eCVP

Electronic Comprehensive Validation Package

WO# 0704011

Air Toxics Ltd.

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0704011

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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	4/18/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0704011

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 BayShore OU1 S.Cell
DATE RECEIVED:	04/02/2007	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/13/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	34312	Modified TO-15	5.0 "Hg
02A	33981	Modified TO-15	5.0 "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: 04/13/07

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

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LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0704011

Two 6 Liter Summa Canister samples were received on April 02, 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.

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

Sample identifications were not provided on the Chain of Custody. The discrepancy was noted in the Sample Receipt Confirmation email/fax and the canister numbers were used to process and report the samples.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
34312	0704011-01A	3/29/2007	4/ 2/2007	NA	8	4/ 6/2007	NA	Good
33981	0704011-02A	3/29/2007	4/ 2/2007	NA	8	4/ 6/2007	NA	Good
Lab Blank	0704011-03A	NA	NA	NA	NA	4/ 6/2007	NA	Good
CCV	0704011-04A	NA	NA	NA	NA	4/ 6/2007	NA	Good
LCS	0704011-05A	NA	NA	NA	NA	4/ 6/2007	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: 34312

Lab ID#: 0704011-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.2	3.8	7.6	9.2
2-Butanone (Methyl Ethyl Ketone)	0.80	1.1	2.4	3.1

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 34312

Lab ID#: 0704011-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040618**	**Date of Collection:**	**3/29/07**
Dil. Factor:	**1.61**	**Date of Analysis:**	**4/6/07 10:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
Benzene	0.80	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Toluene	0.80	Not Detected	3.0	Not Detected
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.2	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 34312

Lab ID#: 0704011-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040618**	**Date of Collection: 3/29/07**	
Dil. Factor:	**1.61**	**Date of Analysis: 4/6/07 10:54 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.80	Not Detected	3.3	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	3.2	3.8	7.6	9.2
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	1.1	2.4	3.1
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
Ethanol	3.2	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-06apr.b/5040618.d
Lab Smp Id: 0704011-01A
Inj Date : 06-APR-2007 22:54
Operator : kr Inst ID: msd5.i
Smp Info : 200ml #34312
Misc Info : 5.0"Hg-5.0psi
Comment :
Method : /chem/msd5.i/5-06apr.b/t14q404a.m
Meth Date : 13-Apr-2007 08:07 dbailey Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.d
Als bottle: 1
Dil Factor: 1.61000
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		
7.693	7.721 (1.000)	130	373607	25.0000		80.00- 120.00	100.00
7.693	7.721 (1.000)	128	291730			47.49- 107.49	78.08
7.693	7.693 (1.000)	49	1098654			264.97- 324.97	294.07
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.573	9.601 (1.000)	114	1607902	25.0000		80.00- 120.00	100.00
9.573	9.573 (1.000)	88	290113			0.00- 48.37	18.04
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1465091	25.0000		80.00- 120.00	100.00
14.827	14.827 (1.000)	82	899085			33.70- 93.70	61.37
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.771	8.771 (1.140)	65	754553	23.8481	23.848	80.00- 120.00	100.00
8.771	8.771 (1.140)	67	365691			30.41- 90.41	48.46
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1652176	24.7461	24.746	80.00- 120.00	100.00
12.421	12.421 (1.297)	70	191911			0.00- 42.60	11.62

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1046858			42.61- 102.61	63.36
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	995555	24.2564	24.256	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1468540			118.56- 178.56	147.51
16.430	16.430 (1.108)	176	943232			66.29- 126.29	94.74
22 Acetone					CAS #: 67-64-1		
4.431	4.403 (0.576)	58	36969	2.39517	3.856	80.00- 120.00	100.00
4.431	4.403 (0.576)	43	162182			372.89- 432.89	438.70
53 2-Butanone					CAS #: 78-93-3		
7.334	7.306 (0.953)	72	7047	0.65980	1.062	80.00- 120.00	100.00
7.361	7.306 (0.957)	43	55090			779.72- 839.72	781.75
7.306	7.306 (0.950)	57	2150			22.22- 82.22	30.51

Report Date: 13-Apr-2007 11:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040618.d
Lab Smp Id: 0704011-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 5.0"Hg-5.0psi

Calibration Date: 06-APR-2007
Calibration Time: 09:48
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	416168	249701	582635	373607	-10.23
79 1,4-Difluorobenze	1709302	1025581	2393023	1607902	-5.93
108 Chlorobenzene-d5	1609376	965626	2253126	1465091	-8.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.72	7.39	8.05	7.69	-0.36
79 1,4-Difluorobenze	9.60	9.27	9.93	9.57	-0.29
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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: 13-Apr-2007 11:57

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-06apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0704011-01A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 5.0"Hg-5.0psi

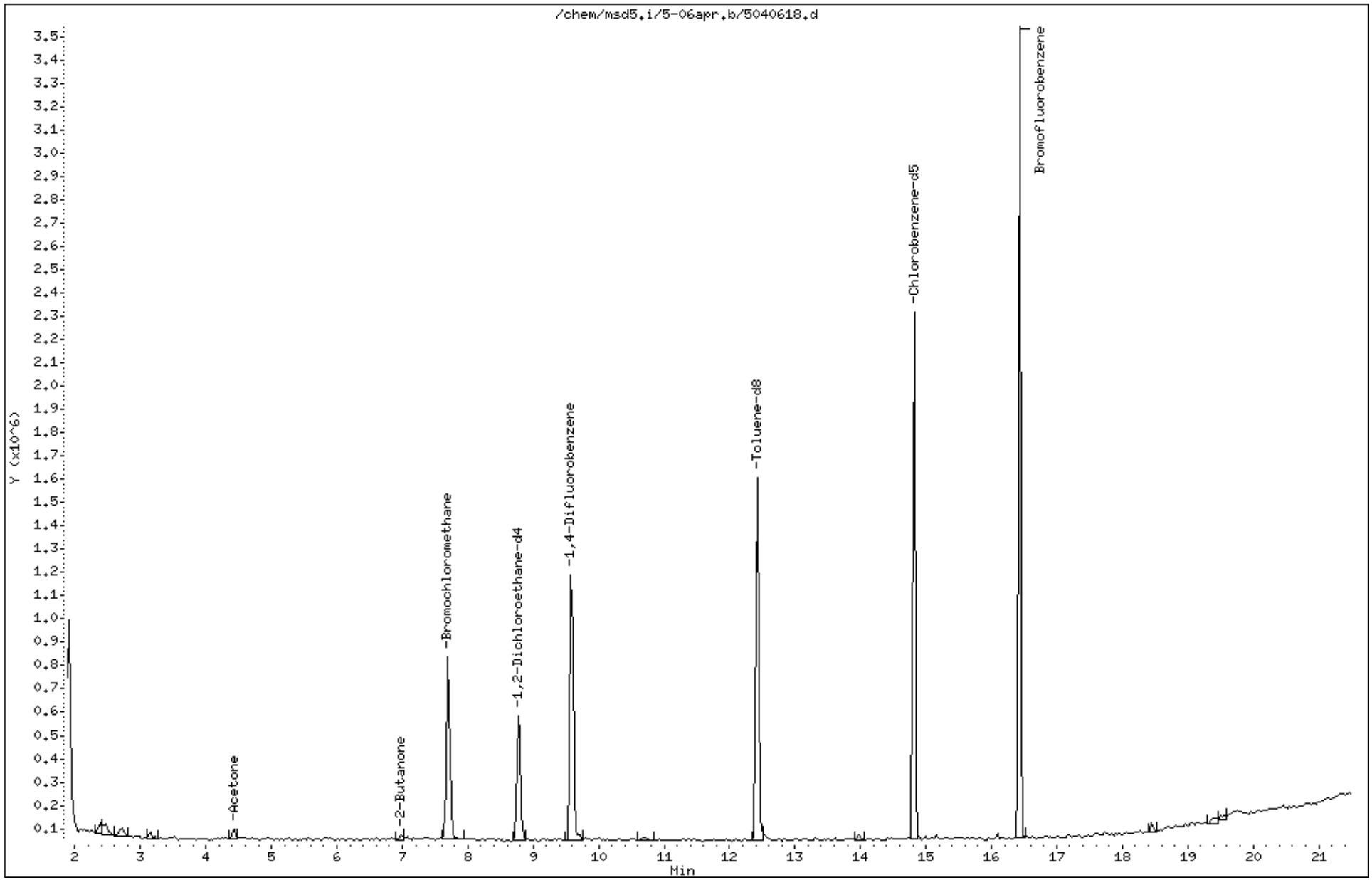
	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71	1,2-Dichloroethane	25.000	23.848	95.39	70-130
$ 97	Toluene-d8	25.000	24.746	98.98	70-130
$ 122	Bromofluorobenzene	25.000	24.256	97.03	70-130

0013

Data File: /chem/msd5.i/5-06apr.b/5040618.d
Date : 06-APR-2007 22:54
Client ID:
Sample Info: 200ml #34312

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

Column phase: RTx-624



Data File: /chem/msd5.i/5-06apr.b/5040618.d

Date : 06-APR-2007 22:54

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34312

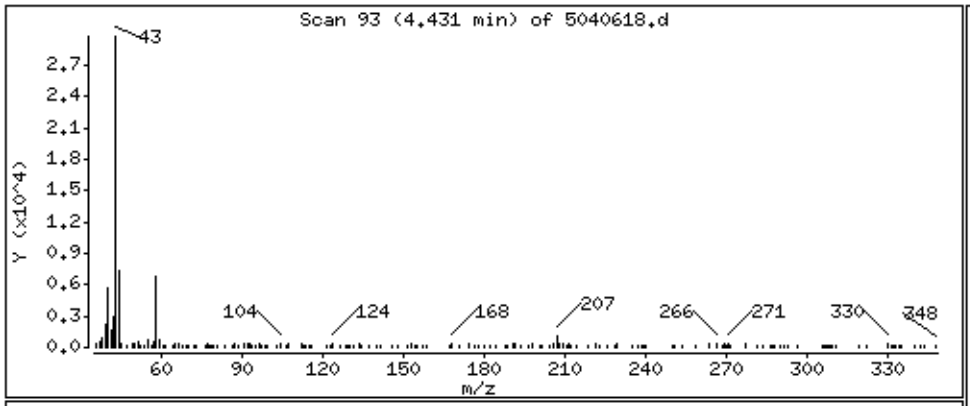
Operator: kr

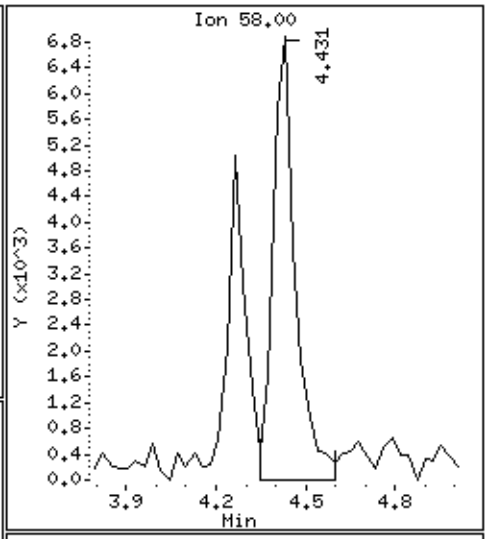
Column phase: RTx-624

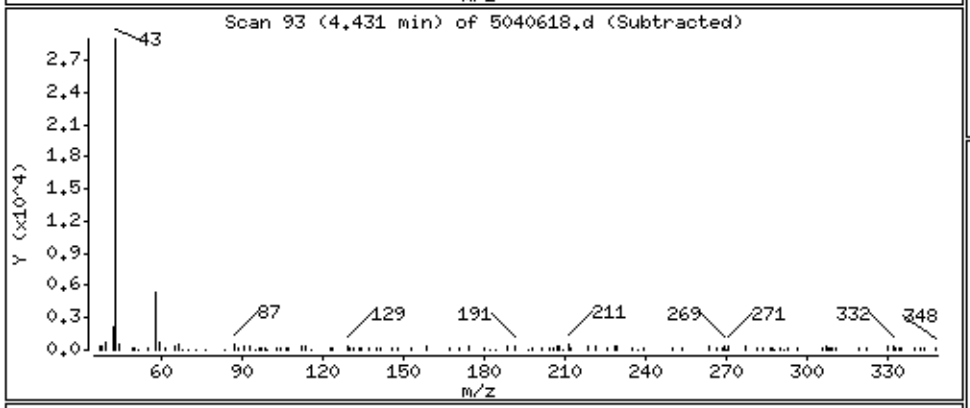
Column diameter: 0.53

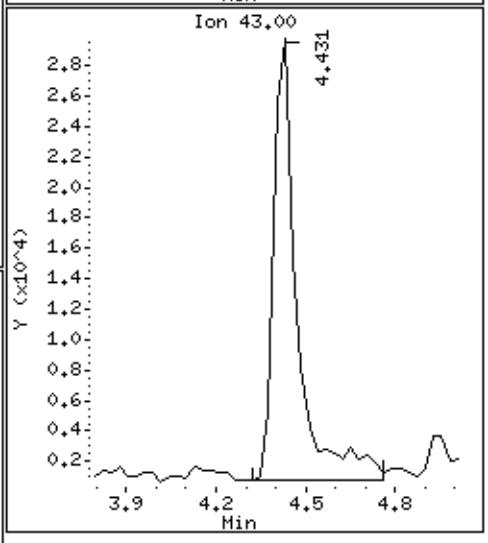
22 Acetone

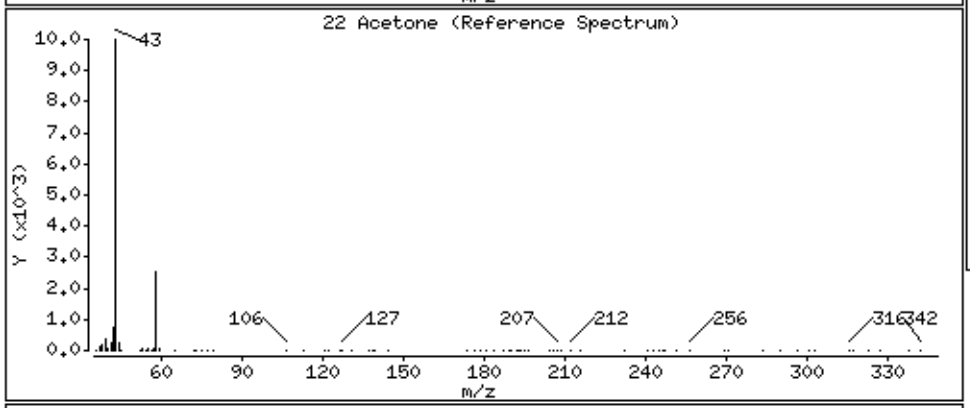
Concentration: 3.856 PPBV

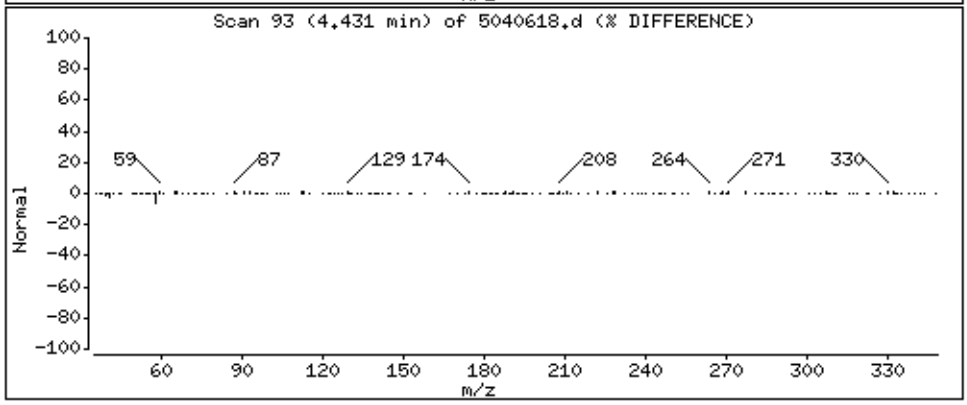












Data File: /chem/msd5.i/5-06apr.b/5040618.d

Date : 06-APR-2007 22:54

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34312

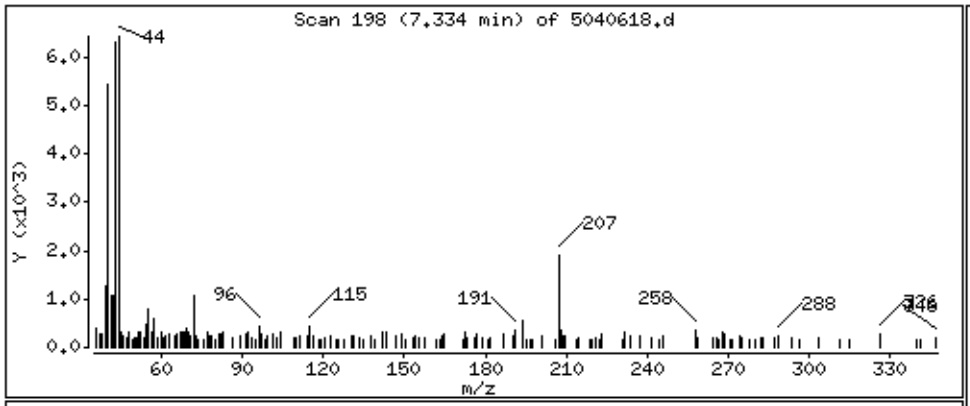
Operator: kr

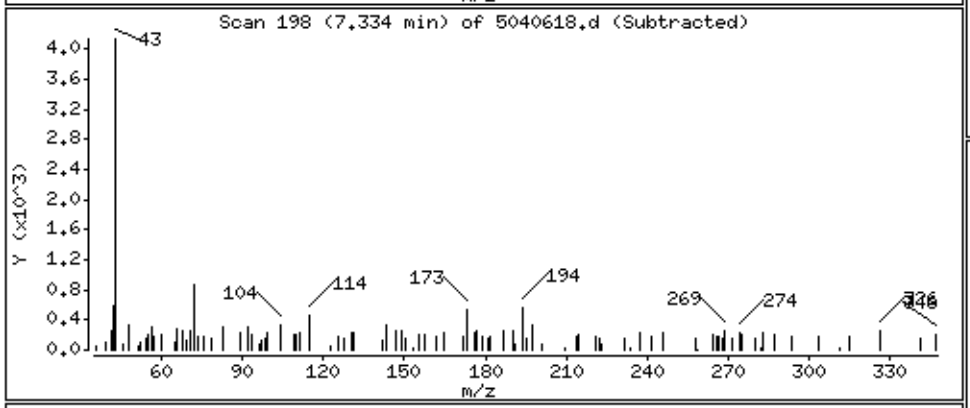
Column phase: RTx-624

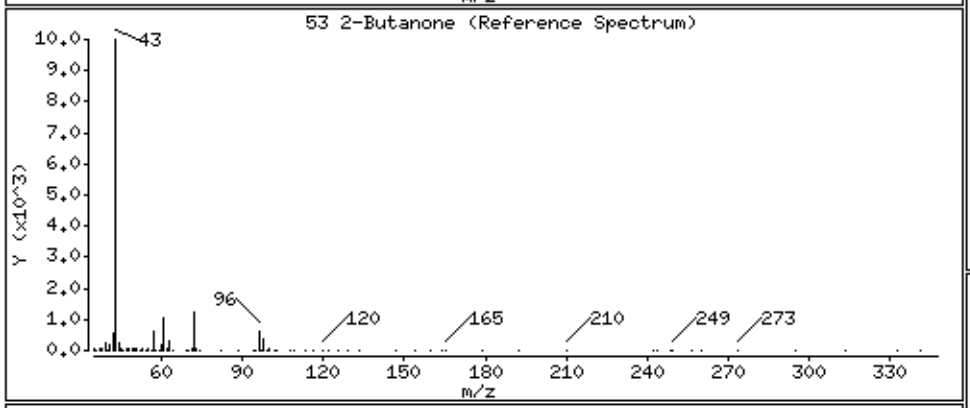
Column diameter: 0.53

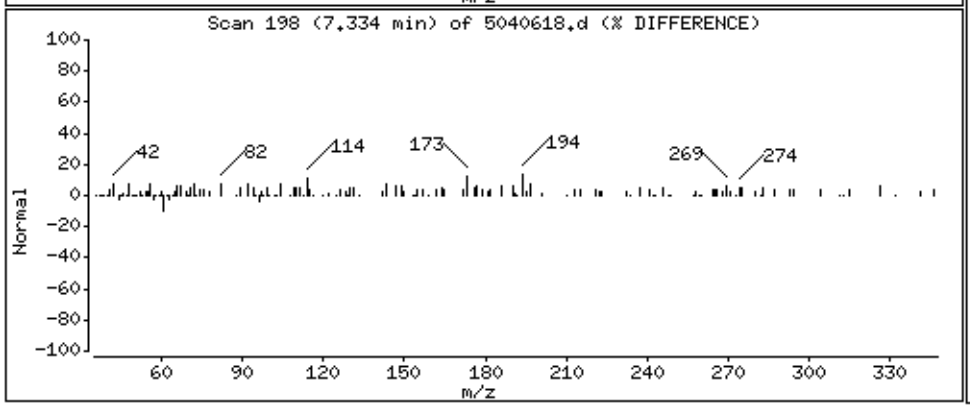
53 2-Butanone

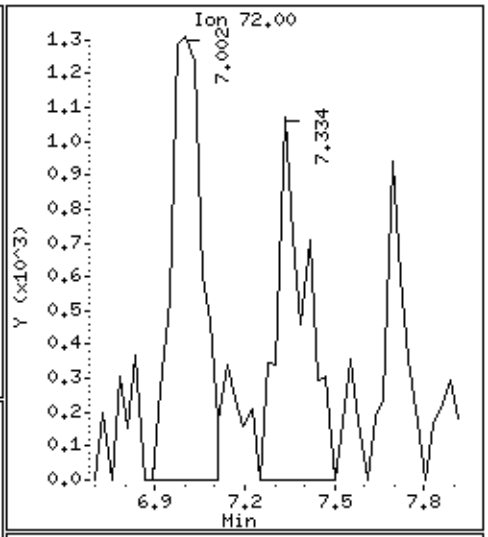
Concentration: 1.062 PPBV

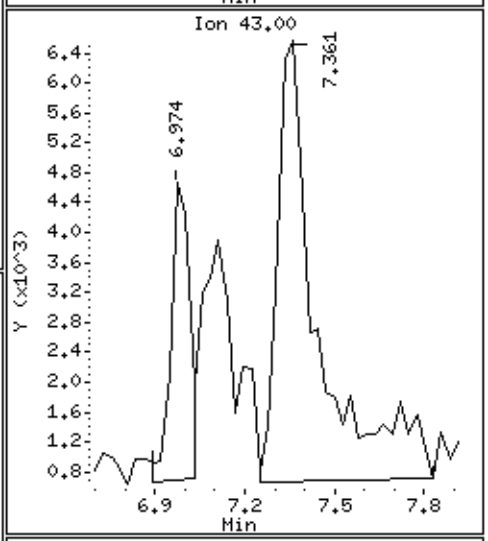


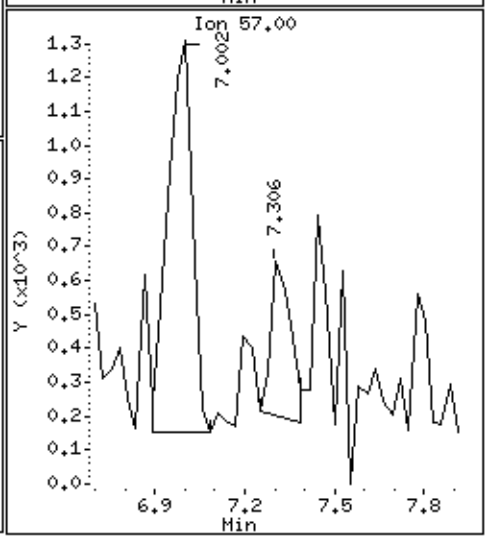












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: 33981

Lab ID#: 0704011-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Trichloroethene	0.80	1.9	4.3	10
Toluene	0.80	0.83	3.0	3.1
Acetone	3.2	3.6	7.6	8.6

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 33981

Lab ID#: 0704011-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040619**	**Date of Collection:**	**3/29/07**
Dil. Factor:	**1.61**	**Date of Analysis:**	**4/6/07 11:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Freon 114	0.80	Not Detected	5.6	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Bromomethane	0.80	Not Detected	3.1	Not Detected
Chloroethane	0.80	Not Detected	2.1	Not Detected
Freon 11	0.80	Not Detected	4.5	Not Detected
1,1-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Freon 113	0.80	Not Detected	6.2	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Chloroform	0.80	Not Detected	3.9	Not Detected
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Carbon Tetrachloride	0.80	Not Detected	5.1	Not Detected
Benzene	0.80	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	1.9	4.3	10
1,2-Dichloropropane	0.80	Not Detected	3.7	Not Detected
cis-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
Toluene	0.80	0.83	3.0	3.1
trans-1,3-Dichloropropene	0.80	Not Detected	3.6	Not Detected
1,1,2-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.2	Not Detected
Chlorobenzene	0.80	Not Detected	3.7	Not Detected
Ethyl Benzene	0.80	Not Detected	3.5	Not Detected
m,p-Xylene	0.80	Not Detected	3.5	Not Detected
o-Xylene	0.80	Not Detected	3.5	Not Detected
Styrene	0.80	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.80	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
alpha-Chlorotoluene	0.80	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Hexane	0.80	Not Detected	2.8	Not Detected
Cyclohexane	0.80	Not Detected	2.8	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: 33981

Lab ID#: 0704011-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040619**	**Date of Collection: 3/29/07**	
Dil. Factor:	**1.61**	**Date of Analysis: 4/6/07 11:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.80	Not Detected	3.3	Not Detected
Bromodichloromethane	0.80	Not Detected	5.4	Not Detected
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
Cumene	0.80	Not Detected	4.0	Not Detected
Propylbenzene	0.80	Not Detected	4.0	Not Detected
Chloromethane	3.2	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	3.2	Not Detected	24	Not Detected
Hexachlorobutadiene	3.2	Not Detected	34	Not Detected
Acetone	3.2	3.6	7.6	8.6
Carbon Disulfide	0.80	Not Detected	2.5	Not Detected
2-Propanol	3.2	Not Detected	7.9	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.80	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.80	Not Detected	2.4	Not Detected
1,4-Dioxane	3.2	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.80	Not Detected	3.3	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected
Bromoform	0.80	Not Detected	8.3	Not Detected
4-Ethyltoluene	0.80	Not Detected	4.0	Not Detected
Ethanol	3.2	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	0.80	Not Detected	2.9	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.80	Not Detected	3.8	Not Detected
Naphthalene	3.2	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-06apr.b/5040619.d
Lab Smp Id: 0704011-02A
Inj Date : 06-APR-2007 23:26
Operator : kr Inst ID: msd5.i
Smp Info : 200ml #33981
Misc Info : 5.0"Hg-5.0psi
Comment :
Method : /chem/msd5.i/5-06apr.b/t14q404a.m
Meth Date : 13-Apr-2007 08:07 dbailey Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.d
Als bottle: 1
Dil Factor: 1.61000
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		
7.693	7.721 (1.000)	130	368072	25.0000		80.00- 120.00	100.00
7.693	7.721 (1.000)	128	302701			47.49- 107.49	82.24
7.693	7.693 (1.000)	49	1091890			264.97- 324.97	296.65
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.573	9.601 (1.000)	114	1614450	25.0000		80.00- 120.00	100.00
9.573	9.573 (1.000)	88	293785			0.00- 48.37	18.20
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1441480	25.0000		80.00- 120.00	100.00
14.827	14.827 (1.000)	82	882410			33.70- 93.70	61.22
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.771	8.771 (1.140)	65	727731	23.3463	23.346	80.00- 120.00	100.00
8.771	8.771 (1.140)	67	360670			30.41- 90.41	49.56
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1603647	23.9218	23.922	80.00- 120.00	100.00
12.421	12.421 (1.297)	70	195987			0.00- 42.60	12.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1040443			42.61- 102.61	64.88
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	981459	24.3046	24.305	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1441845			118.56- 178.56	146.91
16.430	16.430 (1.108)	176	924904			66.29- 126.29	94.24
22 Acetone					CAS #: 67-64-1		
4.430	4.403 (0.576)	58	34357	2.25942	3.638	80.00- 120.00	100.00
4.430	4.403 (0.576)	43	125118			372.89- 432.89	364.17
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	29208	1.17340	1.889	80.00- 120.00	100.00
9.988	10.016 (1.043)	130	21301			63.56- 123.56	72.93
9.988	9.988 (1.043)	97	18418			35.09- 95.09	63.06
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.312)	91	33478	0.51536	0.8297	80.00- 120.00	100.00
12.559	12.559 (1.312)	92	19944			30.68- 90.68	59.57

