Carbon Tetrachlori	50.000	49.218	98.44	70-130
68 2,2,4-Trimethylpen	50.000	48.703	97.41	60-140
69 Benzene	50.000	48.108	96.22	70-130
72 1,2-Dichloroethane	50.000	51.289	102.58	70-130
75 Heptane	50.000	43.871	87.74	60-140
80 Trichloroethene	50.000	48.893	97.79	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	48.543	97.09	70-130
84 1,4-Dioxane	50.000	45.712	91.42	60-140
85 Bromodichlorometha	50.000	51.296	102.59	60-140
90 cis-1,3-Dichloropr	50.000	49.824	99.65	70-130
91 4-Methyl-2-pentano	50.000	50.652	101.30	60-140
99 Toluene	50.000	50.898	101.80	70-130
100 trans-1,3-Dichloro	50.000	50.747	101.49	70-130
101 1,1,2-Trichloroeth	50.000	48.974	97.95	70-130
102 Tetrachloroethene	50.000	48.494	96.99	70-130
103 2-Hexanone	50.000	47.198	94.40	60-140
105 Dibromochlorometha	50.000	49.731	99.46	60-140
106 1,2-Dibromoethane	50.000	47.517	95.03	70-130
109 Chlorobenzene	50.000	46.390	92.78	70-130
111 Ethyl Benzene	50.000	50.011	100.02	70-130
113 m,p-Xylene	50.000	46.987	93.97	70-130
114 o-Xylene	50.000	47.818	95.64	70-130
115 Styrene	50.000	52.036	104.07	70-130
118 Bromoform	50.000	51.928	103.86	60-140
119 Cumene	50.000	50.501	101.00	60-140
123 1,1,2,2-Tetrachlor	50.000	45.839	91.68	70-130
124 Propylbenzene	50.000	50.502	101.00	60-140
126 4-Ethyltoluene	50.000	50.448	100.90	60-140
128 1,3,5-Trimethylben	50.000	49.343	98.69	70-130
131 1,2,4-Trimethylben	50.000	49.216	98.43	70-130
138 1,3-Dichlorobenzen	50.000	44.531	89.06	70-130
141 1,4-Dichlorobenzen	50.000	46.664	93.33	70-130
143 alpha-Chlorotoluen	50.000	52.531	105.06	70-130
146 1,2-Dichlorobenzen	50.000	44.035	88.07	70-130
154 1,2,4-Trichloroben	50.000	41.005	82.01	70-130
155 Hexachlorobutadien	50.000	41.068	82.14	70-130
1 Propylene	50.000	50.959	101.92	70-130
156 Naphthalene	50.000	38.416	76.83	60-140
21 Butane	50.000	49.649	99.30	70-130
30 Isopentane	50.000	48.896	97.79	70-130
96 Methyl Cyclohexane	50.000	48.490	96.98	70-130

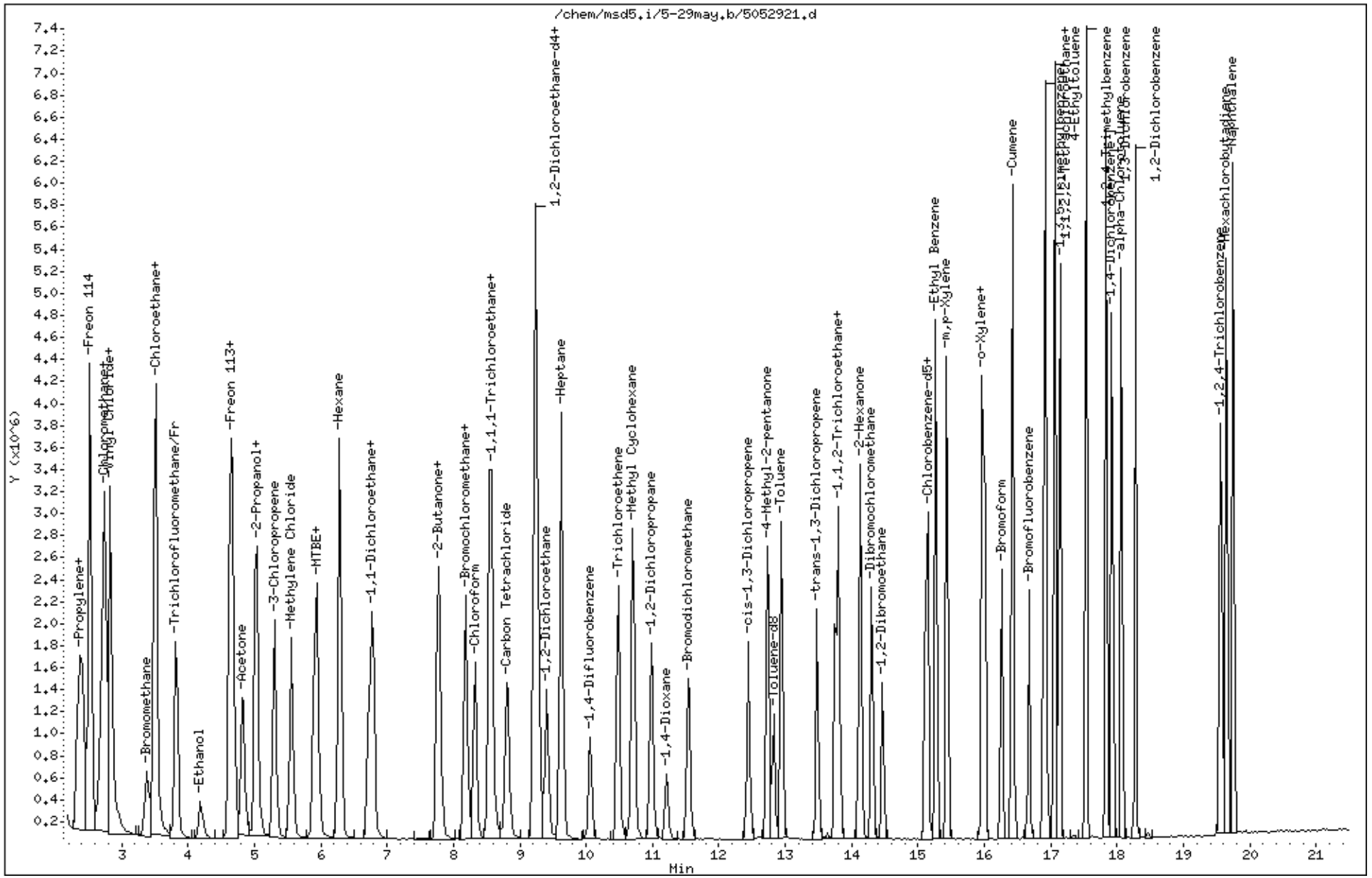
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.045	96.18	70-130
$ 97 Toluene-d8	25.000	25.209	100.84	70-130
$ 122 Bromofluorobenzene	25.000	24.744	98.98	70-130

0073

Data File: /chem/msd5.i/5-29may.b/5052921.d
Date : 29-MAY-2007 21:53
Client ID: LCS
Sample Info: 50mL #1487-272

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052911.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 29-MAY-2007 15:42
Operator : JG Inst ID: msd5.i
Smp Info : 0.3mL #1487-288
Misc Info : 200ppbv-0.3ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 15:42 Cal File: 5052911.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AFCEElow.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane					CAS #: 74-97-5			
8.187	8.187 (1.000)	130	321276	25.0000		70.00- 130.00		100.00
8.187	8.187 (1.000)	128	254210			50.27- 110.27		79.13
8.187	8.187 (1.000)	49	965206			281.04- 341.04		300.43
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1271328	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	230292			0.00- 48.57		18.11
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	1006780	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	644412			0.00- 30.00		64.01
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.132)	65	625671	25.0000	24.294	70.00- 130.00		100.00
9.265	9.265 (1.132)	67	271934			0.00- 30.00		43.46
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1162897	25.0000	25.130	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	128701			0.00- 30.00		11.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	733968			0.00- 30.00	63.12
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	628671	25.0000	24.853	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	995730			131.53- 191.53	158.39
16.675	16.675 (1.104)	176	574568			65.40- 125.40	91.39
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	10149	0.30000	0.2590	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	7818			33.68- 93.68	77.03
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	17129	0.30000	0.3001	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	4953			0.00- 30.00	28.92
115 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	9083	0.30000	0.2228	70.00- 130.00	100.00
16.012	16.012 (1.060)	78	7332			31.61- 91.61	80.72
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	19541	0.30000	0.2293	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	5426			0.00- 30.00	27.77
16.426	16.426 (1.088)	51	7370			0.00- 30.00	37.72

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052911.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-0.3ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	321276	2.39
79 1,4-Difluorobenze	1277249	766349	1788149	1271328	-0.46
108 Chlorobenzene-d5	1008759	605255	1412263	1006780	-0.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-29may.b/5052911.d

Date : 29-MAY-2007 15:42

Client ID: Level 1

Sample Info: 0.3mL #1487-288

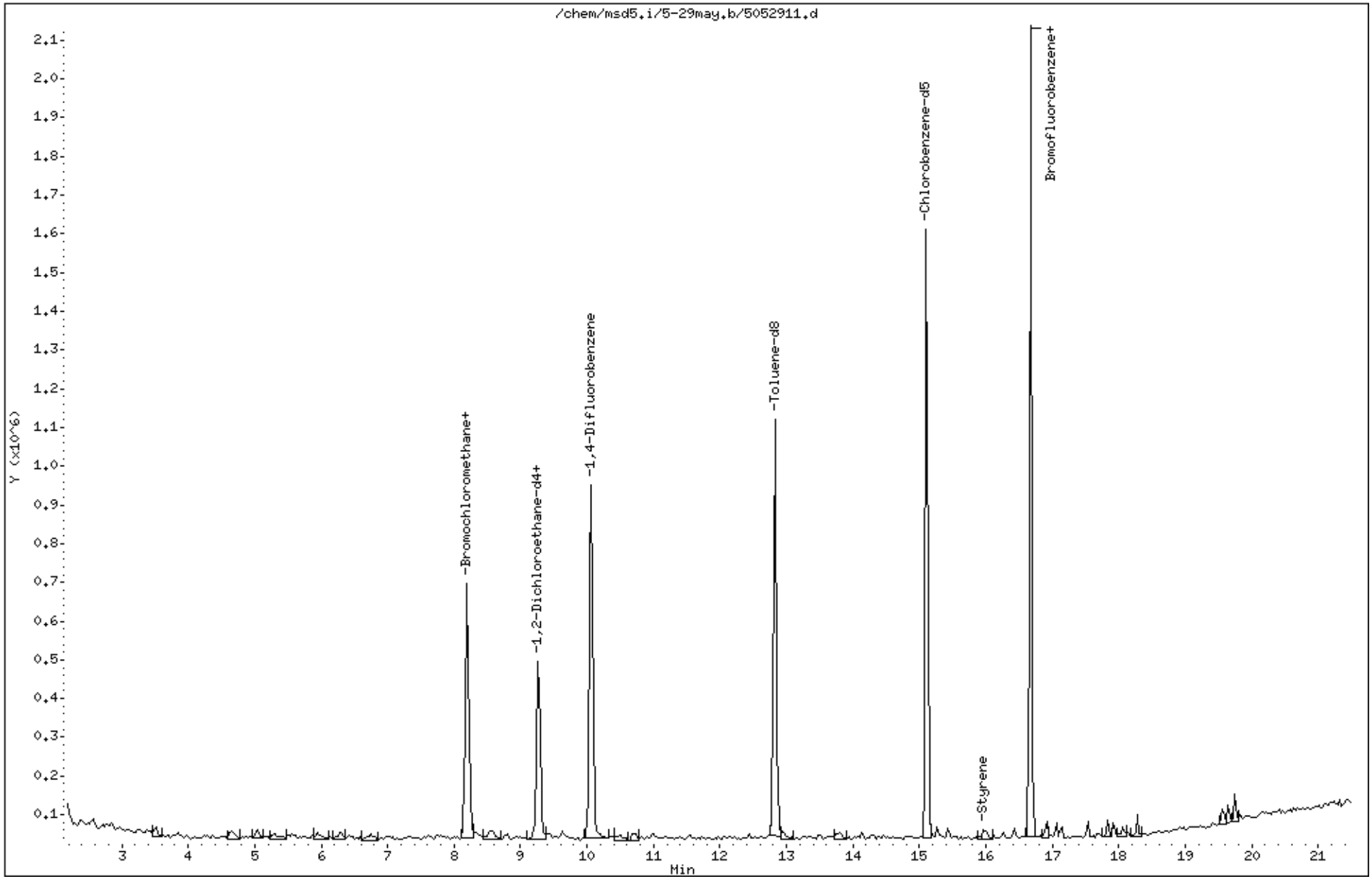
Column phase: RTx-624

Instrument: msd5.i

Operator: JG

Column diameter: 0.53

0077



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052912.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 29-MAY-2007 16:10
Operator : JG Inst ID: msd5.i
Smp Info : 0.5mL #1487-288
Misc Info : 200ppbv-0.5ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 16:10 Cal File: 5052912.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane					CAS #: 74-97-5			
8.187	8.187 (1.000)	130	320227	25.0000		70.00- 130.00		100.00
8.187	8.187 (1.000)	128	242343			50.27- 110.27		75.68
8.187	8.187 (1.000)	49	989401			281.04- 341.04		308.97
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1280514	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	225538			0.00- 48.57		17.61
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	1002266	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	636566			0.00- 30.00		63.51
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.132)	65	608358	25.0000	23.699	70.00- 130.00		100.00
9.265	9.265 (1.132)	67	275344			0.00- 30.00		45.26
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1131826	25.0000	24.283	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	133637			0.00- 30.00		11.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	718153			0.00- 30.00	63.45
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	608252	25.0000	24.154	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	993460			131.53- 191.53	163.33
16.675	16.675 (1.104)	176	565354			65.40- 125.40	92.95
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	23887	0.50000	0.4204	70.00- 130.00	100.00(a)
2.436	2.436 (0.298)	87	10725			0.00- 30.00	44.90
3 Freon 114					CAS #: 76-14-2		
2.574	2.574 (0.314)	135	23575	0.50000	0.4339	70.00- 130.00	100.00(a)
2.574	2.574 (0.314)	137	6815			0.80- 60.80	28.91
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	16097	0.50000	0.3859	70.00- 130.00	100.00(a)
2.823	2.823 (0.345)	64	2335			0.00- 30.00	14.51
6 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.348)	54	15909	0.50000	0.3842	70.00- 130.00	100.00(a)
2.823	2.823 (0.345)	39	19757			0.00- 30.00	124.19
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	10699	0.50000	0.4318	70.00- 130.00	100.00(a)
3.376	3.376 (0.412)	96	11343			64.95- 124.95	106.02
8 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.433)	64	10708	0.50000	0.4841	70.00- 130.00	100.00(aM)
3.514	3.514 (0.429)	49	2538			0.00- 30.00	23.70
3.542	3.542 (0.433)	66	2672			0.00- 30.00	24.95
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.470)	101	21790	0.50000	0.3805	70.00- 130.00	100.00(a)
3.846	3.846 (0.470)	103	14799			35.72- 95.72	67.92
19 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	15909	0.50000	0.4537	70.00- 130.00	100.00(a)
4.675	4.675 (0.571)	153	9623			32.16- 92.16	60.49
4.648	4.648 (0.568)	101	17694			100.00- 160.00	111.22
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	22963	0.50000	0.4200	70.00- 130.00	100.00(a)
4.703	4.703 (0.574)	96	13121			19.13- 79.13	57.14
4.675	4.675 (0.571)	98	8419			0.28- 60.28	36.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
25 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	31324	0.50000	0.4161	70.00- 130.00	100.00(a)
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	25089	0.50000	0.4892	70.00- 130.00	100.00(a)
5.560	5.560 (0.679)	84	12478			9.87- 69.87	49.73
5.588	5.588 (0.683)	51	11156			0.00- 30.00	44.47
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	17321	0.50000	0.4329	70.00- 130.00	100.00(a)
5.892	5.892 (0.720)	57	10505			5.77- 65.77	60.65
5.892	5.892 (0.720)	41	11670			0.00- 30.00	67.37
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	11955	0.50000	0.4385	70.00- 130.00	100.00(a)
5.947	5.947 (0.726)	61	22533			164.17- 224.17	188.48
5.947	5.947 (0.726)	98	8954			0.00- 30.00	74.90
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	30616	0.50000	0.4466	70.00- 130.00	100.00(a)
6.307	6.307 (0.770)	43	19399			0.00- 30.00	63.36
6.279	6.279 (0.767)	86	2664			0.00- 30.00	8.70
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.749	6.749 (0.824)	63	21051	0.50000	0.3860	70.00- 130.00	100.00(a)
6.721	6.721 (0.821)	65	8949			0.00- 59.00	42.51
53 2-Butanone					CAS #: 78-93-3		
7.827	7.827 (0.956)	72	4602	0.50000	0.4368	70.00- 130.00	100.00(a)
7.827	7.827 (0.956)	43	30590			796.36- 856.36	664.71
7.800	7.800 (0.953)	57	3193			0.00- 30.00	69.38
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	19035	0.50000	0.4494	70.00- 130.00	100.00(a)
7.772	7.772 (0.949)	96	8942			25.31- 85.31	46.98
7.744	7.744 (0.946)	98	6446			2.88- 62.88	33.86
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	25795	0.50000	0.4721	70.00- 130.00	100.00(a)
8.187	8.187 (1.000)	71	5366			0.00- 48.47	20.80
8.187	8.187 (1.000)	72	6815			0.00- 30.00	26.42
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	18550	0.50000	0.4748	70.00- 130.00	100.00(a)
8.325	8.325 (1.017)	85	13138			33.68- 93.68	70.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	18607	0.50000	0.4373	70.00- 130.00	100.00(a)
8.574	8.574 (1.047)	99	9899			32.24- 92.24	53.20
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	10997	0.50000	0.3806	70.00- 130.00	100.00(a)
8.546	8.546 (1.044)	56	25188			177.94- 237.94	229.04
8.546	8.546 (1.044)	41	17561			93.55- 153.55	159.69
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	15647	0.50000	0.4221	70.00- 130.00	100.00(a)
8.795	8.795 (1.074)	117	13079			71.97- 131.97	83.59
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	65681	0.50000	0.4032	70.00- 130.00	100.00(a)
9.237	9.237 (1.128)	56	24350			0.00- 30.00	37.07
9.237	9.237 (1.128)	41	18060			0.00- 30.00	27.50
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	26710	0.50000	0.4646	70.00- 130.00	100.00(a)
9.237	9.237 (0.918)	77	6178			0.00- 30.00	23.13
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	16969	0.50000	0.4339	70.00- 130.00	100.00(a)
9.431	9.431 (0.937)	64	7803			0.00- 30.00	45.98
75 Heptane					CAS #: 142-82-5		
9.625	9.625 (0.956)	100	4985	0.50000	0.6380	70.00- 130.00	100.00
9.625	9.625 (0.956)	43	26220			0.00- 30.00	525.98
9.625	9.625 (0.956)	71	8530			0.00- 30.00	171.11
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	9776	0.50000	0.4056	70.00- 130.00	100.00(a)
10.482	10.482 (1.041)	130	10501			65.35- 125.35	107.42
10.509	10.509 (1.044)	97	7241			35.05- 95.05	74.07
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	10942	0.50000	0.4369	70.00- 130.00	100.00(a)
10.979	10.979 (1.091)	62	10300			43.36- 103.36	94.13
10.979	10.979 (1.091)	41	12824			62.33- 122.33	117.20
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	13983	0.50000	0.3927	70.00- 130.00	100.00(a)
11.532	11.532 (1.146)	85	9417			33.28- 93.28	67.35
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	10181	0.50000	0.3963	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
90 cis-1,3-Dichloropropene (continued)							
12.445	12.445 (1.236)	77	4724			2.34- 62.34	46.40
12.445	12.445 (1.236)	39	13321			80.54- 140.54	130.84
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	7913	0.50000	0.3212	70.00- 130.00	100.00(a)
12.721	12.721 (1.264)	43	40882			0.00- 30.00	516.64
12.721	12.721 (1.264)	85	3216			0.00- 30.00	40.64
99 Toluene					CAS #: 108-88-3		
12.943	12.943 (1.286)	91	23853	0.50000	0.4320	70.00- 130.00	100.00(a)
12.943	12.943 (1.286)	92	16171			28.86- 88.86	67.79
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	10192	0.50000	0.3619	70.00- 130.00	100.00(a)
13.468	13.468 (0.892)	77	3040			1.06- 61.06	29.83
13.468	13.468 (0.892)	39	12412			66.05- 126.05	121.78
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.772	13.772 (0.912)	97	7570	0.50000	0.3982	70.00- 130.00	100.00(a)
13.772	13.772 (0.912)	99	5988			31.72- 91.72	79.10
13.744	13.744 (0.910)	83	6694			52.19- 112.19	88.43
102 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	12288	0.50000	0.5168	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	12759			54.09- 114.09	103.83
13.800	13.800 (0.914)	131	10780			52.34- 112.34	87.73
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	13708	0.50000	0.4429	70.00- 130.00	100.00(a)
14.297	14.297 (0.947)	127	8932			0.00- 30.00	65.16
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	13014	0.50000	0.4478	70.00- 130.00	100.00(a)
14.463	14.463 (0.958)	109	10566			62.51- 122.51	81.19
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	23229	0.50000	0.5061	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	7938			2.97- 62.97	34.17
15.099	15.099 (1.000)	77	21831			34.70- 94.70	93.98
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	7812	0.50000	0.3463	70.00- 130.00	100.00(a)
15.265	15.265 (1.011)	91	34822			0.00- 30.00	445.75
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	12493	0.50000	0.4254	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 m,p-Xylene (continued)							
15.431	15.431 (1.022)	91	28543			0.00- 30.00	228.47
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	9992	0.50000	0.3598	70.00- 130.00	100.00(a)
15.956	15.956 (1.057)	91	27995			210.36- 270.36	280.17
115 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	16015	0.50000	0.3945	70.00- 130.00	100.00(a)
16.012	16.012 (1.060)	78	11749			31.61- 91.61	73.36
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	9708	0.50000	0.3660	70.00- 130.00	100.00(a)
16.260	16.260 (1.077)	171	6307			21.89- 81.89	64.97
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	19546	0.50000	0.4506	70.00- 130.00	100.00(a)
16.896	16.896 (1.119)	85	10994			35.56- 95.56	56.25
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	38045	0.50000	0.3990	70.00- 130.00	100.00(a)
17.062	17.062 (1.130)	120	10793			0.00- 58.00	28.37
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	31915	0.50000	0.3992	70.00- 130.00	100.00(a)
17.145	17.145 (1.135)	120	16327			0.00- 30.00	51.16
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	33871	0.50000	0.3946	70.00- 130.00	100.00(a)
17.532	17.532 (1.161)	120	15171			13.06- 73.06	44.79
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	26253	0.50000	0.4666	70.00- 130.00	100.00(a)
17.836	17.836 (1.181)	148	12691			0.00- 30.00	48.34
17.836	17.836 (1.181)	111	11047			0.00- 30.00	42.08
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	18234	0.50000	0.4098	70.00- 130.00	100.00(a)
17.919	17.919 (1.187)	148	13738			0.00- 30.00	75.34
17.919	17.919 (1.187)	111	11777			0.00- 30.00	64.59
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	21416	0.50000	0.2885	70.00- 130.00	100.00(a)
18.058	18.058 (1.196)	126	5259			0.00- 30.00	24.56
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	29578	0.50000	0.5067	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 1,2-Dichlorobenzene (continued)							
18.279	18.279 (1.211)	148	14247			33.74- 93.74	48.17
18.279	18.279 (1.211)	111	11347			15.34- 75.34	38.36
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	45410	0.50000	0.4116	70.00- 130.00	100.00(a)
16.924	16.924 (1.121)	120	9673			0.00- 30.00	21.30
16.924	16.924 (1.121)	105	3079			0.00- 30.00	6.78
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	36572	0.50000	0.4310	70.00- 130.00	100.00(a)
16.426	16.426 (1.088)	120	7574			0.00- 30.00	20.71
16.426	16.426 (1.088)	51	10237			0.00- 30.00	27.99
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	15269	0.50000	0.4480	70.00- 130.00	100.00(a)
10.703	10.703 (1.063)	98	8344			0.00- 30.00	54.65
10.703	10.703 (1.063)	55	20506			0.00- 30.00	134.30

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052912.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-0.5ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	320227	2.06
79 1,4-Difluorobenze	1277249	766349	1788149	1280514	0.26
108 Chlorobenzene-d5	1008759	605255	1412263	1002266	-0.64