Report Date: 13-Apr-2007 11:57

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040619.d
Lab Smp Id: 0704011-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: kr
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 5.0"Hg-5.0psi

Calibration Date: 06-APR-2007
Calibration Time: 09:48

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	416168	249701	582635	368072	-11.56
79 1,4-Difluorobenze	1709302	1025581	2393023	1614450	-5.55
108 Chlorobenzene-d5	1609376	965626	2253126	1441480	-10.43

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.72	7.39	8.05	7.69	-0.36
79 1,4-Difluorobenze	9.60	9.27	9.93	9.57	-0.29
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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: 13-Apr-2007 11:57

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-06apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0704011-02A
Level: LOW Operator: kr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 5.0"Hg-5.0psi

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71	1,2-Dichloroethane	25.000	23.346	93.39	70-130
$ 97	Toluene-d8	25.000	23.922	95.69	70-130
$ 122	Bromofluorobenzene	25.000	24.305	97.22	70-130

Data File: /chem/msd5.i/5-06apr.b/5040619.d

Date : 06-APR-2007 23:26

Client ID:

Sample Info: 200ml #33981

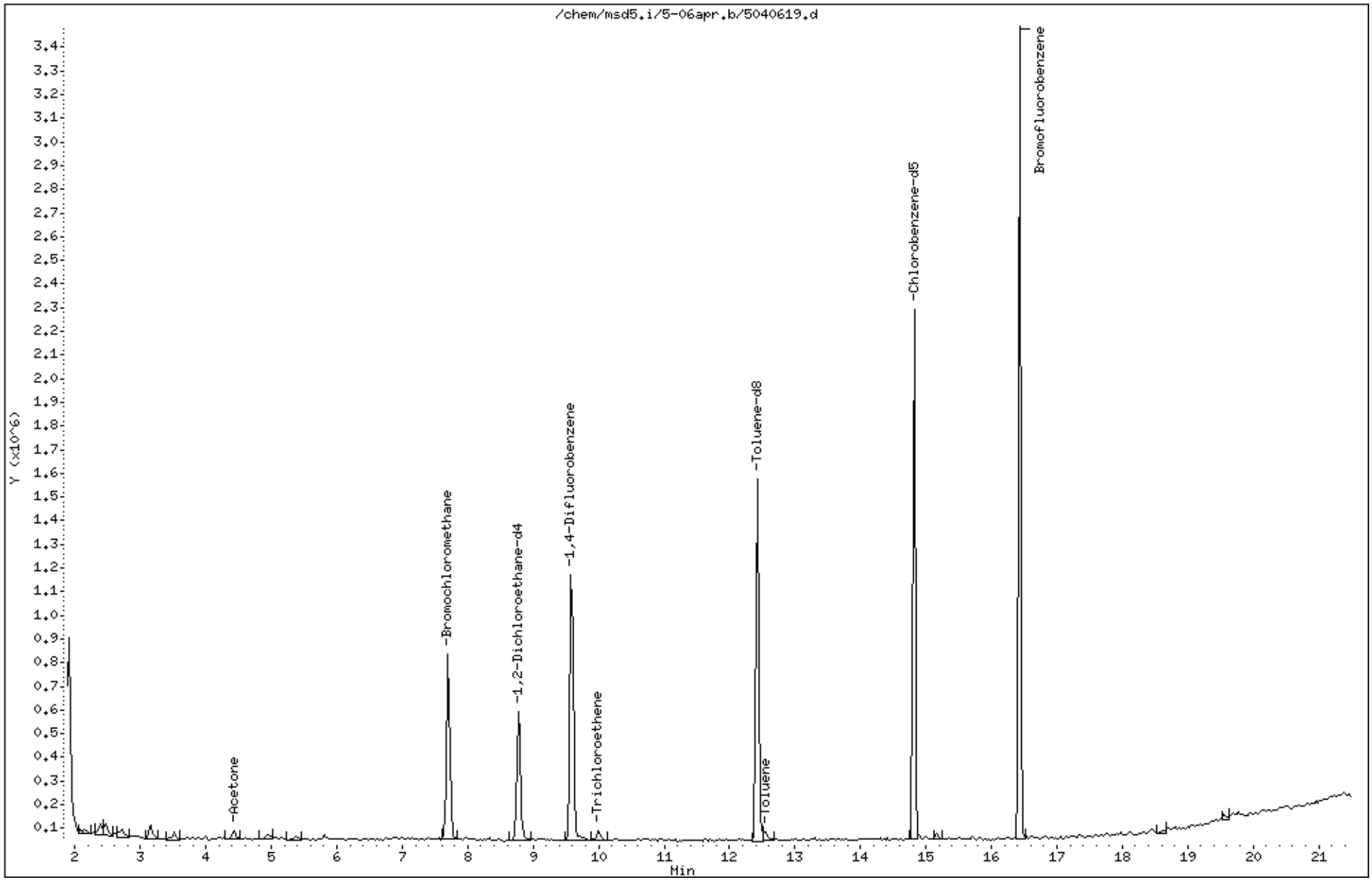
Column phase: RTx-624

Instrument: msd5.i

Operator: kr

Column diameter: 0.53

0023



Data File: /chem/msd5.i/5-06apr.b/5040619.d

Date : 06-APR-2007 23:26

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33981

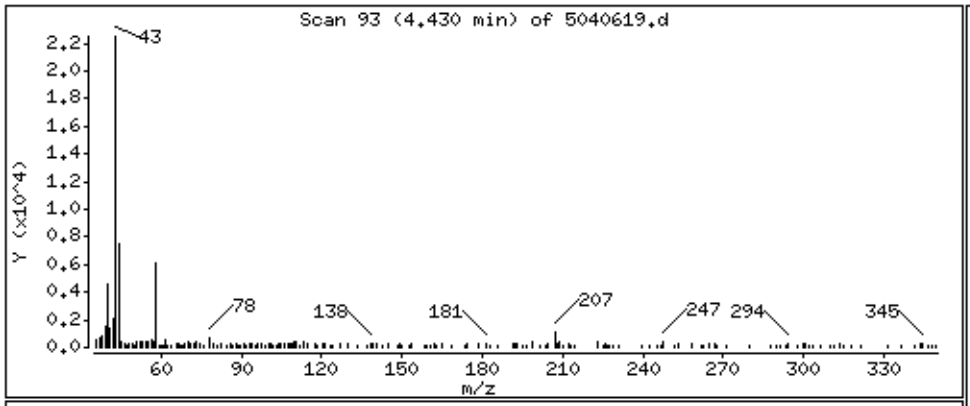
Operator: kr

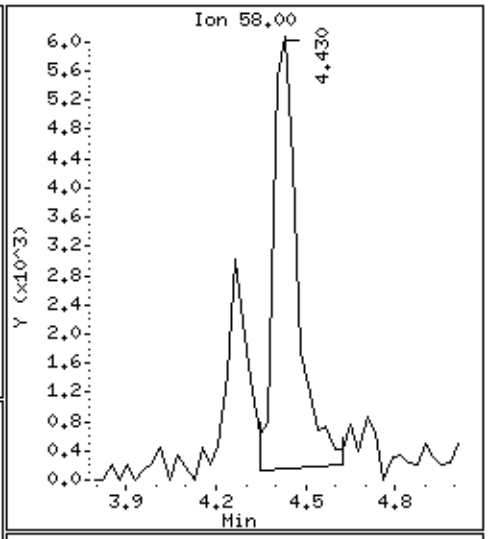
Column phase: RTx-624

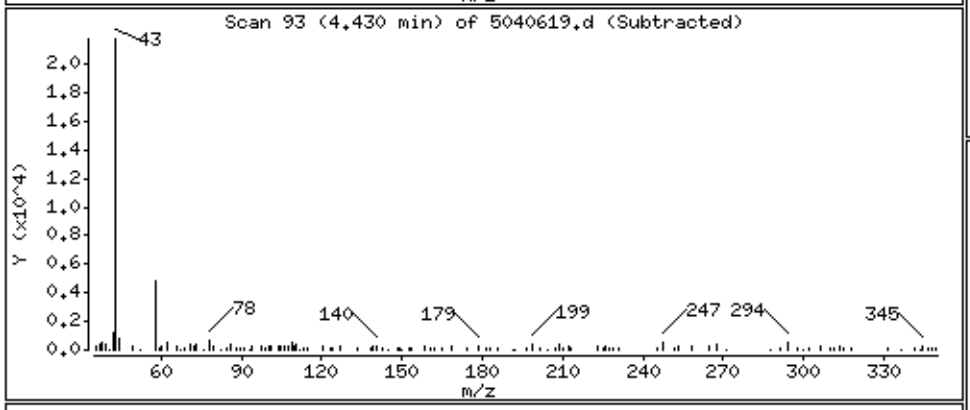
Column diameter: 0.53

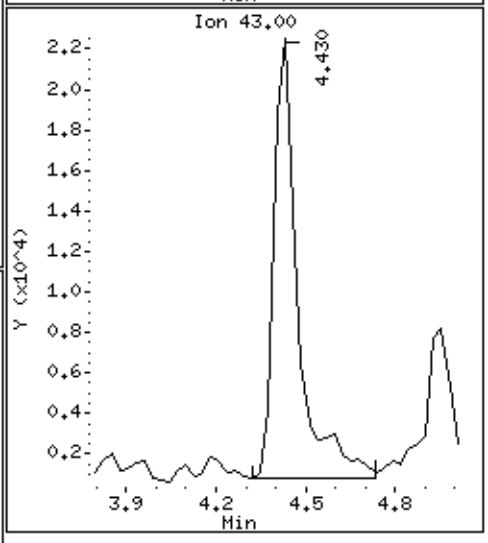
22 Acetone

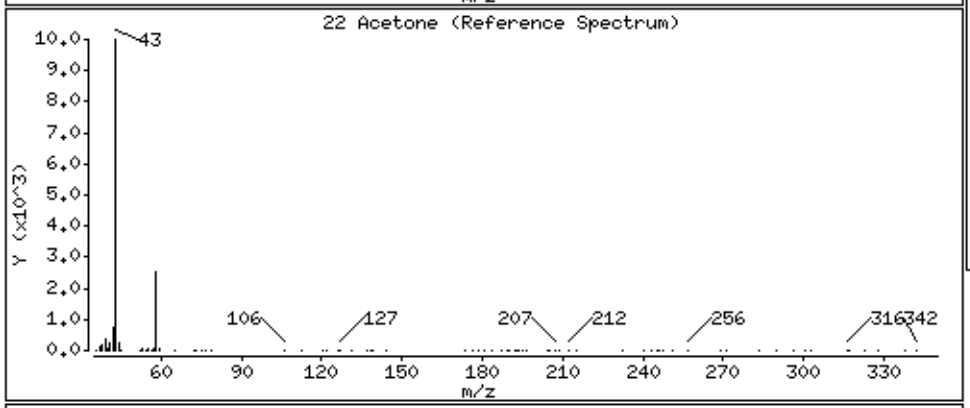
Concentration: 3.638 PPBV

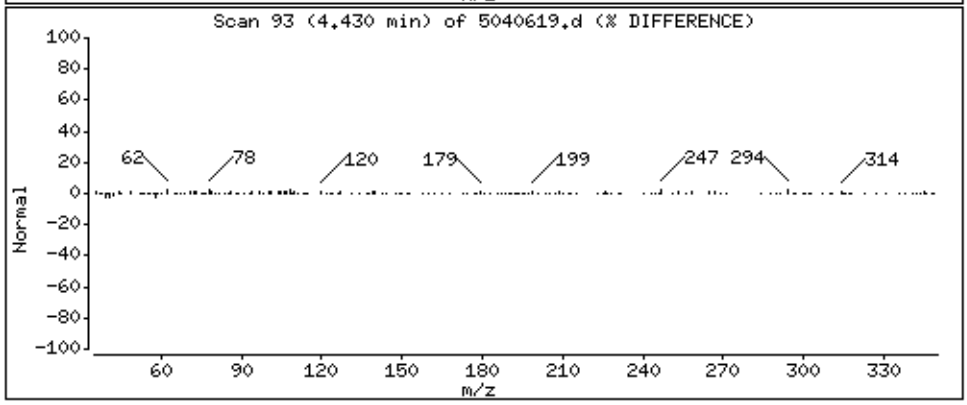












Data File: /chem/msd5.i/5-06apr.b/5040619.d

Date : 06-APR-2007 23:26

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33981

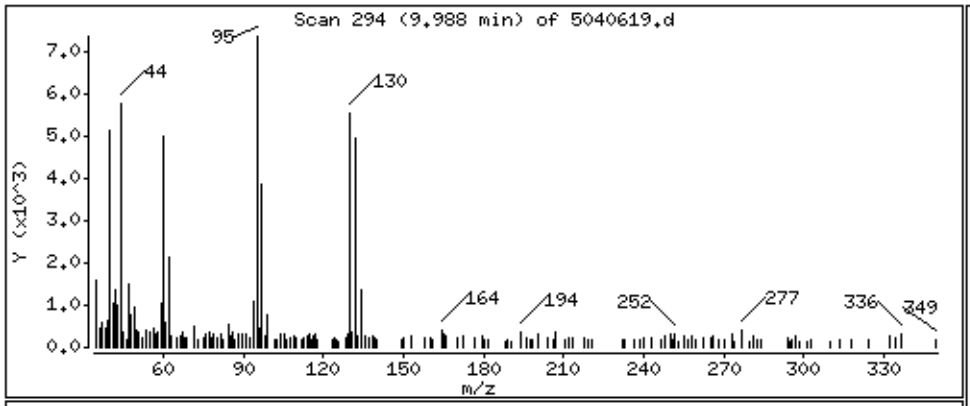
Operator: kr

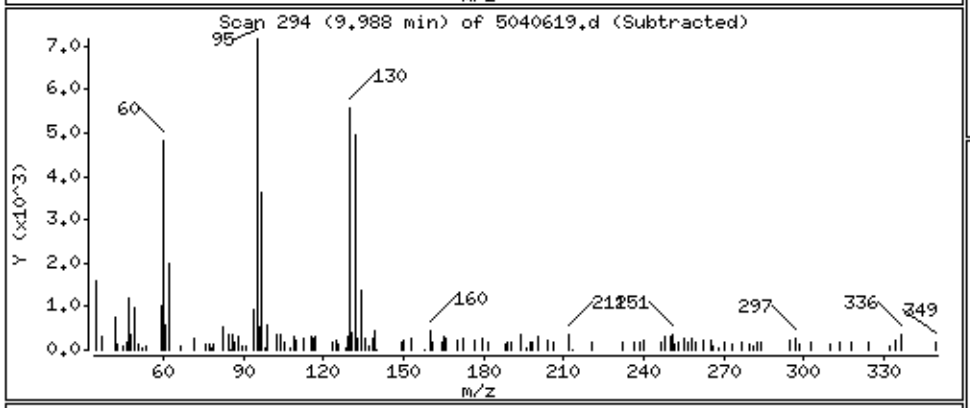
Column phase: RTx-624

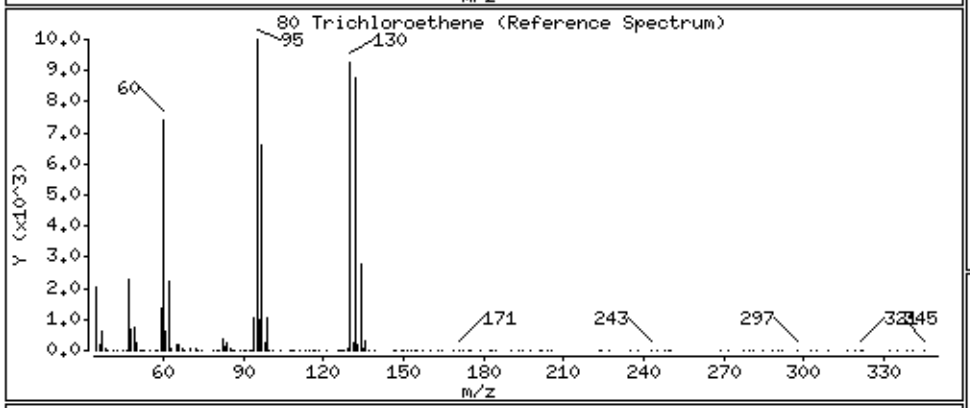
Column diameter: 0.53

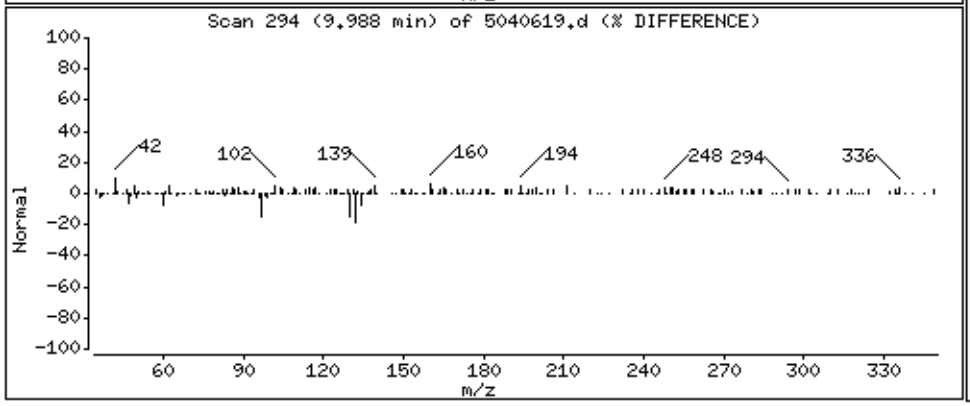
80 Trichloroethene

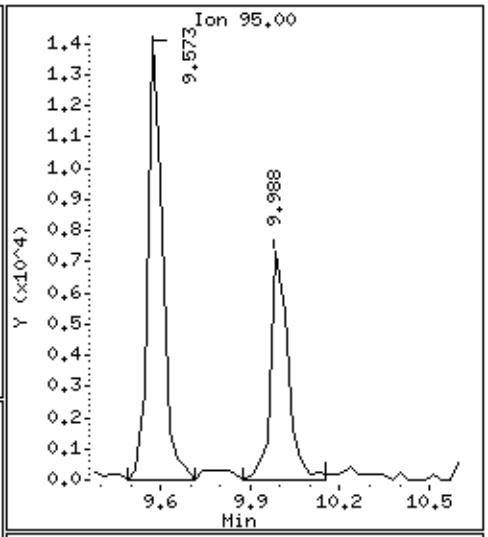
Concentration: 1.889 PPBV

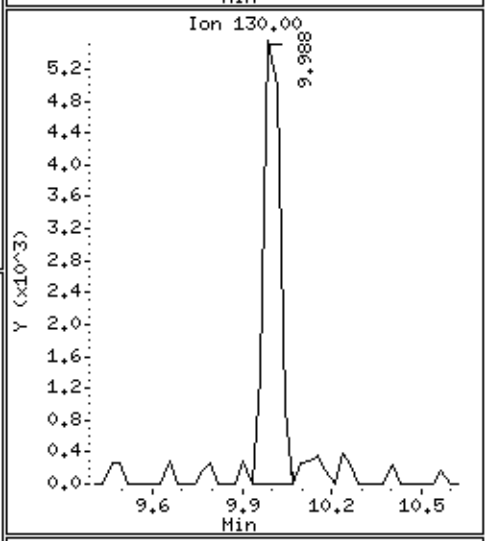


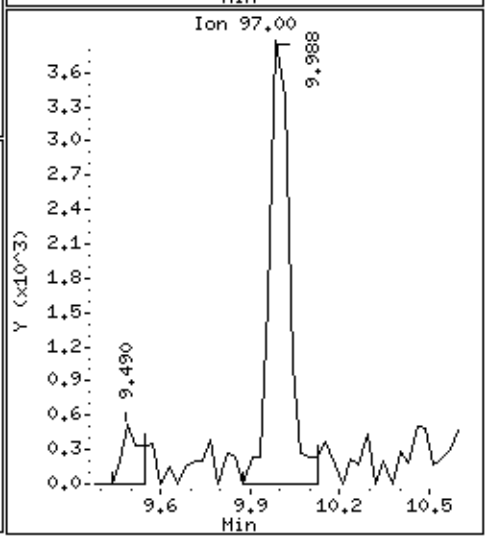












Data File: /chem/msd5.i/5-06apr.b/5040619.d

Date : 06-APR-2007 23:26

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33981

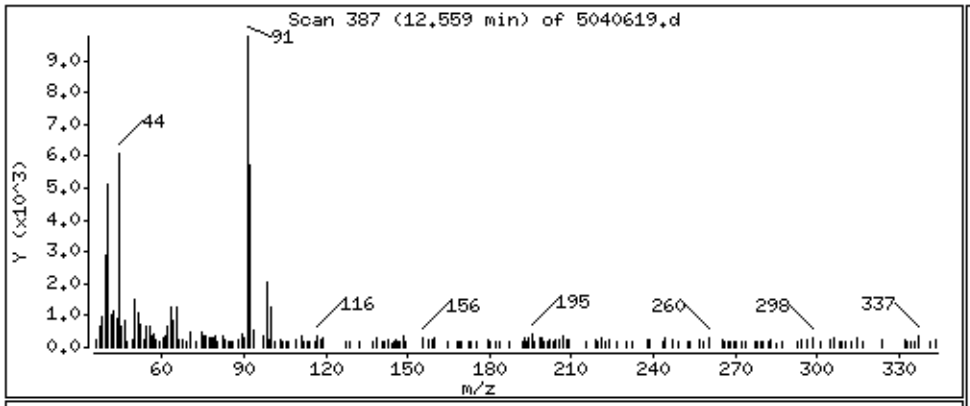
Operator: kr

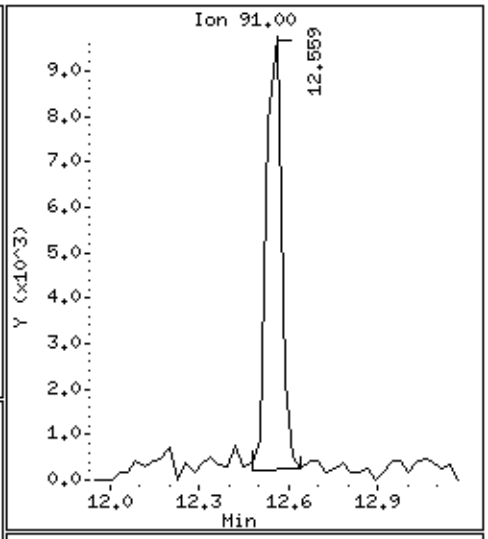
Column phase: RTx-624

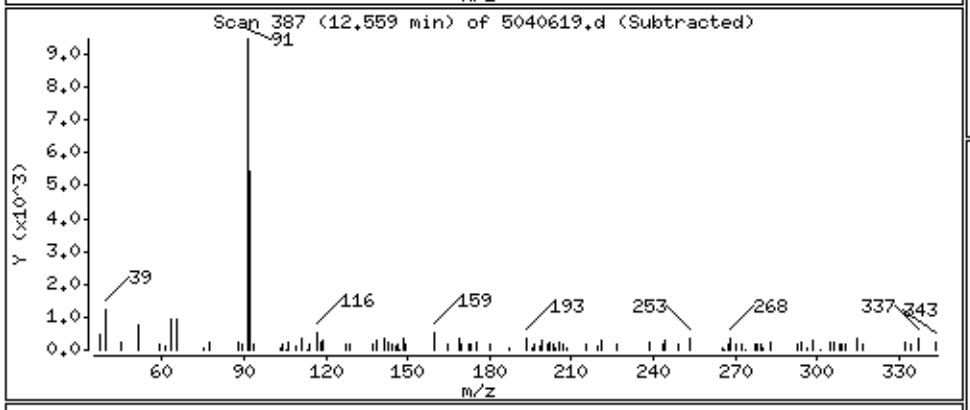
Column diameter: 0.53

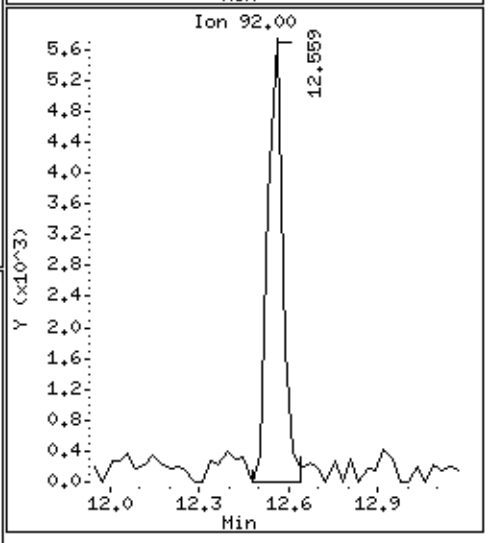
99 Toluene

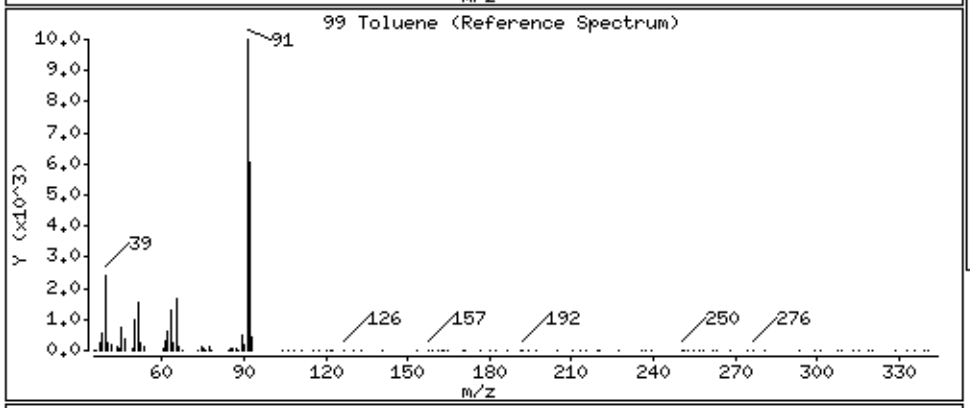
Concentration: 0.8297 PPBV

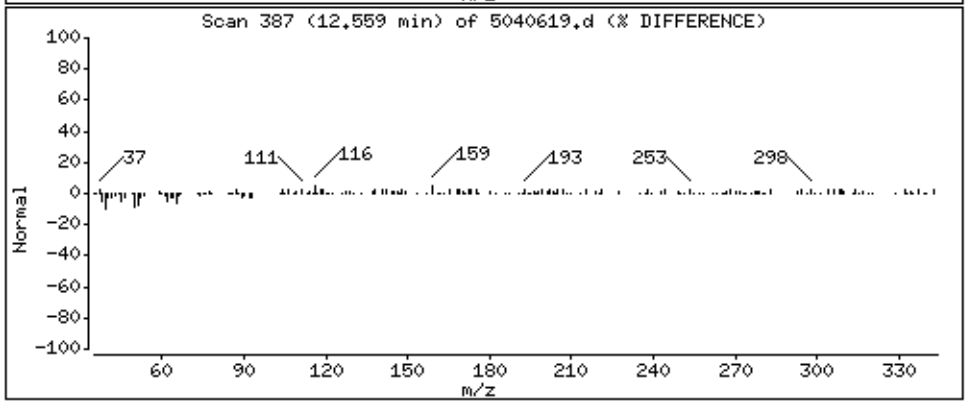












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0704011-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 11:28 AM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0704011-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040604**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 11:28 AM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-06apr.b/5040604.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 06-APR-2007 11:28
Operator : JG Inst ID: msd5.i
Smp Info : 200ml #13673
Misc Info : Humid
Comment :
Method : /chem/msd5.i/5-06apr.b/t14q404a.m
Meth Date : 06-Apr-2007 11:34 ctaylor Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+Na.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		
7.721	7.721 (1.000)	130	372853	25.0000		80.00- 120.00	100.00
7.721	7.721 (1.000)	128	289040			47.49- 107.49	77.52
7.693	7.721 (1.000)	49	1100605			264.97- 324.97	295.18
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.573	9.601 (1.000)	114	1573062	25.0000		80.00- 120.00	100.00
9.573	9.601 (1.000)	88	286761			0.00- 48.37	18.23
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1450095	25.0000		80.00- 120.00	100.00
14.827	14.827 (1.000)	82	863272			33.70- 93.70	59.53
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.771	8.771 (1.136)	65	728825	23.0816	23.082	80.00- 120.00	100.00
8.771	8.771 (1.136)	67	359261			30.41- 90.41	49.29
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1612428	24.6856	24.686	80.00- 120.00	100.00
12.421	12.421 (1.297)	70	195793			0.00- 42.60	12.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1046306			42.61- 102.61	64.89
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	952066	23.4367	23.437	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1464538			118.56- 178.56	153.83
16.430	16.430 (1.108)	176	918599			66.29- 126.29	96.48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040604.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: Humid

Calibration Date: 06-APR-2007
Calibration Time: 09:48
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	416168	249701	582635	372853	-10.41
79 1,4-Difluorobenze	1709302	1025581	2393023	1573062	-7.97
108 Chlorobenzene-d5	1609376	965626	2253126	1450095	-9.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.72	7.39	8.05	7.72	0.00
79 1,4-Difluorobenze	9.60	9.27	9.93	9.57	-0.29
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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: 06-Apr-2007 11:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-06apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 1502+Na.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: Humid

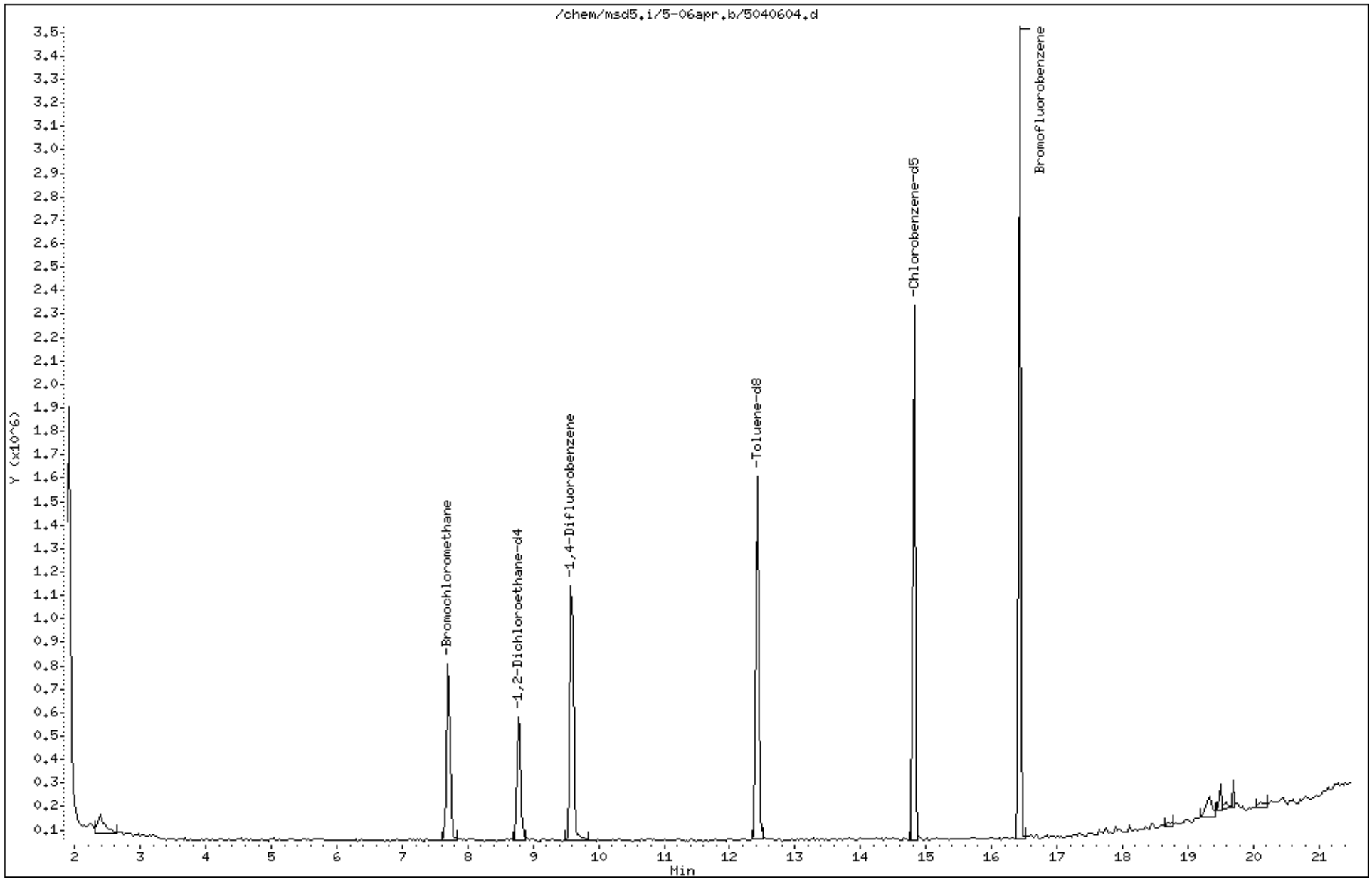
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	23.082	92.33	70-130
$ 97 Toluene-d8	25.000	24.686	98.74	70-130
$ 122 Bromofluorobenzene	25.000	23.437	93.75	70-130

0034

Data File: /chem/msd5.i/5-06apr.b/5040604.d
Date : 06-APR-2007 11:28
Client ID: Lab Blank
Sample Info: 200ml #13673

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

Column phase: RTx-624



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0704011

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	34312	95		99		97				0
02	33981	93		96		97				0
03	Lab Blank	92		99		94				0
04	CCV	98		100		96				0
05	LCS	97		100		101				0
06										0
07										0
08										0
09										0
10										0
11										0
12										0
13										0
14										0
15										0
16										0
17										0
18										0
19										0
20										0
21										0
22										0
23										0
24										0

Surrogate Recovery Limits

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

* Designates values outside of QC limits

LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD
SDG No: 0704011
Lab File ID: 5040602.d
Date Analyzed: 04/06/2007
Instrument ID: msd5.i
Time Analyzed: 09:48 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1609376		14.83		1709302		9.6		416168		7.72	
	UPPER LIMIT	2253126		15.16		2393023		09.93		582635		08.05	
	LOWER LIMIT	965626		14.50		1025581		09.27		249701		07.39	
	CLIENT SAMPLE NO												
01	34312	1465091		14.83		1607902		9.57		373607		7.69	
02	33981	1441480		14.83		1614450		9.57		368072		7.69	
03	Lab Blank	1450095		14.83		1573062		9.57		372853		7.72	
04	CCV	1609376		14.83		1709302		9.6		416168		7.72	
05	LCS	1392116		14.83		1545474		9.57		356097		7.69	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-04apr.b/5040403.d
Level 2: /chem/msd5.i/5-04apr.b/5040404.d
Level 3: /chem/msd5.i/5-04apr.b/5040405.d
Level 4: /chem/msd5.i/5-04apr.b/5040406.d
Level 5: /chem/msd5.i/5-04apr.b/5040407.d
Level 6: /chem/msd5.i/5-04apr.b/5040408.d
Level 7: /chem/msd5.i/5-04apr.b/5040409.d

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Propylene	+++++	+++++	2.50589	2.39849	2.33247	2.21679	2.07369	2.30547	7.230
191 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
190 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
189 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
186 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Dichlorodifluoromethane/Fr12	+++++	3.63810	3.39705	4.20915	4.02744	3.72000	3.51083	3.75043	8.287
3 Freon 114	+++++	1.79533	2.39353	2.61999	2.56615	2.44957	2.34250	2.36118	12.541

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
4 Chloromethane	+++++	+++++	2.68591	2.86115	2.76319	2.48997		
	2.36800						2.63365	7.653
5 Vinyl Chloride	+++++	1.94279	2.14934	2.20116	2.11680	1.95632		
	1.88208						2.04142	6.395
6 1,3-Butadiene	+++++	2.29792	2.30158	2.26297	2.11921	2.05304		
	1.97468						2.16823	6.414
7 Bromomethane	+++++	0.97360	1.06916	1.25105	1.25377	1.24243		
	1.15462						1.15744	9.991
8 Chloroethane	+++++	1.00209	0.70528	1.12951	1.09760	1.04639		
	1.05185						1.00546	15.268
9 Trichlorofluoromethane/Fr11	+++++	3.54116	3.40299	4.10908	3.93733	3.74454		
	3.63353						3.72810	6.982
10 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
11 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
12 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
13 Ethanol	+++++	+++++	1.00894	1.00630	0.99074	0.92093		
	0.92774						0.97093	4.446

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
14 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
18 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
19 Freon 113	+++++	1.88360	1.73055	2.07421	1.94955	1.88094	1.78902	1.88464	6.414
20 1,1-Dichloroethene	+++++	3.12905	3.00616	3.23889	3.09942	2.97815	2.87305	3.05412	4.210
21 Butane	+++++	+++++	0.57947	0.56919	0.55187	0.51912	0.50112	0.54415	6.103
22 Acetone	+++++	+++++	0.93767	1.14723	1.07618	1.00764	0.99539	1.03282	7.815
23 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
24 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Carbon Disulfide	+++++	4.82568	3.74494	4.26832	4.14343	3.92997		
	3.87839						4.13179	9.404
26 2-Propanol	+++++	+++++	4.29091	5.06270	4.92380	4.73843		
	4.63805						4.73078	6.249
27 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
28 3-Chloropropene	+++++	+++++	0.70373	0.72000	0.65571	0.62304		
	0.58685						0.65787	8.403
29 Methylene Chloride	+++++	3.22613	2.95107	2.99555	2.93235	2.78382		
	2.69269						2.93027	6.295
30 Isopentane	+++++	+++++	4.73719	4.31558	4.10665	3.97352		
	3.82900						4.19239	8.427
31 MTBE	+++++	3.78996	3.52305	4.41329	4.34022	4.15073		
	3.85527						4.01209	8.641
32 trans-1,2-Dichloroethene	+++++	1.51525	1.37102	1.44420	1.40841	1.33969		
	1.28707						1.39427	5.768
33 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
34 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Hexane	+++++	3.04519	4.07418	4.08882	3.90359	3.72666	3.52043	3.72648	10.668
39 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
41 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 1,1-Dichloroethane	+++++	2.43803	2.64490	3.42299	3.32187	3.14390	3.00299	2.99578	12.885

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
44 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
47 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
51 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
52 cis-1,2-Dichloroethene	+++++	2.50794	2.58859	2.79892	2.73788	2.57268	2.45222	2.60970	5.118
53 2-Butanone	+++++	0.92880	0.57059	0.73230	0.71834	0.68503	0.65308	0.71469	16.745

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
54 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 Tetrahydrofuran	+++++	5.13602	3.89390	3.64132	3.52695	3.31439		
	3.15850						3.77851	18.856
58 Chloroform	2.15723	2.57770	2.34403	2.85557	2.76615	2.58034		
	2.48244						2.53764	9.408
59 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 Cyclohexane	+++++	1.90416	1.75580	2.00658	1.97520	1.83731		
	1.76237						1.87357	5.674
62 1,1,1-Trichloroethane	+++++	3.83505	2.70611	3.08104	3.00366	2.79328		
	2.71246						3.02193	14.139
63 Vinyl Acetate	+++++	+++++	0.27389	0.37070	0.36626	0.35845		
	0.33659						0.34118	11.677
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
65 Carbon Tetrachloride	+++++	2.61266	2.34267	2.72511	2.66762	2.57113	2.48496	2.56736	5.349
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
67 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
68 2,2,4-Trimethylpentane	+++++	11.14179	10.74756	12.48364	11.95407	11.33355	10.95923	11.43664	5.753
69 Benzene	1.18344	1.01371	0.92630	1.00473	1.00232	0.96982	0.92218	1.00322	8.746
70 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,2-Dichloroethane	+++++	0.71909	0.56017	0.61674	0.61570	0.59335	0.57157	0.61277	9.280
73 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 Heptane	+++++	0.17932	0.09098	0.11346	0.10955	0.10488	0.09923	0.11624	27.442

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
76 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Trichloroethene	+++++	0.42316	0.35359	0.38919	0.39703	0.38227	0.36748	0.38545	6.267
81 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
82 1,2-Dichloropropane	+++++	0.42865	0.45004	0.45495	0.45469	0.44725	0.42030	0.44265	3.301
83 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
84 1,4-Dioxane	+++++	+++++	0.21042	0.21026	0.21258	0.20517	0.19748	0.20718	2.929
85 Bromodichloromethane	+++++	0.56206	0.52053	0.61622	0.63740	0.62202	0.60854	0.59446	7.444
86 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
87 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
90 cis-1,3-Dichloropropene	+++++	0.45276	0.48856	0.49840	0.51286	0.50165	0.48049	0.48912	4.292
91 4-Methyl-2-pentanone	+++++	0.40077	0.45004	0.48189	0.48205	0.47336	0.44859	0.45612	6.787
92 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
94 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
95 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Cyclohexane	+++++	2.29821	2.29679	2.65766	2.59263	2.42425	2.31774	2.43121	6.530

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
98 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
99 Toluene	+++++	1.03191	0.96428	1.03528	1.03223	1.00753		
	0.96431						1.00592	3.356
100 trans-1,3-Dichloropropene	+++++	0.51857	0.44790	0.58279	0.57792	0.57835		
	0.56822						0.54562	9.797
101 1,1,2-Trichloroethane	+++++	0.37288	0.40405	0.38584	0.39140	0.37729		
	0.36534						0.38280	3.635
102 Tetrachloroethene	+++++	0.54545	0.41160	0.51154	0.52892	0.50868		
	0.48908						0.49921	9.413
103 2-Hexanone	+++++	+++++	0.62068	0.66547	0.69098	0.69375		
	0.67183						0.66854	4.393
104 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
105 Dibromochloromethane	+++++	0.55744	0.45099	0.57851	0.59765	0.59692		
	0.59182						0.56222	10.060
106 1,2-Dibromoethane	+++++	0.47257	0.52375	0.58490	0.60183	0.59895		
	0.57204						0.55901	9.116
107 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
109 Chlorobenzene	+++++	0.78010	0.82598	0.91791	0.90886	0.88551	0.84905	0.86123	6.154
110 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Ethyl Benzene	+++++	0.51867	0.43911	0.50757	0.51978	0.50505	0.48151	0.49528	6.216
112 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 m,p-Xylene	+++++	0.65328	0.57490	0.62119	0.63960	0.61263	0.58522	0.61447	4.940
114 o-Xylene	+++++	0.67929	0.52750	0.60295	0.61151	0.60414	0.57016	0.59926	8.373
115 Styrene	0.92744	0.81051	0.82990	0.95824	0.96956	0.95178	0.92416	0.91023	7.011
116 Nonane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
117 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Bromoform	+++++	0.43174	0.42335	0.51759	0.54634	0.56243	0.56242	0.50731	12.611

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
119 Cumene	1.79018	1.58574	1.63671	1.80344	1.83025	1.80677	1.65223	1.72933	5.807
120 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
121 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
123 1,1,2,2-Tetrachloroethane	+++++	0.65698	0.88560	0.88128	0.88510	0.86045	0.84859	0.83633	10.658
124 Propylbenzene	+++++	2.05791	2.12589	2.29026	2.30621	2.22400	1.58684	2.09852	12.784
125 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
126 4-Ethyltoluene	+++++	1.80067	1.99243	2.10781	2.13662	2.09056	1.57058	1.94978	11.412
127 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
128 1,3,5-Trimethylbenzene	+++++	1.40620	1.61850	1.72898	1.73734	1.70765	1.45744	1.60935	8.995
129 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
130 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
131 1,2,4-Trimethylbenzene	+++++	1.69775	1.78951	1.78661	1.81636	1.80688	1.42058	1.71961	8.867
132 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
133 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
138 1,3-Dichlorobenzene	+++++	0.85625	0.85063	0.92016	0.88660	0.88840	0.85616	0.87637	3.080
139 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
140 Alphamethylstyrene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
141 1,4-Dichlorobenzene	*****	1.06689	1.09552	1.18392	1.20268	1.15952		
	1.12885						1.13956	4.591
142 tert-Butylbenzene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
143 alpha-Chlorotoluene	*****	1.22590	1.37584	1.47481	1.58532	1.61244		
	1.45999						1.45572	9.760
144 sec-Butylbenzene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
145 D-Limonene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
146 1,2-Dichlorobenzene	*****	0.85149	0.97140	0.94974	0.92843	0.92525		
	0.88921						0.91925	4.683
147 p-Cymene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
148 Bis(2-chloroethyl) ether	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
149 1,2,3-Trimethylbenzene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

Air Toxics Ltd.

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Start Cal Date : 04-APR-2007 14:47
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
150 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
154 1,2,4-Trichlorobenzene	+++++	+++++	1.32702	1.02554	1.08683	1.08288	1.04274	1.11300	11.002
155 Hexachlorobutadiene	+++++	+++++	0.71409	0.59122	0.59025	0.57716	0.55980	0.60650	10.135
188 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 Naphthalene	+++++	4.99907	6.26156	4.54397	4.97777	2.87805	+++++	4.73208	25.760
157 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
158 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 04-APR-2007 14:47
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-04apr.b/t14q404a.m
Cal Date : 05-Apr-2007 15:58 jgray
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
159 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
160 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
161 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
187 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 71 1,2-Dichloroethane-d4	2.02587	2.10583	2.06421	2.14357	2.12822	2.13764	2.21499	2.11719	2.865
$ 97 Toluene-d8	1.02958	1.02864	1.01936	1.02882	1.05658	1.04565	1.05791	1.03808	1.466
$ 122 Bromofluorobenzene	0.67817	0.68355	0.69085	0.70571	0.70974	0.72599	0.70843	0.70035	2.406

Calibration History

Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Start Cal Date: 04-APR-2007 14:47
End Cal Date : 04-APR-2007 17:35

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
04-APR-2007 14:47	AFCEElow	/chem/msd5.i/5-04apr.b/5040403.d
Cal Level: 2 , Cal Amount: 0.50000		
04-APR-2007 15:15	ICALlevel2pN	/chem/msd5.i/5-04apr.b/5040404.d
Cal Level: 3 , Cal Amount: 2.00000		
04-APR-2007 15:43	AT04MDL+ENSR	/chem/msd5.i/5-04apr.b/5040405.d
Cal Level: 4 , Cal Amount: 25.00000		
04-APR-2007 16:11	AT04MDL+ENSR	/chem/msd5.i/5-04apr.b/5040406.d
Cal Level: 5 , Cal Amount: 50.00000		
04-APR-2007 16:39	AT04MDL+ENSR	/chem/msd5.i/5-04apr.b/5040407.d
Cal Level: 6 , Cal Amount: 100.00000		
04-APR-2007 17:07	AT04MDL+ENSR	/chem/msd5.i/5-04apr.b/5040408.d
Cal Level: 7 , Cal Amount: 200.00000		
04-APR-2007 17:35	AT04MDL+ENSR	/chem/msd5.i/5-04apr.b/5040409.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000
04-APR-2007 16:39 | AT04MDL+ENSR | /chem/msd5.i/5-04apr.b/5040407a.d

Flow Controller SN: AA9203108 Flow Meter: 05E27601 Exp: 8/19/07

Actual: 22.4 mL/min Nominal: 25.0 mL/min

@ Air Toxics Ltd. **MSD-5** **Logbook #: 1523**

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	36.07
75	30.0 – 60.0% of mass 95	54.64
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.75
173	Less than 2.0% of mass 174	(1.14)[1]
174	Greater than 50.0% of mass 95	67.46
175	5.0 – 9.0% of mass 174	(7.40)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.37)[1]
177	5.0 – 9.0% of mass 176	(6.73)[2]

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

BFB Injection Date: 4/4/07

BFB Injection Time: 1323

BFB File ID: 5040401

Tekmar Purge Flow: 14.1 mL/min

Vacuum: —

IS/S Std.#: ~~1443-3~~ 1487-165	Exp. Date: 5/20/07
BCM (OK 4/5/07)	327514
1,4-DFB	1413957
CB-d5	1301040

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

Verify 176/174 m/z Ratio: 1605120/1665536 · 100 = 96.37%

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

Calculation Check:

$$\text{ppbv of compound} = \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1493962)}{(1413957)} \times \frac{(25)}{(1.03808)} = 25.446$$

Reported Result 25.446

File ID:	5040407
Compound:	Tol-d8
Initials:	Ω

	Use	File #	Sample / Client Name	Can #	Pressure	Amt. Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5040401	BFB Tune Check	843-2912	50ng	2mL	1.00	Ω	4/4/07	1323	Ω	
2	X	02	System Blank	13673	Humid	200 mL	1.00	Ω	4/4/07	1349	Ω	
3	✓	03	ICAL Level 1	1487-183	0.3 ppbv	0.3 mL	↓	↓	↓	~~1439~~	PM/Ω	TA=1447
4	✓	04	2	↓	0.5 ppbv	0.5 mL				1519	Ω	4149404a
5	✓	05	3		2 ppbv	2 mL				1543	↓	
6	✓	06	4		25 ppbv	25 mL				1611		
7	✓	07	5		50 ppbv	50 mL				1639		
8	✓	08	6		100 ppbv	100 mL				1707		
9	✓	09	7		200 ppbv	200 mL				1735		

Signature [signature] Date 4/4/07

@ Air Toxics Ltd.

MSD-5

Logbook #: 1523

0057

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	34.64
75	30.0 – 60.0% of mass 95	54.63
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.49
173	Less than 2.0% of mass 174	(1.27)[1]
174	Greater than 50.0% of mass 95	71.23
175	5.0 – 9.0% of mass 174	(7.61)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.53)[1]
177	5.0 – 9.0% of mass 176	(6.44)[2]

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

BFB Injection Date: 4/5/07

BFB Injection Time: 1155

BFB File ID: 5040501

Tekmar Purge Flow: —

Vacuum: 4.16 x 10-6 torr

IS/S Std.#:	1487-165	Exp. Date: 5/20/07
BCM	395925	
1,4-DFB	1673214	
CB-d5	1582354	

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

Verify 176/174 m/z Ratio: 1496064 / 1582952 · 100 = 97.53 %.

NOAH Cart #: _____ **File #:** _____

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1792795)}{(1673214)} \times \frac{(25)}{(1.03808)} = 25.804$

File ID:	5040502
Compound:	TCE-d8
Initials:	JL

Reported Result 25.804

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Lender Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5040501	BFB Time Check	6413-2912	50psig	2µL	1.00	JL	4/5/07	1155	JL	
2	✓	02	CCV #1487-183A	100ppbv	50ppbv	100mL	1.00	JL		1230	JL	
3	X	03	LCS #1408-408A					JL		1257	JL	
4	✓	04	LCS #1408-386A					JL		1356	JL	ICAL LCS
5		05	Lab Blank	13673	Humid	200mL	1.00	JL		1448	JL	
6		06										
7												
8												
9												

Signature

4/5/07 Date

Initial Calibration Narrative

A seven-point initial calibration was analyzed on MSD-5 on April 4, 2007.