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

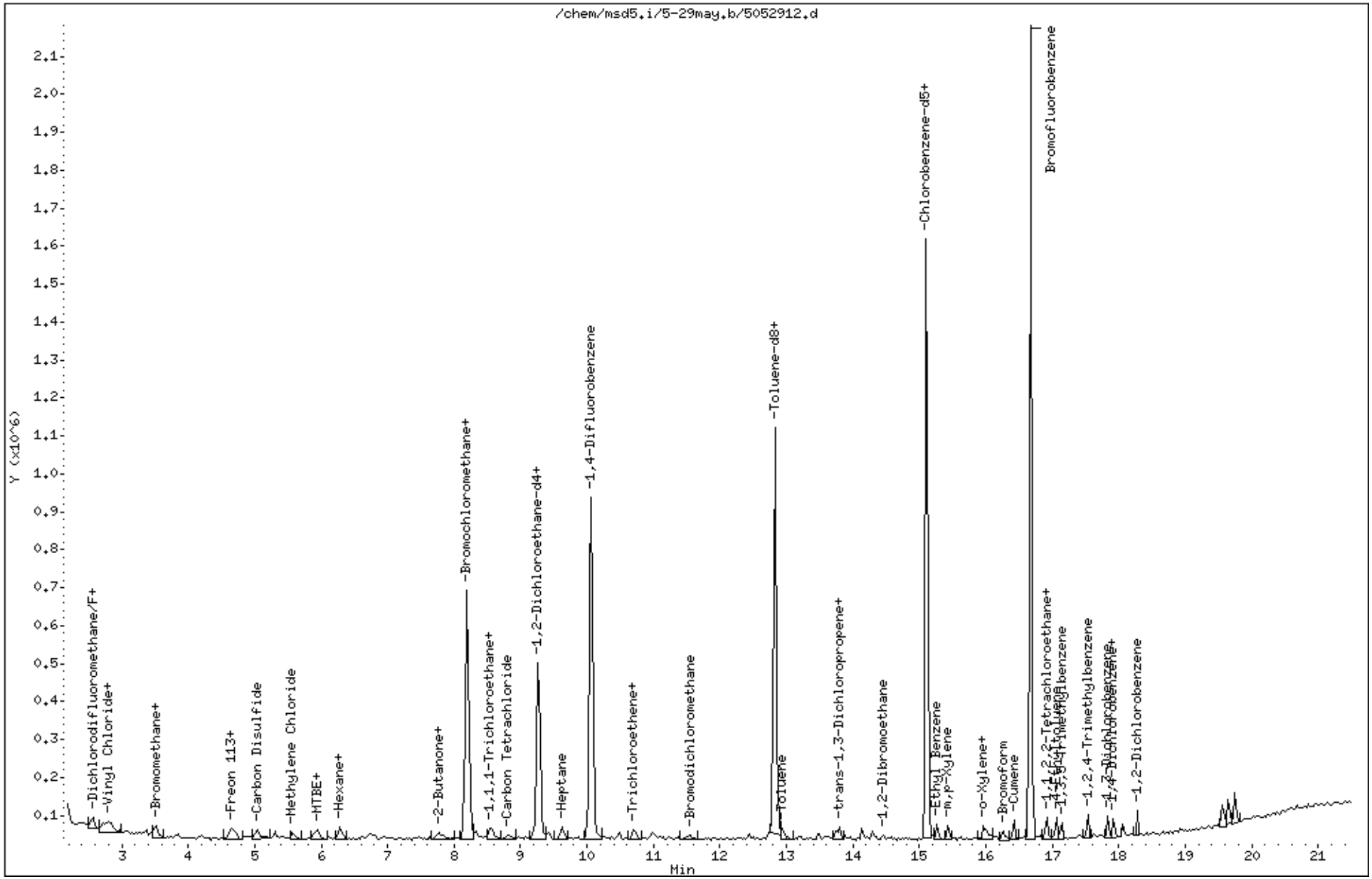
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-29may.b/5052912.d
Date : 29-MAY-2007 16:10
Client ID: Level 2
Sample Info: 0.5mL #1487-288

Instrument: msd5.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052920.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 29-MAY-2007 20:44
Operator : JG Inst ID: msd5.i
Smp Info : 2.0mL #1487-288
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane						CAS #: 74-97-5		
8.187	8.187 (1.000)	130	316096	25.0000		70.00- 130.00		100.00
8.187	8.187 (1.000)	128	247135			50.32- 110.32		78.18
8.187	8.187 (1.000)	49	960997			291.93- 351.93		304.02
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
10.067	10.067 (1.000)	114	1251763	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	223571			0.00- 47.76		17.86
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	961284	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	600538			33.54- 93.54		62.47
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	617065	25.0000	24.352	70.00- 130.00		100.00
9.265	9.265 (1.132)	67	276389			25.98- 85.98		44.79
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	1134629	25.0000	24.903	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	126127			0.00- 41.05		11.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	735073			36.04- 96.04	64.79
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	596682	25.0000	24.705	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	983772			139.49- 199.49	164.87
16.675	16.675 (1.104)	176	580470			69.76- 129.76	97.28
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	103421	2.00000	2.453	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	71432			36.96- 96.96	69.07
2.353	2.353 (0.287)	39	67277			37.69- 97.69	65.05
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	148565	2.00000	2.649	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	48870			1.62- 61.62	32.89
3 Freon 114					CAS #: 76-14-2		
2.574	2.574 (0.314)	135	133313	2.00000	2.485	70.00- 130.00	100.00
2.574	2.574 (0.314)	137	39543			1.52- 61.52	29.66
4 Chloromethane					CAS #: 74-87-3		
2.712	2.712 (0.331)	50	121601	2.00000	2.402	70.00- 130.00	100.00
2.712	2.712 (0.331)	52	38677			0.00- 59.51	31.81
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	94018	2.00000	2.283	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	38541			0.00- 59.15	40.99
6 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.348)	54	100057	2.00000	2.448	70.00- 130.00	100.00
2.850	2.850 (0.348)	39	153795			92.11- 152.11	153.71
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	59516	2.00000	2.433	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	54357			64.13- 124.13	91.33
8 Chloroethane					CAS #: 75-00-3		
3.569	3.569 (0.436)	64	51793	2.00000	2.372	70.00- 130.00	100.00
3.569	3.569 (0.436)	49	16946			1.83- 61.83	32.72
3.541	3.541 (0.433)	66	14824			0.00- 57.39	28.62
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.470)	101	143306	2.00000	2.535	70.00- 130.00	100.00
3.846	3.846 (0.470)	103	89746			34.13- 94.13	62.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.205	4.205 (0.514)	45	40839	2.00000	2.355	70.00- 130.00	100.00
4.205	4.205 (0.514)	43	12359			0.00- 49.45	30.26
4.177	4.177 (0.510)	46	16246			11.95- 71.95	39.78
19 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	78812	2.00000	2.277	70.00- 130.00	100.00
4.647	4.647 (0.568)	153	55161			33.02- 93.02	69.99
4.647	4.647 (0.568)	101	110743			99.23- 159.23	140.52
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	133584	2.00000	2.475	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	65366			16.83- 76.83	48.93
4.675	4.675 (0.571)	98	38535			0.21- 60.21	28.85
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	47377	2.00000	2.353	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	157055			327.94- 387.94	331.50
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	229326	2.00000	2.614	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	56842			0.00- 49.24	24.79
5.062	5.062 (0.618)	59	7792			0.00- 33.25	3.40
25 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	182149	2.00000	2.451	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	28388	2.00000	2.261	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	145705			480.64- 540.64	513.26
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	112605	2.00000	2.224	70.00- 130.00	100.00
5.588	5.588 (0.683)	84	51772			11.41- 71.41	45.98
5.588	5.588 (0.683)	51	41098			0.00- 59.58	36.50
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	63501	2.00000	1.608	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	25359			8.02- 68.02	39.93
5.919	5.919 (0.723)	41	24865			10.34- 70.34	39.16
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	65020	2.00000	2.416	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	125850			163.30- 223.30	193.56
5.947	5.947 (0.726)	98	40670			32.40- 92.40	62.55

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	166678	2.00000	2.463	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	114670			46.14- 106.14	68.80
6.306	6.306 (0.770)	86	20312			0.00- 41.50	12.19
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	133534	2.00000	2.481	70.00- 130.00	100.00
6.749	6.749 (0.824)	65	36083			0.00- 58.49	27.02
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	24181	2.00000	2.325	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	203952			783.34- 843.34	843.44
7.800	7.800 (0.953)	57	13069			23.20- 83.20	54.05
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	100319	2.00000	2.400	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	56182			23.43- 83.43	56.00
7.772	7.772 (0.949)	98	33485			4.05- 64.05	33.38
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	145723	2.00000	2.702	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	25088			0.00- 48.28	17.22
8.187	8.187 (1.000)	72	23711			0.00- 49.73	16.27
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	91231	2.00000	2.366	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	58564			35.36- 95.36	64.19
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	99793	2.00000	2.376	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	61069			34.25- 94.25	61.20
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	71745	2.00000	2.515	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	139115			178.96- 238.96	193.90
8.546	8.546 (1.044)	41	86037			98.39- 158.39	119.92
63 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.831)	86	12271	2.00000	1.957	70.00- 130.00	100.00(a)
6.804	6.804 (0.831)	43	232470			1767.50-1827.50	1894.47
6.804	6.804 (0.831)	42	23469			104.58- 164.58	191.26
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.795	8.795 (1.074)	119	85692	2.00000	2.342	70.00- 130.00	100.00
8.795	8.795 (1.074)	117	82137			75.27- 135.27	95.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	400802	2.00000	2.492	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	134866			2.91- 62.91	33.65
9.237	9.237 (1.128)	41	117674			0.00- 59.75	29.36
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	139372	2.00000	2.480	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	32010			0.00- 53.04	22.97
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	89858	2.00000	2.350	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	25857			0.57- 60.57	28.78
75 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	19383	2.00000	2.538	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	174769			1063.83-1123.83	901.66
9.624	9.624 (0.956)	71	48620			257.42- 317.42	250.84
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	64707	2.00000	2.746	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	52528			62.27- 122.27	81.18
10.482	10.482 (1.041)	97	37969			34.70- 94.70	58.68
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	60004	2.00000	2.451	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	45498			45.60- 105.60	75.82
10.979	10.979 (1.091)	41	59347			64.20- 124.20	98.91
84 1,4-Dioxane					CAS #: 123-91-1		
11.228	11.228 (1.115)	88	31565	2.00000	2.505	70.00- 130.00	100.00
11.228	11.228 (1.115)	58	38115			92.25- 152.25	120.75
11.228	11.228 (1.115)	57	13457			11.42- 71.42	42.63
85 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	83087	2.00000	2.387	70.00- 130.00	100.00
11.560	11.560 (1.148)	85	50655			33.44- 93.44	60.97
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	59090	2.00000	2.353	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	19453			1.12- 61.12	32.92
12.445	12.445 (1.236)	39	65513			75.09- 135.09	110.87
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	64379	2.00000	2.673	70.00- 130.00	100.00
12.749	12.749 (1.266)	43	224759			296.95- 356.95	349.12
12.749	12.749 (1.266)	85	18016			0.00- 57.61	27.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	133032	2.00000	2.465	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	83331			29.10- 89.10	62.64
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.495	13.495 (0.894)	75	65276	2.00000	2.417	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	17228			2.77- 62.77	26.39
13.468	13.468 (0.892)	39	53935			66.19- 126.19	82.63
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	48268	2.00000	2.647	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	28065			30.49- 90.49	58.14
13.744	13.744 (0.910)	83	37994			51.49- 111.49	78.71
102 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	56794	2.00000	2.490	70.00- 130.00	100.00
13.799	13.799 (0.914)	129	52595			53.95- 113.95	92.61
13.799	13.799 (0.914)	131	45371			50.65- 110.65	79.89
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	81765	2.00000	2.398	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	191037			208.96- 268.96	233.64
14.131	14.131 (0.936)	100	9310			0.00- 42.78	11.39
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	66977	2.00000	2.256	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	48056			48.77- 108.77	71.75
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	63438	2.00000	2.276	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	58926			63.89- 123.89	92.89
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	111605	2.00000	2.535	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	35441			2.73- 62.73	31.76
15.154	15.154 (1.004)	77	75096			34.32- 94.32	67.29
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	53424	2.00000	2.469	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	203990			322.22- 382.22	381.83
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	71494	2.00000	2.538	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	168950			202.98- 262.98	236.31
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	77030	2.00000	2.892	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	167364			213.72- 273.72	217.27
115 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	98770	2.00000	2.537	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	56379			31.90- 91.90	57.08
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	61401	2.00000	2.413	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	29883			22.82- 82.82	48.67
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	113659	2.00000	2.732	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	76386			35.41- 95.41	67.21
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	243984	2.00000	2.668	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	71225			0.00- 58.34	29.19
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	200401	2.00000	2.613	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	95719			16.58- 76.58	47.76
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	222185	2.00000	2.698	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	100228			12.83- 72.83	45.11
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	151992	2.00000	2.816	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	88732			33.12- 93.12	58.38
17.836	17.836 (1.181)	111	61470			15.78- 75.78	40.44
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	112823	2.00000	2.644	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	70761			34.33- 94.33	62.72
17.919	17.919 (1.187)	111	48344			18.49- 78.49	42.85
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	159307	2.00000	2.237	70.00- 130.00	100.00
18.057	18.057 (1.196)	126	27823			0.00- 47.06	17.47
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	163507	2.00000	2.921	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	94461			33.02- 93.02	57.77
18.279	18.279 (1.211)	111	70285			16.95- 76.95	42.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	118333	2.00000	3.006	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	112241			62.53- 122.53	94.85
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	107367	2.00000	3.291	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	65631			31.16- 91.16	61.13
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	293341	2.00000	2.772	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	57107			0.00- 50.53	19.47
16.924	16.924 (1.121)	105	9907			0.00- 33.52	3.38
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	226883	2.00000	2.788	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	56435			0.00- 55.50	24.87
16.426	16.426 (1.088)	51	42871			0.00- 50.84	18.90
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	363541	2.00000	3.111	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	44478			0.00- 42.90	12.23
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	173820	2.00000	2.432	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	107697			30.33- 90.33	61.96
3.514	3.514 (0.429)	72	9046			0.00- 34.69	5.20
21 Butane					CAS #: 106-97-8		
2.767	2.767 (0.338)	58	28307	2.00000	2.428	70.00- 130.00	100.00
2.767	2.767 (0.338)	43	228460			773.30- 833.30	807.08
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	87634	2.00000	2.630	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	45970			20.58- 80.58	52.46
10.703	10.703 (1.063)	55	116521			125.23- 185.23	132.96

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052920.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	316096	0.74
79 1,4-Difluorobenze	1277249	766349	1788149	1251763	-2.00
108 Chlorobenzene-d5	1008759	605255	1412263	961284	-4.71

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

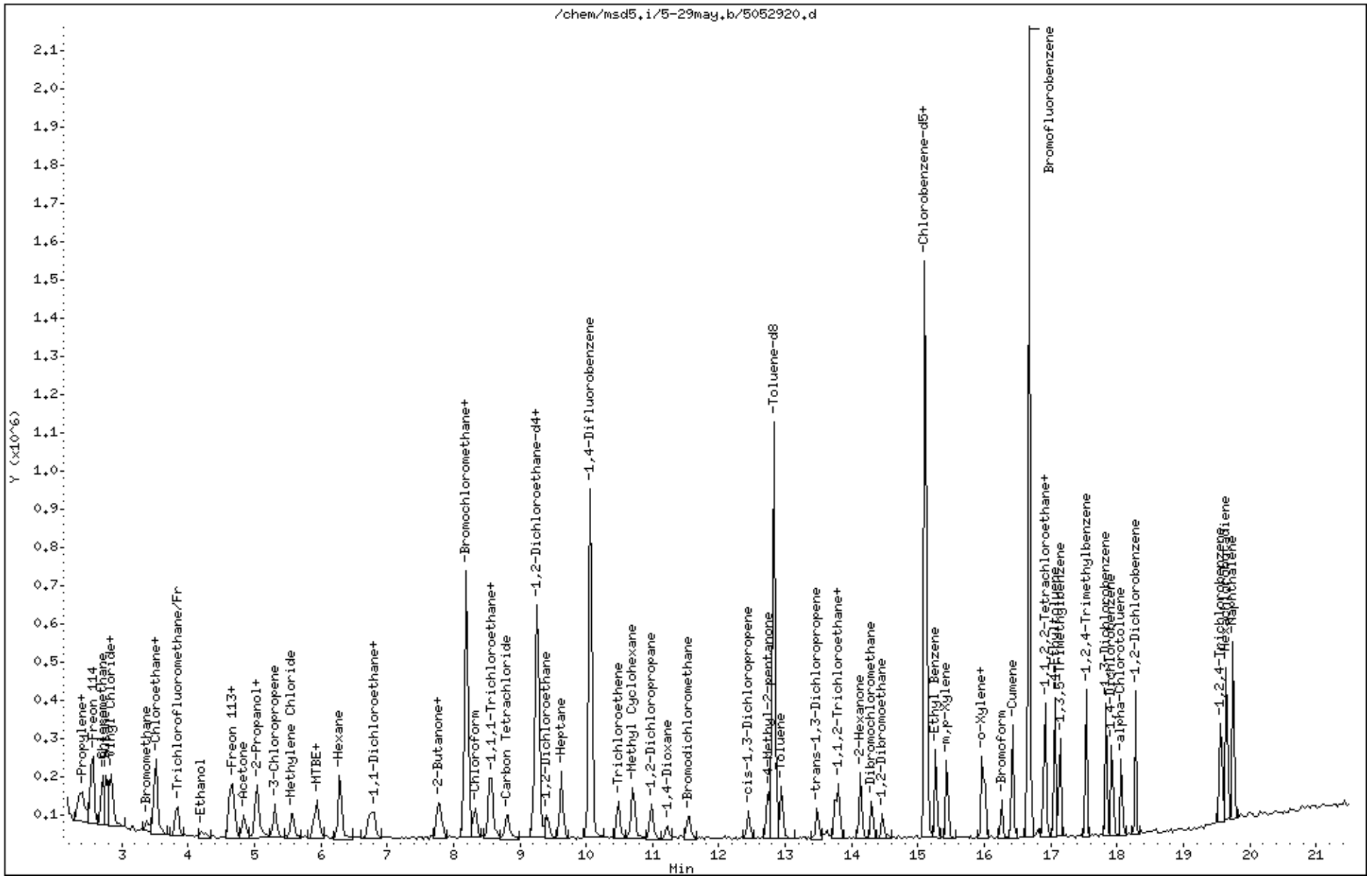
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-29may.b/5052920.d
Date : 29-MAY-2007 20:44
Client ID: Level 3
Sample Info: 2.0mL #1487-288

Column phase: RTx-624

Instrument: msd5.i

Operator: JG
Column diameter: 0.53



0096

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052914.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 29-MAY-2007 17:06
Operator : JG Inst ID: msd5.i
Smp Info : 25mL #1487-288
Misc Info : 200ppbv-25ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 17:06 Cal File: 5052914.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 57 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	313031	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	248012			50.27- 110.27	79.23
8.187	8.187 (1.000)	49	934584			281.04- 341.04	298.56
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	1249721	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	214958			0.00- 48.57	17.20
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	1007739	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	649705			0.00- 30.00	64.47
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	598187	25.0000	23.838	70.00- 130.00	100.00
9.265	9.265 (1.132)	67	297515			0.00- 30.00	49.74
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	1165064	25.0000	25.612	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	128433			0.00- 30.00	11.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	745926			0.00- 30.00	64.02
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	654502	25.0000	25.850	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	1018554			131.53- 191.53	155.62
16.675	16.675 (1.104)	176	602109			65.40- 125.40	91.99
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	1011009	25.0000	24.216	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	666998			0.00- 30.00	65.97
2.353	2.353 (0.287)	39	709842			0.00- 30.00	70.21
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	1347935	25.0000	24.271	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	442032			0.00- 30.00	32.79
3 Freon 114					CAS #: 76-14-2		
2.518	2.518 (0.308)	135	1341940	25.0000	25.264	70.00- 130.00	100.00
2.518	2.518 (0.308)	137	410164			0.80- 60.80	30.57
4 Chloromethane					CAS #: 74-87-3		
2.657	2.657 (0.325)	50	1202867	25.0000	23.989	70.00- 130.00	100.00
2.657	2.657 (0.325)	52	347608			0.00- 30.00	28.90
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	1085068	25.0000	26.612	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	330164			0.00- 30.00	30.43
6 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	1025249	25.0000	25.332	70.00- 130.00	100.00
2.823	2.823 (0.345)	39	1171748			0.00- 30.00	114.29
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	593792	25.0000	24.514	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	597150			64.95- 124.95	100.57
8 Chloroethane					CAS #: 75-00-3		
3.486	3.486 (0.426)	64	539261	25.0000	24.941	70.00- 130.00	100.00
3.486	3.486 (0.426)	49	178886			0.00- 30.00	33.17
3.486	3.486 (0.426)	66	162376			0.00- 30.00	30.11
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	1424119	25.0000	25.438	70.00- 130.00	100.00
3.818	3.818 (0.466)	103	932785			35.72- 95.72	65.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.177	4.177 (0.510)	45	412419	25.0000	24.012	70.00- 130.00	100.00
4.177	4.177 (0.510)	43	83275			0.00- 30.00	20.19
4.177	4.177 (0.510)	46	165474			0.00- 30.00	40.12
19 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	837003	25.0000	24.418	70.00- 130.00	100.00
4.647	4.647 (0.568)	153	552164			32.16- 92.16	65.97
4.647	4.647 (0.568)	101	1138630			100.00- 160.00	136.04
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	1334698	25.0000	24.971	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	617724			19.13- 79.13	46.28
4.675	4.675 (0.571)	98	404045			0.28- 60.28	30.27
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	476184	25.0000	23.884	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	1621035			0.00- 30.00	340.42
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	1984779	25.0000	22.842	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	414160			0.00- 30.00	20.87
5.035	5.035 (0.615)	59	68357			0.00- 30.00	3.44
25 Carbon Disulfide					CAS #: 75-15-0		
5.007	5.007 (0.612)	76	1850785	25.0000	25.151	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	298597	25.0000	24.017	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	1564994			0.00- 30.00	524.12
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	1270288	25.0000	25.340	70.00- 130.00	100.00
5.560	5.560 (0.679)	84	525898			9.87- 69.87	41.40
5.560	5.560 (0.679)	51	367300			0.00- 30.00	28.91
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	1216602	25.0000	31.108	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	453109			5.77- 65.77	37.24
5.892	5.892 (0.720)	41	500006			0.00- 30.00	41.10
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	673204	25.0000	25.259	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	1295581			164.17- 224.17	192.45
5.947	5.947 (0.726)	98	426270			0.00- 30.00	63.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	1647548	25.0000	24.586	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	1257284			0.00- 30.00	76.31
6.279	6.279 (0.767)	86	208383			0.00- 30.00	12.65
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	1367153	25.0000	25.647	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	388099			0.00- 59.00	28.39
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	253122	25.0000	24.580	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	2091217			796.36- 856.36	826.17
7.800	7.800 (0.953)	57	137774			0.00- 30.00	54.43
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.744	7.744 (0.946)	61	1007089	25.0000	24.325	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	571660			25.31- 85.31	56.76
7.772	7.772 (0.949)	98	362354			2.88- 62.88	35.98
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1254736	25.0000	23.494	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	224600			0.00- 48.47	17.90
8.187	8.187 (1.000)	72	233351			0.00- 30.00	18.60
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	957335	25.0000	25.070	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	645239			33.68- 93.68	67.40
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	1017811	25.0000	24.471	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	666965			32.24- 92.24	65.53
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	741086	25.0000	26.237	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	1447053			177.94- 237.94	195.26
8.546	8.546 (1.044)	41	876222			93.55- 153.55	118.23
63 Vinyl Acetate					CAS #: 108-05-4		
6.776	6.776 (0.828)	86	150268	25.0000	24.201	70.00- 130.00	100.00
6.776	6.776 (0.828)	43	2750215			0.00- 30.00	1830.21
6.776	6.776 (0.828)	42	197923			0.00- 30.00	131.71
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.795	8.795 (1.074)	119	890614	25.0000	24.578	70.00- 130.00	100.00
8.795	8.795 (1.074)	117	940860			71.97- 131.97	105.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	4119169	25.0000	25.867	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	1386524			0.00- 30.00	33.66
9.237	9.237 (1.128)	41	1238030			0.00- 30.00	30.06
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	1432495	25.0000	25.529	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	337983			0.00- 30.00	23.59
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	991451	25.0000	25.974	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	269322			0.00- 30.00	27.16
75 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	171791	25.0000	22.528	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	1911392			0.00- 30.00	1112.63
9.624	9.624 (0.956)	71	494847			0.00- 30.00	288.05
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	596772	25.0000	25.370	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	559516			65.35- 125.35	93.76
10.482	10.482 (1.041)	97	372828			35.05- 95.05	62.47
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	618665	25.0000	25.311	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	472710			43.36- 103.36	76.41
10.979	10.979 (1.091)	41	566826			62.33- 122.33	91.62
84 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	298809	25.0000	23.756	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	352148			87.73- 147.73	117.85
11.200	11.200 (1.113)	57	119060			0.00- 30.00	39.84
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	874442	25.0000	25.164	70.00- 130.00	100.00
11.532	11.532 (1.146)	85	581003			33.28- 93.28	66.44
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	665925	25.0000	26.561	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	195976			2.34- 62.34	29.43
12.445	12.445 (1.236)	39	720943			80.54- 140.54	108.26
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	623679	25.0000	25.937	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	2035637			0.00- 30.00	326.39
12.749	12.749 (1.266)	85	166620			0.00- 30.00	26.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	1379591	25.0000	25.601	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	821910			28.86- 88.86	59.58
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	708220	25.0000	25.011	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	229673			1.06- 61.06	32.43
13.468	13.468 (0.892)	39	704714			66.05- 126.05	99.50
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	484845	25.0000	25.363	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	285477			31.72- 91.72	58.88
13.744	13.744 (0.910)	83	388759			52.19- 112.19	80.18
102 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	572403	25.0000	23.942	70.00- 130.00	100.00
13.799	13.799 (0.914)	129	495873			54.09- 114.09	86.63
13.799	13.799 (0.914)	131	466259			52.34- 112.34	81.46
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	825888	25.0000	23.106	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	1969807			204.79- 264.79	238.51
14.131	14.131 (0.936)	100	117306			0.00- 30.00	14.20
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	770291	25.0000	24.752	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	599597			0.00- 30.00	77.84
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	735711	25.0000	25.181	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	710546			62.51- 122.51	96.58
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1112852	25.0000	24.114	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	355744			2.97- 62.97	31.97
15.154	15.154 (1.004)	77	712512			34.70- 94.70	64.03
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	595476	25.0000	26.256	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	2068831			0.00- 30.00	347.42
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	732758	25.0000	24.816	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	1678977			0.00- 30.00	229.13
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	693334	25.0000	24.829	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	1659603			210.36- 270.36	239.37
115 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	1076573	25.0000	26.377	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	637356			31.61- 91.61	59.20
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	659910	25.0000	24.743	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	324278			21.89- 81.89	49.14
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1052242	25.0000	24.125	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	686767			35.56- 95.56	65.27
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	2461960	25.0000	25.678	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	708074			0.00- 58.00	28.76
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	1968559	25.0000	24.488	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	919042			0.00- 30.00	46.69
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	2186124	25.0000	25.328	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	967732			13.06- 73.06	44.27
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	1339584	25.0000	23.677	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	847624			0.00- 30.00	63.28
17.836	17.836 (1.181)	111	619126			0.00- 30.00	46.22
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1060761	25.0000	23.710	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	665597			0.00- 30.00	62.75
17.919	17.919 (1.187)	111	504987			0.00- 30.00	47.61
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	1884401	25.0000	25.245	70.00- 130.00	100.00
18.057	18.057 (1.196)	126	306550			0.00- 30.00	16.27
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	1353685	25.0000	23.066	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	841721			33.74- 93.74	62.18
18.279	18.279 (1.211)	111	607170			15.34- 75.34	44.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	872502	25.0000	21.140	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	847621			65.13- 125.13	97.15
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	712580	25.0000	20.835	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	438929			29.70- 89.70	61.60
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	2854973	25.0000	25.736	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	584264			0.00- 30.00	20.46
16.924	16.924 (1.121)	105	97333			0.00- 30.00	3.41
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	2186960	25.0000	25.634	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	563198			0.00- 30.00	25.75
16.426	16.426 (1.088)	51	462359			0.00- 30.00	21.14
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	2607606	25.0000	21.284	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	340365			0.00- 30.00	13.05
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	1748567	25.0000	24.702	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	1019300			0.00- 30.00	58.29
3.514	3.514 (0.429)	72	77066			0.00- 30.00	4.41
21 Butane					CAS #: 106-97-8		
2.740	2.740 (0.335)	58	284462	25.0000	24.634	70.00- 130.00	100.00
2.740	2.740 (0.335)	43	2202115			0.00- 30.00	774.13
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	816309	25.0000	24.541	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	438875			0.00- 30.00	53.76
10.703	10.703 (1.063)	55	1257458			0.00- 30.00	154.04