The following compounds used 0.3 ppbv as the lowest calibration concentration: Benzene, Chloroform, Cumene, and Styrene.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-05apr.b/5040504.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 05-APR-2007 13:56
Operator : JG Inst ID: msd5.i
Smp Info : 100mL #1408-386A
Misc Info : 100ppbv-> 50ppbv
Comment :
Method : /chem/msd5.i/5-05apr.b/t14q404a.m
Meth Date : 05-Apr-2007 16:34 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.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	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 57 Bromochloromethane						CAS #: 74-97-5		
7.693	7.693 (1.000)	130	356130	25.0000			80.00- 120.00	100.00
7.693	7.693 (1.000)	128	277110				45.39- 105.39	77.81
7.693	7.693 (1.000)	49	1106612				278.62- 338.62	310.73
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.573	9.573 (1.000)	114	1531961	25.0000			80.00- 120.00	100.00
9.573	9.573 (1.000)	88	278990				0.00- 48.71	18.21
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1413421	25.0000			80.00- 120.00	100.00
14.827	14.827 (1.000)	82	890765				33.70- 93.70	63.02
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.772	8.771 (1.140)	65	760910	25.2293	25.229		80.00- 120.00	100.00
8.772	8.771 (1.140)	67	398813				30.41- 90.41	52.41
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1589232	24.9833	24.983		80.00- 120.00	100.00
12.421	12.421 (1.297)	70	193766				0.00- 42.60	12.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1120053			42.61- 102.61	70.48
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	988105	24.9550	24.955	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1462997			120.11- 180.11	148.06
16.430	16.430 (1.108)	176	935355			66.55- 126.55	94.66
1 Propylene					CAS #: 115-07-1		
2.080	2.108 (0.270)	41	1734915	52.8264	52.826	80.00- 120.00	100.00
2.080	2.108 (0.270)	42	1127303			33.36- 93.36	64.98
2.080	2.108 (0.270)	39	1256878			39.93- 99.93	72.45
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.278)	85	2912581	54.5166	54.516	80.00- 120.00	100.00
2.136	2.136 (0.278)	87	951184			1.87- 61.87	32.66
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	1836929	54.6129	54.613	80.00- 120.00	100.00
2.274	2.274 (0.296)	137	579611			2.44- 62.44	31.55
4 Chloromethane					CAS #: 74-87-3		
2.385	2.384 (0.310)	50	1894498	50.4973	50.497	80.00- 120.00	100.00
2.385	2.384 (0.310)	52	599394			0.30- 60.30	31.64
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.550 (0.328)	62	1537695	52.8774	52.877	80.00- 120.00	100.00
2.523	2.550 (0.328)	64	460929			0.06- 60.06	29.98
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.332)	54	1523604	49.3285	49.328	80.00- 120.00	100.00
2.523	2.550 (0.328)	39	1826461			98.04- 158.04	119.88
7 Bromomethane					CAS #: 74-83-9		
2.993	3.020 (0.389)	94	925267	56.1179	56.118	80.00- 120.00	100.00
2.993	3.020 (0.389)	96	866104			63.83- 123.83	93.61
8 Chloroethane					CAS #: 75-00-3		
3.159	3.159 (0.411)	64	767418	53.5797	53.580	80.00- 120.00	100.00
3.159	3.159 (0.411)	49	292220			7.61- 67.61	38.08
3.159	3.159 (0.411)	66	246632			0.00- 58.62	32.14
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.447)	101	2886492	54.3518	54.352	80.00- 120.00	100.00
3.435	3.435 (0.447)	103	1848932			33.61- 93.61	64.05

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.795	3.795 (0.493)	45	853283	61.6930	61.693	80.00- 120.00	100.00
3.795	3.795 (0.493)	43	177269			0.00- 51.40	20.77
3.795	3.795 (0.493)	46	359198			11.97- 71.97	42.10
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	1600100	59.6004	59.600	80.00- 120.00	100.00
4.209	4.209 (0.547)	153	1037298			34.49- 94.49	64.83
4.209	4.209 (0.547)	101	2105368			100.29- 160.29	131.58
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	2582949	59.3692	59.369	80.00- 120.00	100.00
4.237	4.237 (0.551)	96	1030356			11.20- 71.20	39.89
4.237	4.237 (0.551)	98	679531			0.00- 56.28	26.31
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.572)	58	852509	57.9434	57.943	80.00- 120.00	100.00
4.403	4.403 (0.572)	43	3332403			372.89- 432.89	390.89
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	3804341	56.4519	56.452	80.00- 120.00	100.00
4.596	4.596 (0.597)	43	753333			0.00- 49.45	19.80
4.596	4.596 (0.597)	59	117423			0.00- 32.98	3.09
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	3076570	52.2709	52.271	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	496806	53.0128	53.013	80.00- 120.00	100.00
4.845	4.845 (0.630)	41	2919831			578.20- 638.20	587.72
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	2338683	56.0268	56.027	80.00- 120.00	100.00
5.094	5.094 (0.662)	84	925139			9.73- 69.73	39.56
5.094	5.094 (0.662)	51	689002			0.00- 59.58	29.46
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	3232730	56.5628	56.563	80.00- 120.00	100.00
5.426	5.426 (0.705)	57	1103797			5.00- 65.00	34.14
5.426	5.426 (0.705)	41	1307310			10.64- 70.64	40.44
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.712)	96	1043233	52.5249	52.525	80.00- 120.00	100.00
5.481	5.481 (0.712)	61	2237266			185.77- 245.77	214.46
5.481	5.481 (0.712)	98	673196			34.69- 94.69	64.53

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	2911767	54.8516	54.852	80.00- 120.00	100.00
5.813	5.813 (0.756)	43	2349228			51.25- 111.25	80.68
5.813	5.813 (0.756)	86	305562			0.00- 40.47	10.49
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.255	6.255 (0.813)	63	2543187	59.5936	59.594	80.00- 120.00	100.00
6.255	6.255 (0.813)	65	734147			0.00- 59.52	28.87
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.950)	72	530784	52.1354	52.135	80.00- 120.00	100.00
7.306	7.306 (0.950)	43	4431346			798.36- 858.36	834.87
7.306	7.306 (0.950)	57	282487			22.22- 82.22	53.22
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.279	7.278 (0.946)	61	2012352	54.1308	54.131	80.00- 120.00	100.00
7.279	7.278 (0.946)	96	1007130			18.94- 78.94	50.05
7.279	7.278 (0.946)	98	637761			1.20- 61.20	31.69
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	2553793	47.4456	47.446	80.00- 120.00	100.00
7.693	7.693 (1.000)	71	484739			0.00- 48.26	18.98
7.693	7.693 (1.000)	72	517689			0.00- 48.93	20.27
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	2079246	57.5185	57.518	80.00- 120.00	100.00
7.831	7.831 (1.018)	85	1324842			34.52- 94.52	63.72
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	2141226	49.7404	49.740	80.00- 120.00	100.00
8.080	8.080 (1.050)	99	1384193			33.77- 93.77	64.64
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	1426919	53.4640	53.464	80.00- 120.00	100.00
8.053	8.053 (1.047)	56	2973024			178.54- 238.54	208.35
8.053	8.053 (1.047)	41	1997358			106.11- 166.11	139.98
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	286914	59.0341	59.034	80.00- 120.00	100.00
6.311	6.311 (0.820)	43	5823223			2070.21-2130.21	2029.61
6.311	6.311 (0.820)	42	471325			130.28- 190.28	164.27
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.302	8.329 (1.079)	119	1971733	53.9130	53.913	80.00- 120.00	100.00
8.302	8.329 (1.079)	117	2054419			72.04- 132.04	104.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.744	8.771 (1.137)	57	8708660	53.4545	53.454	80.00- 120.00	100.00
8.744	8.771 (1.137)	56	2886388			3.55- 63.55	33.14
8.744	8.771 (1.137)	41	2676133			1.79- 61.79	30.73
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	3190899	51.9052	51.905	80.00- 120.00	100.00
8.744	8.744 (0.913)	77	748251			0.00- 53.64	23.45
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.937 (0.931)	62	1936779	51.5793	51.579	80.00- 120.00	100.00
8.910	8.937 (0.931)	64	594923			0.80- 60.80	30.72
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	342142	48.0345	48.034	80.00- 120.00	100.00
9.159	9.159 (0.957)	43	4112881			1194.19-1254.19	1202.10
9.159	9.159 (0.957)	71	1128831			299.00- 359.00	329.93
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	1256541	53.1983	53.198	80.00- 120.00	100.00
9.988	9.988 (1.043)	130	1219358			63.75- 123.75	97.04
9.988	9.988 (1.043)	97	807130			34.55- 94.55	64.23
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	1440281	53.0985	53.098	80.00- 120.00	100.00
10.513	10.513 (1.098)	62	1016011			42.57- 102.57	70.54
10.513	10.513 (1.098)	41	1241279			57.00- 117.00	86.18
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	710775	55.9853	55.985	80.00- 120.00	100.00
10.735	10.735 (1.121)	58	812183			85.20- 145.20	114.27
10.735	10.735 (1.121)	57	271156			7.65- 67.65	38.15
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	2056927	56.4660	56.466	80.00- 120.00	100.00
11.066	11.066 (1.156)	85	1287458			36.44- 96.44	62.59
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.007	12.006 (1.254)	75	1582488	52.7982	52.798	80.00- 120.00	100.00
12.007	12.006 (1.254)	77	510495			1.69- 61.69	32.26
12.007	12.006 (1.254)	39	1595435			73.21- 133.21	100.82
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	1553412	55.5781	55.578	80.00- 120.00	100.00
12.338	12.338 (1.289)	43	5039565			299.62- 359.62	324.42
12.338	12.338 (1.289)	85	416448			0.00- 56.94	26.81

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.560	12.559 (1.312)	91	3412699	55.3637	55.364	80.00- 120.00	100.00
12.560	12.559 (1.312)	92	2084701			29.66- 89.66	61.09
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.140	13.140 (0.886)	75	1704315	55.2491	55.249	80.00- 120.00	100.00
13.140	13.140 (0.886)	77	541905			2.13- 62.13	31.80
13.113	13.140 (0.884)	39	1590156			63.75- 123.75	93.30
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	1119927	51.7471	51.747	80.00- 120.00	100.00
13.417	13.417 (0.905)	99	688353			33.04- 93.04	61.46
13.417	13.417 (0.905)	83	976684			57.13- 117.13	87.21
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	1534687	54.3758	54.376	80.00- 120.00	100.00
13.472	13.472 (0.909)	129	1138740			45.05- 105.05	74.20
13.472	13.472 (0.909)	131	1126706			42.55- 102.55	73.42
103 2-Hexanone					CAS #: 591-78-6		
13.831	13.831 (0.933)	58	2029656	53.6983	53.698	80.00- 120.00	100.00
13.804	13.831 (0.931)	43	4877155			208.33- 268.33	240.29
13.831	13.831 (0.933)	100	260071			0.00- 42.46	12.81
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	1766795	55.5834	55.583	80.00- 120.00	100.00
13.997	13.997 (0.944)	127	1365778			46.21- 106.21	77.30
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.163	14.163 (0.955)	107	1701216	53.8281	53.828	80.00- 120.00	100.00
14.163	14.163 (0.955)	109	1624069			65.30- 125.30	95.47
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	2626764	53.9471	53.947	80.00- 120.00	100.00
14.854	14.854 (1.002)	114	856709			2.03- 62.03	32.61
14.854	14.854 (1.002)	77	1849748			40.25- 100.25	70.42
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	1496213	53.4329	53.433	80.00- 120.00	100.00
14.993	14.993 (1.011)	91	4787182			291.76- 351.76	319.95
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.186 (1.022)	106	1795300	51.6779	51.678	80.00- 120.00	100.00
15.159	15.186 (1.022)	91	3788426			180.46- 240.46	211.02
114 o-Xylene					CAS #: 95-47-6		
15.712	15.711 (1.060)	106	1794026	52.9522	52.952	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)							
15.712	15.711 (1.060)	91	3988483			191.33- 251.33	222.32
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	2776684	53.9567	53.957	80.00- 120.00	100.00
15.739	15.739 (1.062)	78	1655738			29.89- 89.89	59.63
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	1671676	58.2835	58.283	80.00- 120.00	100.00
16.016	16.016 (1.080)	171	857777			20.62- 80.62	51.31
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	2581939	54.6054	54.605	80.00- 120.00	100.00
16.679	16.679 (1.125)	85	1676787			34.26- 94.26	64.94
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	6247921	56.6786	56.678	80.00- 120.00	100.00
16.845	16.845 (1.136)	120	1760962			0.00- 59.03	28.18
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	5063072	55.6457	55.646	80.00- 120.00	100.00
16.928	16.928 (1.142)	120	2411452			17.03- 77.03	47.63
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	5341009	54.9365	54.936	80.00- 120.00	100.00
17.343	17.343 (1.170)	120	2346056			14.19- 74.19	43.93
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	2656916	53.6242	53.624	80.00- 120.00	100.00
17.647	17.647 (1.190)	148	1648349			33.06- 93.06	62.04
17.647	17.647 (1.190)	111	1165041			16.08- 76.08	43.85
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.757 (1.198)	146	3440312	53.3984	53.398	80.00- 120.00	100.00
17.758	17.757 (1.198)	148	2175652			33.20- 93.20	63.24
17.758	17.757 (1.198)	111	1448448			9.94- 69.94	42.10
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	4804933	58.3820	58.382	80.00- 120.00	100.00
17.896	17.896 (1.207)	126	753657			0.00- 46.47	15.69
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	2659023	51.1630	51.163	80.00- 120.00	100.00
18.117	18.117 (1.222)	148	1651673			32.87- 92.87	62.12
18.117	18.117 (1.222)	111	1303796			19.24- 79.24	49.03

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		
19.500	19.499 (1.315)	180	3056903	48.5795	48.580	80.00- 120.00	100.00
19.500	19.499 (1.315)	182	2898026			64.77- 124.77	94.80
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	1684902	49.1371	49.137	80.00- 120.00	100.00
19.582	19.582 (1.321)	223	1082060			33.06- 93.06	64.22
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	7028197	59.2379	59.238	80.00- 120.00	100.00
16.707	16.707 (1.127)	120	1578397			0.00- 52.69	22.46
16.707	16.707 (1.127)	105	267190			0.00- 33.64	3.80
119 Cumene					CAS #: 98-82-8		
16.182	16.181 (1.091)	105	5462823	55.8737	55.874	80.00- 120.00	100.00
16.182	16.181 (1.091)	120	1426759			0.00- 55.44	26.12
16.182	16.181 (1.091)	51	1040647			0.00- 48.94	19.05
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	3640537	13.6076	13.608	80.00- 120.00	100.00(R)
19.693	19.693 (1.328)	127	473187			0.00- 52.00	13.00
30 Isopentane					CAS #: 78-78-4		
3.131	3.159 (0.407)	43	2948105	49.3643	49.364	80.00- 120.00	100.00
3.131	3.159 (0.407)	57	1656394			24.61- 84.61	56.19
3.131	3.159 (0.407)	72	129171			0.00- 34.33	4.38
21 Butane					CAS #: 106-97-8		
2.467	2.467 (0.321)	58	388707	50.1456	50.146	80.00- 120.00	100.00
2.467	2.467 (0.321)	43	3639925			866.40- 926.40	936.42
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.237	10.237 (1.331)	83	1921726	55.4881	55.488	80.00- 120.00	100.00
10.237	10.237 (1.331)	98	898308			17.17- 77.17	46.74
10.209	10.237 (1.327)	55	2740446			119.32- 179.32	142.60

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 05-Apr-2007 16:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040504.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-05apr.b/t14q404a.m
Misc Info: 100ppbv-> 50ppbv

Calibration Date: 05-APR-2007
Calibration Time: 12:30
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	395925	237555	554295	356130	-10.05
79 1,4-Difluorobenze	1673214	1003928	2342500	1531961	-8.44
108 Chlorobenzene-d5	1582354	949412	2215296	1413421	-10.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	0.00

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

Report Date: 05-Apr-2007 16:35

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-05apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra2926pN.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-05apr.b/t14q404a.m
Misc Info: 100ppbv-> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	54.516	109.03	70-130
3 Freon 114	50.000	54.613	109.23	70-130
4 Chloromethane	50.000	50.497	100.99	70-130
5 Vinyl Chloride	50.000	52.877	105.75	70-130
6 1,3-Butadiene	50.000	49.328	98.66	60-140
7 Bromomethane	50.000	56.118	112.24	70-130
8 Chloroethane	50.000	53.580	107.16	70-130
9 Trichlorofluoromet	50.000	54.352	108.70	70-130
13 Ethanol	50.000	61.693	123.39	60-140
19 Freon 113	50.000	59.600	119.20	70-130
20 1,1-Dichloroethene	50.000	59.369	118.74	70-130
25 Carbon Disulfide	50.000	52.271	104.54	60-140
22 Acetone	50.000	57.943	115.89	60-140
26 2-Propanol	50.000	56.452	112.90	60-140
28 3-Chloropropene	50.000	53.013	106.03	60-140
29 Methylene Chloride	50.000	56.027	112.05	70-130
31 MTBE	50.000	56.563	113.13	60-140
32 trans-1,2-Dichloro	50.000	52.525	105.05	60-140
38 Hexane	50.000	54.852	109.70	60-140
43 1,1-Dichloroethane	50.000	59.594	119.19	70-130
52 cis-1,2-Dichloroet	50.000	54.131	108.26	70-130
53 2-Butanone	50.000	52.135	104.27	60-140
56 Tetrahydrofuran	50.000	47.446	94.89	60-140
58 Chloroform	50.000	57.518	115.04	70-130
61 Cyclohexane	50.000	53.464	106.93	60-140
62 1,1,1-Trichloroeth	50.000	49.740	99.48	70-130
63 Vinyl Acetate	50.000	59.034	118.07	60-140
65 Carbon Tetrachlori	50.000	53.913	107.83	70-130
68 2,2,4-Trimethylpen	50.000	53.454	106.91	60-140
69 Benzene	50.000	51.905	103.81	70-130
72 1,2-Dichloroethane	50.000	51.579	103.16	70-130
75 Heptane	50.000	48.034	96.07	60-140
80 Trichloroethene	50.000	53.198	106.40	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	53.098	106.20	70-130
84 1,4-Dioxane	50.000	55.985	111.97	60-140
85 Bromodichlorometha	50.000	56.466	112.93	60-140
90 cis-1,3-Dichloropr	50.000	52.798	105.60	70-130
91 4-Methyl-2-pentano	50.000	55.578	111.16	60-140
99 Toluene	50.000	55.364	110.73	70-130
100 trans-1,3-Dichloro	50.000	55.249	110.50	70-130
101 1,1,2-Trichloroeth	50.000	51.747	103.49	70-130
102 Tetrachloroethene	50.000	54.376	108.75	70-130
103 2-Hexanone	50.000	53.698	107.40	60-140
105 Dibromochlorometha	50.000	55.583	111.17	60-140
106 1,2-Dibromoethane	50.000	53.828	107.66	70-130
109 Chlorobenzene	50.000	53.947	107.89	70-130
111 Ethyl Benzene	50.000	53.433	106.87	70-130
113 m,p-Xylene	50.000	51.678	103.36	70-130
114 o-Xylene	50.000	52.952	105.90	70-130
115 Styrene	50.000	53.957	107.91	70-130
118 Bromoform	50.000	58.283	116.57	60-140
119 Cumene	50.000	55.874	111.75	60-140
123 1,1,2,2-Tetrachlor	50.000	54.605	109.21	70-130
124 Propylbenzene	50.000	59.238	118.48	60-140
126 4-Ethyltoluene	50.000	56.678	113.36	60-140
128 1,3,5-Trimethylben	50.000	55.646	111.29	70-130
131 1,2,4-Trimethylben	50.000	54.936	109.87	70-130
138 1,3-Dichlorobenzen	50.000	53.624	107.25	70-130
141 1,4-Dichlorobenzen	50.000	53.398	106.80	70-130
143 alpha-Chlorotoluen	50.000	58.382	116.76	70-130
146 1,2-Dichlorobenzen	50.000	51.163	102.33	70-130
154 1,2,4-Trichloroben	50.000	48.580	97.16	70-130
155 Hexachlorobutadien	50.000	49.137	98.27	70-130
1 Propylene	50.000	52.826	105.65	70-130
156 Naphthalene	25.000	13.608	54.43*	60-140
21 Butane	50.000	50.146	100.29	70-130
30 Isopentane	50.000	49.364	98.73	70-130
96 Methyl Cyclohexane	50.000	55.488	110.98	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	25.229	100.92	70-130
$ 97 Toluene-d8	25.000	24.983	99.93	70-130
$ 122 Bromofluorobenzene	25.000	24.955	99.82	70-130

0070

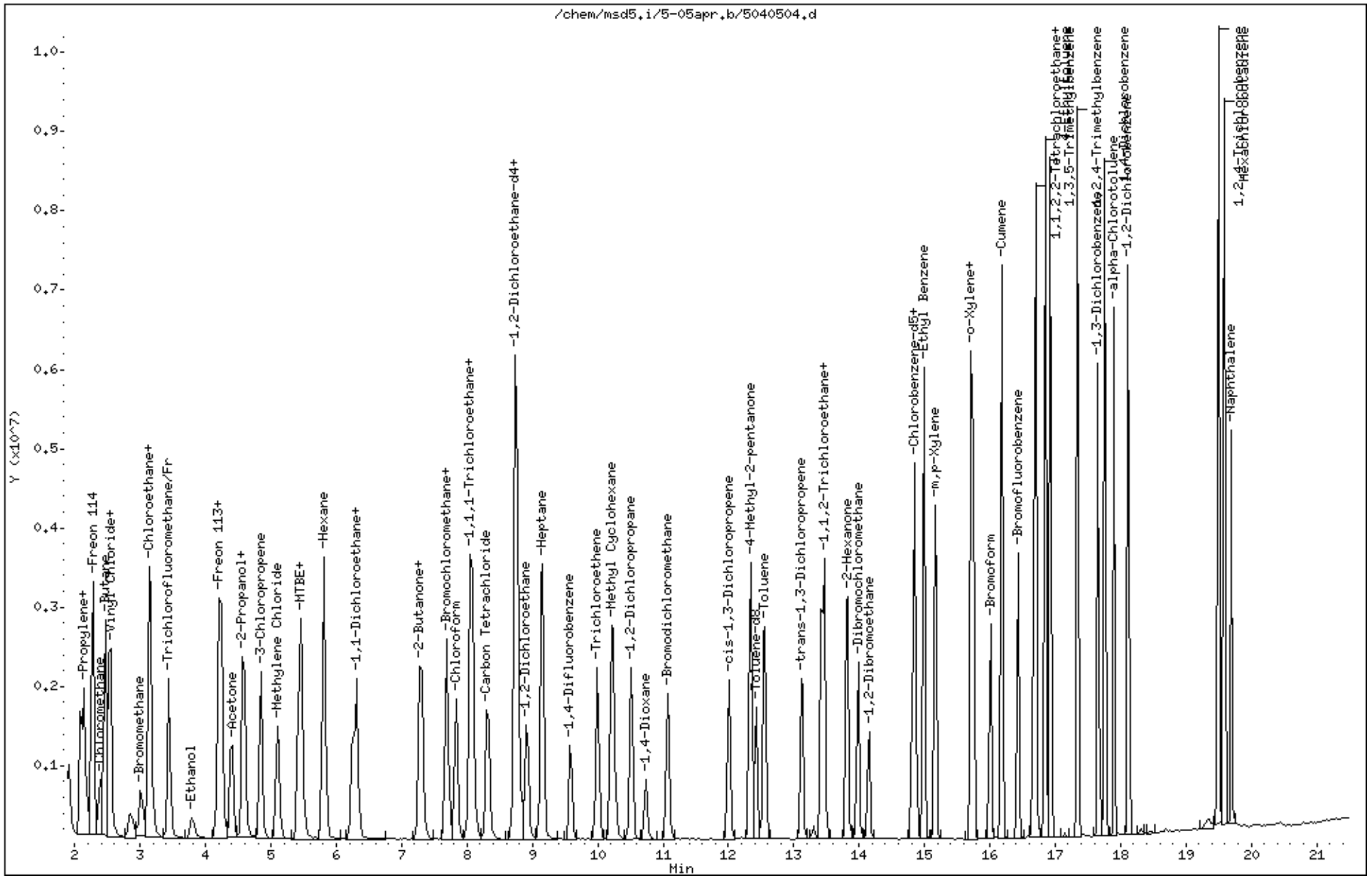
Data File: /chem/msd5.i/5-05apr.b/5040504.d
Date : 05-APR-2007 13:56
Client ID: LCS-1
Sample Info: 100mL #1408-386A

Instrument: msd5.i

Operator: JG

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040403.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 04-APR-2007 14:47
Operator : JG Inst ID: msd5.i
Smp Info : 0.3ml #1487-183
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 14:47 Cal File: 5040403.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			
7.693	7.693 (1.000)	130	358755	25.0000		70.00- 130.00		100.00
7.693	7.693 (1.000)	128	267046			45.09- 105.09		74.44
7.693	7.693 (1.000)	49	1140378			291.97- 351.97		317.87
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.573	9.573 (1.000)	114	1505212	25.0000		70.00- 130.00		100.00
9.573	9.573 (1.000)	88	275252			0.00- 48.67		18.29
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.827	14.827 (1.000)	117	1370443	25.0000		70.00- 130.00		100.00
14.827	14.827 (1.000)	82	882934			0.00- 30.00		64.43
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.771	8.771 (1.140)	65	726792	25.0000	23.922	70.00- 130.00		100.00
8.771	8.771 (1.140)	67	330592			0.00- 30.00		45.49
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.421	12.421 (1.297)	98	1549733	25.0000	24.795	70.00- 130.00		100.00
12.421	12.421 (1.297)	70	189472			0.00- 30.00		12.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	995423			0.00- 30.00	64.23
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	929396	25.0000	24.208	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1388334			119.64- 179.64	149.38
16.430	16.430 (1.108)	176	893721			67.05- 127.05	96.16
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	9287	0.30000	0.2550	70.00- 130.00	100.00
7.859	7.859 (1.022)	85	11360			33.68- 93.68	122.32
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	21376	0.30000	0.3539	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	4632			0.00- 30.00	21.67
115 Styrene					CAS #: 100-42-5		
15.767	15.767 (1.063)	104	15252	0.30000	0.3057	70.00- 130.00	100.00
15.739	15.739 (1.062)	78	13111			28.99- 88.99	85.96
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	29440	0.30000	0.3106	70.00- 130.00	100.00
16.182	16.182 (1.091)	120	10498			0.00- 30.00	35.66
16.182	16.182 (1.091)	51	8564			0.00- 30.00	29.09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040403.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	358755	9.54
79 1,4-Difluorobenze	1413957	848374	1979540	1505212	6.45
108 Chlorobenzene-d5	1301040	780624	1821456	1370443	5.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

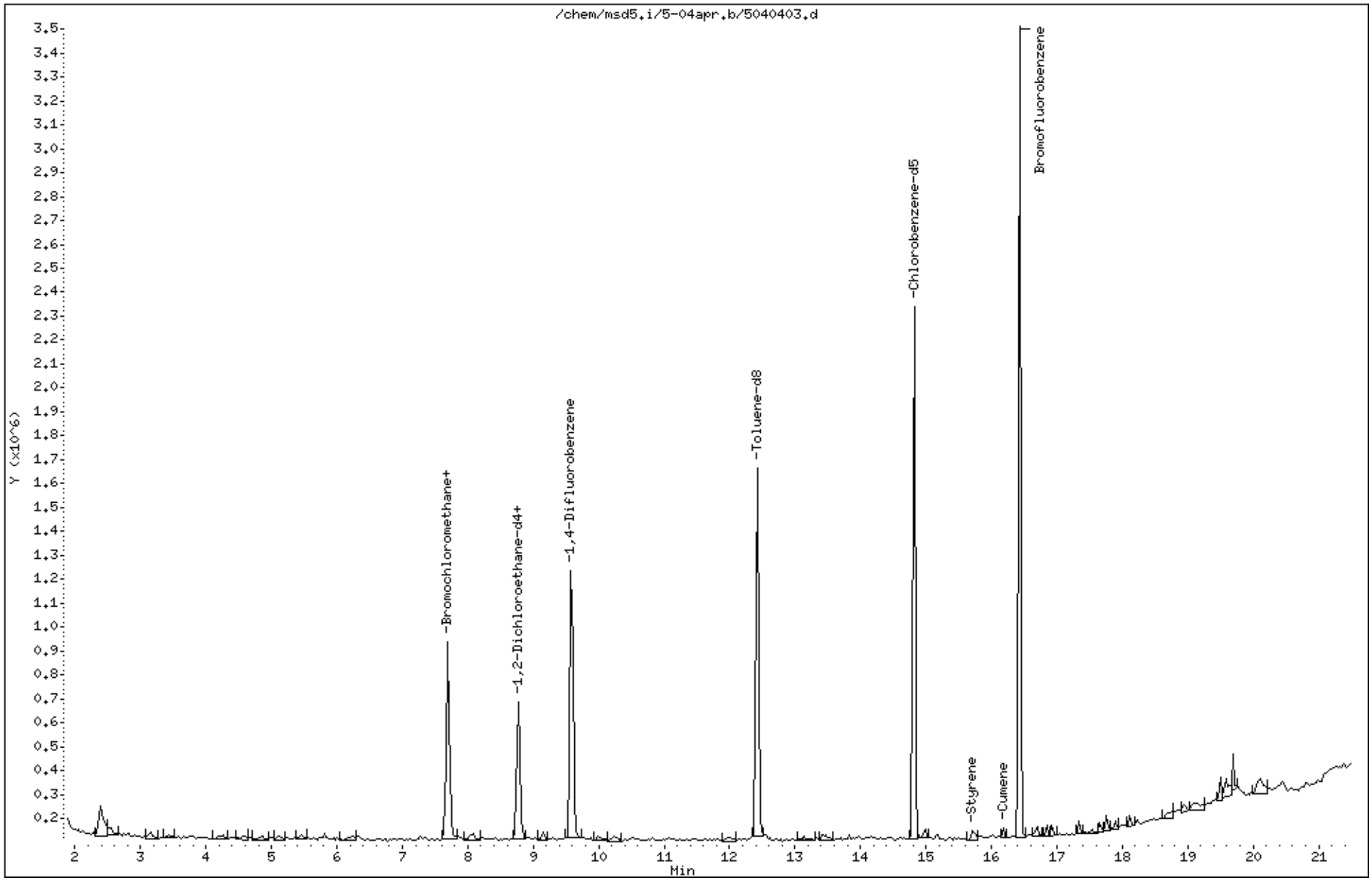
0074

Data File: /chem/msd5.i/5-04apr.b/5040403.d
Date : 04-APR-2007 14:47
Client ID: Level 1
Sample Info: 0.3ml #1487-183

Column phase: RTx-624

Instrument: msd5.i

Operator: JG
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040404.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 04-APR-2007 15:15
Operator : JG Inst ID: msd5.i
Smp Info : 0.5ml #1487-183
Misc Info : 200ppbv->0.5ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 15:15 Cal File: 5040404.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALlevel2pN.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			
7.693	7.693 (1.000)	130	340439	25.0000		70.00- 130.00		100.00
7.693	7.693 (1.000)	128	266704			45.09- 105.09		78.34
7.693	7.693 (1.000)	49	1069381			291.97- 351.97		314.12
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.573	9.573 (1.000)	114	1456080	25.0000		70.00- 130.00		100.00
9.573	9.573 (1.000)	88	267226			0.00- 48.67		18.35
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.827	14.827 (1.000)	117	1376296	25.0000		70.00- 130.00		100.00
14.827	14.827 (1.000)	82	848988			0.00- 30.00		61.69
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.771	8.771 (1.140)	65	716907	25.0000	24.866	70.00- 130.00		100.00
8.771	8.771 (1.140)	67	327000			0.00- 30.00		45.61
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.421	12.421 (1.297)	98	1497785	25.0000	24.773	70.00- 130.00		100.00
12.421	12.421 (1.297)	70	186844			0.00- 30.00		12.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	988991			0.00- 30.00	66.03
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	940762	25.0000	24.400	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1427121			119.64- 179.64	151.70
16.430	16.430 (1.108)	176	933648			67.05- 127.05	99.24
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.278)	85	24771	0.50000	0.4850	70.00- 130.00	100.00(a)
2.136	2.136 (0.278)	87	9934			0.00- 30.00	40.10
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	12224	0.50000	0.3802	70.00- 130.00	100.00(a)
2.274	2.274 (0.296)	137	5462			2.91- 62.91	44.68
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.523 (0.328)	62	13228	0.50000	0.4758	70.00- 130.00	100.00(a)
2.550	2.550 (0.332)	64	6971			0.00- 30.00	52.70
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.332)	54	15646	0.50000	0.5299	70.00- 130.00	100.00
2.523	2.523 (0.328)	39	28016			0.00- 30.00	179.06
7 Bromomethane					CAS #: 74-83-9		
2.993	2.993 (0.389)	94	6629	0.50000	0.4206	70.00- 130.00	100.00(a)
3.020	3.020 (0.393)	96	8537			65.08- 125.08	128.78
8 Chloroethane					CAS #: 75-00-3		
3.186	3.186 (0.414)	64	6823	0.50000	0.4983	70.00- 130.00	100.00(a)
3.159	3.159 (0.411)	49	3055			0.00- 30.00	44.78
3.269	3.269 (0.425)	66	2511			0.00- 30.00	36.80
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.446)	101	24111	0.50000	0.4749	70.00- 130.00	100.00(a)
3.435	3.435 (0.446)	103	15276			33.79- 93.79	63.36
19 Freon 113					CAS #: 76-13-1		
4.182	4.182 (0.544)	151	12825	0.50000	0.4997	70.00- 130.00	100.00(a)
4.209	4.209 (0.547)	153	10192			34.63- 94.63	79.47
4.209	4.209 (0.547)	101	17446			100.17- 160.17	136.03
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	21305	0.50000	0.5123	70.00- 130.00	100.00
4.237	4.237 (0.551)	96	10453			11.72- 71.72	49.06
4.237	4.237 (0.551)	98	8139			0.00- 56.22	38.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	32857	0.50000	0.5840	70.00- 130.00	100.00
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	21966	0.50000	0.5505	70.00- 130.00	100.00
5.094	5.094 (0.662)	84	9494			8.82- 68.82	43.22
5.094	5.094 (0.662)	51	8175			0.00- 30.00	37.22
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	25805	0.50000	0.4723	70.00- 130.00	100.00(a)
5.398	5.398 (0.702)	57	12391			6.00- 66.00	48.02
5.398	5.398 (0.702)	41	25033			0.00- 30.00	97.01
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.712)	96	10317	0.50000	0.5434	70.00- 130.00	100.00
5.481	5.481 (0.712)	61	20802			186.43- 246.43	201.63
5.454	5.454 (0.709)	98	12070			0.00- 30.00	116.99
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	20734	0.50000	0.4086	70.00- 130.00	100.00(a)
5.813	5.813 (0.756)	43	38512			0.00- 30.00	185.74
5.841	5.841 (0.759)	86	4598			0.00- 30.00	22.18
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.255	6.255 (0.813)	63	16600	0.50000	0.4069	70.00- 130.00	100.00(a)
6.228	6.228 (0.810)	65	9103			0.00- 58.08	54.84
53 2-Butanone					CAS #: 78-93-3		
7.334	7.334 (0.953)	72	6324	0.50000	0.6498	70.00- 130.00	100.00
7.334	7.334 (0.953)	43	58877			815.99- 875.99	931.01
7.361	7.361 (0.957)	57	11460			0.00- 30.00	181.21
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.946)	61	17076	0.50000	0.4805	70.00- 130.00	100.00(a)
7.278	7.278 (0.946)	96	14556			19.34- 79.34	85.24
7.278	7.278 (0.946)	98	6979			0.20- 60.20	40.87
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	34970	0.50000	0.6796	70.00- 130.00	100.00
7.693	7.693 (1.000)	71	5124			0.00- 47.56	14.65
7.693	7.693 (1.000)	72	5577			0.00- 30.00	15.95
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	17551	0.50000	0.5079	70.00- 130.00	100.00
7.831	7.831 (1.018)	85	13710			33.68- 93.68	78.12

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		
8.080	8.080 (1.050)	97	26112	0.50000	0.6345	70.00- 130.00	100.00
8.080	8.080 (1.050)	99	15430			32.72- 92.72	59.09
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	12965	0.50000	0.5082	70.00- 130.00	100.00
8.053	8.053 (1.047)	56	43563			183.52- 243.52	336.00
8.053	8.053 (1.047)	41	26960			108.51- 168.51	207.94
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.301	8.301 (1.079)	119	17789	0.50000	0.5088	70.00- 130.00	100.00
8.329	8.329 (1.083)	117	23681			72.63- 132.63	133.12
68 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.744	8.744 (1.137)	57	75862	0.50000	0.4871	70.00- 130.00	100.00(a)
8.744	8.744 (1.137)	56	40570			0.00- 30.00	53.48
8.744	8.744 (1.137)	41	22879			0.00- 30.00	30.16
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	29521	0.50000	0.5052	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	9550			0.00- 30.00	32.35
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.937	8.937 (0.934)	62	20941	0.50000	0.5868	70.00- 130.00	100.00
8.937	8.937 (0.934)	64	6561			0.00- 30.00	31.33
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	5222	0.50000	0.7713	70.00- 130.00	100.00
9.131	9.131 (0.954)	43	44669			0.00- 30.00	855.40
9.131	9.131 (0.954)	71	14142			0.00- 30.00	270.82
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	12323	0.50000	0.5489	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	10194			62.52- 122.52	82.72
10.016	10.016 (1.046)	97	10285			34.52- 94.52	83.46
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	12483	0.50000	0.4842	70.00- 130.00	100.00(a)
10.513	10.513 (1.098)	62	12182			43.46- 103.46	97.59
10.541	10.541 (1.101)	41	25143			60.82- 120.82	201.42
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	16368	0.50000	0.4727	70.00- 130.00	100.00(a)
11.066	11.066 (1.156)	85	10943			33.62- 93.62	66.86
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.006	12.006 (1.254)	75	13185	0.50000	0.4628	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
90 cis-1,3-Dichloropropene (continued)							
12.006	12.006 (1.254)	77	7720			1.19- 61.19	58.55
12.006	12.006 (1.254)	39	16304			74.96- 134.96	123.66
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	11671	0.50000	0.4393	70.00- 130.00	100.00(a)
12.338	12.338 (1.289)	43	63441			0.00- 30.00	543.58
12.338	12.338 (1.289)	85	5876			0.00- 30.00	50.35
99 Toluene					CAS #: 108-88-3		
12.532	12.532 (1.309)	91	30051	0.50000	0.5129	70.00- 130.00	100.00
12.559	12.559 (1.312)	92	18155			30.12- 90.12	60.41
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.140	13.140 (0.886)	75	14274	0.50000	0.4752	70.00- 130.00	100.00(a)
13.140	13.140 (0.886)	77	6986			2.12- 62.12	48.94
13.140	13.140 (0.886)	39	17105			67.82- 127.82	119.83
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	10264	0.50000	0.4870	70.00- 130.00	100.00(a)
13.417	13.417 (0.905)	99	9024			31.30- 91.30	87.92
13.417	13.417 (0.905)	83	8291			54.96- 114.96	80.78
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	15014	0.50000	0.5463	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	10959			44.60- 104.60	72.99
13.472	13.472 (0.909)	131	12150			40.70- 100.70	80.92
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	15344	0.50000	0.4957	70.00- 130.00	100.00(a)
13.997	13.997 (0.944)	127	10023			0.00- 30.00	65.32
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.163	14.163 (0.955)	107	13008	0.50000	0.4227	70.00- 130.00	100.00(a)
14.163	14.163 (0.955)	109	15531			65.04- 125.04	119.40
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	21473	0.50000	0.4529	70.00- 130.00	100.00(a)
14.854	14.854 (1.002)	114	10518			2.59- 62.59	48.98
14.854	14.854 (1.002)	77	27565			39.16- 99.16	128.37
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	14277	0.50000	0.5236	70.00- 130.00	100.00
14.993	14.993 (1.011)	91	43618			0.00- 30.00	305.51
113 m,p-Xylene					CAS #: 108-38-3		
15.158	15.158 (1.022)	106	17982	0.50000	0.5316	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
113 m,p-Xylene (continued)							
15.186	15.186 (1.024)	91	33951			0.00- 30.00	188.81
114 o-Xylene					CAS #: 95-47-6		
15.711	15.711 (1.060)	106	18698	0.50000	0.5668	70.00- 130.00	100.00
15.711	15.711 (1.060)	91	38948			191.28- 251.28	208.30
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	22310	0.50000	0.4452	70.00- 130.00	100.00(a)
15.739	15.739 (1.062)	78	14897			28.99- 88.99	66.77
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	11884	0.50000	0.4255	70.00- 130.00	100.00(a)
16.016	16.016 (1.080)	171	8094			22.31- 82.31	68.11
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	18084	0.50000	0.3928	70.00- 130.00	100.00(a)
16.679	16.679 (1.125)	85	17696			34.77- 94.77	97.85
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	49565	0.50000	0.4618	70.00- 130.00	100.00(a)
16.845	16.845 (1.136)	120	18182			0.00- 58.53	36.68
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	38707	0.50000	0.4369	70.00- 130.00	100.00(a)
16.928	16.928 (1.142)	120	24820			0.00- 30.00	64.12
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	46732	0.50000	0.4936	70.00- 130.00	100.00(a)
17.343	17.343 (1.170)	120	17329			15.03- 75.03	37.08
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	23569	0.50000	0.4885	70.00- 130.00	100.00(a)
17.647	17.647 (1.190)	148	13848			0.00- 30.00	58.76
17.647	17.647 (1.190)	111	10423			0.00- 30.00	44.22
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	29367	0.50000	0.4681	70.00- 130.00	100.00(a)
17.758	17.758 (1.198)	148	20530			0.00- 30.00	69.91
17.758	17.758 (1.198)	111	14342			0.00- 30.00	48.84
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	33744	0.50000	0.4211	70.00- 130.00	100.00(a)
17.896	17.896 (1.207)	126	7029			0.00- 30.00	20.83
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	23438	0.50000	0.4631	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
146 1,2-Dichlorobenzene (continued)							
18.117	18.117 (1.222)	148	16636			33.74- 93.74	70.98
18.117	18.117 (1.222)	111	13346			18.85- 78.85	56.94
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	56646	0.50000	0.4903	70.00- 130.00	100.00(a)
16.707	16.707 (1.127)	120	12634			0.00- 30.00	22.30
16.707	16.707 (1.127)	105	2299			0.00- 30.00	4.06
119 Cumene					CAS #: 98-82-8		
16.181	16.181 (1.091)	105	43649	0.50000	0.4585	70.00- 130.00	100.00(a)
16.181	16.181 (1.091)	120	12770			0.00- 30.00	29.26
16.181	16.181 (1.091)	51	11259			0.00- 30.00	25.79
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.209	10.209 (1.327)	83	15648	0.50000	0.4726	70.00- 130.00	100.00(a)
10.209	10.209 (1.327)	98	8372			0.00- 30.00	53.50
10.237	10.237 (1.331)	55	31082			0.00- 30.00	198.63
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	137604	0.50000	0.5282	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	24310			0.00- 30.00	17.67

QC Flag Legend

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

Report Date: 05-Apr-2007 15:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040404.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv->0.5ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	340439	3.95
79 1,4-Difluorobenze	1413957	848374	1979540	1456080	2.98
108 Chlorobenzene-d5	1301040	780624	1821456	1376296	5.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

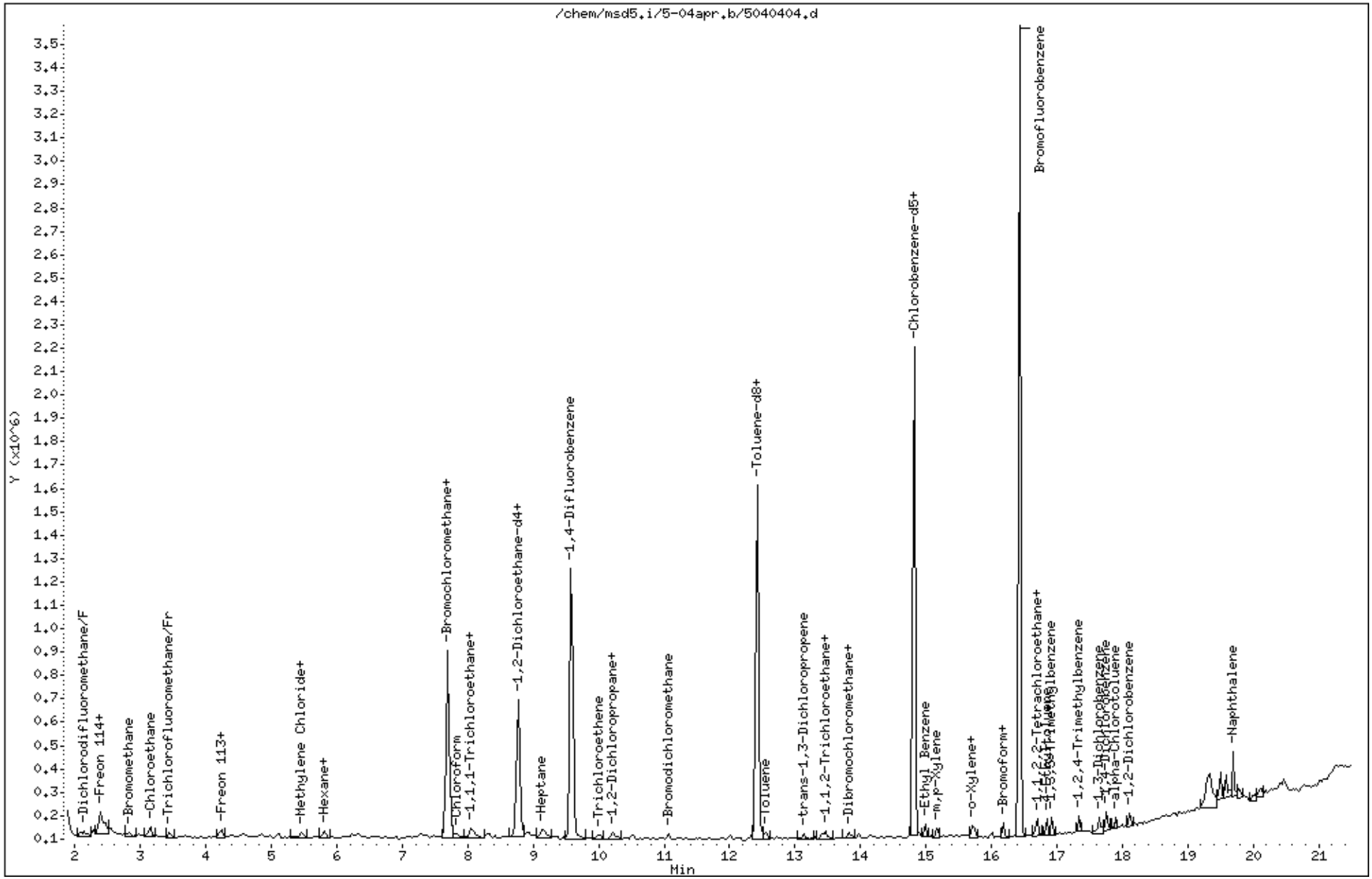
Data File: /chem/msd5.i/5-04apr.b/5040404.d
Date : 04-APR-2007 15:15
Client ID: Level 2
Sample Info: 0.5ml #1487-183

Column phase: RTx-624

Instrument: msd5.i

Operator: JG
Column diameter: 0.53

0083



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040405.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 04-APR-2007 15:43
Operator : JG Inst ID: msd5.i
Smp Info : 2.0ml #1487-183
Misc Info : 200ppbv-> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 15:43 Cal File: 5040405.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			
7.693	7.693 (1.000)	130	339191	25.0000		70.00- 130.00		100.00
7.693	7.693 (1.000)	128	269456			45.09- 105.09		79.44
7.693	7.693 (1.000)	49	1090313			291.97- 351.97		321.45
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.573	9.573 (1.000)	114	1461887	25.0000		70.00- 130.00		100.00
9.573	9.573 (1.000)	88	265942			0.00- 48.67		18.19
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.827	14.827 (1.000)	117	1372799	25.0000		70.00- 130.00		100.00
14.827	14.827 (1.000)	82	858947			0.00- 30.00		62.57
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.771	8.771 (1.140)	65	700162	25.0000	24.374	70.00- 130.00		100.00
8.771	8.771 (1.140)	67	324180			0.00- 30.00		46.30
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.421	12.421 (1.297)	98	1490196	25.0000	24.549	70.00- 130.00		100.00
12.421	12.421 (1.297)	70	190607			0.00- 30.00		12.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	949095			0.00- 30.00	63.69
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	948400	25.0000	24.661	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1419581			119.64- 179.64	149.68
16.430	16.430 (1.108)	176	913329			67.05- 127.05	96.30
1 Propylene					CAS #: 115-07-1		
2.080	2.080 (0.270)	41	67998	2.00000	2.174	70.00- 130.00	100.00
2.080	2.080 (0.270)	42	47272			0.00- 30.00	69.52
2.080	2.080 (0.270)	39	44663			0.00- 30.00	65.68
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.135	2.135 (0.278)	85	92180	2.00000	1.812	70.00- 130.00	100.00
2.135	2.135 (0.278)	87	30854			0.00- 30.00	33.47
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	64949	2.00000	2.027	70.00- 130.00	100.00
2.274	2.274 (0.296)	137	22034			2.91- 62.91	33.93
4 Chloromethane					CAS #: 74-87-3		
2.384	2.384 (0.310)	50	72883	2.00000	2.040	70.00- 130.00	100.00
2.384	2.384 (0.310)	52	30391			0.00- 30.00	41.70
5 Vinyl Chloride					CAS #: 75-01-4		
2.550	2.550 (0.331)	62	58323	2.00000	2.106	70.00- 130.00	100.00
2.550	2.550 (0.331)	64	17563			0.00- 30.00	30.11
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.331)	54	62454	2.00000	2.123	70.00- 130.00	100.00
2.550	2.550 (0.331)	39	87870			0.00- 30.00	140.70
7 Bromomethane					CAS #: 74-83-9		
3.020	3.020 (0.393)	94	29012	2.00000	1.847	70.00- 130.00	100.00
3.020	3.020 (0.393)	96	31205			65.08- 125.08	107.56
8 Chloroethane					CAS #: 75-00-3		
3.158	3.158 (0.411)	64	19138	2.00000	1.403	70.00- 130.00	100.00
3.158	3.158 (0.411)	49	10771			0.00- 30.00	56.28
3.158	3.158 (0.411)	66	6468			0.00- 30.00	33.80
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.446)	101	92341	2.00000	1.826	70.00- 130.00	100.00
3.435	3.435 (0.446)	103	59760			33.79- 93.79	64.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.794	3.794 (0.493)	45	27378	2.00000	2.078	70.00- 130.00	100.00
3.850	3.850 (0.500)	43	7526			0.00- 30.00	27.49
3.767	3.767 (0.490)	46	9583			0.00- 30.00	35.00
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	46959	2.00000	1.836	70.00- 130.00	100.00
4.209	4.209 (0.547)	153	34045			34.63- 94.63	72.50
4.209	4.209 (0.547)	101	60472			100.17- 160.17	128.78
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	81573	2.00000	1.968	70.00- 130.00	100.00
4.237	4.237 (0.551)	96	32703			11.72- 71.72	40.09
4.237	4.237 (0.551)	98	20110			0.00- 56.22	24.65
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.572)	58	25444	2.00000	1.816	70.00- 130.00	100.00(a)
4.403	4.403 (0.572)	43	95831			0.00- 30.00	376.63
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	116435	2.00000	1.814	70.00- 130.00	100.00(a)
4.596	4.596 (0.597)	43	50754			0.00- 30.00	43.59
4.596	4.596 (0.597)	59	3080			0.00- 30.00	2.65
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	101620	2.00000	1.813	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	19096	2.00000	2.139	70.00- 130.00	100.00
4.845	4.845 (0.630)	41	111166			0.00- 30.00	582.14
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	80078	2.00000	2.014	70.00- 130.00	100.00
5.094	5.094 (0.662)	84	30364			8.82- 68.82	37.92
5.094	5.094 (0.662)	51	30037			0.00- 30.00	37.51
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	95599	2.00000	1.756	70.00- 130.00	100.00
5.426	5.426 (0.705)	57	35211			6.00- 66.00	36.83
5.426	5.426 (0.705)	41	51362			0.00- 30.00	53.73
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.712)	96	37203	2.00000	1.967	70.00- 130.00	100.00
5.453	5.453 (0.709)	61	73112			186.43- 246.43	196.52
5.481	5.481 (0.712)	98	21193			0.00- 30.00	56.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	110554	2.00000	2.187	70.00- 130.00	100.00
5.813	5.813 (0.756)	43	79457			0.00- 30.00	71.87
5.813	5.813 (0.756)	86	13492			0.00- 30.00	12.20
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.255	6.255 (0.813)	63	71770	2.00000	1.766	70.00- 130.00	100.00
6.255	6.255 (0.813)	65	26787			0.00- 58.08	37.32
53 2-Butanone					CAS #: 78-93-3		
7.334	7.334 (0.953)	72	15483	2.00000	1.597	70.00- 130.00	100.00
7.334	7.334 (0.953)	43	149057			815.99- 875.99	962.71
7.334	7.334 (0.953)	57	12968			0.00- 30.00	83.76
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.946)	61	70242	2.00000	1.984	70.00- 130.00	100.00
7.278	7.278 (0.946)	96	31657			19.34- 79.34	45.07
7.251	7.251 (0.942)	98	18808			0.20- 60.20	26.78
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	105662	2.00000	2.061	70.00- 130.00	100.00
7.693	7.693 (1.000)	71	15337			0.00- 47.56	14.52
7.693	7.693 (1.000)	72	18546			0.00- 30.00	17.55
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	63606	2.00000	1.847	70.00- 130.00	100.00
7.831	7.831 (1.018)	85	40297			33.68- 93.68	63.35
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	73431	2.00000	1.791	70.00- 130.00	100.00
8.080	8.080 (1.050)	99	49209			32.72- 92.72	67.01
61 Cyclohexane					CAS #: 110-82-7		
8.052	8.052 (1.047)	84	47644	2.00000	1.874	70.00- 130.00	100.00
8.052	8.052 (1.047)	56	105392			183.52- 243.52	221.21
8.052	8.052 (1.047)	41	92955			108.51- 168.51	195.10
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	7432	2.00000	1.606	70.00- 130.00	100.00(a)
6.311	6.311 (0.820)	43	195979			0.00- 30.00	2636.96
6.311	6.311 (0.820)	42	36015			0.00- 30.00	484.59
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.301	8.301 (1.079)	119	63569	2.00000	1.825	70.00- 130.00	100.00
8.301	8.301 (1.079)	117	62456			72.63- 132.63	98.25

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		
8.744	8.744 (1.137)	57	291638	2.00000	1.879	70.00- 130.00	100.00
8.744	8.744 (1.137)	56	93013			0.00- 30.00	31.89
8.744	8.744 (1.137)	41	96049			0.00- 30.00	32.93
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	108332	2.00000	1.847	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	25186			0.00- 30.00	23.25
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.910 (0.931)	62	65512	2.00000	1.828	70.00- 130.00	100.00
8.910	8.910 (0.931)	64	20693			0.00- 30.00	31.59
75 Heptane					CAS #: 142-82-5		
9.158	9.158 (0.957)	100	10640	2.00000	1.565	70.00- 130.00	100.00
9.158	9.158 (0.957)	43	168359			0.00- 30.00	1582.32
9.158	9.158 (0.957)	71	40574			0.00- 30.00	381.33
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	41353	2.00000	1.835	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	41418			62.52- 122.52	100.16
9.988	9.988 (1.043)	97	30026			34.52- 94.52	72.61
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	52633	2.00000	2.033	70.00- 130.00	100.00
10.513	10.513 (1.098)	62	38069			43.46- 103.46	72.33
10.513	10.513 (1.098)	41	58751			60.82- 120.82	111.62
84 1,4-Dioxane					CAS #: 123-91-1		
10.762	10.762 (1.124)	88	24609	2.00000	2.031	70.00- 130.00	100.00
10.762	10.762 (1.124)	58	27182			85.55- 145.55	110.46
10.762	10.762 (1.124)	57	10942			0.00- 30.00	44.46
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	60876	2.00000	1.751	70.00- 130.00	100.00
11.066	11.066 (1.156)	85	43651			33.62- 93.62	71.70
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.006	12.006 (1.254)	75	57137	2.00000	1.998	70.00- 130.00	100.00
12.006	12.006 (1.254)	77	19997			1.19- 61.19	35.00
12.006	12.006 (1.254)	39	58600			74.96- 134.96	102.56
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	52633	2.00000	1.973	70.00- 130.00	100.00
12.338	12.338 (1.289)	43	189962			0.00- 30.00	360.92
12.338	12.338 (1.289)	85	17436			0.00- 30.00	33.13