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052914.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-25ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	313031	-0.24
79 1,4-Difluorobenze	1277249	766349	1788149	1249721	-2.16
108 Chlorobenzene-d5	1008759	605255	1412263	1007739	-0.10

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

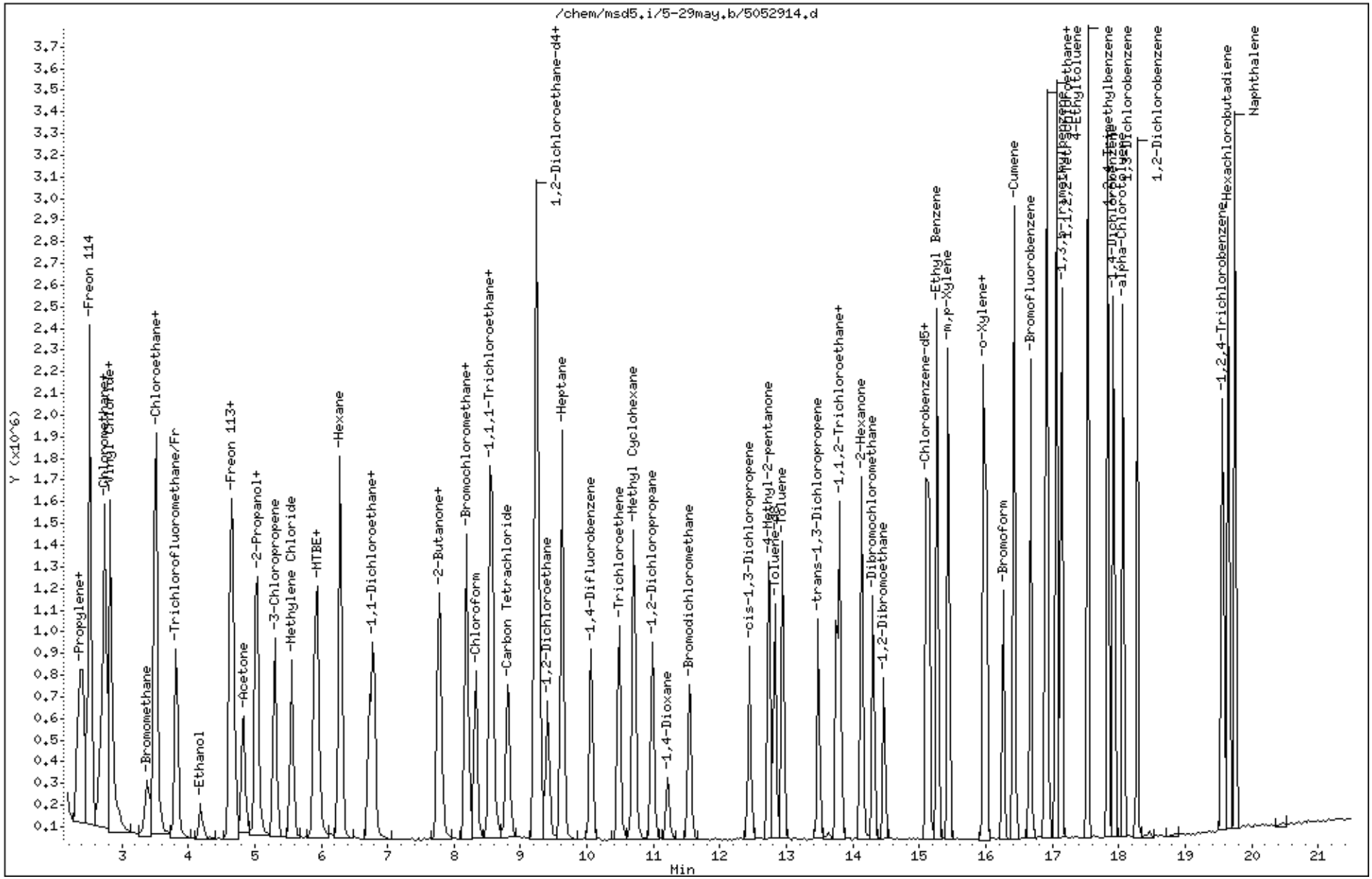
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0106

Data File: /chem/msd5.i/5-29may.b/5052914.d
Date : 29-MAY-2007 17:06
Client ID: Level 4
Sample Info: 25mL #1487-288

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052915.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 29-MAY-2007 17:34
Operator : JG Inst ID: msd5.i
Smp Info : 50mL #1487-288
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 17:34 Cal File: 5052915.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane					CAS #: 74-97-5			
8.187	8.187 (1.000)	130	313773	25.0000		70.00- 130.00		100.00
8.187	8.187 (1.000)	128	251870			50.27- 110.27		80.27
8.187	8.187 (1.000)	49	975944			281.04- 341.04		311.04
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1277249	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	237130			0.00- 48.57		18.57
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	1008759	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	646754			0.00- 30.00		64.11
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.132)	65	608892	25.0000	24.207	70.00- 130.00		100.00
9.265	9.265 (1.132)	67	325067			0.00- 30.00		53.39
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1171514	25.0000	25.199	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	130769			0.00- 30.00		11.16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	752358			0.00- 30.00	64.22
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	634034	25.0000	25.016	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	1024178			131.53- 191.53	161.53
16.675	16.675 (1.104)	176	604889			65.40- 125.40	95.40
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	1977541	50.0000	47.254	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	1330489			0.00- 30.00	67.28
2.353	2.353 (0.287)	39	1342456			0.00- 30.00	67.89
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	2608760	50.0000	46.862	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	852896			0.00- 30.00	32.69
3 Freon 114					CAS #: 76-14-2		
2.546	2.546 (0.311)	135	2601667	50.0000	48.865	70.00- 130.00	100.00
2.546	2.546 (0.311)	137	801189			0.80- 60.80	30.80
4 Chloromethane					CAS #: 74-87-3		
2.657	2.657 (0.325)	50	2527415	50.0000	50.285	70.00- 130.00	100.00
2.684	2.684 (0.328)	52	743142			0.00- 30.00	29.40
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	2094194	50.0000	51.240	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	615056			0.00- 30.00	29.37
6 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.823 (0.345)	54	2042037	50.0000	50.336	70.00- 130.00	100.00
2.823	2.823 (0.345)	39	2379579			0.00- 30.00	116.53
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	1191599	50.0000	49.078	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	1131476			64.95- 124.95	94.95
8 Chloroethane					CAS #: 75-00-3		
3.514	3.514 (0.429)	64	1064620	50.0000	49.122	70.00- 130.00	100.00
3.486	3.486 (0.426)	49	351878			0.00- 30.00	33.05
3.514	3.514 (0.429)	66	294927			0.00- 30.00	27.70
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.818 (0.466)	101	2738419	50.0000	48.798	70.00- 130.00	100.00
3.818	3.818 (0.466)	103	1799740			35.72- 95.72	65.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.177	4.177 (0.510)	45	850814	50.0000	49.419	70.00- 130.00	100.00
4.177	4.177 (0.510)	43	155554			0.00- 30.00	18.28
4.177	4.177 (0.510)	46	329644			0.00- 30.00	38.74
19 Freon 113					CAS #: 76-13-1		
4.647	4.647 (0.568)	151	1719734	50.0000	50.051	70.00- 130.00	100.00
4.647	4.647 (0.568)	153	1068957			32.16- 92.16	62.16
4.647	4.647 (0.568)	101	2235644			100.00- 160.00	130.00
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	2564587	50.0000	47.867	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	1260077			19.13- 79.13	49.13
4.675	4.675 (0.571)	98	776684			0.28- 60.28	30.28
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	948264	50.0000	47.449	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	3279219			0.00- 30.00	345.81
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	3943361	50.0000	45.276	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	826999			0.00- 30.00	20.97
5.035	5.035 (0.615)	59	130846			0.00- 30.00	3.32
25 Carbon Disulfide					CAS #: 75-15-0		
5.007	5.007 (0.612)	76	3629502	50.0000	49.205	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	600746	50.0000	48.205	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	3100941			0.00- 30.00	516.18
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	2469346	50.0000	49.144	70.00- 130.00	100.00
5.560	5.560 (0.679)	84	984532			9.87- 69.87	39.87
5.560	5.560 (0.679)	51	728946			0.00- 30.00	29.52
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	2179595	50.0000	55.599	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	779620			5.77- 65.77	35.77
5.892	5.892 (0.720)	41	903114			0.00- 30.00	41.43
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	1305614	50.0000	48.871	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	2535129			164.17- 224.17	194.17
5.947	5.947 (0.726)	98	833020			0.00- 30.00	63.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	3258302	50.0000	48.508	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	2453877			0.00- 30.00	75.31
6.279	6.279 (0.767)	86	372964			0.00- 30.00	11.45
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	2641217	50.0000	49.430	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	765910			0.00- 59.00	29.00
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	506249	50.0000	49.043	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	4183434			796.36- 856.36	826.36
7.800	7.800 (0.953)	57	285976			0.00- 30.00	56.49
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.744	7.744 (0.946)	61	2048143	50.0000	49.353	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	1132802			25.31- 85.31	55.31
7.772	7.772 (0.949)	98	673477			2.88- 62.88	32.88
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	2480236	50.0000	46.331	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	458003			0.00- 48.47	18.47
8.187	8.187 (1.000)	72	511272			0.00- 30.00	20.61
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	1941721	50.0000	50.728	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	1236401			33.68- 93.68	63.68
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	2051039	50.0000	49.196	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	1276636			32.24- 92.24	62.24
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	1394628	50.0000	49.257	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	2899995			177.94- 237.94	207.94
8.546	8.546 (1.044)	41	1723103			93.55- 153.55	123.55
63 Vinyl Acetate					CAS #: 108-05-4		
6.776	6.776 (0.828)	86	310352	50.0000	49.866	70.00- 130.00	100.00
6.776	6.776 (0.828)	43	5590923			0.00- 30.00	1801.48
6.776	6.776 (0.828)	42	423247			0.00- 30.00	136.38
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.795	8.795 (1.074)	119	1798619	50.0000	49.519	70.00- 130.00	100.00
8.795	8.795 (1.074)	117	1834112			71.97- 131.97	101.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	7899842	50.0000	49.490	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	2631057			0.00- 30.00	33.31
9.237	9.237 (1.128)	41	2363844			0.00- 30.00	29.92
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	2792699	50.0000	48.696	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	635503			0.00- 30.00	22.76
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	1890991	50.0000	48.473	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	564826			0.00- 30.00	29.87
75 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	322848	50.0000	41.424	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	3735777			0.00- 30.00	1157.13
9.624	9.624 (0.956)	71	966967			0.00- 30.00	299.51
80 Trichloroethene					CAS #: 79-01-6		
10.481	10.481 (1.041)	95	1127151	50.0000	46.886	70.00- 130.00	100.00
10.481	10.481 (1.041)	130	1074741			65.35- 125.35	95.35
10.481	10.481 (1.041)	97	733182			35.05- 95.05	65.05
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	1212312	50.0000	48.529	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	889293			43.36- 103.36	73.36
10.979	10.979 (1.091)	41	1119289			62.33- 122.33	92.33
84 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	628761	50.0000	48.910	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	740218			87.73- 147.73	117.73
11.200	11.200 (1.113)	57	250012			0.00- 30.00	39.76
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	1785638	50.0000	50.279	70.00- 130.00	100.00
11.532	11.532 (1.146)	85	1129938			33.28- 93.28	63.28
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	1251269	50.0000	48.833	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	404698			2.34- 62.34	32.34
12.445	12.445 (1.236)	39	1383202			80.54- 140.54	110.54
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	1242393	50.0000	50.554	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	4006168			0.00- 30.00	322.46
12.721	12.721 (1.264)	85	334037			0.00- 30.00	26.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	2697941	50.0000	48.986	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	1587962			28.86- 88.86	58.86
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1439559	50.0000	50.788	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	447190			1.06- 61.06	31.06
13.468	13.468 (0.892)	39	1382710			66.05- 126.05	96.05
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	913026	50.0000	47.713	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	563497			31.72- 91.72	61.72
13.744	13.744 (0.910)	83	750381			52.19- 112.19	82.19
102 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	1117843	50.0000	46.709	70.00- 130.00	100.00
13.799	13.799 (0.914)	129	940032			54.09- 114.09	84.09
13.799	13.799 (0.914)	131	920420			52.34- 112.34	82.34
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	1705223	50.0000	47.659	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	4003631			204.79- 264.79	234.79
14.131	14.131 (0.936)	100	215039			0.00- 30.00	12.61
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1530062	50.0000	49.116	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	1187608			0.00- 30.00	77.62
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	1466592	50.0000	50.145	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	1356701			62.51- 122.51	92.51
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	2111756	50.0000	45.712	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	696282			2.97- 62.97	32.97
15.154	15.154 (1.004)	77	1366218			34.70- 94.70	64.70
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	1176670	50.0000	51.829	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	4011717			0.00- 30.00	340.94
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	1446967	50.0000	48.954	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	3292215			0.00- 30.00	227.53
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	1347497	50.0000	48.206	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	3238877			210.36- 270.36	240.36
115 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	2157926	50.0000	52.817	70.00- 130.00	100.00
16.011	16.011 (1.060)	78	1329527			31.61- 91.61	61.61
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1344664	50.0000	50.367	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	697697			21.89- 81.89	51.89
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	2042509	50.0000	46.782	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	1339122			35.56- 95.56	65.56
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	4892980	50.0000	50.981	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	1370048			0.00- 58.00	28.00
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	3867275	50.0000	48.058	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	1829395			0.00- 30.00	47.30
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	4293478	50.0000	49.692	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	1848724			13.06- 73.06	43.06
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	2603043	50.0000	45.963	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	1652604			0.00- 30.00	63.49
17.836	17.836 (1.181)	111	1199103			0.00- 30.00	46.07
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	2184894	50.0000	48.787	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	1424849			0.00- 30.00	65.21
17.919	17.919 (1.187)	111	1044325			0.00- 30.00	47.80
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.057	18.057 (1.196)	91	3978618	50.0000	53.248	70.00- 130.00	100.00
18.057	18.057 (1.196)	126	670352			0.00- 30.00	16.85
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	2604216	50.0000	44.329	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	1659847			33.74- 93.74	63.74
18.279	18.279 (1.211)	111	1180710			15.34- 75.34	45.34

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1813598	50.0000	43.898	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	1725272			65.13- 125.13	95.13
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1503130	50.0000	43.906	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	897376			29.70- 89.70	59.70
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	5564453	50.0000	50.110	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	1167670			0.00- 30.00	20.98
16.924	16.924 (1.121)	105	195614			0.00- 30.00	3.52
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	4265763	50.0000	49.949	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	1113653			0.00- 30.00	26.11
16.426	16.426 (1.088)	51	874603			0.00- 30.00	20.50
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	5669868	50.0000	46.232	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	729925			0.00- 30.00	12.87
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	3288486	50.0000	46.346	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	1973329			0.00- 30.00	60.01
3.514	3.514 (0.429)	72	153849			0.00- 30.00	4.68
21 Butane					CAS #: 106-97-8		
2.767	2.767 (0.338)	58	545387	50.0000	47.117	70.00- 130.00	100.00
2.740	2.740 (0.335)	43	4300789			0.00- 30.00	788.58
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	1639531	50.0000	48.227	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	831057			0.00- 30.00	50.69
10.703	10.703 (1.063)	55	2454744			0.00- 30.00	149.72

Report Date: 30-May-2007 15:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052915.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	313773	0.00
79 1,4-Difluorobenze	1277249	766349	1788149	1277249	0.00
108 Chlorobenzene-d5	1008759	605255	1412263	1008759	0.00

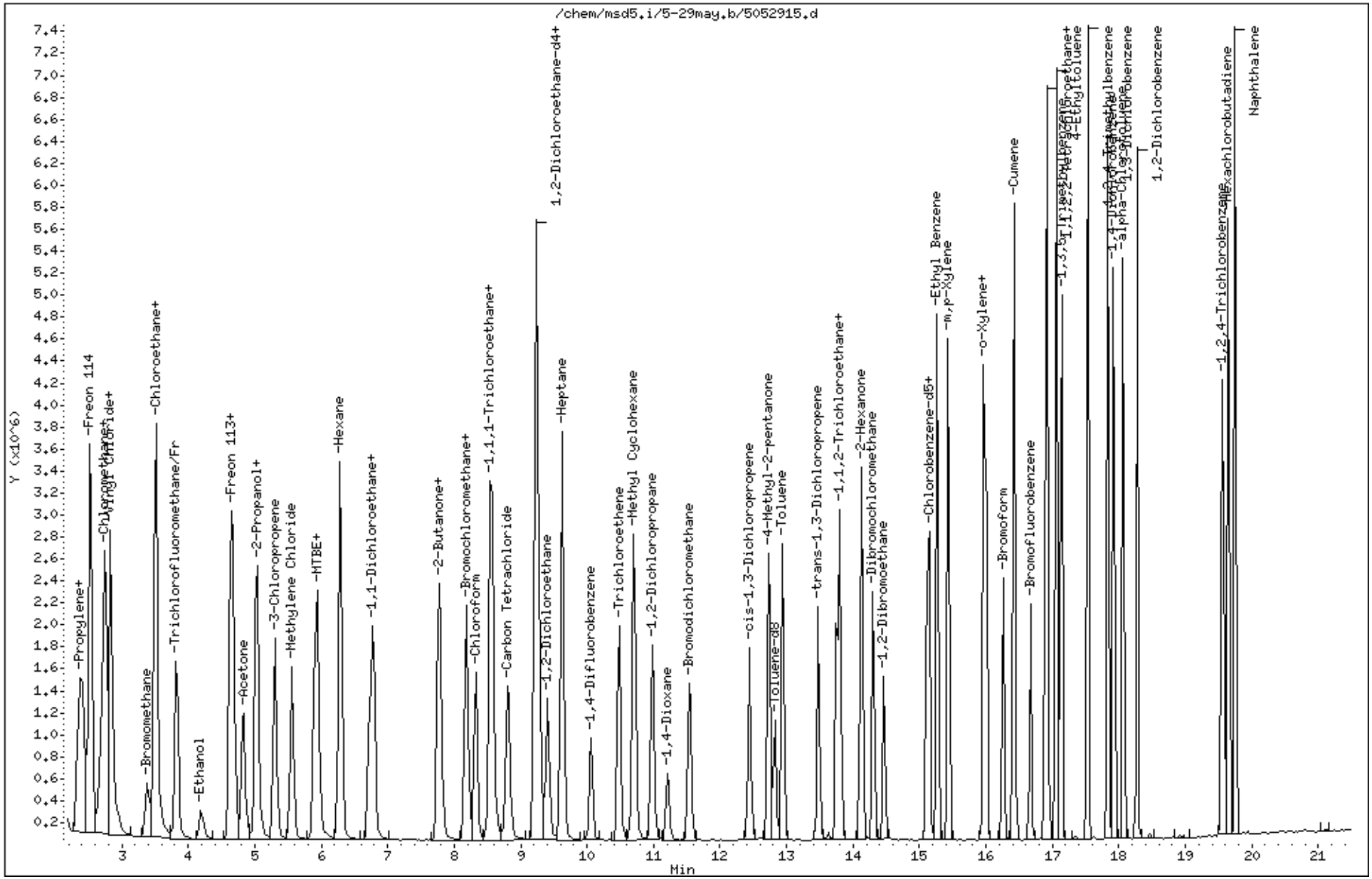
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-29may.b/5052915.d
Date : 29-MAY-2007 17:34
Client ID: Level 5
Sample Info: 50mL #1487-288

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052916.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 29-MAY-2007 18:02
Operator : JG Inst ID: msd5.i
Smp Info : 100mL #1487-288
Misc Info : 200ppbv-100ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 18:02 Cal File: 5052916.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 57 Bromochloromethane					CAS #: 74-97-5		
8.187	8.187 (1.000)	130	308132	25.0000		70.00- 130.00	100.00
8.187	8.187 (1.000)	128	247507			50.32- 110.32	80.32
8.187	8.187 (1.000)	49	991965			291.93- 351.93	321.93
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	1290059	25.0000		70.00- 130.00	100.00
10.067	10.067 (1.000)	88	229089			0.00- 47.76	17.76
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	997837	25.0000		70.00- 130.00	100.00
15.099	15.099 (1.000)	82	634003			33.54- 93.54	63.54
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.265 (1.132)	65	631345	25.0000	25.560	70.00- 130.00	100.00
9.265	9.265 (1.132)	67	353451			25.98- 85.98	55.98
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	1169696	25.0000	24.910	70.00- 130.00	100.00
12.832	12.832 (1.275)	70	129202			0.00- 41.05	11.05

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	772486			36.04- 96.04	66.04
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	618126	25.0000	24.655	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	1047686			139.49- 199.49	169.49
16.675	16.675 (1.104)	176	616660			69.76- 129.76	99.76
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.287)	41	3879844	100.000	94.407	70.00- 130.00	100.00
2.353	2.353 (0.287)	42	2597832			36.96- 96.96	66.96
2.353	2.353 (0.287)	39	2626382			37.69- 97.69	67.69
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.294)	85	5033193	100.000	92.069	70.00- 130.00	100.00
2.408	2.408 (0.294)	87	1591457			1.62- 61.62	31.62
3 Freon 114					CAS #: 76-14-2		
2.546	2.546 (0.311)	135	5101322	100.000	97.568	70.00- 130.00	100.00
2.546	2.546 (0.311)	137	1608156			1.52- 61.52	31.52
4 Chloromethane					CAS #: 74-87-3		
2.685	2.685 (0.328)	50	4782731	100.000	96.899	70.00- 130.00	100.00
2.685	2.685 (0.328)	52	1411565			0.00- 59.51	29.51
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.348)	62	4066850	100.000	101.33	70.00- 130.00	100.00
2.850	2.850 (0.348)	64	1185286			0.00- 59.15	29.15
6 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.348)	54	4016871	100.000	100.83	70.00- 130.00	100.00
2.850	2.850 (0.348)	39	4905143			92.11- 152.11	122.11
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.412)	94	2359109	100.000	98.942	70.00- 130.00	100.00
3.376	3.376 (0.412)	96	2220516			64.13- 124.13	94.13
8 Chloroethane					CAS #: 75-00-3		
3.514	3.514 (0.429)	64	2023968	100.000	95.097	70.00- 130.00	100.00
3.514	3.514 (0.429)	49	644239			1.83- 61.83	31.83
3.514	3.514 (0.429)	66	554266			0.00- 57.39	27.39
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.470)	101	5484992	100.000	99.531	70.00- 130.00	100.00
3.846	3.846 (0.470)	103	3517416			34.13- 94.13	64.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.233	4.233 (0.517)	45	1569037	100.000	92.806	70.00- 130.00	100.00
4.233	4.233 (0.517)	43	305119			0.00- 49.45	19.45
4.233	4.233 (0.517)	46	658234			11.95- 71.95	41.95
19 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.568)	151	3409505	100.000	101.05	70.00- 130.00	100.00
4.648	4.648 (0.568)	153	2148525			33.02- 93.02	63.02
4.648	4.648 (0.568)	101	4406174			99.23- 159.23	129.23
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.675 (0.571)	61	5199006	100.000	98.815	70.00- 130.00	100.00
4.675	4.675 (0.571)	96	2434705			16.83- 76.83	46.83
4.675	4.675 (0.571)	98	1570825			0.21- 60.21	30.21
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.591)	58	1868628	100.000	95.214	70.00- 130.00	100.00
4.841	4.841 (0.591)	43	6688576			327.94- 387.94	357.94
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.615)	45	8032048	100.000	93.908	70.00- 130.00	100.00
5.035	5.035 (0.615)	43	1545550			0.00- 49.24	19.24
5.035	5.035 (0.615)	59	260764			0.00- 33.25	3.25
25 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.615)	76	7084508	100.000	97.803	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.649)	76	1204311	100.000	98.405	70.00- 130.00	100.00
5.311	5.311 (0.649)	41	6149635			480.64- 540.64	510.64
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.560 (0.679)	49	4779654	100.000	96.863	70.00- 130.00	100.00
5.560	5.560 (0.679)	84	1979250			11.41- 71.41	41.41
5.560	5.560 (0.679)	51	1413858			0.00- 59.58	29.58
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.720)	73	4104171	100.000	106.61	70.00- 130.00	100.00
5.892	5.892 (0.720)	57	1560239			8.02- 68.02	38.02
5.892	5.892 (0.720)	41	1655494			10.34- 70.34	40.34
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.726)	96	2580935	100.000	98.377	70.00- 130.00	100.00
5.947	5.947 (0.726)	61	4989046			163.30- 223.30	193.30
5.947	5.947 (0.726)	98	1610606			32.40- 92.40	62.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.767)	57	6403104	100.000	97.072	70.00- 130.00	100.00
6.279	6.279 (0.767)	43	4875282			46.14- 106.14	76.14
6.279	6.279 (0.767)	86	736385			0.00- 41.50	11.50
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.821)	63	5207169	100.000	99.236	70.00- 130.00	100.00
6.721	6.721 (0.821)	65	1483351			0.00- 58.49	28.49
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	1024798	100.000	101.10	70.00- 130.00	100.00
7.800	7.800 (0.953)	43	8335090			783.34- 843.34	813.34
7.800	7.800 (0.953)	57	545182			23.20- 83.20	53.20
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	4014716	100.000	98.511	70.00- 130.00	100.00
7.772	7.772 (0.949)	96	2145130			23.43- 83.43	53.43
7.772	7.772 (0.949)	98	1366850			4.05- 64.05	34.05
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	4868887	100.000	92.617	70.00- 130.00	100.00
8.187	8.187 (1.000)	71	889880			0.00- 48.28	18.28
8.187	8.187 (1.000)	72	960479			0.00- 49.73	19.73
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.017)	83	3751320	100.000	99.798	70.00- 130.00	100.00
8.325	8.325 (1.017)	85	2451973			35.36- 95.36	65.36
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.047)	97	4055971	100.000	99.068	70.00- 130.00	100.00
8.574	8.574 (1.047)	99	2605972			34.25- 94.25	64.25
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.044)	84	2747098	100.000	98.802	70.00- 130.00	100.00
8.546	8.546 (1.044)	56	5740280			178.96- 238.96	208.96
8.546	8.546 (1.044)	41	3527065			98.39- 158.39	128.39
63 Vinyl Acetate					CAS #: 108-05-4		
6.777	6.777 (0.828)	86	630955	100.000	103.23	70.00- 130.00	100.00
6.777	6.777 (0.828)	43	11341423			1767.50-1827.50	1797.50
6.777	6.777 (0.828)	42	849118			104.58- 164.58	134.58
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	3558381	100.000	99.761	70.00- 130.00	100.00
8.823	8.823 (1.078)	117	3745957			75.27- 135.27	105.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.128)	57	15310497	100.000	97.672	70.00- 130.00	100.00
9.237	9.237 (1.128)	56	5039229			2.91- 62.91	32.91
9.237	9.237 (1.128)	41	4555569			0.00- 59.75	29.75
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	5399733	100.000	93.220	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	1243997			0.00- 53.04	23.04
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	3831760	100.000	97.248	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	1171222			0.57- 60.57	30.57
75 Heptane					CAS #: 142-82-5		
9.625	9.625 (0.956)	100	679599	100.000	86.332	70.00- 130.00	100.00
9.625	9.625 (0.956)	43	7433656			1063.83-1123.83	1093.83
9.625	9.625 (0.956)	71	1953286			257.42- 317.42	287.42
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	2278344	100.000	93.830	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	2102331			62.27- 122.27	92.27
10.482	10.482 (1.041)	97	1474171			34.70- 94.70	64.70
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	2413976	100.000	95.673	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	1824908			45.60- 105.60	75.60
10.979	10.979 (1.091)	41	2274016			64.20- 124.20	94.20
84 1,4-Dioxane					CAS #: 123-91-1		
11.201	11.201 (1.113)	88	1187787	100.000	91.478	70.00- 130.00	100.00
11.201	11.201 (1.113)	58	1452095			92.25- 152.25	122.25
11.201	11.201 (1.113)	57	491962			11.42- 71.42	41.42
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	3609641	100.000	100.63	70.00- 130.00	100.00
11.532	11.532 (1.146)	85	2290045			33.44- 93.44	63.44
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	2612482	100.000	100.94	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	813057			1.12- 61.12	31.12
12.445	12.445 (1.236)	39	2745467			75.09- 135.09	105.09
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	2456307	100.000	98.957	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	8030829			296.95- 356.95	326.95
12.721	12.721 (1.264)	85	678307			0.00- 57.61	27.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	5347388	100.000	96.128	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	3160182			29.10- 89.10	59.10
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	2877329	100.000	102.62	70.00- 130.00	100.00
13.468	13.468 (0.892)	77	942837			2.77- 62.77	32.77
13.468	13.468 (0.892)	39	2767706			66.19- 126.19	96.19
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	1839021	100.000	97.156	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	1112402			30.49- 90.49	60.49
13.744	13.744 (0.910)	83	1498571			51.49- 111.49	81.49
102 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	2197559	100.000	92.830	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	1844801			53.95- 113.95	83.95
13.800	13.800 (0.914)	131	1772251			50.65- 110.65	80.65
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	3394161	100.000	95.901	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	8110792			208.96- 268.96	238.96
14.131	14.131 (0.936)	100	433695			0.00- 42.78	12.78
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	3095365	100.000	100.45	70.00- 130.00	100.00
14.297	14.297 (0.947)	127	2438261			48.77- 108.77	78.77
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	2872558	100.000	99.293	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	2696963			63.89- 123.89	93.89
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	4259591	100.000	93.214	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	1394183			2.73- 62.73	32.73
15.154	15.154 (1.004)	77	2739957			34.32- 94.32	64.32
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	2277050	100.000	101.40	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	8020329			322.22- 382.22	352.22
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	2838789	100.000	97.094	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	6613844			202.98- 262.98	232.98
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	2642508	100.000	95.570	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	6440442			213.72- 273.72	243.72
115 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	4239974	100.000	104.91	70.00- 130.00	100.00
16.012	16.012 (1.060)	78	2624755			31.90- 91.90	61.90
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	2726657	100.000	103.25	70.00- 130.00	100.00
16.260	16.260 (1.077)	171	1440322			22.82- 82.82	52.82
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	4047765	100.000	93.726	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	2647483			35.41- 95.41	65.41
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	9535697	100.000	100.44	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	2702404			0.00- 58.34	28.34
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	7805911	100.000	98.064	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	3635863			16.58- 76.58	46.58
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	8458160	100.000	98.966	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	3622293			12.83- 72.83	42.83
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	5183315	100.000	92.525	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	3271653			33.12- 93.12	63.12
17.836	17.836 (1.181)	111	2372815			15.78- 75.78	45.78
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	4281403	100.000	96.646	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	2754246			34.33- 94.33	64.33
17.919	17.919 (1.187)	111	2075867			18.49- 78.49	48.49
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	8386201	100.000	113.46	70.00- 130.00	100.00
18.058	18.058 (1.196)	126	1430784			0.00- 47.06	17.06
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	5158293	100.000	88.766	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	3250770			33.02- 93.02	63.02
18.279	18.279 (1.211)	111	2421915			16.95- 76.95	46.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	3741818	100.000	91.563	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	3462449			62.53- 122.53	92.53
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	2851907	100.000	84.214	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	1744085			31.16- 91.16	61.16
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	11020317	100.000	100.33	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	2262141			0.00- 50.53	20.53
16.924	16.924 (1.121)	105	387472			0.00- 33.52	3.52
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	8302219	100.000	98.277	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	2117285			0.00- 55.50	25.50
16.426	16.426 (1.088)	51	1730031			0.00- 50.84	20.84
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	11598716	100.000	95.612	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	1496376			0.00- 42.90	12.90
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.429)	43	6604801	100.000	94.789	70.00- 130.00	100.00
3.514	3.514 (0.429)	57	3984828			30.33- 90.33	60.33
3.514	3.514 (0.429)	72	310048			0.00- 34.69	4.69
21 Butane					CAS #: 106-97-8		
2.767	2.767 (0.338)	58	1061151	100.000	93.353	70.00- 130.00	100.00
2.767	2.767 (0.338)	43	8524222			773.30- 833.30	803.30
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	3179405	100.000	92.594	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	1608008			20.58- 80.58	50.58
10.703	10.703 (1.063)	55	4935422			125.23- 185.23	155.23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052916.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-100ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	308132	-1.80
79 1,4-Difluorobenze	1277249	766349	1788149	1290059	1.00
108 Chlorobenzene-d5	1008759	605255	1412263	997837	-1.08

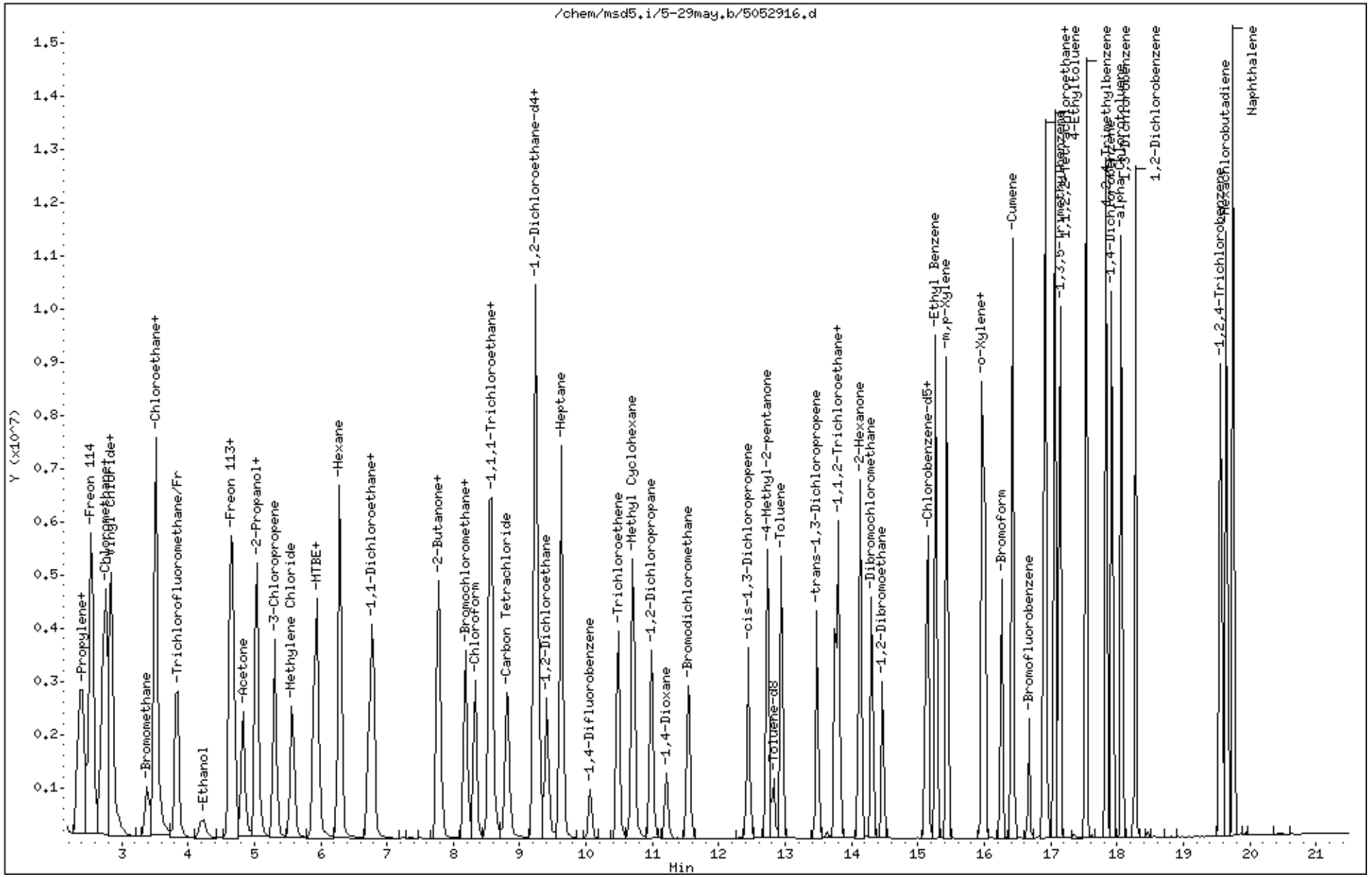
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.19	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-29may.b/5052916.d
Date : 29-MAY-2007 18:02
Client ID: Level 6
Sample Info: 100mL #1487-288

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

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-29may.b/5052917.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 29-MAY-2007 18:31
Operator : JG Inst ID: msd5.i
Smp Info : 200mL #1487-288
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd5.i/5-29may.b/t14q529a.m
Meth Date : 30-May-2007 15:39 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 18:31 Cal File: 5052917.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04MDL+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane					CAS #: 74-97-5			
8.214	8.214 (1.000)	130	311601	25.0000		70.00- 130.00		100.00
8.214	8.214 (1.000)	128	254347			50.32- 110.32		81.63
8.187	8.187 (1.000)	49	1022869			291.93- 351.93		328.26
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	1306041	25.0000		70.00- 130.00		100.00
10.067	10.067 (1.000)	88	235493			0.00- 47.76		18.03
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	1015050	25.0000		70.00- 130.00		100.00
15.099	15.099 (1.000)	82	657859			33.54- 93.54		64.81
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.265	9.265 (1.128)	65	707999	25.0000	28.344	70.00- 130.00		100.00
9.265	9.265 (1.128)	67	454516			25.98- 85.98		64.20
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	1192853	25.0000	25.092	70.00- 130.00		100.00
12.832	12.832 (1.275)	70	122977			0.00- 41.05		10.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	847642			36.04- 96.04	71.06
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	653382	25.0000	25.620	70.00- 130.00	100.00
16.675	16.675 (1.104)	95	1082477			139.49- 199.49	165.67
16.675	16.675 (1.104)	176	631949			69.76- 129.76	96.72
1 Propylene					CAS #: 115-07-1		
2.353	2.353 (0.286)	41	7610915	200.000	183.13	70.00- 130.00	100.00
2.353	2.353 (0.286)	42	5059607			36.96- 96.96	66.48
2.353	2.353 (0.286)	39	5181095			37.69- 97.69	68.07
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.408	2.408 (0.293)	85	11120306	200.000	201.15	70.00- 130.00	100.00(A)
2.408	2.408 (0.293)	87	3600922			1.62- 61.62	32.38
3 Freon 114					CAS #: 76-14-2		
2.574	2.574 (0.313)	135	9791972	200.000	185.20	70.00- 130.00	100.00
2.574	2.574 (0.313)	137	3092102			1.52- 61.52	31.58
4 Chloromethane					CAS #: 74-87-3		
2.712	2.712 (0.330)	50	8634661	200.000	172.99	70.00- 130.00	100.00
2.712	2.712 (0.330)	52	2502871			0.00- 59.51	28.99
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.850 (0.347)	62	7986588	200.000	196.77	70.00- 130.00	100.00
2.850	2.850 (0.347)	64	2363393			0.00- 59.15	29.59
6 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.347)	54	7889222	200.000	195.82	70.00- 130.00	100.00
2.850	2.850 (0.347)	39	9912886			92.11- 152.11	125.65
7 Bromomethane					CAS #: 74-83-9		
3.376	3.376 (0.411)	94	4669479	200.000	193.66	70.00- 130.00	100.00
3.376	3.376 (0.411)	96	4386551			64.13- 124.13	93.94
8 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.431)	64	3937068	200.000	182.92	70.00- 130.00	100.00
3.542	3.542 (0.431)	49	1326662			1.83- 61.83	33.70
3.542	3.542 (0.431)	66	1093780			0.00- 57.39	27.78
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.468)	101	10954255	200.000	196.56	70.00- 130.00	100.00
3.846	3.846 (0.468)	103	7062299			34.13- 94.13	64.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.260	4.260 (0.519)	45	3233825	200.000	189.14	70.00- 130.00	100.00
4.260	4.260 (0.519)	43	606805			0.00- 49.45	18.76
4.260	4.260 (0.519)	46	1345732			11.95- 71.95	41.61
19 Freon 113					CAS #: 76-13-1		
4.648	4.648 (0.566)	151	6592063	200.000	193.19	70.00- 130.00	100.00
4.648	4.648 (0.566)	153	4201876			33.02- 93.02	63.74
4.648	4.648 (0.566)	101	8659295			99.23- 159.23	131.36
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.703	4.703 (0.573)	61	10409747	200.000	195.65	70.00- 130.00	100.00
4.703	4.703 (0.573)	96	4849812			16.83- 76.83	46.59
4.703	4.703 (0.573)	98	3028738			0.21- 60.21	29.10
22 Acetone					CAS #: 67-64-1		
4.841	4.841 (0.589)	58	3838077	200.000	193.39	70.00- 130.00	100.00
4.841	4.841 (0.589)	43	13290914			327.94- 387.94	346.29
26 2-Propanol					CAS #: 67-63-0		
5.035	5.035 (0.613)	45	16172441	200.000	186.98	70.00- 130.00	100.00
5.035	5.035 (0.613)	43	3066653			0.00- 49.24	18.96
5.035	5.035 (0.613)	59	522092			0.00- 33.25	3.23
25 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.035 (0.613)	76	14269656	200.000	194.80	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.311 (0.647)	76	2377652	200.000	192.12	70.00- 130.00	100.00
5.311	5.311 (0.647)	41	12128414			480.64- 540.64	510.10
29 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.680)	49	9422323	200.000	188.82	70.00- 130.00	100.00
5.588	5.588 (0.680)	84	3913369			11.41- 71.41	41.53
5.588	5.588 (0.680)	51	2783900			0.00- 59.58	29.55
31 MTBE					CAS #: 1634-04-4		
5.892	5.892 (0.717)	73	7067928	200.000	181.55	70.00- 130.00	100.00
5.892	5.892 (0.717)	57	2729388			8.02- 68.02	38.62
5.892	5.892 (0.717)	41	2774227			10.34- 70.34	39.25
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.947 (0.724)	96	5006508	200.000	188.71	70.00- 130.00	100.00
5.947	5.947 (0.724)	61	9884360			163.30- 223.30	197.43
5.947	5.947 (0.724)	98	3206398			32.40- 92.40	64.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.279 (0.764)	57	12684813	200.000	190.16	70.00- 130.00	100.00
6.279	6.279 (0.764)	43	9609118			46.14- 106.14	75.75
6.307	6.307 (0.768)	86	1442359			0.00- 41.50	11.37
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.721 (0.818)	63	10408193	200.000	196.15	70.00- 130.00	100.00
6.721	6.721 (0.818)	65	3024070			0.00- 58.49	29.05
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.950)	72	2026920	200.000	197.73	70.00- 130.00	100.00
7.800	7.800 (0.950)	43	16911919			783.34- 843.34	834.37
7.800	7.800 (0.950)	57	1096576			23.20- 83.20	54.10
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.946)	61	7881475	200.000	191.24	70.00- 130.00	100.00
7.772	7.772 (0.946)	96	4217655			23.43- 83.43	53.51
7.772	7.772 (0.946)	98	2704729			4.05- 64.05	34.32
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (0.997)	42	9697540	200.000	182.41	70.00- 130.00	100.00
8.187	8.187 (0.997)	71	1752371			0.00- 48.28	18.07
8.187	8.187 (0.997)	72	1915705			0.00- 49.73	19.75
58 Chloroform					CAS #: 67-66-3		
8.325	8.325 (1.013)	83	7517837	200.000	197.77	70.00- 130.00	100.00
8.325	8.325 (1.013)	85	4864330			35.36- 95.36	64.70
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.574 (1.044)	97	8147060	200.000	196.78	70.00- 130.00	100.00
8.574	8.574 (1.044)	99	5190937			34.25- 94.25	63.72
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.546 (1.040)	84	5390315	200.000	191.71	70.00- 130.00	100.00
8.546	8.546 (1.040)	56	11510598			178.96- 238.96	213.54
8.546	8.546 (1.040)	41	7019487			98.39- 158.39	130.22
63 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.828)	86	1265458	200.000	204.74	70.00- 130.00	100.00(A)
6.777	6.777 (0.825)	43	23335670			1767.50-1827.50	1844.05
6.777	6.777 (0.825)	42	1723684			104.58- 164.58	136.21
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.074)	119	7313294	200.000	202.75	70.00- 130.00	100.00(A)
8.823	8.823 (1.074)	117	7567558			75.27- 135.27	103.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.237 (1.125)	57	29998509	200.000	189.24	70.00- 130.00	100.00
9.237	9.237 (1.125)	56	9991359			2.91- 62.91	33.31
9.237	9.237 (1.125)	41	8983000			0.00- 59.75	29.94
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	10596976	200.000	180.71	70.00- 130.00	100.00
9.237	9.237 (0.918)	77	2475897			0.00- 53.04	23.36
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.403 (0.934)	62	7787936	200.000	195.23	70.00- 130.00	100.00
9.403	9.403 (0.934)	64	2300497			0.57- 60.57	29.54
75 Heptane					CAS #: 142-82-5		
9.624	9.624 (0.956)	100	1374422	200.000	172.46	70.00- 130.00	100.00
9.624	9.624 (0.956)	43	15000867			1063.83-1123.83	1091.43
9.624	9.624 (0.956)	71	3890710			257.42- 317.42	283.08
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	4546558	200.000	184.95	70.00- 130.00	100.00
10.482	10.482 (1.041)	130	4231407			62.27- 122.27	93.07
10.482	10.482 (1.041)	97	2923838			34.70- 94.70	64.31
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	10.979 (1.091)	63	4909719	200.000	192.20	70.00- 130.00	100.00
10.979	10.979 (1.091)	62	3592121			45.60- 105.60	73.16
10.979	10.979 (1.091)	41	4487523			64.20- 124.20	91.40
84 1,4-Dioxane					CAS #: 123-91-1		
11.200	11.200 (1.113)	88	2376895	200.000	180.82	70.00- 130.00	100.00
11.200	11.200 (1.113)	58	2881491			92.25- 152.25	121.23
11.200	11.200 (1.113)	57	942507			11.42- 71.42	39.65
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.532 (1.146)	83	7281120	200.000	200.50	70.00- 130.00	100.00(A)
11.532	11.532 (1.146)	85	4622385			33.44- 93.44	63.48
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	5147361	200.000	196.46	70.00- 130.00	100.00
12.445	12.445 (1.236)	77	1635309			1.12- 61.12	31.77
12.445	12.445 (1.236)	39	5600062			75.09- 135.09	108.79
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.721 (1.264)	58	4940698	200.000	196.61	70.00- 130.00	100.00
12.721	12.721 (1.264)	43	16261496			296.95- 356.95	329.13
12.721	12.721 (1.264)	85	1350014			0.00- 57.61	27.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	10572151	200.000	187.73	70.00- 130.00	100.00
12.942	12.942 (1.286)	92	6337907			29.10- 89.10	59.95
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	5849078	200.000	205.08	70.00- 130.00	100.00(A)
13.468	13.468 (0.892)	77	1863853			2.77- 62.77	31.87
13.468	13.468 (0.892)	39	5629501			66.19- 126.19	96.25
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.744 (0.910)	97	3619415	200.000	187.97	70.00- 130.00	100.00
13.744	13.744 (0.910)	99	2250575			30.49- 90.49	62.18
13.744	13.744 (0.910)	83	2943200			51.49- 111.49	81.32
102 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.800 (0.914)	166	4340016	200.000	180.22	70.00- 130.00	100.00
13.800	13.800 (0.914)	129	3646060			53.95- 113.95	84.01
13.800	13.800 (0.914)	131	3440037			50.65- 110.65	79.26
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	6944992	200.000	192.90	70.00- 130.00	100.00
14.131	14.131 (0.936)	43	16514542			208.96- 268.96	237.79
14.131	14.131 (0.936)	100	839072			0.00- 42.78	12.08
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	6326805	200.000	201.84	70.00- 130.00	100.00(A)
14.297	14.297 (0.947)	127	4939086			48.77- 108.77	78.07
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	5668890	200.000	192.63	70.00- 130.00	100.00
14.463	14.463 (0.958)	109	5302620			63.89- 123.89	93.54
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	8453821	200.000	181.86	70.00- 130.00	100.00
15.154	15.154 (1.004)	114	2681212			2.73- 62.73	31.72
15.154	15.154 (1.004)	77	5475393			34.32- 94.32	64.77
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	4440393	200.000	194.38	70.00- 130.00	100.00
15.265	15.265 (1.011)	91	15885893			322.22- 382.22	357.76
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	5576004	200.000	187.48	70.00- 130.00	100.00
15.431	15.431 (1.022)	91	13064272			202.98- 262.98	234.29
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	5184008	200.000	184.31	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	12782837			213.72- 273.72	246.58
115 Styrene					CAS #: 100-42-5		
16.012	16.012 (1.060)	104	8546552	200.000	207.89	70.00- 130.00	100.00(A)
16.012	16.012 (1.060)	78	5250640			31.90- 91.90	61.44
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	5543024	200.000	206.34	70.00- 130.00	100.00(A)
16.260	16.260 (1.077)	171	2832334			22.82- 82.82	51.10
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	7863927	200.000	179.00	70.00- 130.00	100.00
16.896	16.896 (1.119)	85	5093859			35.41- 95.41	64.78
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	15781622	200.000	163.41	70.00- 130.00	100.00
17.062	17.062 (1.130)	120	5346801			0.00- 58.34	33.88
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	15768476	200.000	194.74	70.00- 130.00	100.00
17.145	17.145 (1.135)	120	7195408			16.58- 76.58	45.63
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	15040233	200.000	173.00	70.00- 130.00	100.00
17.532	17.532 (1.161)	120	6888328			12.83- 72.83	45.80
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	9882802	200.000	173.42	70.00- 130.00	100.00
17.836	17.836 (1.181)	148	6212153			33.12- 93.12	62.86
17.836	17.836 (1.181)	111	4630904			15.78- 75.78	46.86
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	8724568	200.000	193.60	70.00- 130.00	100.00
17.919	17.919 (1.187)	148	5439656			34.33- 94.33	62.35
17.919	17.919 (1.187)	111	4133275			18.49- 78.49	47.38
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	16464946	200.000	218.99	70.00- 130.00	100.00(A)
18.058	18.058 (1.196)	126	2840876			0.00- 47.06	17.25
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	9804876	200.000	165.86	70.00- 130.00	100.00
18.279	18.279 (1.211)	148	6227360			33.02- 93.02	63.51
18.279	18.279 (1.211)	111	4801844			16.95- 76.95	48.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	7132880	200.000	171.58	70.00- 130.00	100.00
19.578	19.578 (1.297)	182	6850489			62.53- 122.53	96.04
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	5517576	200.000	160.17	70.00- 130.00	100.00
19.661	19.661 (1.302)	223	3460043			31.16- 91.16	62.71
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	16889779	200.000	151.16	70.00- 130.00	100.00
16.924	16.924 (1.121)	120	4448192			0.00- 50.53	26.34
16.924	16.924 (1.121)	105	763455			0.00- 33.52	4.52
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	16719164	200.000	194.56	70.00- 130.00	100.00
16.426	16.426 (1.088)	120	4205110			0.00- 55.50	25.15
16.426	16.426 (1.088)	51	3534766			0.00- 50.84	21.14
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	17585232	200.000	142.50	70.00- 130.00	100.00
19.744	19.744 (1.308)	127	2898078			0.00- 42.90	16.48
30 Isopentane					CAS #: 78-78-4		
3.514	3.514 (0.428)	43	12983005	200.000	184.25	70.00- 130.00	100.00
3.514	3.514 (0.428)	57	7730301			30.33- 90.33	59.54
3.514	3.514 (0.428)	72	621098			0.00- 34.69	4.78
21 Butane					CAS #: 106-97-8		
2.823	2.823 (0.344)	58	2126624	200.000	185.00	70.00- 130.00	100.00
2.823	2.823 (0.344)	43	16915677			773.30- 833.30	795.42
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.703 (1.063)	83	6373668	200.000	183.35	70.00- 130.00	100.00
10.703	10.703 (1.063)	98	3219742			20.58- 80.58	50.52
10.703	10.703 (1.063)	55	9727631			125.23- 185.23	152.62