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.312)	91	112774	2.00000	1.917	70.00- 130.00	100.00
12.559	12.559 (1.312)	92	72905			30.12- 90.12	64.65
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.140	13.140 (0.886)	75	49190	2.00000	1.642	70.00- 130.00	100.00
13.140	13.140 (0.886)	77	19225			2.12- 62.12	39.08
13.112	13.112 (0.884)	39	57129			67.82- 127.82	116.14
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.416	13.416 (0.905)	97	44374	2.00000	2.111	70.00- 130.00	100.00
13.416	13.416 (0.905)	99	24659			31.30- 91.30	55.57
13.416	13.416 (0.905)	83	31376			54.96- 114.96	70.71
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	45203	2.00000	1.649	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	37087			44.60- 104.60	82.05
13.472	13.472 (0.909)	131	39605			40.70- 100.70	87.62
103 2-Hexanone					CAS #: 591-78-6		
13.831	13.831 (0.933)	58	68166	2.00000	1.857	70.00- 130.00	100.00(a)
13.831	13.831 (0.933)	43	167487			216.44- 276.44	245.70
13.831	13.831 (0.933)	100	9051			0.00- 30.00	13.28
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	49530	2.00000	1.604	70.00- 130.00	100.00
13.997	13.997 (0.944)	127	43082			0.00- 30.00	86.98
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.163	14.163 (0.955)	107	57520	2.00000	1.874	70.00- 130.00	100.00
14.163	14.163 (0.955)	109	55317			65.04- 125.04	96.17
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	90712	2.00000	1.918	70.00- 130.00	100.00
14.854	14.854 (1.002)	114	32990			2.59- 62.59	36.37
14.854	14.854 (1.002)	77	75633			39.16- 99.16	83.38
111 Ethyl Benzene					CAS #: 100-41-4		
14.992	14.992 (1.011)	106	48225	2.00000	1.773	70.00- 130.00	100.00
14.992	14.992 (1.011)	91	171074			0.00- 30.00	354.74
113 m,p-Xylene					CAS #: 108-38-3		
15.186	15.186 (1.024)	106	63138	2.00000	1.871	70.00- 130.00	100.00
15.158	15.158 (1.022)	91	127458			0.00- 30.00	201.87
114 o-Xylene					CAS #: 95-47-6		
15.711	15.711 (1.060)	106	57932	2.00000	1.760	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)							
15.711	15.711 (1.060)	91	141494			191.28- 251.28	244.24
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	91143	2.00000	1.824	70.00- 130.00	100.00
15.739	15.739 (1.062)	78	55780			28.99- 88.99	61.20
118 Bromoform					CAS #: 75-25-2		
16.015	16.015 (1.080)	173	46494	2.00000	1.669	70.00- 130.00	100.00
16.015	16.015 (1.080)	171	26262			22.31- 82.31	56.48
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	97260	2.00000	2.118	70.00- 130.00	100.00
16.679	16.679 (1.125)	85	61847			34.77- 94.77	63.59
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	218816	2.00000	2.044	70.00- 130.00	100.00
16.845	16.845 (1.136)	120	59784			0.00- 58.53	27.32
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	177750	2.00000	2.011	70.00- 130.00	100.00
16.928	16.928 (1.142)	120	86098			0.00- 30.00	48.44
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	196531	2.00000	2.081	70.00- 130.00	100.00
17.343	17.343 (1.170)	120	78107			15.03- 75.03	39.74
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	93419	2.00000	1.941	70.00- 130.00	100.00
17.647	17.647 (1.190)	148	57411			0.00- 30.00	61.46
17.647	17.647 (1.190)	111	44997			0.00- 30.00	48.17
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.757	17.757 (1.198)	146	120314	2.00000	1.923	70.00- 130.00	100.00
17.757	17.757 (1.198)	148	77400			0.00- 30.00	64.33
17.757	17.757 (1.198)	111	48165			0.00- 30.00	40.03
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	151100	2.00000	1.890	70.00- 130.00	100.00
17.896	17.896 (1.207)	126	21497			0.00- 30.00	14.23
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	106683	2.00000	2.113	70.00- 130.00	100.00
18.117	18.117 (1.222)	148	68203			33.74- 93.74	63.93
18.117	18.117 (1.222)	111	50674			18.85- 78.85	47.50

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		
19.499	19.499 (1.315)	180	145739	2.00000	2.384	70.00- 130.00	100.00
19.499	19.499 (1.315)	182	139399			64.28- 124.28	95.65
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	78424	2.00000	2.355	70.00- 130.00	100.00
19.582	19.582 (1.321)	223	46894			32.94- 92.94	59.80
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	233474	2.00000	2.026	70.00- 130.00	100.00
16.707	16.707 (1.127)	120	53731			0.00- 30.00	23.01
16.707	16.707 (1.127)	105	11591			0.00- 30.00	4.96
119 Cumene					CAS #: 98-82-8		
16.181	16.181 (1.091)	105	179750	2.00000	1.893	70.00- 130.00	100.00
16.181	16.181 (1.091)	120	46614			0.00- 30.00	25.93
16.181	16.181 (1.091)	51	38118			0.00- 30.00	21.21
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	687669	2.00000	2.646	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	96418			0.00- 30.00	14.02
30 Isopentane					CAS #: 78-78-4		
3.158	3.158 (0.411)	43	128545	2.00000	2.260	70.00- 130.00	100.00
3.158	3.158 (0.411)	57	60088			0.00- 30.00	46.74
3.158	3.158 (0.411)	72	5670			0.00- 30.00	4.41
21 Butane					CAS #: 106-97-8		
2.467	2.467 (0.321)	58	15724	2.00000	2.130	70.00- 130.00	100.00
2.467	2.467 (0.321)	43	185325			0.00- 30.00	1178.61
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.237	10.237 (1.331)	83	62324	2.00000	1.889	70.00- 130.00	100.00
10.237	10.237 (1.331)	98	32922			0.00- 30.00	52.82
10.209	10.209 (1.327)	55	97154			0.00- 30.00	155.89

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: 5040405.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv-> 2.0ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	339191	3.57
79 1,4-Difluorobenze	1413957	848374	1979540	1461887	3.39
108 Chlorobenzene-d5	1301040	780624	1821456	1372799	5.52

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

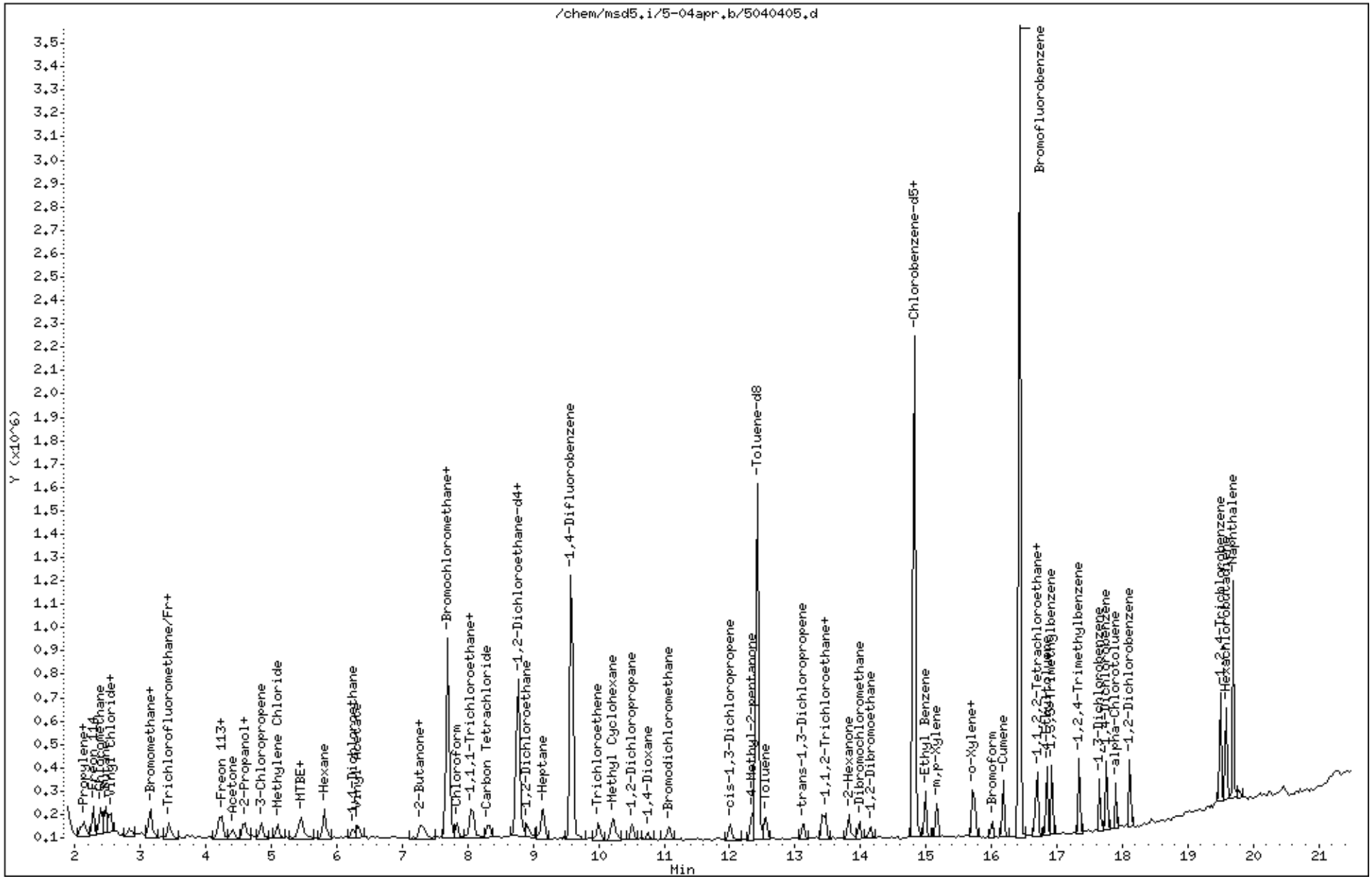
0093

Data File: /chem/msd5.i/5-04apr.b/5040405.d
Date : 04-APR-2007 15:43
Client ID: Level 3
Sample Info: 2.0ml #1487-183

Instrument: msd5.i

Operator: JG

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040406.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 04-APR-2007 16:11
Operator : JG Inst ID: msd5.i
Smp Info : 25ml #1487-183
Misc Info : 200ppbv->25ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 16:11 Cal File: 5040406.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		
7.693	7.693 (1.000)	130	324381	25.0000		70.00- 130.00	100.00
7.693	7.693 (1.000)	128	258195			45.09- 105.09	79.60
7.693	7.693 (1.000)	49	1058634			291.97- 351.97	326.36
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.573	9.573 (1.000)	114	1450739	25.0000		70.00- 130.00	100.00
9.573	9.573 (1.000)	88	264813			0.00- 48.67	18.25
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1340717	25.0000		70.00- 130.00	100.00
14.827	14.827 (1.000)	82	828318			0.00- 30.00	61.78
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.772	8.772 (1.140)	65	695333	25.0000	25.311	70.00- 130.00	100.00
8.772	8.772 (1.140)	67	344750			0.00- 30.00	49.58
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1492555	25.0000	24.777	70.00- 130.00	100.00
12.421	12.421 (1.297)	70	182737			0.00- 30.00	12.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1017905			0.00- 30.00	68.20
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	946159	25.0000	25.191	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1412725			119.64- 179.64	149.31
16.430	16.430 (1.108)	176	921387			67.05- 127.05	97.38
1 Propylene					CAS #: 115-07-1		
2.080	2.080 (0.270)	41	778026	25.0000	26.009	70.00- 130.00	100.00
2.080	2.080 (0.270)	42	509656			0.00- 30.00	65.51
2.080	2.080 (0.270)	39	568078			0.00- 30.00	73.02
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.278)	85	1365368	25.0000	28.058	70.00- 130.00	100.00
2.136	2.136 (0.278)	87	429632			0.00- 30.00	31.47
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	849874	25.0000	27.740	70.00- 130.00	100.00
2.274	2.274 (0.296)	137	276206			2.91- 62.91	32.50
4 Chloromethane					CAS #: 74-87-3		
2.385	2.385 (0.310)	50	928102	25.0000	27.160	70.00- 130.00	100.00
2.385	2.385 (0.310)	52	281513			0.00- 30.00	30.33
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.523 (0.328)	62	714016	25.0000	26.956	70.00- 130.00	100.00
2.550	2.550 (0.332)	64	212699			0.00- 30.00	29.79
6 1,3-Butadiene					CAS #: 106-99-0		
2.523	2.523 (0.328)	54	734064	25.0000	26.092	70.00- 130.00	100.00
2.523	2.523 (0.328)	39	860109			0.00- 30.00	117.17
7 Bromomethane					CAS #: 74-83-9		
3.020	3.020 (0.393)	94	405816	25.0000	27.022	70.00- 130.00	100.00
3.020	3.020 (0.393)	96	374304			65.08- 125.08	92.23
8 Chloroethane					CAS #: 75-00-3		
3.131	3.131 (0.407)	64	366393	25.0000	28.085	70.00- 130.00	100.00
3.131	3.131 (0.407)	49	141322			0.00- 30.00	38.57
3.131	3.131 (0.407)	66	106516			0.00- 30.00	29.07
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.447)	101	1332906	25.0000	27.555	70.00- 130.00	100.00
3.435	3.435 (0.447)	103	873879			33.79- 93.79	65.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.767	3.767 (0.490)	45	326423	25.0000	25.910	70.00- 130.00	100.00
3.767	3.767 (0.490)	43	80452			0.00- 30.00	24.65
3.767	3.767 (0.490)	46	136819			0.00- 30.00	41.91
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	672833	25.0000	27.514	70.00- 130.00	100.00
4.209	4.209 (0.547)	153	439939			34.63- 94.63	65.39
4.209	4.209 (0.547)	101	861925			100.17- 160.17	128.10
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	1050633	25.0000	26.512	70.00- 130.00	100.00
4.237	4.237 (0.551)	96	426349			11.72- 71.72	40.58
4.237	4.237 (0.551)	98	263562			0.00- 56.22	25.09
22 Acetone					CAS #: 67-64-1		
4.375	4.375 (0.569)	58	372141	25.0000	27.769	70.00- 130.00	100.00
4.375	4.375 (0.569)	43	1429555			0.00- 30.00	384.14
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	1642245	25.0000	26.754	70.00- 130.00	100.00
4.596	4.596 (0.597)	43	359795			0.00- 30.00	21.91
4.596	4.596 (0.597)	59	48154			0.00- 30.00	2.93
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	1384562	25.0000	25.826	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	233553	25.0000	27.361	70.00- 130.00	100.00
4.845	4.845 (0.630)	41	1369077			0.00- 30.00	586.20
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	971699	25.0000	25.557	70.00- 130.00	100.00
5.094	5.094 (0.662)	84	376271			8.82- 68.82	38.72
5.094	5.094 (0.662)	51	290938			0.00- 30.00	29.94
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	1431588	25.0000	27.500	70.00- 130.00	100.00
5.426	5.426 (0.705)	57	489133			6.00- 66.00	34.17
5.426	5.426 (0.705)	41	605099			0.00- 30.00	42.27
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.454	5.454 (0.709)	96	468472	25.0000	25.895	70.00- 130.00	100.00
5.454	5.454 (0.709)	61	1030858			186.43- 246.43	220.05
5.481	5.481 (0.712)	98	308125			0.00- 30.00	65.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	1326334	25.0000	27.431	70.00- 130.00	100.00
5.813	5.813 (0.756)	43	1109278			0.00- 30.00	83.63
5.813	5.813 (0.756)	86	131487			0.00- 30.00	9.91
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.228	6.228 (0.810)	63	1110352	25.0000	28.565	70.00- 130.00	100.00
6.228	6.228 (0.810)	65	325839			0.00- 58.08	29.35
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.950)	72	237543	25.0000	25.616	70.00- 130.00	100.00
7.306	7.306 (0.950)	43	2052637			815.99- 875.99	864.11
7.306	7.306 (0.950)	57	128075			0.00- 30.00	53.92
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.251	7.251 (0.942)	61	907917	25.0000	26.813	70.00- 130.00	100.00
7.278	7.278 (0.946)	96	466137			19.34- 79.34	51.34
7.278	7.278 (0.946)	98	281610			0.20- 60.20	31.02
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	1181176	25.0000	24.092	70.00- 130.00	100.00
7.693	7.693 (1.000)	71	213558			0.00- 47.56	18.08
7.693	7.693 (1.000)	72	225335			0.00- 30.00	19.08
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	926294	25.0000	28.132	70.00- 130.00	100.00
7.831	7.831 (1.018)	85	576962			33.68- 93.68	62.29
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	999430	25.0000	25.489	70.00- 130.00	100.00
8.080	8.080 (1.050)	99	624478			32.72- 92.72	62.48
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	650898	25.0000	26.775	70.00- 130.00	100.00
8.053	8.053 (1.047)	56	1422673			183.52- 243.52	218.57
8.053	8.053 (1.047)	41	973267			108.51- 168.51	149.53
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	120248	25.0000	27.163	70.00- 130.00	100.00
6.311	6.311 (0.820)	43	2674463			0.00- 30.00	2224.12
6.311	6.311 (0.820)	42	200142			0.00- 30.00	166.44
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.301	8.301 (1.079)	119	883974	25.0000	26.536	70.00- 130.00	100.00
8.301	8.301 (1.079)	117	910917			72.63- 132.63	103.05

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		
8.744	8.744 (1.137)	57	4049456	25.0000	27.289	70.00- 130.00	100.00
8.744	8.744 (1.137)	56	1345770			0.00- 30.00	33.23
8.744	8.744 (1.137)	41	1267322			0.00- 30.00	31.30
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	1457605	25.0000	25.038	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	341143			0.00- 30.00	23.40
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.910 (0.931)	62	894725	25.0000	25.162	70.00- 130.00	100.00
8.910	8.910 (0.931)	64	274074			0.00- 30.00	30.63
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	164597	25.0000	24.402	70.00- 130.00	100.00
9.131	9.131 (0.954)	43	1987964			0.00- 30.00	1207.78
9.159	9.159 (0.957)	71	515085			0.00- 30.00	312.94
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	564616	25.0000	25.242	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	523636			62.52- 122.52	92.74
9.988	9.988 (1.043)	97	371068			34.52- 94.52	65.72
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	660013	25.0000	25.695	70.00- 130.00	100.00
10.513	10.513 (1.098)	62	494156			43.46- 103.46	74.87
10.513	10.513 (1.098)	41	578174			60.82- 120.82	87.60
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	305027	25.0000	25.371	70.00- 130.00	100.00
10.735	10.735 (1.121)	58	361097			85.55- 145.55	118.38
10.735	10.735 (1.121)	57	108993			0.00- 30.00	35.73
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	893977	25.0000	25.915	70.00- 130.00	100.00
11.066	11.066 (1.156)	85	583858			33.62- 93.62	65.31
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.007	12.007 (1.254)	75	723048	25.0000	25.474	70.00- 130.00	100.00
12.007	12.007 (1.254)	77	227941			1.19- 61.19	31.53
12.007	12.007 (1.254)	39	767863			74.96- 134.96	106.20
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	699090	25.0000	26.412	70.00- 130.00	100.00
12.338	12.338 (1.289)	43	2320980			0.00- 30.00	332.00
12.338	12.338 (1.289)	85	187503			0.00- 30.00	26.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.312)	91	1501925	25.0000	25.730	70.00- 130.00	100.00
12.559	12.559 (1.312)	92	901970			30.12- 90.12	60.05
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.112	13.112 (0.884)	75	781359	25.0000	26.703	70.00- 130.00	100.00
13.112	13.112 (0.884)	77	248347			2.12- 62.12	31.78
13.112	13.112 (0.884)	39	762798			67.82- 127.82	97.62
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	517296	25.0000	25.198	70.00- 130.00	100.00
13.417	13.417 (0.905)	99	316900			31.30- 91.30	61.26
13.417	13.417 (0.905)	83	442617			54.96- 114.96	85.56
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	685828	25.0000	25.617	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	525149			44.60- 104.60	76.57
13.472	13.472 (0.909)	131	486224			40.70- 100.70	70.90
103 2-Hexanone					CAS #: 591-78-6		
13.831	13.831 (0.933)	58	892212	25.0000	24.885	70.00- 130.00	100.00
13.804	13.804 (0.931)	43	2176518			216.44- 276.44	243.95
13.831	13.831 (0.933)	100	114902			0.00- 30.00	12.88
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	775623	25.0000	25.724	70.00- 130.00	100.00
13.997	13.997 (0.944)	127	582554			0.00- 30.00	75.11
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.136	14.136 (0.953)	107	784191	25.0000	26.158	70.00- 130.00	100.00
14.163	14.163 (0.955)	109	748504			65.04- 125.04	95.45
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	1230656	25.0000	26.645	70.00- 130.00	100.00
14.854	14.854 (1.002)	114	404185			2.59- 62.59	32.84
14.854	14.854 (1.002)	77	821024			39.16- 99.16	66.71
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	680513	25.0000	25.620	70.00- 130.00	100.00
14.993	14.993 (1.011)	91	2233544			0.00- 30.00	328.21
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.159 (1.022)	106	832836	25.0000	25.273	70.00- 130.00	100.00
15.159	15.159 (1.022)	91	1740277			0.00- 30.00	208.96
114 o-Xylene					CAS #: 95-47-6		
15.712	15.712 (1.060)	106	808384	25.0000	25.154	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)							
15.712	15.712 (1.060)	91	1835807			191.28- 251.28	227.10
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	1284727	25.0000	26.319	70.00- 130.00	100.00
15.739	15.739 (1.062)	78	761386			28.99- 88.99	59.26
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	693944	25.0000	25.506	70.00- 130.00	100.00
16.016	16.016 (1.080)	171	358964			22.31- 82.31	51.73
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	1181549	25.0000	26.344	70.00- 130.00	100.00
16.679	16.679 (1.125)	85	765417			34.77- 94.77	64.78
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	2825973	25.0000	27.026	70.00- 130.00	100.00
16.845	16.845 (1.136)	120	805417			0.00- 58.53	28.50
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	2318079	25.0000	26.858	70.00- 130.00	100.00
16.928	16.928 (1.142)	120	1117329			0.00- 30.00	48.20
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	2395343	25.0000	25.974	70.00- 130.00	100.00
17.343	17.343 (1.170)	120	1072060			15.03- 75.03	44.76
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	1233673	25.0000	26.249	70.00- 130.00	100.00
17.647	17.647 (1.190)	148	763483			0.00- 30.00	61.89
17.647	17.647 (1.190)	111	565242			0.00- 30.00	45.82
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	1587298	25.0000	25.973	70.00- 130.00	100.00
17.758	17.758 (1.198)	148	999547			0.00- 30.00	62.97
17.758	17.758 (1.198)	111	633611			0.00- 30.00	39.92
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	1977304	25.0000	25.328	70.00- 130.00	100.00
17.896	17.896 (1.207)	126	319369			0.00- 30.00	16.15
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	1273335	25.0000	25.829	70.00- 130.00	100.00
18.117	18.117 (1.222)	148	807604			33.74- 93.74	63.42
18.117	18.117 (1.222)	111	620666			18.85- 78.85	48.74

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		
19.500	19.500 (1.315)	180	1374962	25.0000	23.035	70.00- 130.00	100.00
19.500	19.500 (1.315)	182	1295255			64.28- 124.28	94.20
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	792655	25.0000	24.370	70.00- 130.00	100.00
19.582	19.582 (1.321)	223	484184			32.94- 92.94	61.08
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	3070593	25.0000	27.284	70.00- 130.00	100.00
16.707	16.707 (1.127)	120	695047			0.00- 30.00	22.64
16.707	16.707 (1.127)	105	115612			0.00- 30.00	3.77
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	2417907	25.0000	26.071	70.00- 130.00	100.00
16.182	16.182 (1.091)	120	636394			0.00- 30.00	26.32
16.182	16.182 (1.091)	51	478239			0.00- 30.00	19.78
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	6092183	25.0000	24.006	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	783358			0.00- 30.00	12.86
30 Isopentane					CAS #: 78-78-4		
3.131	3.131 (0.407)	43	1399893	25.0000	25.735	70.00- 130.00	100.00
3.131	3.131 (0.407)	57	763492			0.00- 30.00	54.54
3.131	3.131 (0.407)	72	55531			0.00- 30.00	3.97
21 Butane					CAS #: 106-97-8		
2.467	2.467 (0.321)	58	184635	25.0000	26.150	70.00- 130.00	100.00
2.467	2.467 (0.321)	43	1652297			0.00- 30.00	894.90
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.209	10.209 (1.327)	83	862093	25.0000	27.328	70.00- 130.00	100.00
10.237	10.237 (1.331)	98	401388			0.00- 30.00	46.56
10.209	10.209 (1.327)	55	1349124			0.00- 30.00	156.49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040406.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv->25ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	324381	-0.96
79 1,4-Difluorobenze	1413957	848374	1979540	1450739	2.60
108 Chlorobenzene-d5	1301040	780624	1821456	1340717	3.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

0103

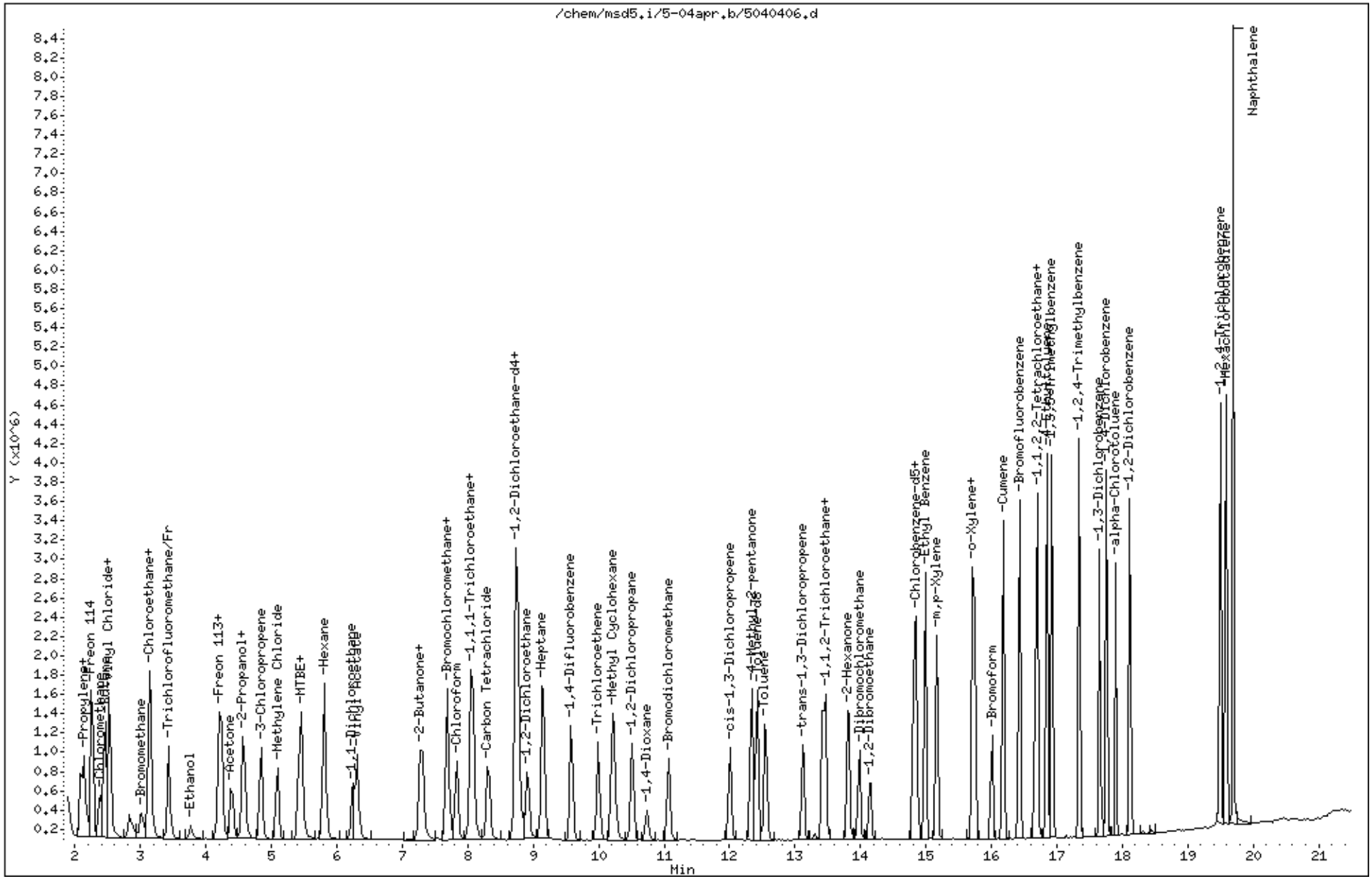
Data File: /chem/msd5.i/5-04apr.b/5040406.d
Date : 04-APR-2007 16:11
Client ID: Level 4
Sample Info: 25ml #1487-183