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5052917.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-29may.b/t14q529a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 29-MAY-2007
Calibration Time: 17:34
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	313773	188264	439282	311601	-0.69
79 1,4-Difluorobenze	1277249	766349	1788149	1306041	2.25
108 Chlorobenzene-d5	1008759	605255	1412263	1015050	0.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.19	7.86	8.52	8.21	0.34
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

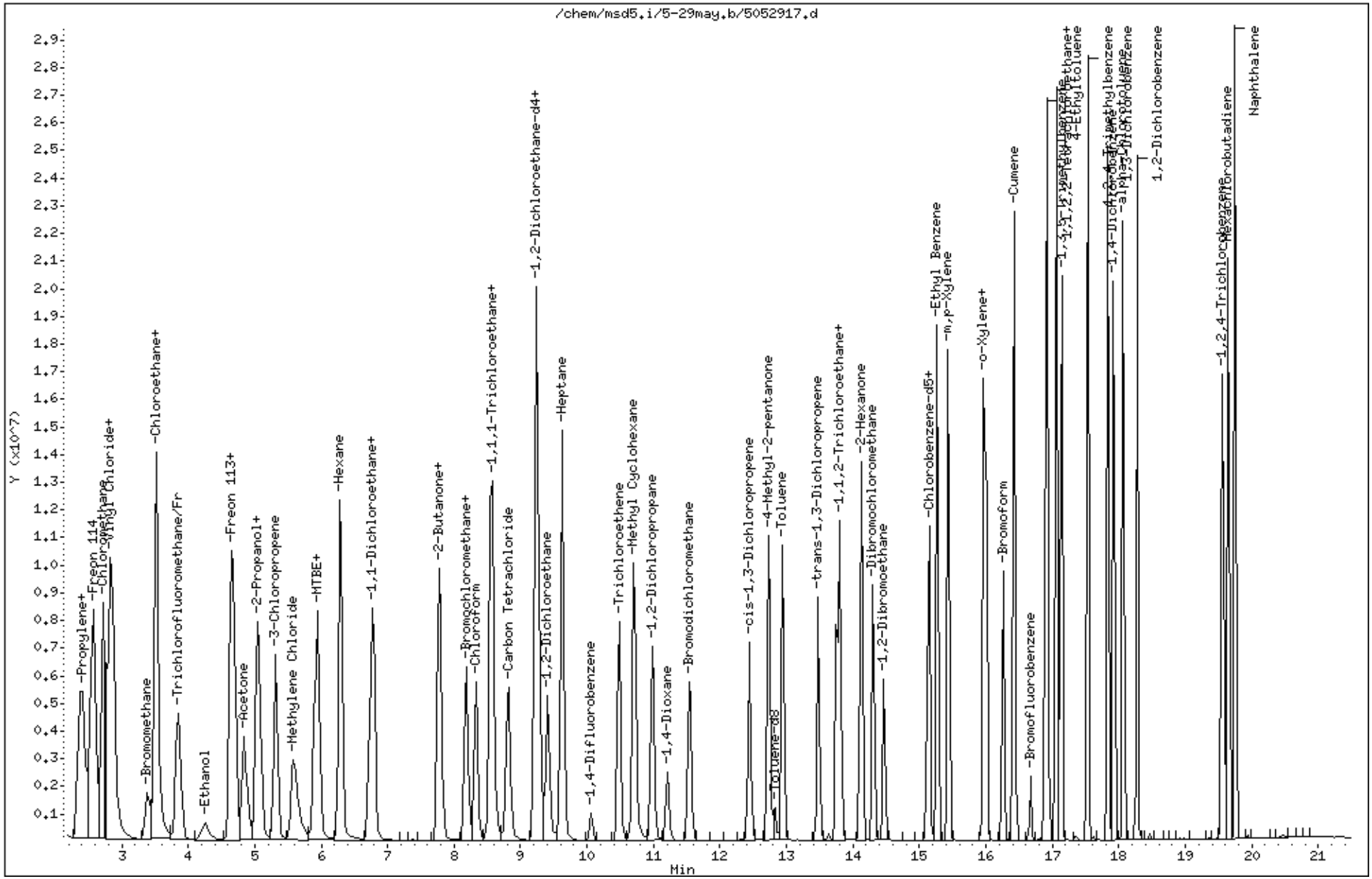
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-29may.b/5052917.d
Date : 29-MAY-2007 18:31
Client ID: Level 7
Sample Info: 200mL #1487-288

Instrument: msd5.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



0136

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0706160-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 10:38 AM**

Compound	%Recovery
Freon 12	119
Freon 114	118
Vinyl Chloride	101
Bromomethane	107
Chloroethane	91
Freon 11	126
1,1-Dichloroethene	95
Freon 113	113
Methylene Chloride	88
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	86
Chloroform	110
1,1,1-Trichloroethane	118
Carbon Tetrachloride	125
Benzene	91
1,2-Dichloroethane	117
Trichloroethene	98
1,2-Dichloropropane	79
cis-1,3-Dichloropropene	101
Toluene	92
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	95
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	100
Chlorobenzene	91
Ethyl Benzene	99
m,p-Xylene	95
o-Xylene	89
Styrene	103
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	91
1,3-Butadiene	96
Hexane	78
Cyclohexane	91

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0706160-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 10:38 AM**	

Compound	**%Recovery**
Heptane	83
Bromodichloromethane	117
Dibromochloromethane	112
Cumene	104
Propylbenzene	100
Chloromethane	102
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	110
Acetone	84
Carbon Disulfide	93
2-Propanol	82
trans-1,2-Dichloroethene	94
2-Butanone (Methyl Ethyl Ketone)	87
Tetrahydrofuran	76
1,4-Dioxane	88
4-Methyl-2-pentanone	82
2-Hexanone	77
Bromoform	117
4-Ethyltoluene	104
Ethanol	86
Methyl tert-butyl ether	133 Q
3-Chloropropene	93
2,2,4-Trimethylpentane	80
Naphthalene	86

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	104	70-130

Report Date: 15-Jun-2007 11:44

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-JUN-2007 10:38
Lab File ID: 5061503.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:42 20:44
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15jun.b/t14q529a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 71 1,2-Dichloroethane-d4	2.00408	2.47027	0.010	-23.26204	30.00000	Averaged
$ 97 Toluene-d8	0.90997	0.92042	0.010	-1.14804	30.00000	Averaged
$ 122 Bromofluorobenzene	0.62813	0.65276	0.010	-3.92177	30.00000	Averaged
1 Propylene	3.33435	3.01076	0.010	9.70489	30.00000	Averaged
2 Dichlorodifluoromethane/Fr1	4.43541	5.29203	0.010	-19.31337	30.00000	Averaged
3 Freon 114	4.24209	5.00505	0.010	-17.98555	30.00000	Averaged
4 Chloromethane	4.00461	4.08326	0.010	-1.96388	30.00000	Averaged
5 Vinyl Chloride	3.25637	3.29353	0.010	-1.14108	30.00000	Averaged
6 1,3-Butadiene	3.23231	3.09084	0.010	4.37675	30.00000	Averaged
7 Bromomethane	1.93451	2.06926	0.010	-6.96590	30.00000	Averaged
8 Chloroethane	1.72680	1.57620	0.010	8.72115	30.00000	Averaged
9 Trichlorofluoromethane/Fr11	4.47116	5.63477	0.010	-26.02456	30.00000	Averaged
13 Ethanol	1.37171	1.17391	0.010	14.41998	30.00000	Averaged
19 Freon 113	2.73760	3.09010	0.010	-12.87604	30.00000	Averaged
20 1,1-Dichloroethene	4.26876	4.04648	0.010	5.20719	30.00000	Averaged
22 Acetone	1.59231	1.33530	0.010	16.14071	30.00000	Averaged
26 2-Propanol	6.93947	5.68886	0.010	18.02169	30.00000	Averaged
25 Carbon Disulfide	5.87706	5.44243	0.010	7.39530	30.00000	Averaged
28 3-Chloropropene	0.99294	0.92307	0.010	7.03676	30.00000	Averaged
29 Methylene Chloride	4.00350	3.52765	0.010	11.88585	30.00000	Averaged
31 MTBE	3.12343	4.15167	0.010	-32.92026	30.00000	Averaged<-
32 trans-1,2-Dichloroethene	2.12856	2.00074	0.010	6.00509	30.00000	Averaged
38 Hexane	5.35177	4.19901	0.010	21.53992	30.00000	Averaged
43 1,1-Dichloroethane	4.25730	3.85859	0.010	9.36555	30.00000	Averaged
53 2-Butanone	0.82245	0.71848	0.010	12.64156	30.00000	Averaged
52 cis-1,2-Dichloroethene	3.30653	2.84970	0.010	13.81576	30.00000	Averaged
56 Tetrahydrofuran	4.26523	3.23962	0.010	24.04591	30.00000	Averaged
58 Chloroform	3.04977	3.37105	0.010	-10.53440	30.00000	Averaged
62 1,1,1-Trichloroethane	3.32174	3.91808	0.010	-17.95277	30.00000	Averaged
61 Cyclohexane	2.25587	2.04918	0.010	9.16200	30.00000	Averaged
63 Vinyl Acetate	0.49588	0.45827	0.010	7.58407	30.00000	Averaged
65 Carbon Tetrachloride	2.89398	3.61822	0.010	-25.02588	30.00000	Averaged
68 2,2,4-Trimethylpentane	12.71810	10.11140	0.010	20.49594	30.00000	Averaged
69 Benzene	1.12252	1.01798	0.010	9.31235	30.00000	Averaged
72 1,2-Dichloroethane	0.76357	0.89420	0.010	-17.10756	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-JUN-2007 10:38
Lab File ID: 5061503.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:42 20:44
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15jun.b/t14q529a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 Heptane	0.15255	0.12620	0.010	17.27401	30.00000	Averaged
80 Trichloroethene	0.47055	0.46355	0.010	1.48820	30.00000	Averaged
82 1,2-Dichloropropane	0.48896	0.38596	0.010	21.06587	30.00000	Averaged
84 1,4-Dioxane	0.25162	0.22140	0.010	12.01027	30.00000	Averaged
85 Bromodichloromethane	0.69513	0.81300	0.010	-16.95543	30.00000	Averaged
90 cis-1,3-Dichloropropene	0.50154	0.50500	0.010	-0.69059	30.00000	Averaged
91 4-Methyl-2-pentanone	0.48102	0.39725	0.010	17.41611	30.00000	Averaged
99 Toluene	1.07800	0.99818	0.010	7.40444	30.00000	Averaged
100 trans-1,3-Dichloropropene	0.70246	0.77786	0.010	-10.73378	30.00000	Averaged
101 1,1,2-Trichloroethane	0.47424	0.45178	0.010	4.73566	30.00000	Averaged
102 Tetrachloroethene	0.59311	0.57497	0.010	3.05760	30.00000	Averaged
103 2-Hexanone	0.88672	0.68553	0.010	22.68937	30.00000	Averaged
105 Dibromochloromethane	0.77203	0.86242	0.010	-11.70756	30.00000	Averaged
106 1,2-Dibromoethane	0.72482	0.72495	0.010	-0.01833	30.00000	Averaged
109 Chlorobenzene	1.14489	1.04460	0.010	8.75967	30.00000	Averaged
111 Ethyl Benzene	0.56264	0.55779	0.010	0.86337	30.00000	Averaged
113 m,p-Xylene	0.73252	0.69639	0.010	4.93289	30.00000	Averaged
114 o-Xylene	0.69275	0.61705	0.010	10.92757	30.00000	Averaged
115 Styrene	1.01254	1.04080	0.010	-2.79136	30.00000	Averaged
118 Bromoform	0.66163	0.77271	0.010	-16.78737	30.00000	Averaged
123 1,1,2,2-Tetrachloroethane	1.08202	0.95988	0.010	11.28843	30.00000	Averaged
126 4-Ethyltoluene	2.37857	2.47563	0.010	-4.08069	30.00000	Averaged
128 1,3,5-Trimethylbenzene	1.99431	2.15553	0.010	-8.08398	30.00000	Averaged
131 1,2,4-Trimethylbenzene	2.14127	2.26996	0.010	-6.00991	30.00000	Averaged
138 1,3-Dichlorobenzene	1.40355	1.31692	0.010	6.17241	30.00000	Averaged
141 1,4-Dichlorobenzene	1.10990	1.08722	0.010	2.04279	30.00000	Averaged
143 alpha-Chlorotoluene	1.85176	2.02669	0.010	-9.44627	30.00000	Averaged
146 1,2-Dichlorobenzene	1.45593	1.32123	0.010	9.25239	30.00000	Averaged
154 1,2,4-Trichlorobenzene	1.02387	1.01802	0.010	0.57140	30.00000	Averaged
155 Hexachlorobutadiene	0.84846	0.93092	0.010	-9.71965	30.00000	Averaged
124 Propylbenzene	2.75198	2.76060	0.010	-0.31321	30.00000	Averaged
119 Cumene	2.11652	2.19999	0.010	-3.94378	30.00000	Averaged
156 Naphthalene	3.03934	2.62174	0.010	13.73972	30.00000	Averaged
30 Isopentane	5.65336	5.24411	0.010	7.23898	30.00000	Averaged
21 Butane	0.92225	0.83261	0.010	9.72011	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 15-JUN-2007 10:38
Lab File ID: 5061503.d Init. Cal. Date(s): 29-MAY-2007 29-MAY-2007
Analysis Type: AIR Init. Cal. Times: 15:42 20:44
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd5.i/5-15jun.b/t14q529a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
96 Methyl Cyclohexane	0.66541	0.57605	0.010	13.42958	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15jun.b/5061503.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 15-JUN-2007 10:38
Operator : jdg Inst ID: msd5.i
Smp Info : 50mL #1487-286
Misc Info : 200ppbv-50ppbv
Comment :
Method : /var/chem/msd5.i/5-15jun.b/t14q529a.m
Meth Date : 15-Jun-2007 11:44 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 57 Bromochloromethane					CAS #: 74-97-5			
8.214	8.214 (1.000)	130	221444	25.0000		80.00- 120.00		100.00
8.214	8.214 (1.000)	128	172637			47.96- 107.96		77.96
8.214	8.214 (1.000)	49	613297			246.95- 306.95		276.95
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
10.067	10.067 (1.000)	114	867858	25.0000		80.00- 120.00		100.00
10.067	10.067 (1.000)	88	171228			0.00- 49.73		19.73
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
15.099	15.099 (1.000)	117	685113	25.0000		80.00- 120.00		100.00
15.099	15.099 (1.000)	82	456249			33.54- 93.54		66.59
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.293	9.293 (1.131)	65	547027	25.0000	30.816	80.00- 120.00		100.00
9.293	9.293 (1.131)	67	273575			25.98- 85.98		50.01
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.832	12.832 (1.275)	98	798791	25.0000	25.287	80.00- 120.00		100.00
12.832	12.832 (1.275)	70	100394			0.00- 41.05		12.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	526247			36.04- 96.04	65.88
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	447214	25.0000	25.980	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	760601			140.08- 200.08	170.08
16.675	16.675 (1.104)	176	428461			65.81- 125.81	95.81
1 Propylene					CAS #: 115-07-1		
2.380	2.380 (0.290)	41	1333429	50.0000	45.148	80.00- 120.00	100.00
2.380	2.380 (0.290)	42	904150			36.96- 96.96	67.81
2.380	2.380 (0.290)	39	989568			37.69- 97.69	74.21
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.436	2.436 (0.296)	85	2343778	50.0000	59.657	80.00- 120.00	100.00
2.436	2.436 (0.296)	87	738838			1.62- 61.62	31.52
3 Freon 114					CAS #: 76-14-2		
2.574	2.574 (0.313)	135	2216678	50.0000	58.993	80.00- 120.00	100.00
2.574	2.574 (0.313)	137	702984			1.71- 61.71	31.71
4 Chloromethane					CAS #: 74-87-3		
2.712	2.712 (0.330)	50	1808426	50.0000	50.982	80.00- 120.00	100.00
2.712	2.712 (0.330)	52	533096			0.00- 59.51	29.48
5 Vinyl Chloride					CAS #: 75-01-4		
2.878	2.878 (0.350)	62	1458663	50.0000	50.570	80.00- 120.00	100.00
2.878	2.878 (0.350)	64	398485			0.00- 59.15	27.32
6 1,3-Butadiene					CAS #: 106-99-0		
2.850	2.850 (0.347)	54	1368895	50.0000	47.812	80.00- 120.00	100.00
2.850	2.850 (0.347)	39	1799562			92.11- 152.11	131.46
7 Bromomethane					CAS #: 74-83-9		
3.403	3.403 (0.414)	94	916452	50.0000	53.483	80.00- 120.00	100.00
3.403	3.403 (0.414)	96	878097			65.81- 125.81	95.81
8 Chloroethane					CAS #: 75-00-3		
3.542	3.542 (0.431)	64	698080	50.0000	45.639	80.00- 120.00	100.00
3.542	3.542 (0.431)	49	245593			1.83- 61.83	35.18
3.542	3.542 (0.431)	66	217060			0.00- 57.39	31.09
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.846	3.846 (0.468)	101	2495570	50.0000	63.012	80.00- 120.00	100.00
3.846	3.846 (0.468)	103	1640856			35.75- 95.75	65.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.233	4.233 (0.515)	45	519910	50.0000	42.790	80.00- 120.00	100.00
4.205	4.205 (0.512)	43	110216			0.00- 49.45	21.20
4.205	4.205 (0.512)	46	212156			11.95- 71.95	40.81
19 Freon 113					CAS #: 76-13-1		
4.675	4.675 (0.569)	151	1368567	50.0000	56.438	80.00- 120.00	100.00
4.675	4.675 (0.569)	153	869369			33.52- 93.52	63.52
4.675	4.675 (0.569)	101	1696535			93.96- 153.96	123.96
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.703	4.703 (0.572)	61	1792136	50.0000	47.396	80.00- 120.00	100.00
4.703	4.703 (0.572)	96	888187			19.56- 79.56	49.56
4.703	4.703 (0.572)	98	555877			1.02- 61.02	31.02
22 Acetone					CAS #: 67-64-1		
4.869	4.869 (0.593)	58	591388	50.0000	41.930	80.00- 120.00	100.00
4.841	4.841 (0.589)	43	2339462			327.94- 387.94	395.59
26 2-Propanol					CAS #: 67-63-0		
5.062	5.062 (0.616)	45	2519528	50.0000	40.989	80.00- 120.00	100.00
5.062	5.062 (0.616)	43	572112			0.00- 49.24	22.71
5.062	5.062 (0.616)	59	86002			0.00- 33.25	3.41
25 Carbon Disulfide					CAS #: 75-15-0		
5.062	5.062 (0.616)	76	2410389	50.0000	46.302	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.339	5.339 (0.650)	76	408816	50.0000	46.482	80.00- 120.00	100.00
5.339	5.339 (0.650)	41	2035327			480.64- 540.64	497.86
29 Methylene Chloride					CAS #: 75-09-2		
5.588	5.588 (0.680)	49	1562355	50.0000	44.057	80.00- 120.00	100.00
5.588	5.588 (0.680)	84	698338			14.70- 74.70	44.70
5.588	5.588 (0.680)	51	471792			0.00- 59.58	30.20
31 MTBE					CAS #: 1634-04-4		
5.919	5.919 (0.721)	73	1838724	50.0000	66.460	80.00- 120.00	100.00
5.919	5.919 (0.721)	57	582297			1.67- 61.67	31.67
5.919	5.919 (0.721)	41	711136			10.34- 70.34	38.68
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.975	5.975 (0.727)	96	886103	50.0000	46.997	80.00- 120.00	100.00
5.975	5.975 (0.727)	61	1586786			149.07- 209.07	179.07
5.975	5.975 (0.727)	98	594035			32.40- 92.40	67.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.306	6.306 (0.768)	57	1859689	50.0000	39.230	80.00- 120.00	100.00
6.306	6.306 (0.768)	43	1511222			46.14- 106.14	81.26
6.306	6.306 (0.768)	86	245216			0.00- 41.50	13.19
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.749	6.749 (0.822)	63	1708921	50.0000	45.317	80.00- 120.00	100.00
6.749	6.749 (0.822)	65	494642			0.00- 58.94	28.94
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.950)	72	318205	50.0000	43.679	80.00- 120.00	100.00
7.800	7.800 (0.950)	43	2503769			756.84- 816.84	786.84
7.800	7.800 (0.950)	57	170114			23.20- 83.20	53.46
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.946)	61	1262100	50.0000	43.092	80.00- 120.00	100.00
7.772	7.772 (0.946)	96	725431			27.48- 87.48	57.48
7.772	7.772 (0.946)	98	456411			6.16- 66.16	36.16
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (0.997)	42	1434787	50.0000	37.977	80.00- 120.00	100.00
8.187	8.187 (0.997)	71	272477			0.00- 48.99	18.99
8.187	8.187 (0.997)	72	303767			0.00- 49.73	21.17
58 Chloroform					CAS #: 67-66-3		
8.353	8.353 (1.017)	83	1492997	50.0000	55.267	80.00- 120.00	100.00
8.353	8.353 (1.017)	85	948521			33.53- 93.53	63.53
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.601	8.601 (1.047)	97	1735270	50.0000	58.976	80.00- 120.00	100.00
8.601	8.601 (1.047)	99	1100161			33.40- 93.40	63.40
61 Cyclohexane					CAS #: 110-82-7		
8.574	8.574 (1.044)	84	907559	50.0000	45.419	80.00- 120.00	100.00
8.574	8.574 (1.044)	56	1596013			145.86- 205.86	175.86
8.574	8.574 (1.044)	41	1155007			97.27- 157.27	127.27
63 Vinyl Acetate					CAS #: 108-05-4		
6.804	6.804 (0.828)	86	202964	50.0000	46.208	80.00- 120.00	100.00
6.804	6.804 (0.828)	43	3490403			1767.50-1827.50	1719.72
6.804	6.804 (0.828)	42	315138			104.58- 164.58	155.27
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.074)	119	1602466	50.0000	62.513	80.00- 120.00	100.00
8.823	8.823 (1.074)	117	1678273			74.73- 134.73	104.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.265	9.265 (1.128)	57	4478219	50.0000	39.752	80.00- 120.00	100.00
9.265	9.265 (1.128)	56	1428692			2.91- 62.91	31.90
9.237	9.237 (1.125)	41	1761987			0.00- 59.75	39.35
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	1766930	50.0000	45.344	80.00- 120.00	100.00
9.237	9.237 (0.918)	77	416788			0.00- 53.04	23.59
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.431	9.431 (0.937)	62	1552077	50.0000	58.554	80.00- 120.00	100.00
9.431	9.431 (0.937)	64	464608			0.57- 60.57	29.93
75 Heptane					CAS #: 142-82-5		
9.652	9.652 (0.959)	100	219044	50.0000	41.363	80.00- 120.00	100.00
9.624	9.624 (0.956)	43	2097508			1063.83-1123.83	957.57
9.624	9.624 (0.956)	71	611708			257.42- 317.42	279.26
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	804590	50.0000	49.256	80.00- 120.00	100.00
10.482	10.482 (1.041)	130	735958			61.47- 121.47	91.47
10.482	10.482 (1.041)	97	524716			35.22- 95.22	65.22
82 1,2-Dichloropropane					CAS #: 78-87-5		
11.007	11.007 (1.093)	63	669914	50.0000	39.467	80.00- 120.00	100.00
11.007	11.007 (1.093)	62	505916			45.52- 105.52	75.52
11.007	11.007 (1.093)	41	849290			96.78- 156.78	126.78
84 1,4-Dioxane					CAS #: 123-91-1		
11.228	11.228 (1.115)	88	384292	50.0000	43.995	80.00- 120.00	100.00
11.228	11.228 (1.115)	58	409553			76.57- 136.57	106.57
11.228	11.228 (1.115)	57	138253			11.42- 71.42	35.98
85 Bromodichloromethane					CAS #: 75-27-4		
11.560	11.560 (1.148)	83	1411130	50.0000	58.478	80.00- 120.00	100.00
11.560	11.560 (1.148)	85	906359			34.23- 94.23	64.23
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	876535	50.0000	50.345	80.00- 120.00	100.00
12.445	12.445 (1.236)	77	276533			1.55- 61.55	31.55
12.445	12.445 (1.236)	39	1081112			93.34- 153.34	123.34
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.749	12.749 (1.266)	58	689511	50.0000	41.292	80.00- 120.00	100.00
12.749	12.749 (1.266)	43	2404971			296.95- 356.95	348.79
12.749	12.749 (1.266)	85	224755			0.00- 57.61	32.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	1732563	50.0000	46.298	80.00- 120.00	100.00
12.942	12.942 (1.286)	92	1003384			27.91- 87.91	57.91
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	1065844	50.0000	55.367	80.00- 120.00	100.00
13.468	13.468 (0.892)	77	333629			1.30- 61.30	31.30
13.468	13.468 (0.892)	39	1043383			67.89- 127.89	97.89
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.772	13.772 (0.912)	97	619042	50.0000	47.632	80.00- 120.00	100.00
13.772	13.772 (0.912)	99	383472			31.95- 91.95	61.95
13.744	13.744 (0.910)	83	482032			47.87- 107.87	77.87
102 Tetrachloroethene					CAS #: 127-18-4		
13.799	13.799 (0.914)	166	787842	50.0000	48.471	80.00- 120.00	100.00
13.799	13.799 (0.914)	129	667346			54.71- 114.71	84.71
13.799	13.799 (0.914)	131	637352			50.90- 110.90	80.90
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	939332	50.0000	38.655	80.00- 120.00	100.00
14.131	14.131 (0.936)	43	2346471			219.80- 279.80	249.80
14.131	14.131 (0.936)	100	136106			0.00- 42.78	14.49
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1181707	50.0000	55.854	80.00- 120.00	100.00
14.297	14.297 (0.947)	127	906401			48.77- 108.77	76.70
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	993352	50.0000	50.009	80.00- 120.00	100.00
14.463	14.463 (0.958)	109	907851			61.39- 121.39	91.39
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1431343	50.0000	45.620	80.00- 120.00	100.00
15.154	15.154 (1.004)	114	450810			1.50- 61.50	31.50
15.154	15.154 (1.004)	77	992929			39.37- 99.37	69.37
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	764292	50.0000	49.568	80.00- 120.00	100.00
15.265	15.265 (1.011)	91	2742573			322.22- 382.22	358.84
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	954210	50.0000	47.534	80.00- 120.00	100.00
15.431	15.431 (1.022)	91	2348130			202.98- 262.98	246.08
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	845494	50.0000	44.536	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	2281402			239.83- 299.83	269.83
115 Styrene					CAS #: 100-42-5		
16.011	16.011 (1.060)	104	1426136	50.0000	51.396	80.00- 120.00	100.00
16.011	16.011 (1.060)	78	988272			39.30- 99.30	69.30
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	1058782	50.0000	58.394	80.00- 120.00	100.00
16.260	16.260 (1.077)	171	527049			19.78- 79.78	49.78
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1315254	50.0000	44.356	80.00- 120.00	100.00
16.896	16.896 (1.119)	85	840138			33.88- 93.88	63.88
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	3392177	50.0000	52.040	80.00- 120.00	100.00
17.062	17.062 (1.130)	120	956335			0.00- 58.19	28.19
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	2953567	50.0000	54.042	80.00- 120.00	100.00
17.145	17.145 (1.135)	120	1303428			16.58- 76.58	44.13
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	3110352	50.0000	53.005	80.00- 120.00	100.00
17.532	17.532 (1.161)	120	1235749			9.73- 69.73	39.73
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	1804472	50.0000	46.914	80.00- 120.00	100.00
17.836	17.836 (1.181)	148	1113615			33.12- 93.12	61.71
17.836	17.836 (1.181)	111	882879			15.78- 75.78	48.93
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1489741	50.0000	48.979	80.00- 120.00	100.00
17.919	17.919 (1.187)	148	929008			34.33- 94.33	62.36
17.919	17.919 (1.187)	111	732307			18.49- 78.49	49.16
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	2777018	50.0000	54.723	80.00- 120.00	100.00
18.058	18.058 (1.196)	126	444597			0.00- 47.06	16.01
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	1810378	50.0000	45.374	80.00- 120.00	100.00
18.279	18.279 (1.211)	148	1101105			30.82- 90.82	60.82
18.279	18.279 (1.211)	111	910786			20.31- 80.31	50.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1394913	50.0000	49.714	80.00- 120.00	100.00
19.578	19.578 (1.297)	182	1321692			64.75- 124.75	94.75
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	1275575	50.0000	54.860	80.00- 120.00	100.00
19.661	19.661 (1.302)	223	790477			31.97- 91.97	61.97
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	3782649	50.0000	50.157	80.00- 120.00	100.00
16.924	16.924 (1.121)	120	782479			0.00- 50.53	20.69
16.924	16.924 (1.121)	105	138277			0.00- 33.52	3.66
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	3014490	50.0000	51.972	80.00- 120.00	100.00
16.426	16.426 (1.088)	120	718906			0.00- 55.50	23.85
16.426	16.426 (1.088)	51	614569			0.00- 50.84	20.39
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	3592383	50.0000	43.130	80.00- 120.00	100.00
19.744	19.744 (1.308)	127	474352			0.00- 42.90	13.20
30 Isopentane					CAS #: 78-78-4		
3.542	3.542 (0.431)	43	2322554	50.0000	46.380	80.00- 120.00	100.00
3.542	3.542 (0.431)	57	1323719			30.33- 90.33	56.99
3.542	3.542 (0.431)	72	104727			0.00- 34.69	4.51
21 Butane					CAS #: 106-97-8		
2.795	2.795 (0.340)	58	368753	50.0000	45.140	80.00- 120.00	100.00
2.795	2.795 (0.340)	43	3048889			773.30- 833.30	826.81
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.730	10.730 (1.066)	83	999861	50.0000	43.285	80.00- 120.00	100.00
10.730	10.730 (1.066)	98	521923			20.58- 80.58	52.20
10.730	10.730 (1.066)	55	1446195			125.23- 185.23	144.64

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5061503.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: jdg
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 15-JUN-2007
Calibration Time: 10:38
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	221444	132866	310022	221444	0.00
79 1,4-Difluorobenze	867858	520715	1215001	867858	0.00
108 Chlorobenzene-d5	685113	411068	959158	685113	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.21	7.88	8.54	8.21	0.00
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-15jun.b/5061503.d

Date : 15-JUN-2007 10:38

Client ID: CCV-1

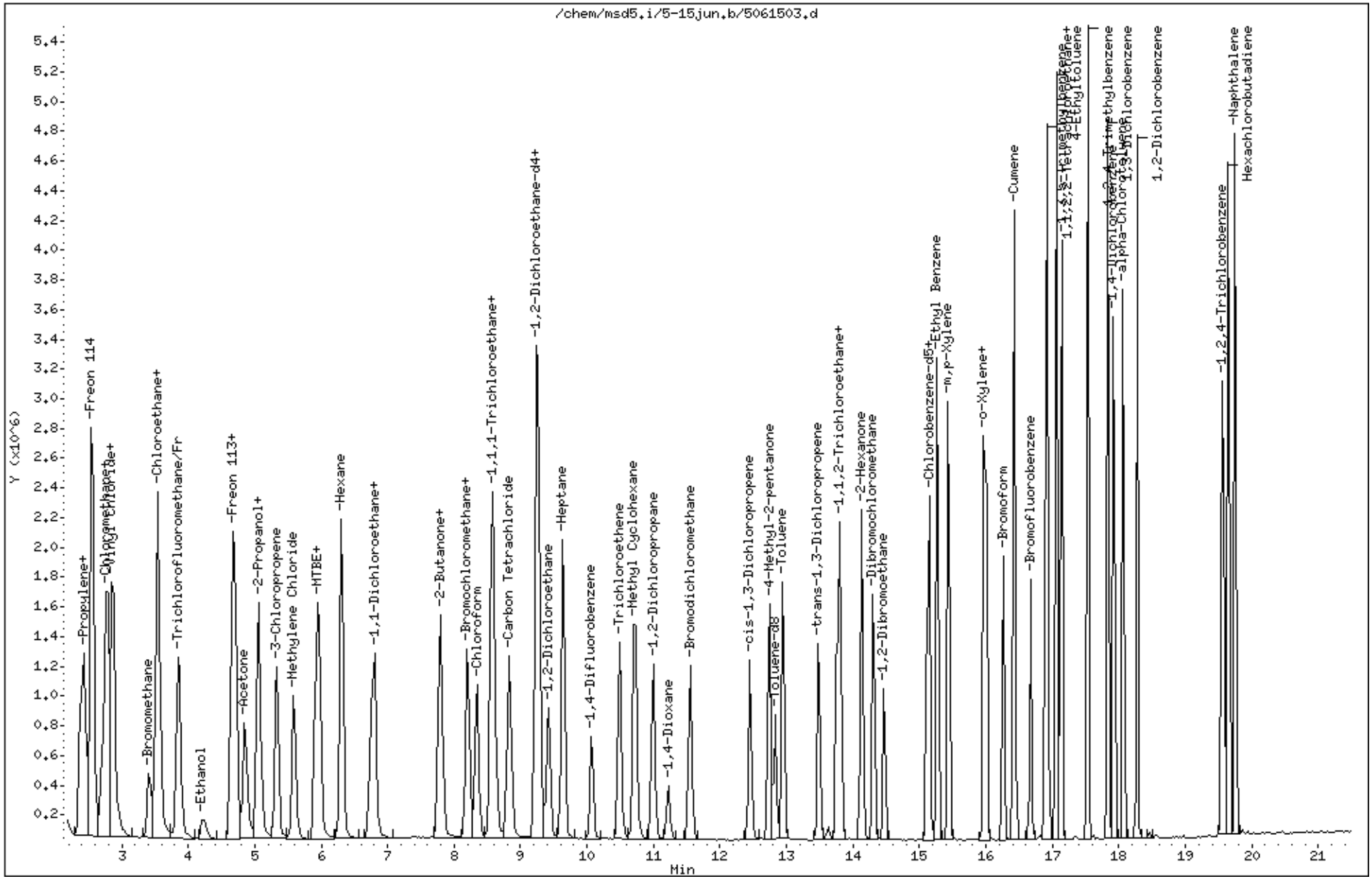
Sample Info: 50mL #1487-286

Column phase: RTx-624

Instrument: msd5.i

Operator: jdg

Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706160-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 11:06 AM**	

Compound	%Recovery
Freon 12	126
Freon 114	111
Vinyl Chloride	94
Bromomethane	103
Chloroethane	86
Freon 11	123
1,1-Dichloroethene	103
Freon 113	121
Methylene Chloride	96
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	90
Chloroform	114
1,1,1-Trichloroethane	124
Carbon Tetrachloride	129
Benzene	99
1,2-Dichloroethane	133 Q
Trichloroethene	110
1,2-Dichloropropane	88
cis-1,3-Dichloropropene	110
Toluene	110
trans-1,3-Dichloropropene	118
1,1,2-Trichloroethane	99
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	102
Chlorobenzene	94
Ethyl Benzene	102
m,p-Xylene	100
o-Xylene	97
Styrene	104
1,1,2,2-Tetrachloroethane	93
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	94
1,3-Butadiene	91
Hexane	78
Cyclohexane	92

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0706160-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5061504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/15/07 11:06 AM**	

Compound	%Recovery
Heptane	92
Bromodichloromethane	130
Dibromochloromethane	123
Cumene	112
Propylbenzene	112
Chloromethane	95
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	106
Acetone	87
Carbon Disulfide	92
2-Propanol	86
trans-1,2-Dichloroethene	92
2-Butanone (Methyl Ethyl Ketone)	89
Tetrahydrofuran	77
1,4-Dioxane	95
4-Methyl-2-pentanone	94
2-Hexanone	80
Bromoform	123
4-Ethyltoluene	110
Ethanol	99
Methyl tert-butyl ether	133
3-Chloropropene	91
2,2,4-Trimethylpentane	81
Naphthalene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	102	70-130

Report Date: 15-Jun-2007 11:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-15jun
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: jdg
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: 200ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	63.095	126.19	70-130
3 Freon 114	50.000	55.737	111.47	70-130
4 Chloromethane	50.000	47.320	94.64	70-130
5 Vinyl Chloride	50.000	47.091	94.18	70-130
6 1,3-Butadiene	50.000	45.549	91.10	60-140
7 Bromomethane	50.000	51.578	103.16	70-130
8 Chloroethane	50.000	43.013	86.03	70-130
9 Trichlorofluoromet	50.000	61.742	123.48	70-130
13 Ethanol	50.000	49.350	98.70	60-140
19 Freon 113	50.000	60.634	121.27	70-130
20 1,1-Dichloroethene	50.000	51.315	102.63	70-130
25 Carbon Disulfide	50.000	45.870	91.74	60-140
22 Acetone	50.000	43.490	86.98	60-140
26 2-Propanol	50.000	42.834	85.67	60-140
28 3-Chloropropene	50.000	45.737	91.47	60-140
29 Methylene Chloride	50.000	48.282	96.56	70-130
31 MTBE	50.000	66.361	132.72	60-140
32 trans-1,2-Dichloro	50.000	46.272	92.54	60-140
38 Hexane	50.000	38.989	77.98	60-140
43 1,1-Dichloroethane	50.000	47.370	94.74	70-130
52 cis-1,2-Dichloroet	50.000	45.126	90.25	70-130
53 2-Butanone	50.000	44.418	88.84	60-140
56 Tetrahydrofuran	50.000	38.368	76.74	60-140
58 Chloroform	50.000	56.859	113.72	70-130
61 Cyclohexane	50.000	46.090	92.18	60-140
62 1,1,1-Trichloroeth	50.000	61.811	123.62	70-130
63 Vinyl Acetate	50.000	47.464	94.93	60-140
65 Carbon Tetrachlori	50.000	64.659	129.32	70-130
68 2,2,4-Trimethylpen	50.000	40.509	81.02	60-140
69 Benzene	50.000	49.675	99.35	70-130
72 1,2-Dichloroethane	50.000	66.489	132.98*	70-130
75 Heptane	50.000	45.900	91.80	60-140
80 Trichloroethene	50.000	54.834	109.67	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	44.010	88.02	70-130
84 1,4-Dioxane	50.000	47.656	95.31	60-140
85 Bromodichlorometha	50.000	65.214	130.43	60-140
90 cis-1,3-Dichloropr	50.000	55.231	110.46	70-130
91 4-Methyl-2-pentano	50.000	46.989	93.98	60-140
99 Toluene	50.000	54.755	109.51	70-130
100 trans-1,3-Dichloro	50.000	58.826	117.65	70-130
101 1,1,2-Trichloroeth	50.000	49.528	99.06	70-130
102 Tetrachloroethene	50.000	51.143	102.29	70-130
103 2-Hexanone	50.000	40.080	80.16	60-140
105 Dibromochlorometha	50.000	61.307	122.61	60-140
106 1,2-Dibromoethane	50.000	51.222	102.44	70-130
109 Chlorobenzene	50.000	46.783	93.57	70-130
111 Ethyl Benzene	50.000	51.010	102.02	70-130
113 m,p-Xylene	50.000	49.868	99.74	70-130
114 o-Xylene	50.000	48.466	96.93	70-130
115 Styrene	50.000	51.964	103.93	70-130
118 Bromoform	50.000	61.581	123.16	60-140
119 Cumene	50.000	56.157	112.31	60-140
123 1,1,2,2-Tetrachlor	50.000	46.378	92.76	70-130
124 Propylbenzene	50.000	56.276	112.55	60-140
126 4-Ethyltoluene	50.000	54.821	109.64	60-140
128 1,3,5-Trimethylben	50.000	53.875	107.75	70-130
131 1,2,4-Trimethylben	50.000	55.023	110.05	70-130
138 1,3-Dichlorobenzen	50.000	49.656	99.31	70-130
141 1,4-Dichlorobenzen	50.000	51.004	102.01	70-130
143 alpha-Chlorotoluen	50.000	64.375	128.75	70-130
146 1,2-Dichlorobenzen	50.000	47.045	94.09	70-130
154 1,2,4-Trichloroben	50.000	46.427	92.85	70-130
155 Hexachlorobutadien	50.000	53.120	106.24	70-130
1 Propylene	50.000	47.302	94.60	70-130
156 Naphthalene	50.000	43.725	87.45	60-140
21 Butane	50.000	47.464	94.93	70-130
30 Isopentane	50.000	44.563	89.13	70-130
96 Methyl Cyclohexane	50.000	48.711	97.42	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	29.243	116.97	70-130
$ 97 Toluene-d8	25.000	26.785	107.14	70-130
$ 122 Bromofluorobenzene	25.000	25.512	102.05	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-15jun.b/5061504.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 15-JUN-2007 11:06
Operator : jdg Inst ID: msd5.i
Smp Info : 50mL #1487-275
Misc Info : 200ppbv-50ppbv
Comment :
Method : /var/chem/msd5.i/5-15jun.b/t14q529a.m
Meth Date : 15-Jun-2007 11:44 jgray Quant Type: ISTD
Cal Date : 29-MAY-2007 20:44 Cal File: 5052920.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 57 Bromochloromethane					CAS #: 74-97-5		
8.187	8.214 (1.000)	130	181738	25.0000		80.00- 120.00	100.00
8.187	8.214 (1.000)	128	142052			47.96- 107.96	78.16
8.187	8.214 (1.000)	49	485919			246.95- 306.95	267.37
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
10.067	10.067 (1.000)	114	670098	25.0000		80.00- 120.00	100.00
10.067	10.067 (1.000)	88	133325			0.00- 49.73	19.90
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
15.099	15.099 (1.000)	117	550638	25.0000		80.00- 120.00	100.00
15.099	15.099 (1.000)	82	384466			33.54- 93.54	69.82
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.265	9.293 (1.132)	65	426036	29.2432	29.243	80.00- 120.00	100.00
9.265	9.293 (1.132)	67	200520			25.98- 85.98	47.07
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.832	12.832 (1.275)	98	653309	26.7851	26.785	80.00- 120.00	100.00
12.832	12.832 (1.275)	70	73760			0.00- 41.05	11.29