Instrument: msd5.i

Operator: JG

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040407.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 04-APR-2007 16:39
Operator : JG Inst ID: msd5.i
Smp Info : 50ml #1487-183
Misc Info : 200ppbv-> 50ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 16:39 Cal File: 5040407.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			
7.693	7.693 (1.000)	130	327514	25.0000		70.00- 130.00		100.00
7.693	7.693 (1.000)	128	245931			45.09- 105.09		75.09
7.693	7.693 (1.000)	49	1054506			291.97- 351.97		321.97
* 79 1,4-Difluorobenzene					CAS #: 540-36-3			
9.573	9.573 (1.000)	114	1413957	25.0000		70.00- 130.00		100.00
9.573	9.573 (1.000)	88	263946			0.00- 48.67		18.67
* 108 Chlorobenzene-d5					CAS #: 3114-55-4			
14.827	14.827 (1.000)	117	1301040	25.0000		70.00- 130.00		100.00
14.827	14.827 (1.000)	82	825669			0.00- 30.00		63.46
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.772	8.772 (1.140)	65	697023	25.0000	25.130	70.00- 130.00		100.00
8.772	8.772 (1.140)	67	372838			0.00- 30.00		53.49
$ 97 Toluene-d8					CAS #: 2037-26-5			
12.421	12.421 (1.297)	98	1493962	25.0000	25.446	70.00- 130.00		100.00
12.421	12.421 (1.297)	70	191020			0.00- 30.00		12.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1021535			0.00- 30.00	68.38
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	923401	25.0000	25.335	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1381794			119.64- 179.64	149.64
16.430	16.430 (1.108)	176	896191			67.05- 127.05	97.05
1 Propylene					CAS #: 115-07-1		
2.080	2.080 (0.270)	41	1527832	50.0000	50.586	70.00- 130.00	100.00
2.080	2.080 (0.270)	42	996841			0.00- 30.00	65.25
2.080	2.080 (0.270)	39	1085916			0.00- 30.00	71.08
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.278)	85	2638085	50.0000	53.693	70.00- 130.00	100.00
2.136	2.136 (0.278)	87	841338			0.00- 30.00	31.89
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	1680900	50.0000	54.340	70.00- 130.00	100.00
2.274	2.274 (0.296)	137	553180			2.91- 62.91	32.91
4 Chloromethane					CAS #: 74-87-3		
2.385	2.385 (0.310)	50	1809964	50.0000	52.459	70.00- 130.00	100.00
2.385	2.385 (0.310)	52	538141			0.00- 30.00	29.73
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.523 (0.328)	62	1386562	50.0000	51.846	70.00- 130.00	100.00
2.523	2.523 (0.328)	64	399539			0.00- 30.00	28.82
6 1,3-Butadiene					CAS #: 106-99-0		
2.523	2.523 (0.328)	54	1388140	50.0000	48.869	70.00- 130.00	100.00
2.523	2.523 (0.328)	39	1664990			0.00- 30.00	119.94
7 Bromomethane					CAS #: 74-83-9		
2.993	2.993 (0.389)	94	821256	50.0000	54.162	70.00- 130.00	100.00
2.993	2.993 (0.389)	96	787258			65.08- 125.08	95.86
8 Chloroethane					CAS #: 75-00-3		
3.131	3.131 (0.407)	64	718961	50.0000	54.582	70.00- 130.00	100.00
3.131	3.131 (0.407)	49	272324			0.00- 30.00	37.88
3.131	3.131 (0.407)	66	201213			0.00- 30.00	27.99
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.447)	101	2579062	50.0000	52.806	70.00- 130.00	100.00
3.435	3.435 (0.447)	103	1643796			33.79- 93.79	63.74

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.767	3.767 (0.490)	45	648965	50.0000	51.020	70.00- 130.00	100.00
3.767	3.767 (0.490)	43	117314			0.00- 30.00	18.08
3.767	3.767 (0.490)	46	250631			0.00- 30.00	38.62
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	1277011	50.0000	51.722	70.00- 130.00	100.00
4.209	4.209 (0.547)	153	825381			34.63- 94.63	64.63
4.209	4.209 (0.547)	101	1663194			100.17- 160.17	130.24
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	2030206	50.0000	50.742	70.00- 130.00	100.00
4.237	4.237 (0.551)	96	846601			11.72- 71.72	41.70
4.237	4.237 (0.551)	98	532123			0.00- 56.22	26.21
22 Acetone					CAS #: 67-64-1		
4.375	4.375 (0.569)	58	704930	50.0000	52.099	70.00- 130.00	100.00
4.375	4.375 (0.569)	43	2726596			0.00- 30.00	386.79
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	3225229	50.0000	52.040	70.00- 130.00	100.00
4.596	4.596 (0.597)	43	642324			0.00- 30.00	19.92
4.596	4.596 (0.597)	59	90966			0.00- 30.00	2.82
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	2714061	50.0000	50.141	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	429508	50.0000	49.836	70.00- 130.00	100.00
4.845	4.845 (0.630)	41	2606717			0.00- 30.00	606.91
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	1920769	50.0000	50.035	70.00- 130.00	100.00
5.094	5.094 (0.662)	84	745581			8.82- 68.82	38.82
5.094	5.094 (0.662)	51	584252			0.00- 30.00	30.42
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	2842963	50.0000	54.089	70.00- 130.00	100.00
5.426	5.426 (0.705)	57	1023553			6.00- 66.00	36.00
5.426	5.426 (0.705)	41	1145517			0.00- 30.00	40.29
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.454	5.454 (0.709)	96	922545	50.0000	50.507	70.00- 130.00	100.00
5.454	5.454 (0.709)	61	2003709			186.43- 246.43	217.19
5.481	5.481 (0.712)	98	550676			0.00- 30.00	59.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	2556964	50.0000	52.376	70.00- 130.00	100.00
5.813	5.813 (0.756)	43	2117846			0.00- 30.00	82.83
5.813	5.813 (0.756)	86	274267			0.00- 30.00	10.73
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.228	6.228 (0.810)	63	2175916	50.0000	55.442	70.00- 130.00	100.00
6.228	6.228 (0.810)	65	610784			0.00- 58.08	28.07
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.950)	72	470535	50.0000	50.256	70.00- 130.00	100.00
7.306	7.306 (0.950)	43	3980670			815.99- 875.99	845.99
7.306	7.306 (0.950)	57	251716			0.00- 30.00	53.50
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.251	7.251 (0.942)	61	1793385	50.0000	52.456	70.00- 130.00	100.00
7.278	7.278 (0.946)	96	888056			19.34- 79.34	49.52
7.278	7.278 (0.946)	98	544251			0.20- 60.20	30.35
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	2310252	50.0000	46.671	70.00- 130.00	100.00
7.693	7.693 (1.000)	71	405650			0.00- 47.56	17.56
7.693	7.693 (1.000)	72	426643			0.00- 30.00	18.47
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	1811906	50.0000	54.502	70.00- 130.00	100.00
7.831	7.831 (1.018)	85	1153849			33.68- 93.68	63.68
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	1967483	50.0000	49.698	70.00- 130.00	100.00
8.080	8.080 (1.050)	99	1234071			32.72- 92.72	62.72
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	1293809	50.0000	52.712	70.00- 130.00	100.00
8.053	8.053 (1.047)	56	2762566			183.52- 243.52	213.52
8.053	8.053 (1.047)	41	1792080			108.51- 168.51	138.51
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	239913	50.0000	53.676	70.00- 130.00	100.00
6.311	6.311 (0.820)	43	5226562			0.00- 30.00	2178.52
6.311	6.311 (0.820)	42	405832			0.00- 30.00	169.16
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.301	8.301 (1.079)	119	1747366	50.0000	51.953	70.00- 130.00	100.00
8.301	8.301 (1.079)	117	1793358			72.63- 132.63	102.63

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		
8.744	8.744 (1.137)	57	7830249	50.0000	52.262	70.00- 130.00	100.00
8.744	8.744 (1.137)	56	2610335			0.00- 30.00	33.34
8.744	8.744 (1.137)	41	2463800			0.00- 30.00	31.47
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	2834476	50.0000	49.955	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	666439			0.00- 30.00	23.51
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.910 (0.931)	62	1741160	50.0000	50.240	70.00- 130.00	100.00
8.910	8.910 (0.931)	64	533785			0.00- 30.00	30.66
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	309807	50.0000	47.125	70.00- 130.00	100.00
9.131	9.131 (0.954)	43	3751488			0.00- 30.00	1210.91
9.159	9.159 (0.957)	71	997947			0.00- 30.00	322.12
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	1122778	50.0000	51.502	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	1038818			62.52- 122.52	92.52
9.988	9.988 (1.043)	97	724375			34.52- 94.52	64.52
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	1285817	50.0000	51.360	70.00- 130.00	100.00
10.513	10.513 (1.098)	62	944606			43.46- 103.46	73.46
10.513	10.513 (1.098)	41	1167824			60.82- 120.82	90.82
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	601147	50.0000	51.302	70.00- 130.00	100.00
10.735	10.735 (1.121)	58	696788			85.55- 145.55	115.91
10.735	10.735 (1.121)	57	236377			0.00- 30.00	39.32
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	1802508	50.0000	53.611	70.00- 130.00	100.00
11.066	11.066 (1.156)	85	1146735			33.62- 93.62	63.62
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.007	12.007 (1.254)	75	1450312	50.0000	52.426	70.00- 130.00	100.00
12.007	12.007 (1.254)	77	452377			1.19- 61.19	31.19
12.007	12.007 (1.254)	39	1522250			74.96- 134.96	104.96
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	1363203	50.0000	52.843	70.00- 130.00	100.00
12.338	12.338 (1.289)	43	4530673			0.00- 30.00	332.35
12.338	12.338 (1.289)	85	376218			0.00- 30.00	27.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.312)	91	2919045	50.0000	51.307	70.00- 130.00	100.00
12.559	12.559 (1.312)	92	1755027			30.12- 90.12	60.12
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.112	13.112 (0.884)	75	1503785	50.0000	52.959	70.00- 130.00	100.00
13.140	13.140 (0.886)	77	483090			2.12- 62.12	32.12
13.112	13.112 (0.884)	39	1470282			67.82- 127.82	97.77
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	1018451	50.0000	51.123	70.00- 130.00	100.00
13.417	13.417 (0.905)	99	624345			31.30- 91.30	61.30
13.417	13.417 (0.905)	83	865266			54.96- 114.96	84.96
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	1376289	50.0000	52.976	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	1026706			44.60- 104.60	74.60
13.472	13.472 (0.909)	131	973095			40.70- 100.70	70.70
103 2-Hexanone					CAS #: 591-78-6		
13.804	13.804 (0.931)	58	1797987	50.0000	51.678	70.00- 130.00	100.00
13.804	13.804 (0.931)	43	4431039			216.44- 276.44	246.44
13.831	13.831 (0.933)	100	225328			0.00- 30.00	12.53
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	1555146	50.0000	53.151	70.00- 130.00	100.00
13.997	13.997 (0.944)	127	1219408			0.00- 30.00	78.41
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.136	14.136 (0.953)	107	1566016	50.0000	53.830	70.00- 130.00	100.00
14.163	14.163 (0.955)	109	1488364			65.04- 125.04	95.04
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	2364936	50.0000	52.765	70.00- 130.00	100.00
14.854	14.854 (1.002)	114	770827			2.59- 62.59	32.59
14.854	14.854 (1.002)	77	1635611			39.16- 99.16	69.16
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	1352506	50.0000	52.473	70.00- 130.00	100.00
14.993	14.993 (1.011)	91	4340853			0.00- 30.00	320.95
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.159 (1.022)	106	1664297	50.0000	52.045	70.00- 130.00	100.00
15.159	15.159 (1.022)	91	3382631			0.00- 30.00	203.25
114 o-Xylene					CAS #: 95-47-6		
15.712	15.712 (1.060)	106	1591194	50.0000	51.022	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)							
15.712	15.712 (1.060)	91	3521066			191.28- 251.28	221.28
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	2522875	50.0000	53.259	70.00- 130.00	100.00
15.739	15.739 (1.062)	78	1488215			28.99- 88.99	58.99
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	1421608	50.0000	53.846	70.00- 130.00	100.00
16.016	16.016 (1.080)	171	743615			22.31- 82.31	52.31
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	2303091	50.0000	52.915	70.00- 130.00	100.00
16.679	16.679 (1.125)	85	1491802			34.77- 94.77	64.77
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	5559654	50.0000	54.791	70.00- 130.00	100.00
16.845	16.845 (1.136)	120	1586315			0.00- 58.53	28.53
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	4520706	50.0000	53.976	70.00- 130.00	100.00
16.928	16.928 (1.142)	120	2144435			0.00- 30.00	47.44
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	4726307	50.0000	52.813	70.00- 130.00	100.00
17.343	17.343 (1.170)	120	2128113			15.03- 75.03	45.03
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	2307015	50.0000	50.584	70.00- 130.00	100.00
17.647	17.647 (1.190)	148	1451153			0.00- 30.00	62.90
17.647	17.647 (1.190)	111	1073309			0.00- 30.00	46.52
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	3129475	50.0000	52.769	70.00- 130.00	100.00
17.758	17.758 (1.198)	148	1991256			0.00- 30.00	63.63
17.758	17.758 (1.198)	111	1264995			0.00- 30.00	40.42
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	4125123	50.0000	54.451	70.00- 130.00	100.00
17.896	17.896 (1.207)	126	670946			0.00- 30.00	16.26
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	2415856	50.0000	50.499	70.00- 130.00	100.00
18.117	18.117 (1.222)	148	1539928			33.74- 93.74	63.74
18.117	18.117 (1.222)	111	1180192			18.85- 78.85	48.85

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		
19.500	19.500 (1.315)	180	2828030	50.0000	48.824	70.00- 130.00	100.00
19.500	19.500 (1.315)	182	2666311			64.28- 124.28	94.28
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	1535887	50.0000	48.660	70.00- 130.00	100.00
19.582	19.582 (1.321)	223	966697			32.94- 92.94	62.94
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	6000932	50.0000	54.948	70.00- 130.00	100.00
16.707	16.707 (1.127)	120	1373187			0.00- 30.00	22.88
16.707	16.707 (1.127)	105	224344			0.00- 30.00	3.74
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	4762463	50.0000	52.918	70.00- 130.00	100.00
16.182	16.182 (1.091)	120	1225531			0.00- 30.00	25.73
16.182	16.182 (1.091)	51	919733			0.00- 30.00	19.31
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	12952545	50.0000	52.596	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	1659624			0.00- 30.00	12.81
30 Isopentane					CAS #: 78-78-4		
3.131	3.131 (0.407)	43	2689973	50.0000	48.977	70.00- 130.00	100.00
3.131	3.131 (0.407)	57	1503145			0.00- 30.00	55.88
3.159	3.159 (0.411)	72	118511			0.00- 30.00	4.41
21 Butane					CAS #: 106-97-8		
2.467	2.467 (0.321)	58	361489	50.0000	50.709	70.00- 130.00	100.00
2.467	2.467 (0.321)	43	3249961			0.00- 30.00	899.05
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.209	10.209 (1.327)	83	1698248	50.0000	53.320	70.00- 130.00	100.00
10.209	10.209 (1.327)	98	786055			0.00- 30.00	46.29
10.209	10.209 (1.327)	55	2535934			0.00- 30.00	149.33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040407.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv-> 50ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	327514	0.00
79 1,4-Difluorobenze	1413957	848374	1979540	1413957	0.00
108 Chlorobenzene-d5	1301040	780624	1821456	1301040	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	0.00

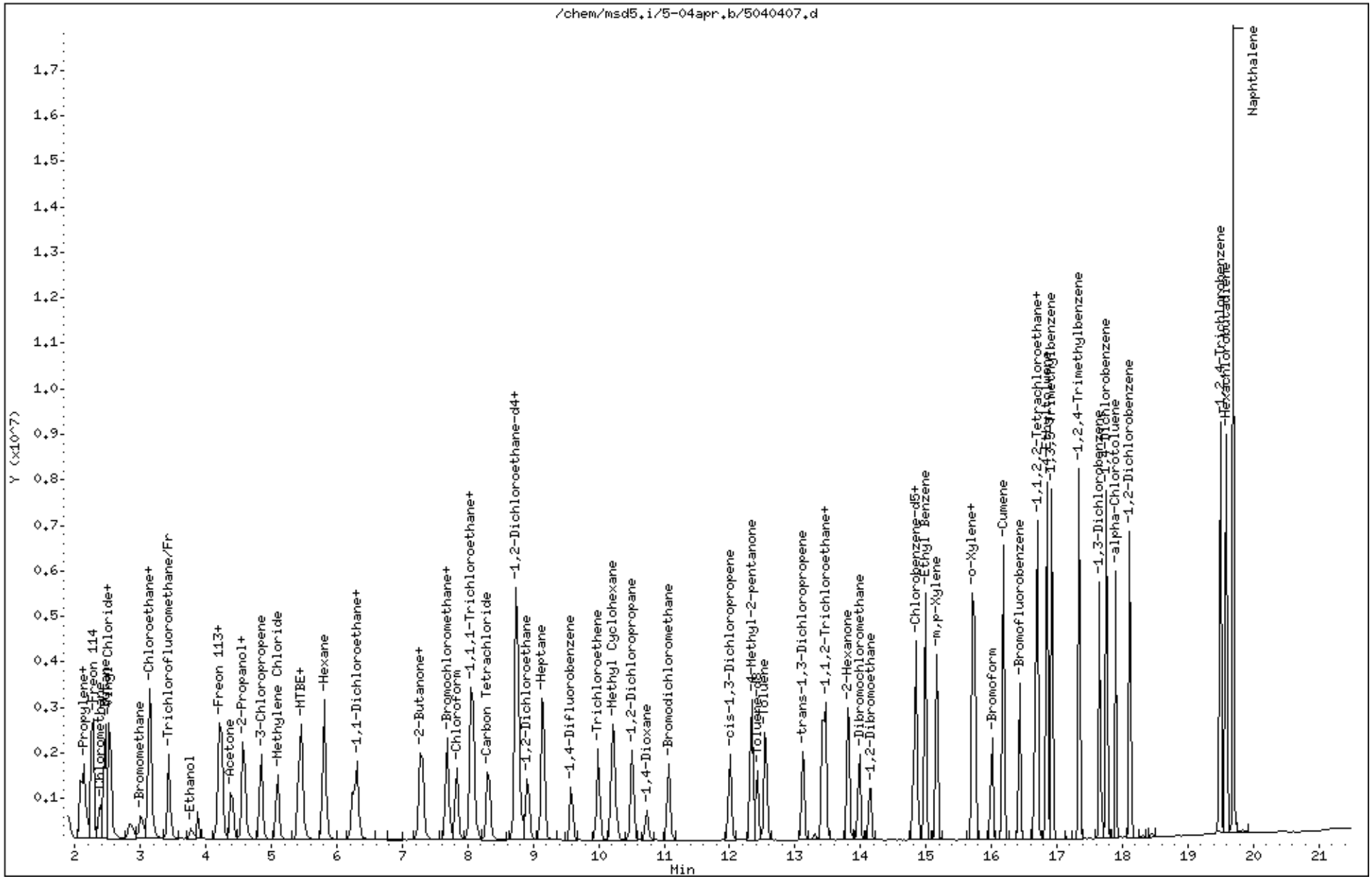
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-04apr.b/5040407.d
Date : 04-APR-2007 16:39
Client ID: Level 5
Sample Info: 50ml #1487-183

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/5-04apr.b/5040408.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 04-APR-2007 17:07
Operator : JG Inst ID: msd5.i
Smp Info : 100ml #1487-183
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 17:07 Cal File: 5040408.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		
7.693	7.693 (1.000)	130	340312	25.0000		70.00- 130.00	100.00
7.693	7.693 (1.000)	128	263060			47.30- 107.30	77.30
7.693	7.693 (1.000)	49	1061336			281.87- 341.87	311.87
* 79 1,4-Difluorobenzene					CAS #: 540-36-3		
9.573	9.573 (1.000)	114	1426004	25.0000		70.00- 130.00	100.00
9.573	9.573 (1.000)	88	259471			0.00- 48.20	18.20
* 108 Chlorobenzene-d5					CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1313971	25.0000		70.00- 130.00	100.00
14.827	14.827 (1.000)	82	836960			33.70- 93.70	63.70
$ 71 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.772	8.772 (1.140)	65	727465	25.0000	25.241	70.00- 130.00	100.00
8.772	8.772 (1.140)	67	439471			30.41- 90.41	60.41
$ 97 Toluene-d8					CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1491099	25.0000	25.182	70.00- 130.00	100.00
12.421	12.421 (1.297)	70	187837			0.00- 42.60	12.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1082623			42.61- 102.61	72.61
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	953931	25.0000	25.915	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1390579			115.77- 175.77	145.77
16.430	16.430 (1.108)	176	924796			66.95- 126.95	96.95
1 Propylene					CAS #: 115-07-1		
2.080	2.080 (0.270)	41	3017599	100.000	96.154	70.00- 130.00	100.00
2.080	2.080 (0.270)	42	1912045			33.36- 93.36	63.36
2.080	2.080 (0.270)	39	2110178			39.93- 99.93	69.93
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.278)	85	5063846	100.000	99.189	70.00- 130.00	100.00
2.136	2.136 (0.278)	87	1613777			1.87- 61.87	31.87
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	3334468	100.000	103.74	70.00- 130.00	100.00
2.274	2.274 (0.296)	137	1051054			1.52- 61.52	31.52
4 Chloromethane					CAS #: 74-87-3		
2.385	2.385 (0.310)	50	3389473	100.000	94.545	70.00- 130.00	100.00
2.385	2.385 (0.310)	52	1027038			0.30- 60.30	30.30
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.523 (0.328)	62	2663040	100.000	95.832	70.00- 130.00	100.00
2.523	2.523 (0.328)	64	800641			0.06- 60.06	30.06
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.332)	54	2794699	100.000	94.687	70.00- 130.00	100.00
2.550	2.550 (0.332)	39	3578315			98.04- 158.04	128.04
7 Bromomethane					CAS #: 74-83-9		
2.993	2.993 (0.389)	94	1691255	100.000	107.34	70.00- 130.00	100.00
2.993	2.993 (0.389)	96	1587465			63.86- 123.86	93.86
8 Chloroethane					CAS #: 75-00-3		
3.159	3.159 (0.411)	64	1424402	100.000	104.07	70.00- 130.00	100.00
3.159	3.159 (0.411)	49	535747			7.61- 67.61	37.61
3.159	3.159 (0.411)	66	407627			0.00- 58.62	28.62
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.447)	101	5097241	100.000	100.44	70.00- 130.00	100.00
3.435	3.435 (0.447)	103	3268804			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		
3.795	3.795 (0.493)	45	1253620	100.000	94.850	70.00- 130.00	100.00
3.795	3.795 (0.493)	43	268247			0.00- 51.40	21.40
3.795	3.795 (0.493)	46	526130			11.97- 71.97	41.97
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	2560422	100.000	99.803	70.00- 130.00	100.00
4.209	4.209 (0.547)	153	1611321			32.93- 92.93	62.93
4.209	4.209 (0.547)	101	3301157			98.93- 158.93	128.93
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	4054005	100.000	97.513	70.00- 130.00	100.00
4.237	4.237 (0.551)	96	1666306			11.10- 71.10	41.10
4.237	4.237 (0.551)	98	1067190			0.00- 56.32	26.32
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.572)	58	1371652	100.000	97.562	70.00- 130.00	100.00
4.403	4.403 (0.572)	43	5526226			372.89- 432.89	402.89
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	6450172	100.000	100.16	70.00- 130.00	100.00
4.596	4.596 (0.597)	43	1254772			0.00- 49.45	19.45
4.596	4.596 (0.597)	59	192316			0.00- 32.98	2.98
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	5349660	100.000	95.115	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	848118	100.000	94.707	70.00- 130.00	100.00
4.845	4.845 (0.630)	41	5158252			578.20- 638.20	608.20
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	3789466	100.000	95.002	70.00- 130.00	100.00
5.122	5.122 (0.666)	84	1463048			8.61- 68.61	38.61
5.094	5.094 (0.662)	51	1120795			0.00- 59.58	29.58
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	5650167	100.000	103.46	70.00- 130.00	100.00
5.426	5.426 (0.705)	57	1959107			4.67- 64.67	34.67
5.426	5.426 (0.705)	41	2296504			10.64- 70.64	40.64
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.712)	96	1823645	100.000	96.085	70.00- 130.00	100.00
5.481	5.481 (0.712)	61	3926118			185.29- 245.29	215.29
5.481	5.481 (0.712)	98	1179648			34.69- 94.69	64.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	5072905	100.000	100.00	70.00- 130.00	100.00
5.813	5.813 (0.756)	43	4121646			51.25- 111.25	81.25
5.813	5.813 (0.756)	86	531017			0.00- 40.47	10.47
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.228	6.228 (0.810)	63	4279634	100.000	104.94	70.00- 130.00	100.00
6.228	6.228 (0.810)	65	1236495			0.00- 58.89	28.89
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.950)	72	932492	100.000	95.850	70.00- 130.00	100.00
7.306	7.306 (0.950)	43	7871671			814.15- 874.15	844.15
7.306	7.306 (0.950)	57	486986			22.22- 82.22	52.22
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.946)	61	3502056	100.000	98.581	70.00- 130.00	100.00
7.278	7.278 (0.946)	96	1770210			20.55- 80.55	50.55
7.278	7.278 (0.946)	98	1103001			1.50- 61.50	31.50
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	4511711	100.000	87.717	70.00- 130.00	100.00
7.693	7.693 (1.000)	71	826741			0.00- 48.32	18.32
7.693	7.693 (1.000)	72	853965			0.00- 48.93	18.93
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	3512484	100.000	101.68	70.00- 130.00	100.00
7.831	7.831 (1.018)	85	2250571			34.07- 94.07	64.07
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	3802343	100.000	92.433	70.00- 130.00	100.00
8.080	8.080 (1.050)	99	2424031			33.75- 93.75	63.75
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	2501033	100.000	98.065	70.00- 130.00	100.00
8.053	8.053 (1.047)	56	5407869			186.23- 246.23	216.23
8.053	8.053 (1.047)	41	3516416			110.60- 170.60	140.60
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	487937	100.000	105.06	70.00- 130.00	100.00
6.311	6.311 (0.820)	43	10247723			2070.21-2130.21	2100.21
6.311	6.311 (0.820)	42	782059			130.28- 190.28	160.28
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.301	8.301 (1.079)	119	3499940	100.000	100.15	70.00- 130.00	100.00
8.301	8.301 (1.079)	117	3621230			73.47- 133.47	103.47