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.832	12.832 (1.275)	100	426683			36.04- 96.04	65.31
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.675	16.675 (1.104)	174	352952	25.5119	25.512	80.00- 120.00	100.00
16.675	16.675 (1.104)	95	603866			140.08- 200.08	171.09
16.675	16.675 (1.104)	176	350186			65.81- 125.81	99.22
1 Propylene					CAS #: 115-07-1		
2.325	2.380 (0.284)	41	1146568	47.3023	47.302	80.00- 120.00	100.00
2.325	2.380 (0.284)	42	771060			36.96- 96.96	67.25
2.325	2.380 (0.284)	39	827830			37.69- 97.69	72.20
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.380	2.436 (0.291)	85	2034392	63.0951	63.095	80.00- 120.00	100.00
2.380	2.436 (0.291)	87	650186			1.62- 61.62	31.96
3 Freon 114					CAS #: 76-14-2		
2.519	2.574 (0.308)	135	1718812	55.7369	55.737	80.00- 120.00	100.00
2.519	2.574 (0.308)	137	551646			1.71- 61.71	32.09
4 Chloromethane					CAS #: 74-87-3		
2.657	2.712 (0.325)	50	1377565	47.3201	47.320	80.00- 120.00	100.00
2.657	2.712 (0.325)	52	397436			0.00- 59.51	28.85
5 Vinyl Chloride					CAS #: 75-01-4		
2.850	2.878 (0.348)	62	1114760	47.0915	47.091	80.00- 120.00	100.00
2.850	2.878 (0.348)	64	327866			0.00- 59.15	29.41
6 1,3-Butadiene					CAS #: 106-99-0		
2.823	2.850 (0.345)	54	1070274	45.5488	45.549	80.00- 120.00	100.00
2.823	2.850 (0.345)	39	1384087			92.11- 152.11	129.32
7 Bromomethane					CAS #: 74-83-9		
3.376	3.403 (0.412)	94	725334	51.5777	51.578	80.00- 120.00	100.00
3.376	3.403 (0.412)	96	671715			65.81- 125.81	92.61
8 Chloroethane					CAS #: 75-00-3		
3.514	3.542 (0.429)	64	539944	43.0132	43.013	80.00- 120.00	100.00
3.514	3.542 (0.429)	49	192027			1.83- 61.83	35.56
3.514	3.542 (0.429)	66	163958			0.00- 57.39	30.37
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.818	3.846 (0.466)	101	2006803	61.7417	61.742	80.00- 120.00	100.00
3.818	3.846 (0.466)	103	1271001			35.75- 95.75	63.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
4.205	4.233 (0.514)	45	492107	49.3505	49.350	80.00- 120.00	100.00
4.205	4.205 (0.514)	43	98934			0.00- 49.45	20.10
4.178	4.205 (0.510)	46	202205			11.95- 71.95	41.09
19 Freon 113					CAS #: 76-13-1		
4.648	4.675 (0.568)	151	1206688	60.6344	60.634	80.00- 120.00	100.00
4.648	4.675 (0.568)	153	796886			33.52- 93.52	66.04
4.648	4.675 (0.568)	101	1505423			93.96- 153.96	124.76
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.675	4.703 (0.571)	61	1592410	51.3154	51.315	80.00- 120.00	100.00
4.675	4.703 (0.571)	96	789367			19.56- 79.56	49.57
4.675	4.703 (0.571)	98	507262			1.02- 61.02	31.85
22 Acetone					CAS #: 67-64-1		
4.841	4.869 (0.591)	58	503407	43.4897	43.490	80.00- 120.00	100.00
4.841	4.841 (0.591)	43	2021030			327.94- 387.94	401.47
26 2-Propanol					CAS #: 67-63-0		
5.035	5.062 (0.615)	45	2160849	42.8344	42.834	80.00- 120.00	100.00
5.035	5.062 (0.615)	43	463595			0.00- 49.24	21.45
5.035	5.062 (0.615)	59	66310			0.00- 33.25	3.07
25 Carbon Disulfide					CAS #: 75-15-0		
5.035	5.062 (0.615)	76	1959723	45.8700	45.870	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
5.311	5.339 (0.649)	76	330137	45.7368	45.737	80.00- 120.00	100.00
5.311	5.339 (0.649)	41	1708786			480.64- 540.64	517.60
29 Methylene Chloride					CAS #: 75-09-2		
5.560	5.588 (0.679)	49	1405185	48.2823	48.282	80.00- 120.00	100.00
5.560	5.588 (0.679)	84	589097			14.70- 74.70	41.92
5.560	5.588 (0.679)	51	422466			0.00- 59.58	30.06
31 MTBE					CAS #: 1634-04-4		
5.892	5.919 (0.720)	73	1506775	66.3607	66.361	80.00- 120.00	100.00
5.892	5.919 (0.720)	57	476982			1.67- 61.67	31.66
5.892	5.919 (0.720)	41	622924			10.34- 70.34	41.34
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.947	5.975 (0.726)	96	715994	46.2719	46.272	80.00- 120.00	100.00
5.947	5.975 (0.726)	61	1275077			149.07- 209.07	178.08
5.947	5.975 (0.726)	98	455504			32.40- 92.40	63.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
6.279	6.306 (0.767)	57	1516861	38.9890	38.989	80.00- 120.00	100.00
6.279	6.306 (0.767)	43	1222481			46.14- 106.14	80.59
6.307	6.306 (0.770)	86	206228			0.00- 41.50	13.60
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.721	6.749 (0.821)	63	1466026	47.3698	47.370	80.00- 120.00	100.00
6.721	6.749 (0.821)	65	420456			0.00- 58.94	28.68
53 2-Butanone					CAS #: 78-93-3		
7.800	7.800 (0.953)	72	265567	44.4181	44.418	80.00- 120.00	100.00
7.800	7.800 (0.953)	43	2132359			756.84- 816.84	802.95
7.800	7.800 (0.953)	57	144450			23.20- 83.20	54.39
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.772	7.772 (0.949)	61	1084694	45.1263	45.126	80.00- 120.00	100.00
7.772	7.772 (0.949)	96	583836			27.48- 87.48	53.82
7.772	7.772 (0.949)	98	374318			6.16- 66.16	34.51
56 Tetrahydrofuran					CAS #: 109-99-9		
8.187	8.187 (1.000)	42	1189641	38.3679	38.368	80.00- 120.00	100.00
8.187	8.187 (1.000)	71	243569			0.00- 48.99	20.47
8.187	8.187 (1.000)	72	244526			0.00- 49.73	20.55
58 Chloroform					CAS #: 67-66-3		
8.325	8.353 (1.017)	83	1260582	56.8588	56.859	80.00- 120.00	100.00
8.325	8.353 (1.017)	85	824482			33.53- 93.53	65.40
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.574	8.601 (1.047)	97	1492569	61.8107	61.811	80.00- 120.00	100.00
8.574	8.601 (1.047)	99	946413			33.40- 93.40	63.41
61 Cyclohexane					CAS #: 110-82-7		
8.546	8.574 (1.044)	84	755830	46.0898	46.090	80.00- 120.00	100.00
8.546	8.574 (1.044)	56	1353748			145.86- 205.86	179.11
8.546	8.574 (1.044)	41	994676			97.27- 157.27	131.60
63 Vinyl Acetate					CAS #: 108-05-4		
6.777	6.804 (0.828)	86	171100	47.4642	47.464	80.00- 120.00	100.00
6.777	6.804 (0.828)	43	2950020			1767.50-1827.50	1724.15
6.777	6.804 (0.828)	42	258215			104.58- 164.58	150.91
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.823	8.823 (1.078)	119	1360289	64.6592	64.659	80.00- 120.00	100.00
8.823	8.823 (1.078)	117	1437517			74.73- 134.73	105.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.237	9.265 (1.128)	57	3745235	40.5090	40.509	80.00- 120.00	100.00
9.237	9.265 (1.128)	56	1225582			2.91- 62.91	32.72
9.237	9.237 (1.128)	41	1496280			0.00- 59.75	39.95
69 Benzene					CAS #: 71-43-2		
9.237	9.237 (0.918)	78	1494601	49.6746	49.675	80.00- 120.00	100.00
9.237	9.237 (0.918)	77	355118			0.00- 53.04	23.76
72 1,2-Dichloroethane					CAS #: 107-06-2		
9.403	9.431 (0.934)	62	1360819	66.4894	66.489	80.00- 120.00	100.00(R)
9.403	9.431 (0.934)	64	396023			0.57- 60.57	29.10
75 Heptane					CAS #: 142-82-5		
9.625	9.652 (0.956)	100	187681	45.8998	45.900	80.00- 120.00	100.00
9.625	9.624 (0.956)	43	1743208			1063.83-1123.83	928.81
9.625	9.624 (0.956)	71	503575			257.42- 317.42	268.31
80 Trichloroethene					CAS #: 79-01-6		
10.482	10.482 (1.041)	95	691597	54.8336	54.834	80.00- 120.00	100.00
10.482	10.482 (1.041)	130	622213			61.47- 121.47	89.97
10.482	10.482 (1.041)	97	441121			35.22- 95.22	63.78
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.979	11.007 (1.091)	63	576799	44.0099	44.010	80.00- 120.00	100.00
10.979	11.007 (1.091)	62	415254			45.52- 105.52	71.99
10.979	11.007 (1.091)	41	712535			96.78- 156.78	123.53
84 1,4-Dioxane					CAS #: 123-91-1		
11.201	11.228 (1.113)	88	321416	47.6561	47.656	80.00- 120.00	100.00
11.201	11.228 (1.113)	58	343862			76.57- 136.57	106.98
11.201	11.228 (1.113)	57	105966			11.42- 71.42	32.97
85 Bromodichloromethane					CAS #: 75-27-4		
11.532	11.560 (1.146)	83	1215078	65.2136	65.214	80.00- 120.00	100.00
11.532	11.560 (1.146)	85	766284			34.23- 94.23	63.06
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.445	12.445 (1.236)	75	742477	55.2310	55.231	80.00- 120.00	100.00
12.445	12.445 (1.236)	77	240063			1.55- 61.55	32.33
12.445	12.445 (1.236)	39	926729			93.34- 153.34	124.82
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.721	12.749 (1.264)	58	605846	46.9891	46.989	80.00- 120.00	100.00
12.721	12.749 (1.264)	43	2030884			296.95- 356.95	335.21
12.749	12.749 (1.266)	85	198031			0.00- 57.61	32.69

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.942	12.942 (1.286)	91	1582138	54.7553	54.755	80.00- 120.00	100.00
12.942	12.942 (1.286)	92	929529			27.91- 87.91	58.75
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.468	13.468 (0.892)	75	910163	58.8263	58.826	80.00- 120.00	100.00
13.468	13.468 (0.892)	77	284234			1.30- 61.30	31.23
13.468	13.468 (0.892)	39	938504			67.89- 127.89	103.11
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.744	13.772 (0.910)	97	517339	49.5281	49.528	80.00- 120.00	100.00
13.744	13.772 (0.910)	99	321222			31.95- 91.95	62.09
13.744	13.744 (0.910)	83	422315			47.87- 107.87	81.63
102 Tetrachloroethene					CAS #: 127-18-4		
13.800	13.799 (0.914)	166	668105	51.1429	51.143	80.00- 120.00	100.00
13.800	13.799 (0.914)	129	589414			54.71- 114.71	88.22
13.800	13.799 (0.914)	131	550698			50.90- 110.90	82.43
103 2-Hexanone					CAS #: 591-78-6		
14.131	14.131 (0.936)	58	782790	40.0803	40.080	80.00- 120.00	100.00
14.131	14.131 (0.936)	43	2047342			219.80- 279.80	261.54
14.131	14.131 (0.936)	100	110190			0.00- 42.78	14.08
105 Dibromochloromethane					CAS #: 124-48-1		
14.297	14.297 (0.947)	129	1042482	61.3066	61.307	80.00- 120.00	100.00
14.297	14.297 (0.947)	127	767946			48.77- 108.77	73.67
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.463	14.463 (0.958)	107	817734	51.2218	51.222	80.00- 120.00	100.00
14.463	14.463 (0.958)	109	769173			61.39- 121.39	94.06
109 Chlorobenzene					CAS #: 108-90-7		
15.154	15.154 (1.004)	112	1179716	46.7828	46.783	80.00- 120.00	100.00
15.154	15.154 (1.004)	114	389349			1.50- 61.50	33.00
15.154	15.154 (1.004)	77	843689			39.37- 99.37	71.52
111 Ethyl Benzene					CAS #: 100-41-4		
15.265	15.265 (1.011)	106	632140	51.0099	51.010	80.00- 120.00	100.00
15.265	15.265 (1.011)	91	2304117			322.22- 382.22	364.49
113 m,p-Xylene					CAS #: 108-38-3		
15.431	15.431 (1.022)	106	804590	49.8686	49.868	80.00- 120.00	100.00
15.431	15.431 (1.022)	91	1989072			202.98- 262.98	247.22
114 o-Xylene					CAS #: 95-47-6		
15.956	15.956 (1.057)	106	739500	48.4660	48.466	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 o-Xylene (continued)							
15.956	15.956 (1.057)	91	1979641			239.83- 299.83	267.70
115 Styrene					CAS #: 100-42-5		
16.012	16.011 (1.060)	104	1158882	51.9638	51.964	80.00- 120.00	100.00
16.012	16.011 (1.060)	78	797270			39.30- 99.30	68.80
118 Bromoform					CAS #: 75-25-2		
16.260	16.260 (1.077)	173	897406	61.5807	61.581	80.00- 120.00	100.00
16.260	16.260 (1.077)	171	476728			19.78- 79.78	53.12
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.896	16.896 (1.119)	83	1105297	46.3784	46.378	80.00- 120.00	100.00
16.896	16.896 (1.119)	85	728150			33.88- 93.88	65.88
126 4-Ethyltoluene					CAS #: 622-96-8		
17.062	17.062 (1.130)	105	2872012	54.8206	54.821	80.00- 120.00	100.00
17.062	17.062 (1.130)	120	808730			0.00- 58.19	28.16
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.145	17.145 (1.135)	105	2366517	53.8754	53.875	80.00- 120.00	100.00
17.145	17.145 (1.135)	120	1062975			16.58- 76.58	44.92
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.532	17.532 (1.161)	105	2595047	55.0235	55.023	80.00- 120.00	100.00
17.532	17.532 (1.161)	120	1057692			9.73- 69.73	40.76
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.836	17.836 (1.181)	146	1535049	49.6557	49.656	80.00- 120.00	100.00
17.836	17.836 (1.181)	148	974197			33.12- 93.12	63.46
17.836	17.836 (1.181)	111	746390			15.78- 75.78	48.62
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.919	17.919 (1.187)	146	1246856	51.0044	51.004	80.00- 120.00	100.00
17.919	17.919 (1.187)	148	777634			34.33- 94.33	62.37
17.919	17.919 (1.187)	111	614230			18.49- 78.49	49.26
143 alpha-Chlorotoluene					CAS #: 100-44-7		
18.058	18.058 (1.196)	91	2625591	64.3747	64.375	80.00- 120.00	100.00
18.058	18.058 (1.196)	126	406478			0.00- 47.06	15.48
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.279	18.279 (1.211)	146	1508638	47.0454	47.045	80.00- 120.00	100.00
18.279	18.279 (1.211)	148	926592			30.82- 90.82	61.42
18.279	18.279 (1.211)	111	722054			20.31- 80.31	47.86

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
154 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.578	19.578 (1.297)	180	1046983	46.4269	46.427	80.00- 120.00	100.00
19.578	19.578 (1.297)	182	1011412			64.75- 124.75	96.60
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.661	19.661 (1.302)	225	992695	53.1203	53.120	80.00- 120.00	100.00
19.661	19.661 (1.302)	223	634038			31.97- 91.97	63.87
124 Propylbenzene					CAS #: 103-65-1		
16.924	16.924 (1.121)	91	3411099	56.2759	56.276	80.00- 120.00	100.00
16.924	16.924 (1.121)	120	698757			0.00- 50.53	20.48
16.924	16.924 (1.121)	105	120874			0.00- 33.52	3.54
119 Cumene					CAS #: 98-82-8		
16.426	16.426 (1.088)	105	2617883	56.1566	56.157	80.00- 120.00	100.00
16.426	16.426 (1.088)	120	640431			0.00- 55.50	24.46
16.426	16.426 (1.088)	51	515652			0.00- 50.84	19.70
156 Naphthalene					CAS #: 91-20-3		
19.744	19.744 (1.308)	128	2927061	43.7246	43.725	80.00- 120.00	100.00
19.744	19.744 (1.308)	127	375501			0.00- 42.90	12.83
30 Isopentane					CAS #: 78-78-4		
3.514	3.542 (0.429)	43	1831434	44.5635	44.563	80.00- 120.00	100.00
3.514	3.542 (0.429)	57	1047016			30.33- 90.33	57.17
3.514	3.542 (0.429)	72	84286			0.00- 34.69	4.60
21 Butane					CAS #: 106-97-8		
2.740	2.795 (0.335)	58	318216	47.4641	47.464	80.00- 120.00	100.00
2.740	2.795 (0.335)	43	2491038			773.30- 833.30	782.81
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.703	10.730 (1.063)	83	868799	48.7113	48.711	80.00- 120.00	100.00
10.703	10.730 (1.063)	98	448509			20.58- 80.58	51.62
10.703	10.730 (1.063)	55	1242479			125.23- 185.23	143.01

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5061504.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: jdg
Method File: /var/chem/msd5.i/5-15jun.b/t14q529a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 15-JUN-2007
Calibration Time: 10:38
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	221444	132866	310022	181738	-17.93
79 1,4-Difluorobenze	867858	520715	1215001	670098	-22.79
108 Chlorobenzene-d5	685113	411068	959158	550638	-19.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	8.21	7.88	8.54	8.19	-0.34
79 1,4-Difluorobenze	10.07	9.74	10.40	10.07	0.00
108 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

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

Data File: /chem/msd5.i/5-15jun.b/5061504.d

Date : 15-JUN-2007 11:06

Client ID: LCS-1

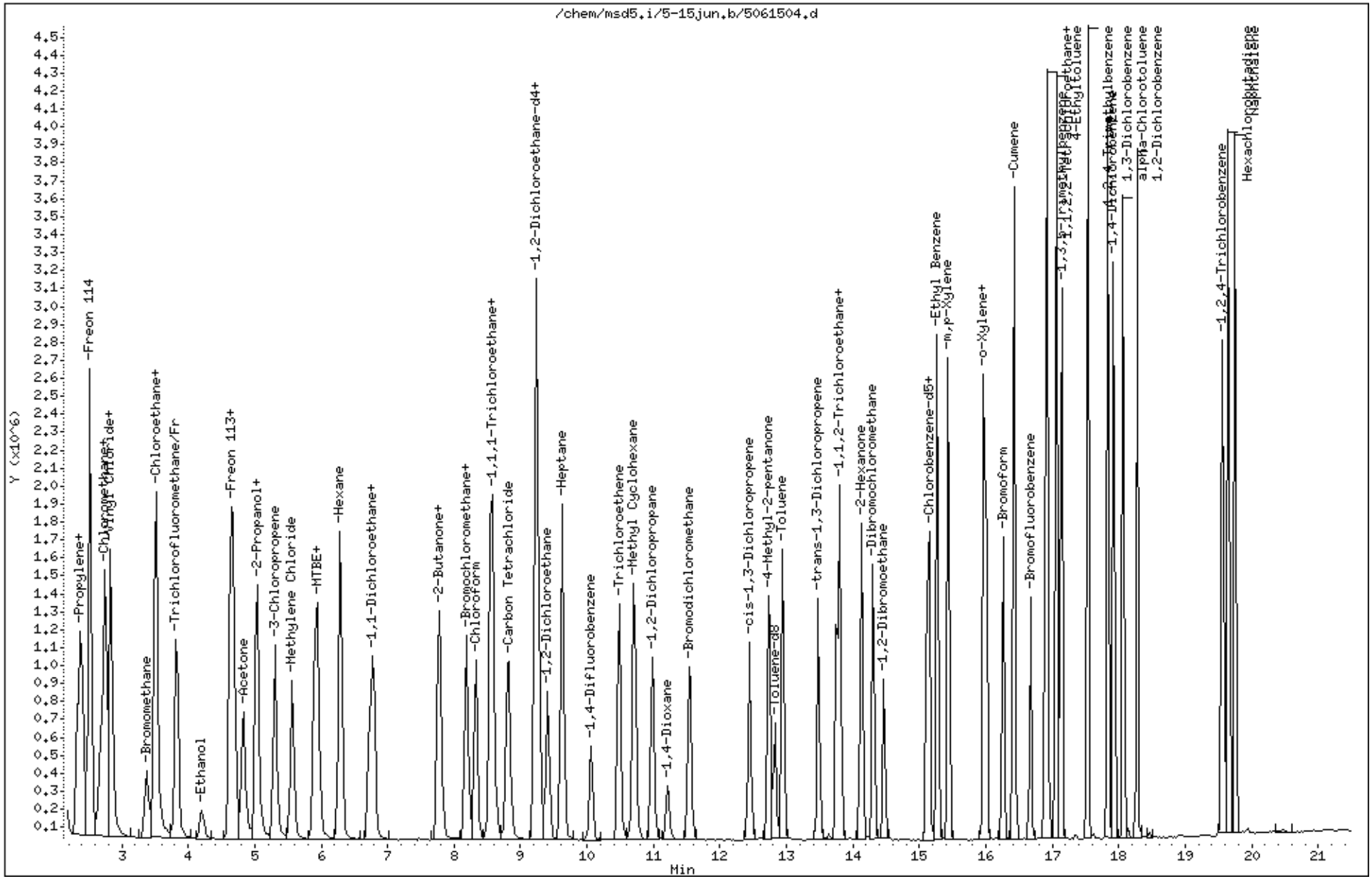
Sample Info: 50mL #1487-275

Column phase: RTx-624

Instrument: msd5.i

Operator: jdg

Column diameter: 0.53



0166

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MSD-5

Logbook #: 1523

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	36.27
75	30.0 – 60.0% of mass 95	58.13
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.08
173	Less than 2.0% of mass 174	(1.04)[1]
174	Greater than 50.0% of mass 95	66.42
175	5.0 – 9.0% of mass 174	(6.60)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(99.40)[1]
177	5.0 – 9.0% of mass 176	(5.59)[2]

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

BFB Injection Date: 6/15/07
BFB Injection Time: 0959
BFB File ID: 5061502
Tekmar Purge Flow: —
Vacuum: 6.30x10-6

IS/S Std.#: 1487-259	Exp. Date: 8/10/07
BCM	221444
1,4-DFB	867858
CB-d5	695113

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

Verify 176/174 m/z Ratio: 677568 / 681664 · 100 = 99.40 %. **NOAH Cart #:** ______ **File #:** ______

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(798791)}{(867858)} \times \frac{(25)}{(0.90997)} = 25.287$

Reported Result 25.287

File ID:	5061503
Compound:	TOL-d8
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	X	5061501	BFB Tune Check	8U3-2860	50ng	2µL	1.00		6/15/07	0943		
2	✓	02	BFB Tune Check	|	|	|	|	|	|	0959		apex +1
3	✓	03	CCV # 1487-286	200ppbv	50ppbv	50mL	|	|	|	1038		
4	✓	04	LCS # 1487-275	|	|	|	|	|	|	1106		
5	✓	05	Lab Blank	13673	Humid	200mL	1.00		|	1222		
6	X	06	NoahCart 7, pos. 8	13673	↓	↓	↓	OB	|	1344		
7	X	07	0706075A -01A	3778	4.0"Hg 5psi	|	1.55	KR	|	1649	KR	Sur ↑
8	✓	08	-02A	13847	0.0"Hg 5psi	|	1.34	|	|	1722	KR	
9	✓	09	-03A	14118	2.5"Hg 5psi	↓	1.46	↓	↓	1754	KR	

Signature ______ Date 6/15/07

10	✓	5061510	0706075A-04A	34267	2.5"Hg 5psi	200mA	1.46	KR	6/15/07	1827	KR		
11	✓	11	0706157-01A	32122	6.0"Hg 5psi		1.68			1900	KR		
12	✓	12	-01AA	↓	↓		↓			1932	KR		
13	✓	13	-02A	4489	6.0"Hg 5psi					2005	KR		
14	✓	14	-03A	35280	6.0"Hg 5psi		↓			2037	KR		
15	✓	15	-04A	10766	2.0"Hg 5psi		1.00			2110	KR		
16	✓	16	0706075A-01A	3778	4.0"Hg 5psi	200mA	1.55	KR		2158	KR		
17	✓	17	0706157-03AA	35280	6.0"Hg 5psi		1.68			2230	KR		
18	✓	18	0706160-01A	34001	5.5"Hg 5psi		1.64			2332	CL		
19	✓	19	-02A	TO-1623	6.0"Hg 5psi		1.68			0004	CL		
20	✓	20	0706182-01A	33530	5.0"Hg 5psi		1.61			0036	CL		
21	✓	21	-02A	35920	6.0"Hg 5psi		1.68			0109	CL		
22	✓	22	-03A	12084	5.5"Hg 5psi		1.64			0141	CL		
23		23	-04A	34573	2.5"Hg 5psi		1.00			0213	CL	needs cont. run TB	
24	✓	24	0706193-01A	33660	12.0"Hg 5psi		2.23			0245	CL		
25	✓	25	-02A	34458	12.0"Hg 5psi	↓	2.23		↓	0318	CL		
26													
27													
28													
29													
30													
31													
32													

0167

Comments:

6-18-07 CT

C Taylor
Signature

6-18-07
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-29may.b/5052909.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 29-MAY-2007 14:47
Operator : JG Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-29may.b/bfb30.m
Meth Date : 29-May-2007 14:40 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 (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
RT	EXP RT	DLT RT	MASS	RESPONSE				
1 bfb						CAS #: 460-00-4		
3.860	3.900	-0.040	95	1533988			100.00- 100.00	100.00
3.860	3.900	-0.040	50	589973			15.00- 40.00	38.46
3.860	3.900	-0.040	75	819322			30.00- 60.00	53.41
3.860	3.900	-0.040	96	98444			5.00- 9.00	6.42
3.860	3.900	-0.040	173	7499			0.00- 2.00	0.83
3.860	3.900	-0.040	174	907809			50.00- 100.00	59.18
3.860	3.900	-0.040	175	64122			5.00- 9.00	7.06
3.860	3.900	-0.040	176	878321			95.00- 101.00	96.75
3.860	3.900	-0.040	177	56933			5.00- 9.00	6.48

Data File: /var/chem/msd5.i/5-29may.b/5052909.d

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

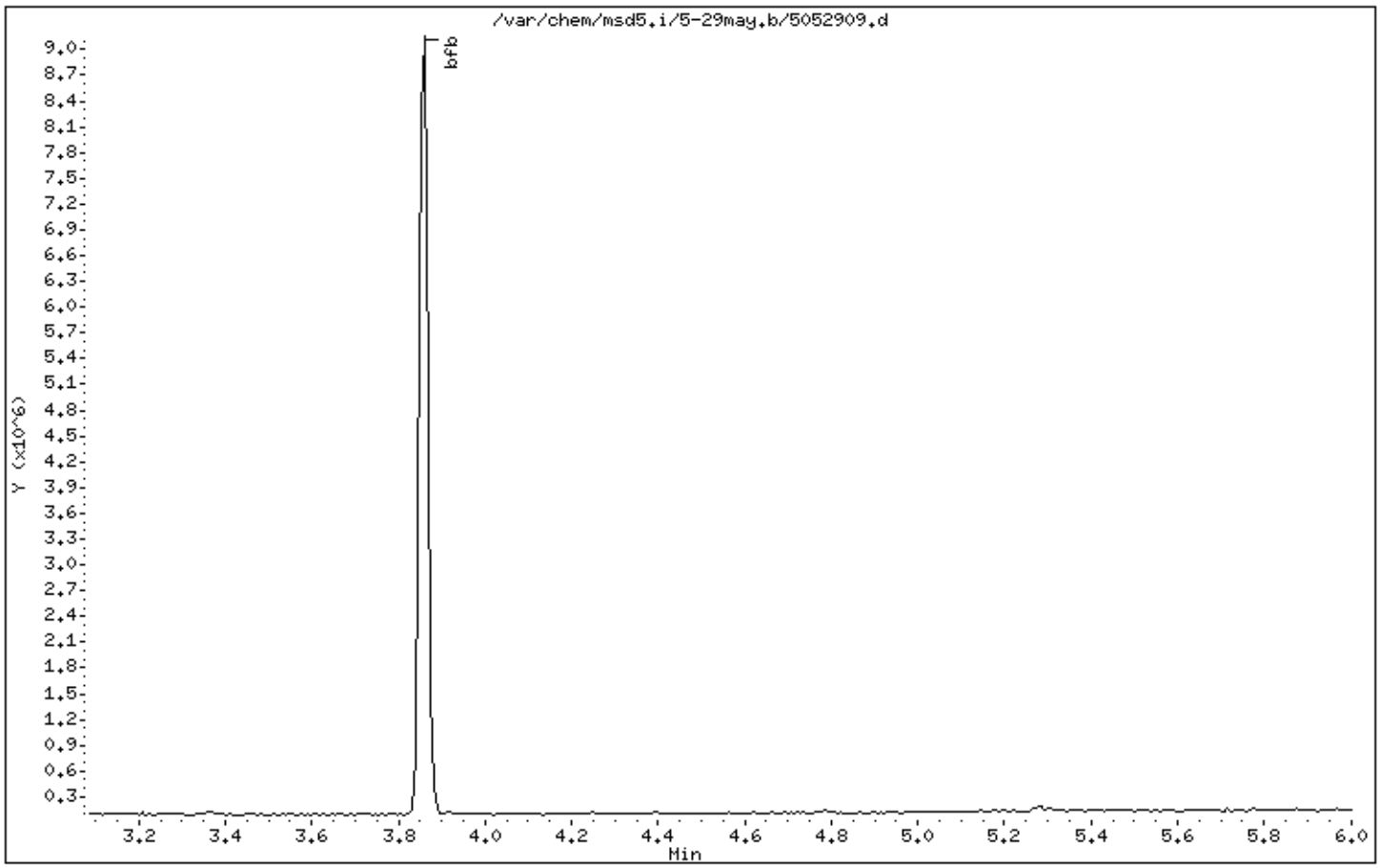
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-29may.b/5052909.d

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

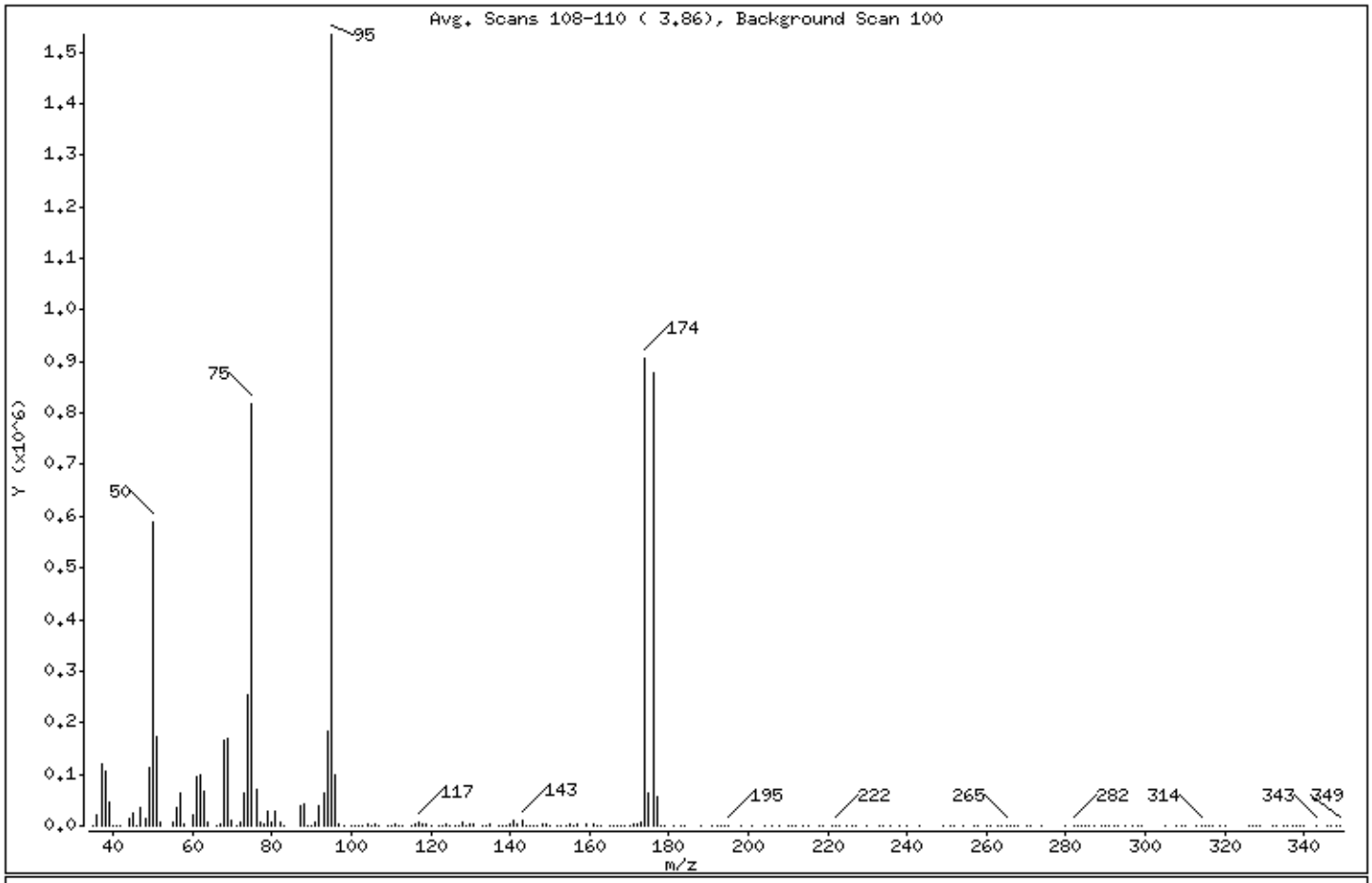
Volume Injected (uL): 1.0

Operator: JG

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	38.46
75	30.00 - 60.00% of mass 95	53.41
96	5.00 - 9.00% of mass 95	6.42
173	Less than 2.00% of mass 174	0.49 (0.83)
174	50.00 - 100.00% of mass 95	59.18
175	5.00 - 9.00% of mass 174	4.18 (7.06)
176	95.00 - 101.00% of mass 174	57.26 (96.75)
177	5.00 - 9.00% of mass 176	3.71 (6.48)

Date : 29-MAY-2007 14:47

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: JG

Column phase: Column diameter: 2.00

Data File: 5052909.d
Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	479	100.00	176	165.00	605	261.00	165
36.00	22232	101.00	382	166.00	317	263.00	59
37.00	118808	102.00	409	167.00	163	264.00	85
38.00	104848	103.00	1002	168.00	1385	265.00	457
39.00	45304	104.00	3980	169.00	692	266.00	73
40.00	1683	105.00	771	170.00	1428	267.00	70
41.00	826	106.00	3461	171.00	1929	268.00	455
42.00	63	107.00	522	172.00	2697	270.00	81
44.00	12641	109.00	505	173.00	7499	271.00	117
45.00	23448	110.00	683	174.00	907776	274.00	287
46.00	1365	111.00	1785	175.00	64120	280.00	416
47.00	36048	112.00	1016	176.00	878272	282.00	1234
48.00	13962	113.00	811	177.00	56928	283.00	166
49.00	111736	115.00	1590	178.00	813	284.00	135
50.00	589952	116.00	3772	179.00	275	285.00	98
51.00	173760	117.00	7445	181.00	181	286.00	120
52.00	7870	118.00	4285	183.00	97	287.00	589
55.00	5532	119.00	4130	184.00	162	289.00	71
56.00	34816	120.00	1072	188.00	80	290.00	332
57.00	62184	122.00	144	191.00	206	291.00	140
58.00	3043	123.00	735	192.00	494	292.00	129
60.00	20064	124.00	1969	193.00	130	293.00	363
61.00	96184	125.00	311	194.00	388	295.00	56
62.00	98712	126.00	1634	195.00	615	297.00	137
63.00	67864	127.00	1282	198.00	237	298.00	17
64.00	6220	128.00	5579	201.00	309	299.00	319
66.00	330	129.00	1655	204.00	214	305.00	99
67.00	2772	130.00	4538	206.00	186	308.00	298
68.00	164864	131.00	2085	208.00	10	309.00	171
69.00	169664	133.00	759	210.00	197	310.00	216
70.00	9514	134.00	679	211.00	425	313.00	61
71.00	478	135.00	2066	212.00	156	314.00	406
72.00	7983	137.00	1448	214.00	397	315.00	254
73.00	62656	138.00	177	215.00	452	316.00	325
74.00	253440	139.00	539	218.00	90	317.00	79

Data File: /var/chem/msd5.i/5-29may.b/5052909.d

Date : 29-MAY-2007 14:47

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5052909.d
Spectrum: Avg. Scans 108-110 (3.86), Background Scan 100
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	819264	140.00	2098	219.00	257	319.00	60
76.00	71520	141.00	11134	221.00	160	320.00	311
77.00	6450	142.00	2300	222.00	399	326.00	208
78.00	1931	143.00	11275	223.00	378	327.00	378
79.00	29040	144.00	1040	225.00	247	328.00	104
80.00	8677	145.00	1043	226.00	29	329.00	56
81.00	28520	146.00	1538	227.00	144	332.00	125
82.00	5512	147.00	488	230.00	290	333.00	107
83.00	1215	148.00	3775	233.00	38	335.00	197
87.00	38280	149.00	1829	234.00	171	336.00	220
88.00	42544	150.00	1608	236.00	200	337.00	171
89.00	343	152.00	1035	238.00	112	338.00	113
90.00	369	153.00	880	240.00	137	339.00	342
91.00	5755	154.00	1506	243.00	53	340.00	77
92.00	38480	155.00	2500	249.00	158	343.00	459
93.00	63096	156.00	252	251.00	308	346.00	7
94.00	181760	157.00	2201	252.00	349	347.00	415
95.00	1533952	159.00	1839	254.00	343	348.00	96
96.00	98440	161.00	1892	257.00	254	349.00	264
97.00	3364	162.00	299	258.00	62		
98.00	177	163.00	642	260.00	79		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-15jun.b/5061502.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 15-JUN-2007 09:59
Operator : JG Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-15jun.b/bfb30.m
Meth Date : 15-Jun-2007 09:35 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.853	3.900	-0.047	95	1026304			100.00- 100.00	100.00
3.853	3.900	-0.047	50	372288			15.00- 40.00	36.27
3.853	3.900	-0.047	75	596608			30.00- 60.00	58.13
3.853	3.900	-0.047	96	62384			5.00- 9.00	6.08
3.853	3.900	-0.047	173	7089			0.00- 2.00	1.04
3.853	3.900	-0.047	174	681664			50.00- 100.00	66.42
3.853	3.900	-0.047	175	44984			5.00- 9.00	6.60
3.853	3.900	-0.047	176	677568			95.00- 101.00	99.40
3.853	3.900	-0.047	177	37888			5.00- 9.00	5.59

Data File: /chem/msd5.i/5-15jun.b/5061502.d

Date : 15-JUN-2007 09:59

Client ID: BFB

Instrument: msd5.i

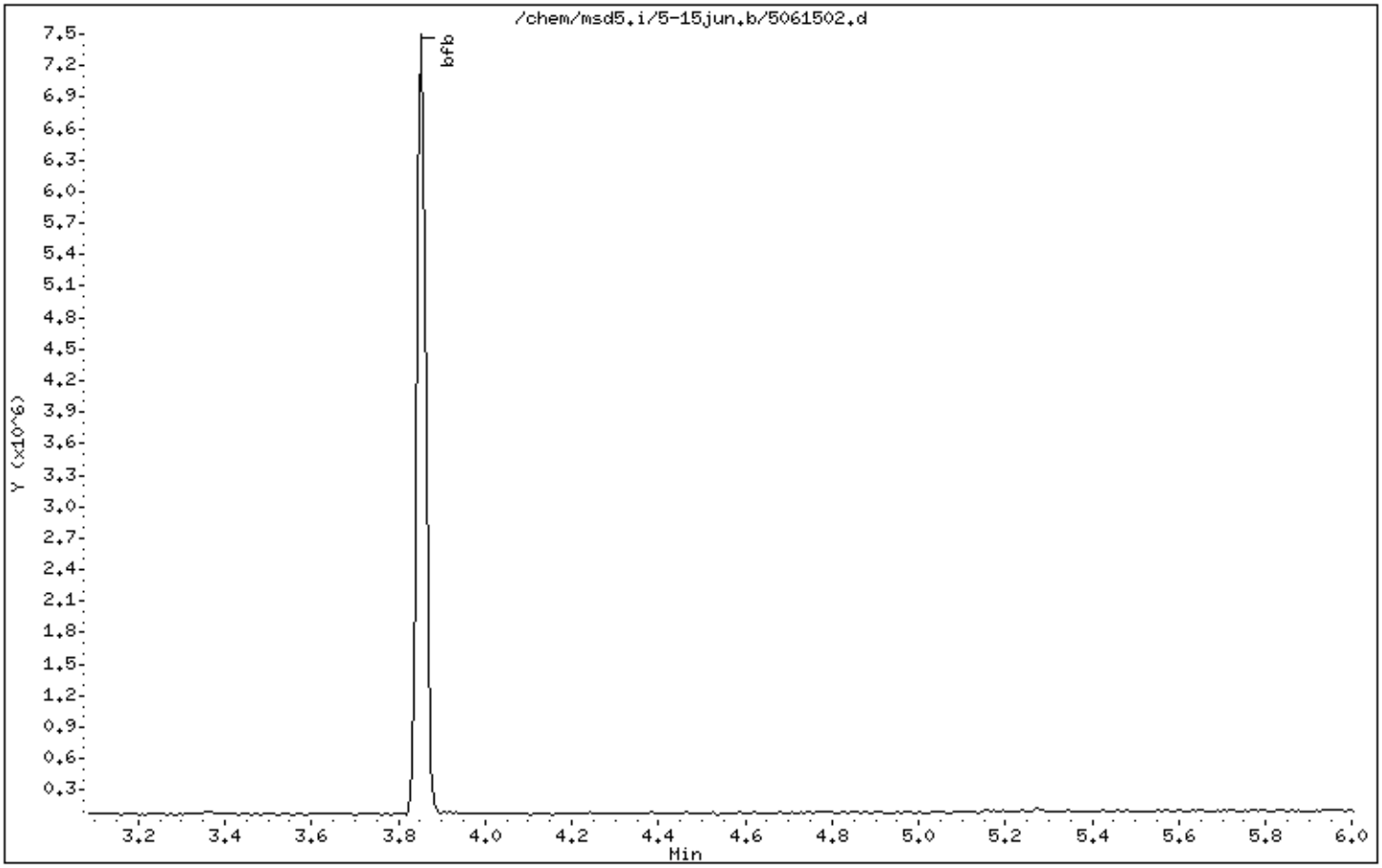
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-15jun.b/5061502.d

Date : 15-JUN-2007 09:59

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

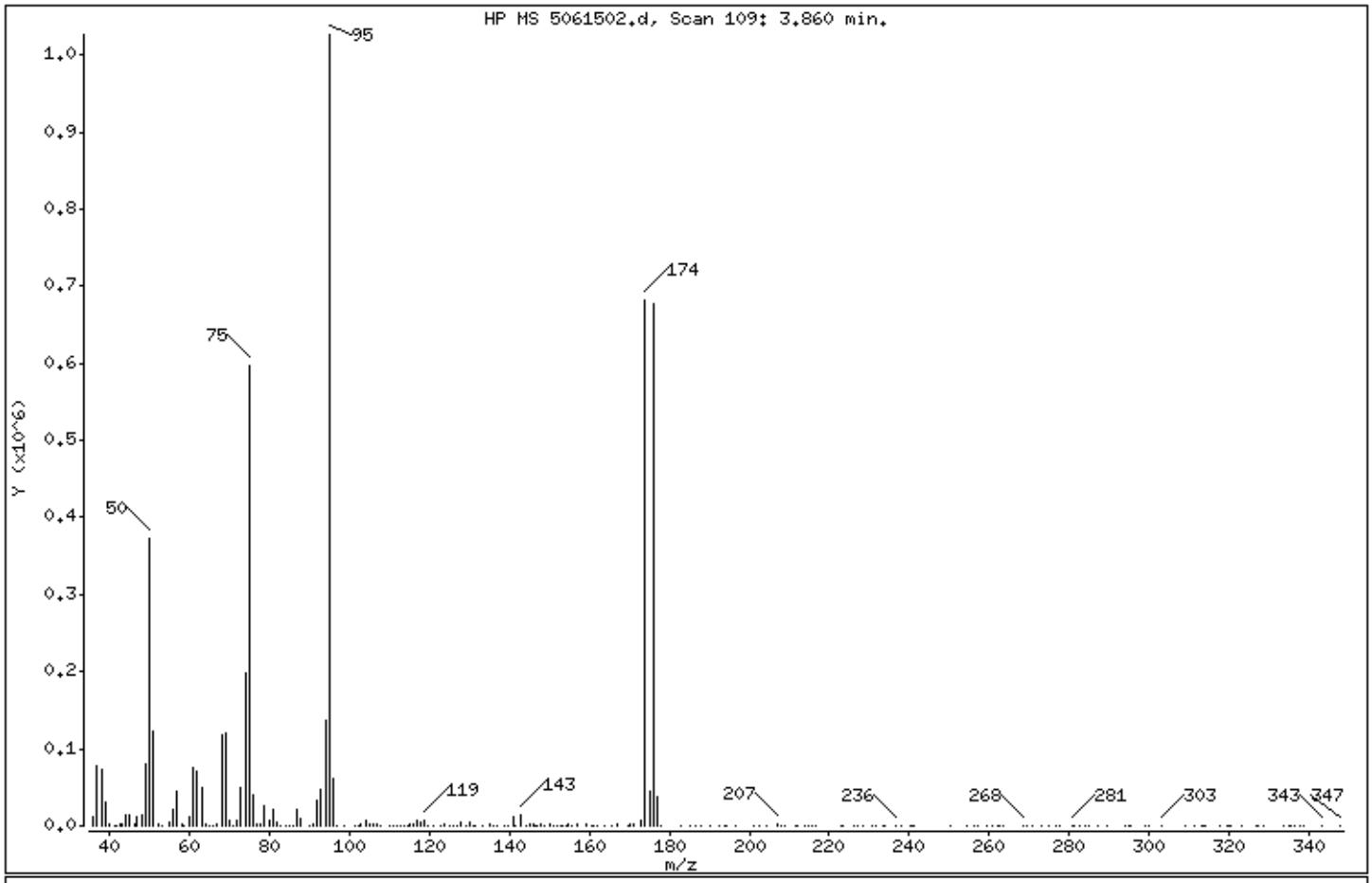
Volume Injected (uL): 1.0

Operator: JG

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	36.27
75	30.00 - 60.00% of mass 95	58.13
96	5.00 - 9.00% of mass 95	6.08
173	Less than 2.00% of mass 174	0.69 (1.04)
174	50.00 - 100.00% of mass 95	66.42
175	5.00 - 9.00% of mass 174	4.38 (6.60)
176	95.00 - 101.00% of mass 174	66.02 (99.40)
177	5.00 - 9.00% of mass 176	3.69 (5.59)

Data File: /chem/msd5.i/5-15jun.b/5061502.d

Date : 15-JUN-2007 09:59

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00

Data File: 5061502.d
Spectrum: HP MS 5061502.d, Scan 109: 3.860 min.
Location of Maximum: 95.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	11121	92.00	34096	151.10	642	237.80	155
37.00	77208	93.00	47280	152.20	550	240.40	229
38.10	72208	94.00	136384	152.70	418	240.90	283
39.10	29816	95.00	1026304	153.20	174	241.30	249
39.90	2781	96.00	62384	154.10	1133	250.50	314
41.40	796	96.90	886	154.90	2701	254.60	349
41.90	621	98.80	207	155.80	812	256.10	202
42.80	1443	101.40	638	156.90	2266	256.90	354
43.30	1200	102.50	394	159.10	2258	259.60	603
44.00	13688	103.00	2032	160.80	658	260.90	212
44.90	13033	104.00	6460	161.00	654	262.30	415
46.20	1351	105.10	1595	162.20	432	262.70	478
47.00	11624	105.90	3353	163.80	480	263.30	175
48.00	15110	106.90	2520	165.60	382	268.60	807
49.00	81104	107.70	298	166.80	1265	269.30	440
50.00	372288	109.90	657	169.70	1009	270.80	200
51.00	121928	110.90	906	170.40	1966	272.90	245
52.10	3415	111.90	561	171.10	1941	274.90	392
53.30	1100	112.90	227	173.00	7089	276.90	258
55.00	5426	113.60	542	174.00	681664	277.70	283
56.10	21752	114.50	690	175.00	44984	280.70	1027
57.00	44744	115.00	1357	176.00	677568	281.20	513
58.10	2658	115.90	2828	176.90	37888	282.60	398
58.80	411	117.00	6139	178.10	495	283.90	327
60.00	11462	117.80	4283	182.70	219	285.00	330
61.00	74704	118.80	7340	185.20	313	287.30	177
62.00	69600	119.80	177	186.60	321	289.40	260
63.00	49616	121.20	591	188.10	170	294.20	618
64.00	3027	122.90	454	190.40	986	294.80	453
64.90	925	123.90	1472	192.30	210	295.40	640
66.10	584	124.90	677	193.80	235	299.00	176
66.90	3065	126.00	325	194.30	480	299.80	463
68.00	117664	127.10	903	196.40	792	303.10	538
69.00	119248	127.90	4374	201.20	317	309.10	224
69.90	7034	129.10	839	202.70	275	311.40	203

Date : 15-JUN-2007 09:59

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: JG

Column phase: Column diameter: 2.00

Data File: 5061502.d
Spectrum: HP MS 5061502.d, Scan 109: 3.860 min.
Location of Maximum: 95.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	541	130.00	4841	204.20	879	312.90	159
72.00	7820	131.00	931	207.00	2003	313.40	240
73.00	49792	131.70	337	208.10	364	314.10	527
74.00	199296	133.20	1033	208.70	774	317.80	241
75.00	596608	135.00	1790	211.60	259	319.30	416
76.00	40640	135.90	717	212.00	247	319.80	338
77.10	1817	136.80	976	213.80	526	320.40	509
78.00	3117	138.80	866	214.60	186	323.10	452
78.90	25456	139.90	829	215.80	531	326.80	370
79.90	6834	141.00	11559	216.50	449	327.40	507
80.90	22320	141.70	515	222.90	362	328.80	470
81.80	5339	142.90	14330	223.40	555	333.40	180
83.00	786	144.10	470	226.00	569	334.80	264
84.20	863	145.10	1924	227.00	255	335.20	265
84.90	227	146.00	2910	228.30	174	336.40	258
85.80	164	146.60	651	230.80	282	337.80	483
87.00	21192	147.10	807	231.50	262	338.40	679
88.00	8574	147.80	2864	233.60	541	343.10	929
90.10	582	149.00	727	233.90	560	347.60	155
91.00	2637	150.00	1513	236.50	626		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0706160
# of pages (Including Cover): 1

6/25/2007

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Alicia Sullivan at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancy has been observed:

We have found a discrepancy between the Chain of Custody (COC) and the sample tags. The samples labeled AMS3 DW and AMS6 UW on the COC are labeled as 060607 AMS03 DW and 060607 AMS3 UW on the sample tags. ATL will report the sample identifications on the COC unless otherwise notified.

Your prompt response is appreciated.

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Page ___ of ___

Project Manager: BRIAN McCarthy
Collected by: (Print and Sign) TEX Foster [signature]
Company: GEI Consultants Email: ___
Address: 455 Winding Brook City: Glastonbury State: CT Zip: 06033
Phone: ___ Fax: ___

Project Info:
P.O. #: ___
Project #: 061140-8-1703
Project Name: BAYSHORE OU1

Turn Around Time:
☒ Normal
☐ Rush
___ specify

Lab Use Only: Pressurized by: [illegible] Date: [illegible] Pressurization Gas: N2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	AMS3 DW	34001	06/06/07	0600 1400	TO-15 + NAPTHALENE	-30	-7.5	[illegible]	[illegible]
02A	AMS6 UW	1623	06/06/07	0600 1400	TO-15 + NAPTHALENE	-30	-7.3	[illegible]	[illegible]

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	06/06/07 1500	T. LaFlesh - ATL	6/7/07 0830

Notes: used flow controllers included
Send DATA PACK TO LISA McDonough
AND EDD TO
datagroup@geiconsultants

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed EX	8617 5870 7610	NA	good	Yes No (None)	0706166

Form 1293 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0706160

Client

Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Dr. Suite 201
Glastonbury, CT 06033

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 06/21/07
Date Completed: 6/19/07
Date Received: 6/7/07
PO#: NR
Project#: 061140-8-1703 Bay Shore OU1

Sales Rep: ANS

Total $: $ 746.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS3 DW	Modified TO-15	6/6/2007	5.5 "Hg	$225.00
02A	AMS6 UW	Modified TO-15	6/6/2007	6.0 "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 (3) @ $50.00 each.	$150.00
	Blue Body Flow Controller (4) @ $35.00 each.	$140.00
	Fuel Surcharge (3) @ $2.00 each.	$6.00

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

BILL TO: Ms. Sarah Aldridge
GEI Consultants, Inc.
455 Winding Brook Dr. Suite 201
Glastonbury, CT 06033

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: mw **Date:** 6/7 **Discrepancy Type:** (circle all that apply) (I.) II. III.

Workorder(s) affected: 0706160 **Sample(s) affected:** all

I. Sample Receipt Discrepancies

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

Narration not required:

- ☐ COC was not filled out in ink.
- ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister.
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm.

Narration Required:

- ☐ COC improperly relinquished / received.
- ☒ Sample tags can numbers do not match the COC.
- ☐ Samples received at wrong temperature (up to 10°C); ice / blue ice (circle one) was present. A temp. blank was / was not present (circle one).
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: 01A: 060607 AMS3 DW 02A: 060607 AMS3 DW

II. Sample Receipt/Screening Discrepancies requiring CSR notification

Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative

If Section II. is filled out CSR must be notified within 24 hrs of initiation

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time (sulfur only) is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with significant (pooling) volume of H_2O in the Tedlar Bag.
- ☐ Sample container (cartridge/tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one); sample can / cannot be analyzed (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister was at ambient pressure at time of pressurization and (check all that apply): ☐ canister failed leak check on two manifolds, ☐ canister valve was open, ☐ brass nut was loose. Sample can / cannot be analyzed (circle one).
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Sample was received at ≥ 10°C.
- ☐ Other (describe below)

Initials: _____ **Date:** _____ ☐ **CSR Notified**
(If not the original initiator) (see section below)

Describe the Discrepancy: _____

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0706160

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

NA	☑	☐		☐ 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_2 or He) ☐ Tedlar Bag only
☑	☑			Final pressure consistent with canister size (6L vs. 1L)
☑	☑			Verify receipt pressures against logbook and Target
☐	☑			Verify canister ID #'s
	☑	☑		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: 1 out in CCV, 1 out in LCS

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
6/18/07	R: 6/19/07	6/19/07	
	T:		

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

Not Applicable