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		
8.744	8.744 (1.137)	57	15427774	100.000	99.099	70.00- 130.00	100.00
8.744	8.744 (1.137)	56	5175493			3.55- 63.55	33.55
8.744	8.744 (1.137)	41	4904236			1.79- 61.79	31.79
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	5531870	100.000	96.671	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	1307541			0.00- 53.64	23.64
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.910 (0.931)	62	3384483	100.000	96.831	70.00- 130.00	100.00
8.910	8.910 (0.931)	64	1042498			0.80- 60.80	30.80
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	598258	100.000	90.232	70.00- 130.00	100.00
9.131	9.131 (0.954)	43	7323816			1194.19-1254.19	1224.19
9.159	9.159 (0.957)	71	1968247			299.00- 359.00	329.00
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	2180461	100.000	99.174	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	2059207			64.44- 124.44	94.44
9.988	9.988 (1.043)	97	1431972			35.67- 95.67	65.67
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	2551096	100.000	101.04	70.00- 130.00	100.00
10.513	10.513 (1.098)	62	1861346			42.96- 102.96	72.96
10.513	10.513 (1.098)	41	2249178			58.17- 118.17	88.17
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	1170319	100.000	99.031	70.00- 130.00	100.00
10.735	10.735 (1.121)	58	1383707			88.23- 148.23	118.23
10.735	10.735 (1.121)	57	440661			7.65- 67.65	37.65
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	3548040	100.000	104.64	70.00- 130.00	100.00
11.066	11.066 (1.156)	85	2302783			34.90- 94.90	64.90
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.007	12.007 (1.254)	75	2861419	100.000	102.56	70.00- 130.00	100.00
12.007	12.007 (1.254)	77	910697			1.83- 61.83	31.83
12.007	12.007 (1.254)	39	2956959			73.34- 133.34	103.34
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	2700049	100.000	103.78	70.00- 130.00	100.00
12.338	12.338 (1.289)	43	8899842			299.62- 359.62	329.62
12.338	12.338 (1.289)	85	727363			0.00- 56.94	26.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.532	12.532 (1.309)	91	5746970	100.000	100.16	70.00- 130.00	100.00
12.532	12.532 (1.309)	92	3457148			30.16- 90.16	60.16
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.112	13.112 (0.884)	75	3039732	100.000	106.00	70.00- 130.00	100.00
13.112	13.112 (0.884)	77	980659			2.26- 62.26	32.26
13.112	13.112 (0.884)	39	2956684			67.27- 127.27	97.27
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	1983017	100.000	98.562	70.00- 130.00	100.00
13.417	13.417 (0.905)	99	1246283			32.85- 92.85	62.85
13.417	13.417 (0.905)	83	1727396			57.11- 117.11	87.11
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	2673563	100.000	101.90	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	2030181			45.94- 105.94	75.94
13.472	13.472 (0.909)	131	1930834			42.22- 102.22	72.22
103 2-Hexanone					CAS #: 591-78-6		
13.804	13.804 (0.931)	58	3646279	100.000	103.77	70.00- 130.00	100.00
13.804	13.804 (0.931)	43	8717363			209.08- 269.08	239.08
13.831	13.831 (0.933)	100	454497			0.00- 42.46	12.46
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	3137356	100.000	106.17	70.00- 130.00	100.00
13.997	13.997 (0.944)	127	2390886			46.21- 106.21	76.21
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.136	14.136 (0.953)	107	3148035	100.000	107.14	70.00- 130.00	100.00
14.136	14.136 (0.953)	109	2953529			63.82- 123.82	93.82
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	4654130	100.000	102.82	70.00- 130.00	100.00
14.854	14.854 (1.002)	114	1486835			1.95- 61.95	31.95
14.854	14.854 (1.002)	77	3246915			39.76- 99.76	69.76
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	2654477	100.000	101.97	70.00- 130.00	100.00
14.993	14.993 (1.011)	91	8541016			291.76- 351.76	321.76
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.159 (1.022)	106	3219888	100.000	99.700	70.00- 130.00	100.00
15.159	15.159 (1.022)	91	6776484			180.46- 240.46	210.46
114 o-Xylene					CAS #: 95-47-6		
15.712	15.712 (1.060)	106	3175267	100.000	100.81	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)							
15.712	15.712 (1.060)	91	7009271			190.75- 250.75	220.75
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	5002429	100.000	104.56	70.00- 130.00	100.00
15.739	15.739 (1.062)	78	2977440			29.52- 89.52	59.52
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	2956090	100.000	110.86	70.00- 130.00	100.00
16.016	16.016 (1.080)	171	1527814			21.68- 81.68	51.68
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	4522400	100.000	102.88	70.00- 130.00	100.00
16.679	16.679 (1.125)	85	2902830			34.19- 94.19	64.19
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	10987750	100.000	107.22	70.00- 130.00	100.00
16.845	16.845 (1.136)	120	3139013			0.00- 58.57	28.57
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	8975226	100.000	106.11	70.00- 130.00	100.00
16.928	16.928 (1.142)	120	4221216			17.03- 77.03	47.03
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	9496766	100.000	105.07	70.00- 130.00	100.00
17.343	17.343 (1.170)	120	4133949			13.53- 73.53	43.53
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	4669318	100.000	101.37	70.00- 130.00	100.00
17.647	17.647 (1.190)	148	2944326			33.06- 93.06	63.06
17.647	17.647 (1.190)	111	2151855			16.08- 76.08	46.08
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	6094304	100.000	101.75	70.00- 130.00	100.00
17.758	17.758 (1.198)	148	3851677			33.20- 93.20	63.20
17.758	17.758 (1.198)	111	2434200			9.94- 69.94	39.94
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	8474792	100.000	110.77	70.00- 130.00	100.00
17.896	17.896 (1.207)	126	1395734			0.00- 46.47	16.47
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	4862985	100.000	100.65	70.00- 130.00	100.00
18.117	18.117 (1.222)	148	3072705			33.19- 93.19	63.19
18.117	18.117 (1.222)	111	2380460			18.95- 78.95	48.95

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		
19.500	19.500 (1.315)	180	5691512	100.000	97.294	70.00- 130.00	100.00
19.500	19.500 (1.315)	182	5446137			65.69- 125.69	95.69
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	3033501	100.000	95.162	70.00- 130.00	100.00
19.582	19.582 (1.321)	223	1893381			32.42- 92.42	62.42
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	11689104	100.000	105.98	70.00- 130.00	100.00
16.707	16.707 (1.127)	120	2651748			0.00- 52.69	22.69
16.707	16.707 (1.127)	105	425190			0.00- 33.64	3.64
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	9496158	100.000	104.48	70.00- 130.00	100.00
16.182	16.182 (1.091)	120	2415430			0.00- 55.44	25.44
16.182	16.182 (1.091)	51	1798643			0.00- 48.94	18.94
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	15126694	100.000	60.820	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	3327870			0.00- 52.00	22.00
30 Isopentane					CAS #: 78-78-4		
3.131	3.131 (0.407)	43	5408940	100.000	94.779	70.00- 130.00	100.00
3.131	3.131 (0.407)	57	2953614			24.61- 84.61	54.61
3.159	3.159 (0.411)	72	233953			0.00- 34.33	4.33
21 Butane					CAS #: 106-97-8		
2.467	2.467 (0.321)	58	706647	100.000	95.399	70.00- 130.00	100.00
2.467	2.467 (0.321)	43	6334418			866.40- 926.40	896.40
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.237	10.237 (1.331)	83	3300004	100.000	99.714	70.00- 130.00	100.00
10.237	10.237 (1.331)	98	1556721			17.17- 77.17	47.17
10.209	10.209 (1.327)	55	4927501			119.32- 179.32	149.32

Report Date: 05-Apr-2007 15:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040408.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	340312	3.91
79 1,4-Difluorobenze	1413957	848374	1979540	1426004	0.85
108 Chlorobenzene-d5	1301040	780624	1821456	1313971	0.99

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.69	0.00
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

0123

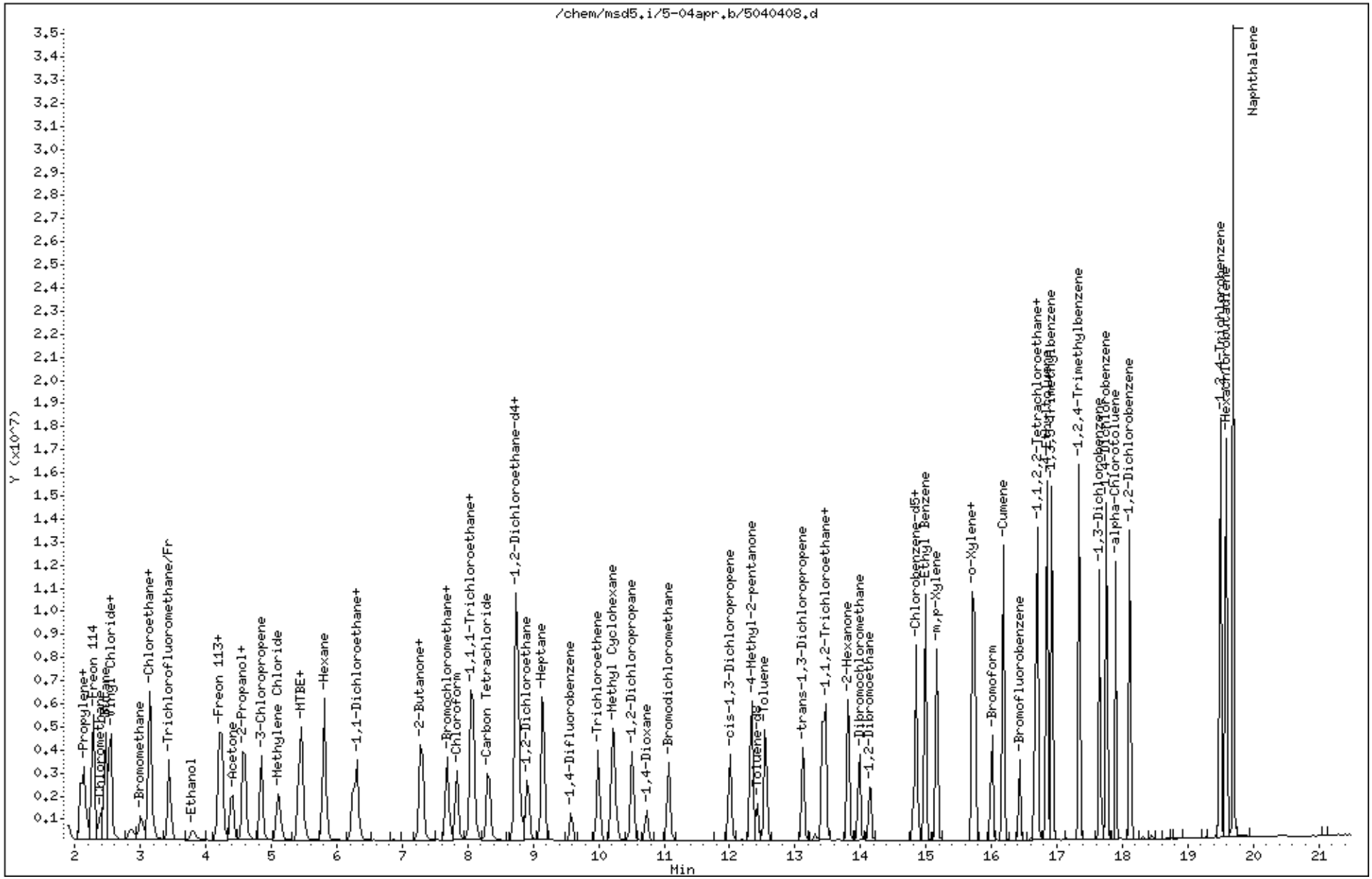
Data File: /chem/msd5.i/5-04apr.b/5040408.d
Date : 04-APR-2007 17:07
Client ID: Level 6
Sample Info: 100ml #1487-183

Instrument: msd5.i

Operator: JG

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-04apr.b/5040409.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 04-APR-2007 17:35
Operator : JG Inst ID: msd5.i
Smp Info : 200ml #1487-183
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-04apr.b/t14q404a.m
Meth Date : 05-Apr-2007 15:58 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.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		
7.721	7.721 (1.000)	130	344099	25.0000		70.00- 130.00		100.00
7.721	7.721 (1.000)	128	261552			47.30- 107.30		76.01
7.693	7.693 (1.000)	49	1076827			281.87- 341.87		312.94
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.573	9.573 (1.000)	114	1439943	25.0000		70.00- 130.00		100.00
9.573	9.573 (1.000)	88	271524			0.00- 48.20		18.86
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1317023	25.0000		70.00- 130.00		100.00
14.827	14.827 (1.000)	82	848024			33.70- 93.70		64.39
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.771	8.771 (1.136)	65	762176	25.0000	26.155	70.00- 130.00		100.00
8.771	8.771 (1.136)	67	511401			30.41- 90.41		67.10
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1523324	25.0000	25.478	70.00- 130.00		100.00
12.421	12.421 (1.297)	70	177624			0.00- 42.60		11.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	996326			42.61- 102.61	65.40
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	933021	25.0000	25.288	70.00- 130.00	100.00
16.430	16.430 (1.108)	95	1378959			115.77- 175.77	147.80
16.430	16.430 (1.108)	176	905296			66.95- 126.95	97.03
1 Propylene					CAS #: 115-07-1		
2.080	2.080 (0.269)	41	5708451	200.000	179.89	70.00- 130.00	100.00
2.080	2.080 (0.269)	42	3655813			33.36- 93.36	64.04
2.080	2.080 (0.269)	39	4097529			39.93- 99.93	71.78
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.136 (0.277)	85	9664585	200.000	187.22	70.00- 130.00	100.00
2.136	2.136 (0.277)	87	3166598			1.87- 61.87	32.76
3 Freon 114					CAS #: 76-14-2		
2.302	2.302 (0.298)	135	6448422	200.000	198.42	70.00- 130.00	100.00
2.302	2.302 (0.298)	137	2019195			1.52- 61.52	31.31
4 Chloromethane					CAS #: 74-87-3		
2.412	2.412 (0.312)	50	6518623	200.000	179.83	70.00- 130.00	100.00
2.412	2.412 (0.312)	52	1858045			0.30- 60.30	28.50
5 Vinyl Chloride					CAS #: 75-01-4		
2.523	2.523 (0.327)	62	5180979	200.000	184.39	70.00- 130.00	100.00
2.550	2.550 (0.330)	64	1531871			0.06- 60.06	29.57
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.330)	54	5435896	200.000	182.15	70.00- 130.00	100.00
2.550	2.550 (0.330)	39	8427246			98.04- 158.04	155.03
7 Bromomethane					CAS #: 74-83-9		
2.993	2.993 (0.388)	94	3178420	200.000	199.51	70.00- 130.00	100.00
2.993	2.993 (0.388)	96	2969320			63.86- 123.86	93.42
8 Chloroethane					CAS #: 75-00-3		
3.159	3.159 (0.409)	64	2895535	200.000	209.23	70.00- 130.00	100.00(A)
3.159	3.159 (0.409)	49	1064210			7.61- 67.61	36.75
3.159	3.159 (0.409)	66	841511			0.00- 58.62	29.06
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.445)	101	10002359	200.000	194.93	70.00- 130.00	100.00
3.435	3.435 (0.445)	103	6396124			34.13- 94.13	63.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.795	3.795 (0.491)	45	2553874	200.000	191.10	70.00- 130.00	100.00
3.795	3.795 (0.491)	43	510495			0.00- 51.40	19.99
3.795	3.795 (0.491)	46	1045758			11.97- 71.97	40.95
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.545)	151	4924801	200.000	189.85	70.00- 130.00	100.00
4.209	4.209 (0.545)	153	3127693			32.93- 92.93	63.51
4.209	4.209 (0.545)	101	6481452			98.93- 158.93	131.61
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.265	4.265 (0.552)	61	7908909	200.000	188.14	70.00- 130.00	100.00
4.265	4.265 (0.552)	96	3223805			11.10- 71.10	40.76
4.265	4.265 (0.552)	98	2064229			0.00- 56.32	26.10
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.570)	58	2740095	200.000	192.75	70.00- 130.00	100.00
4.403	4.403 (0.570)	43	10884566			372.89- 432.89	397.23
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.595)	45	12767587	200.000	196.08	70.00- 130.00	100.00
4.596	4.596 (0.595)	43	2476173			0.00- 49.45	19.39
4.596	4.596 (0.595)	59	382777			0.00- 32.98	3.00
25 Carbon Disulfide					CAS #: 75-15-0		
4.596	4.596 (0.595)	76	10676390	200.000	187.73	70.00- 130.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.628)	76	1615470	200.000	178.41	70.00- 130.00	100.00
4.845	4.845 (0.628)	41	9531548			578.20- 638.20	590.02
29 Methylene Chloride					CAS #: 75-09-2		
5.149	5.149 (0.667)	49	7412429	200.000	183.78	70.00- 130.00	100.00
5.149	5.149 (0.667)	84	2856430			8.61- 68.61	38.54
5.149	5.149 (0.667)	51	2188590			0.00- 59.58	29.53
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.703)	73	10612754	200.000	192.18	70.00- 130.00	100.00
5.426	5.426 (0.703)	57	3762633			4.67- 64.67	35.45
5.426	5.426 (0.703)	41	4286763			10.64- 70.64	40.39
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.710)	96	3543023	200.000	184.62	70.00- 130.00	100.00
5.481	5.481 (0.710)	61	7686910			185.29- 245.29	216.96
5.481	5.481 (0.710)	98	2239687			34.69- 94.69	63.21

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.753)	57	9691024	200.000	188.94	70.00- 130.00	100.00
5.813	5.813 (0.753)	43	7915356			51.25- 111.25	81.68
5.813	5.813 (0.753)	86	1010500			0.00- 40.47	10.43
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.255	6.255 (0.810)	63	8266619	200.000	200.48	70.00- 130.00	100.00(A)
6.255	6.255 (0.810)	65	2367985			0.00- 58.89	28.65
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.946)	72	1797785	200.000	182.76	70.00- 130.00	100.00
7.306	7.306 (0.946)	43	15166364			814.15- 874.15	843.61
7.306	7.306 (0.946)	57	939453			22.22- 82.22	52.26
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.943)	61	6750447	200.000	187.93	70.00- 130.00	100.00
7.278	7.278 (0.943)	96	3331322			20.55- 80.55	49.35
7.278	7.278 (0.943)	98	2136636			1.50- 61.50	31.65
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (0.996)	42	8694689	200.000	167.18	70.00- 130.00	100.00
7.693	7.693 (0.996)	71	1580479			0.00- 48.32	18.18
7.693	7.693 (0.996)	72	1701871			0.00- 48.93	19.57
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.014)	83	6833633	200.000	195.65	70.00- 130.00	100.00
7.831	7.831 (1.014)	85	4344844			34.07- 94.07	63.58
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.047)	97	7466829	200.000	179.52	70.00- 130.00	100.00
8.080	8.080 (1.047)	99	4720095			33.75- 93.75	63.21
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.043)	84	4851426	200.000	188.13	70.00- 130.00	100.00
8.053	8.053 (1.043)	56	10411092			186.23- 246.23	214.60
8.053	8.053 (1.043)	41	6784847			110.60- 170.60	139.85
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.817)	86	926553	200.000	197.31	70.00- 130.00	100.00
6.311	6.311 (0.817)	43	19918468			2070.21-2130.21	2149.74
6.311	6.311 (0.817)	42	1546372			130.28- 190.28	166.90
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.329	8.329 (1.079)	119	6840582	200.000	193.58	70.00- 130.00	100.00
8.329	8.329 (1.079)	117	7117878			73.47- 133.47	104.05

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		
8.744	8.744 (1.133)	57	30168478	200.000	191.65	70.00- 130.00	100.00
8.744	8.744 (1.133)	56	10123727			3.55- 63.55	33.56
8.744	8.744 (1.133)	41	9470733			1.79- 61.79	31.39
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	10623094	200.000	183.84	70.00- 130.00	100.00
8.744	8.744 (0.913)	77	2470959			0.00- 53.64	23.26
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.910 (0.931)	62	6584195	200.000	186.55	70.00- 130.00	100.00
8.910	8.910 (0.931)	64	2035341			0.80- 60.80	30.91
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	1143137	200.000	170.74	70.00- 130.00	100.00
9.131	9.131 (0.954)	43	14104028			1194.19-1254.19	1233.80
9.159	9.159 (0.957)	71	3820643			299.00- 359.00	334.22
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	4233151	200.000	190.67	70.00- 130.00	100.00
9.988	9.988 (1.043)	130	3942111			64.44- 124.44	93.12
9.988	9.988 (1.043)	97	2711435			35.67- 95.67	64.05
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	4841714	200.000	189.90	70.00- 130.00	100.00
10.513	10.513 (1.098)	62	3580852			42.96- 102.96	73.96
10.513	10.513 (1.098)	41	4232385			58.17- 118.17	87.42
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	2274846	200.000	190.63	70.00- 130.00	100.00
10.735	10.735 (1.121)	58	2679595			88.23- 148.23	117.79
10.735	10.735 (1.121)	57	863693			7.65- 67.65	37.97
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	7010134	200.000	204.74	70.00- 130.00	100.00(A)
11.066	11.066 (1.156)	85	4446936			34.90- 94.90	63.44
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.006	12.006 (1.254)	75	5535027	200.000	196.47	70.00- 130.00	100.00
12.006	12.006 (1.254)	77	1783826			1.83- 61.83	32.23
12.006	12.006 (1.254)	39	5734515			73.34- 133.34	103.60
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	5167522	200.000	196.70	70.00- 130.00	100.00
12.338	12.338 (1.289)	43	17150985			299.62- 359.62	331.90
12.338	12.338 (1.289)	85	1431891			0.00- 56.94	27.71

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.312)	91	11108428	200.000	191.73	70.00- 130.00	100.00
12.559	12.559 (1.312)	92	6596509			30.16- 90.16	59.38
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.112	13.112 (0.884)	75	5986902	200.000	208.28	70.00- 130.00	100.00(A)
13.112	13.112 (0.884)	77	1881325			2.26- 62.26	31.42
13.112	13.112 (0.884)	39	5684113			67.27- 127.27	94.94
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	3849306	200.000	190.88	70.00- 130.00	100.00
13.417	13.417 (0.905)	99	2377456			32.85- 92.85	61.76
13.417	13.417 (0.905)	83	3338272			57.11- 117.11	86.72
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	5152999	200.000	195.94	70.00- 130.00	100.00
13.472	13.472 (0.909)	129	3892865			45.94- 105.94	75.55
13.472	13.472 (0.909)	131	3718884			42.22- 102.22	72.17
103 2-Hexanone					CAS #: 591-78-6		
13.804	13.804 (0.931)	58	7078563	200.000	200.98	70.00- 130.00	100.00(A)
13.804	13.804 (0.931)	43	16998245			209.08- 269.08	240.14
13.831	13.831 (0.933)	100	899003			0.00- 42.46	12.70
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	6235529	200.000	210.53	70.00- 130.00	100.00(A)
13.997	13.997 (0.944)	127	4777825			46.21- 106.21	76.62
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.163	14.163 (0.955)	107	6027138	200.000	204.66	70.00- 130.00	100.00(A)
14.163	14.163 (0.955)	109	5712676			63.82- 123.82	94.78
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	8945696	200.000	197.17	70.00- 130.00	100.00
14.854	14.854 (1.002)	114	2856204			1.95- 61.95	31.93
14.854	14.854 (1.002)	77	6183420			39.76- 99.76	69.12
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	5073238	200.000	194.44	70.00- 130.00	100.00
14.993	14.993 (1.011)	91	16358669			291.76- 351.76	322.45
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.159 (1.022)	106	6166033	200.000	190.48	70.00- 130.00	100.00
15.159	15.159 (1.022)	91	13035020			180.46- 240.46	211.40
114 o-Xylene					CAS #: 95-47-6		
15.712	15.712 (1.060)	106	6007362	200.000	190.29	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)							
15.712	15.712 (1.060)	91	13283088			190.75- 250.75	221.11
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	9737097	200.000	203.06	70.00- 130.00	100.00(A)
15.739	15.739 (1.062)	78	5766104			29.52- 89.52	59.22
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	5925770	200.000	221.72	70.00- 130.00	100.00(A)
16.016	16.016 (1.080)	171	3089542			21.68- 81.68	52.14
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	8940890	200.000	202.93	70.00- 130.00	100.00(A)
16.679	16.679 (1.125)	85	5648238			34.19- 94.19	63.17
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	16547962	200.000	161.10	70.00- 130.00	100.00
16.845	16.845 (1.136)	120	5990549			0.00- 58.57	36.20
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	15355805	200.000	181.12	70.00- 130.00	100.00
16.928	16.928 (1.142)	120	8185743			17.03- 77.03	53.31
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	14967496	200.000	165.22	70.00- 130.00	100.00
17.343	17.343 (1.170)	120	8032206			13.53- 73.53	53.66
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	9020644	200.000	195.39	70.00- 130.00	100.00
17.647	17.647 (1.190)	148	5667460			33.06- 93.06	62.83
17.647	17.647 (1.190)	111	4154064			16.08- 76.08	46.05
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	11893774	200.000	198.12	70.00- 130.00	100.00
17.758	17.758 (1.198)	148	7483554			33.20- 93.20	62.92
17.758	17.758 (1.198)	111	4865254			9.94- 69.94	40.91
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	15382712	200.000	200.59	70.00- 130.00	100.00(A)
17.896	17.896 (1.207)	126	2795564			0.00- 46.47	18.17
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	9368841	200.000	193.46	70.00- 130.00	100.00
18.117	18.117 (1.222)	148	5942393			33.19- 93.19	63.43
18.117	18.117 (1.222)	111	4559394			18.95- 78.95	48.67

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		
19.499	19.499 (1.315)	180	10986475	200.000	187.37	70.00- 130.00	100.00
19.499	19.499 (1.315)	182	10282490			65.69- 125.69	93.59
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	5898143	200.000	184.60	70.00- 130.00	100.00
19.582	19.582 (1.321)	223	3731359			32.42- 92.42	63.26
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	16719199	200.000	151.23	70.00- 130.00	100.00
16.707	16.707 (1.127)	120	5177606			0.00- 52.69	30.97
16.707	16.707 (1.127)	105	857855			0.00- 33.64	5.13
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	17408242	200.000	191.08	70.00- 130.00	100.00
16.182	16.182 (1.091)	120	4671151			0.00- 55.44	26.83
16.182	16.182 (1.091)	51	3491687			0.00- 48.94	20.06
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	16427819	200.000	65.898	70.00- 130.00	100.00
19.693	19.693 (1.328)	127	6408355			0.00- 52.00	39.01
30 Isopentane					CAS #: 78-78-4		
3.131	3.131 (0.406)	43	10540446	200.000	182.66	70.00- 130.00	100.00
3.131	3.131 (0.406)	57	5884742			24.61- 84.61	55.83
3.131	3.131 (0.406)	72	457235			0.00- 34.33	4.34
21 Butane					CAS #: 106-97-8		
2.495	2.495 (0.323)	58	1379485	200.000	184.18	70.00- 130.00	100.00
2.495	2.495 (0.323)	43	12496845			866.40- 926.40	905.91
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.237	10.237 (1.326)	83	6380246	200.000	190.66	70.00- 130.00	100.00
10.237	10.237 (1.326)	98	3030672			17.17- 77.17	47.50
10.209	10.209 (1.322)	55	9499390			119.32- 179.32	148.89

QC Flag Legend

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

Report Date: 05-Apr-2007 15:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040409.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-04apr.b/t14q404a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 04-APR-2007
Calibration Time: 16:39
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	327514	196508	458520	344099	5.06
79 1,4-Difluorobenze	1413957	848374	1979540	1439943	1.84
108 Chlorobenzene-d5	1301040	780624	1821456	1317023	1.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.72	0.36
79 1,4-Difluorobenze	9.57	9.24	9.90	9.57	0.00
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

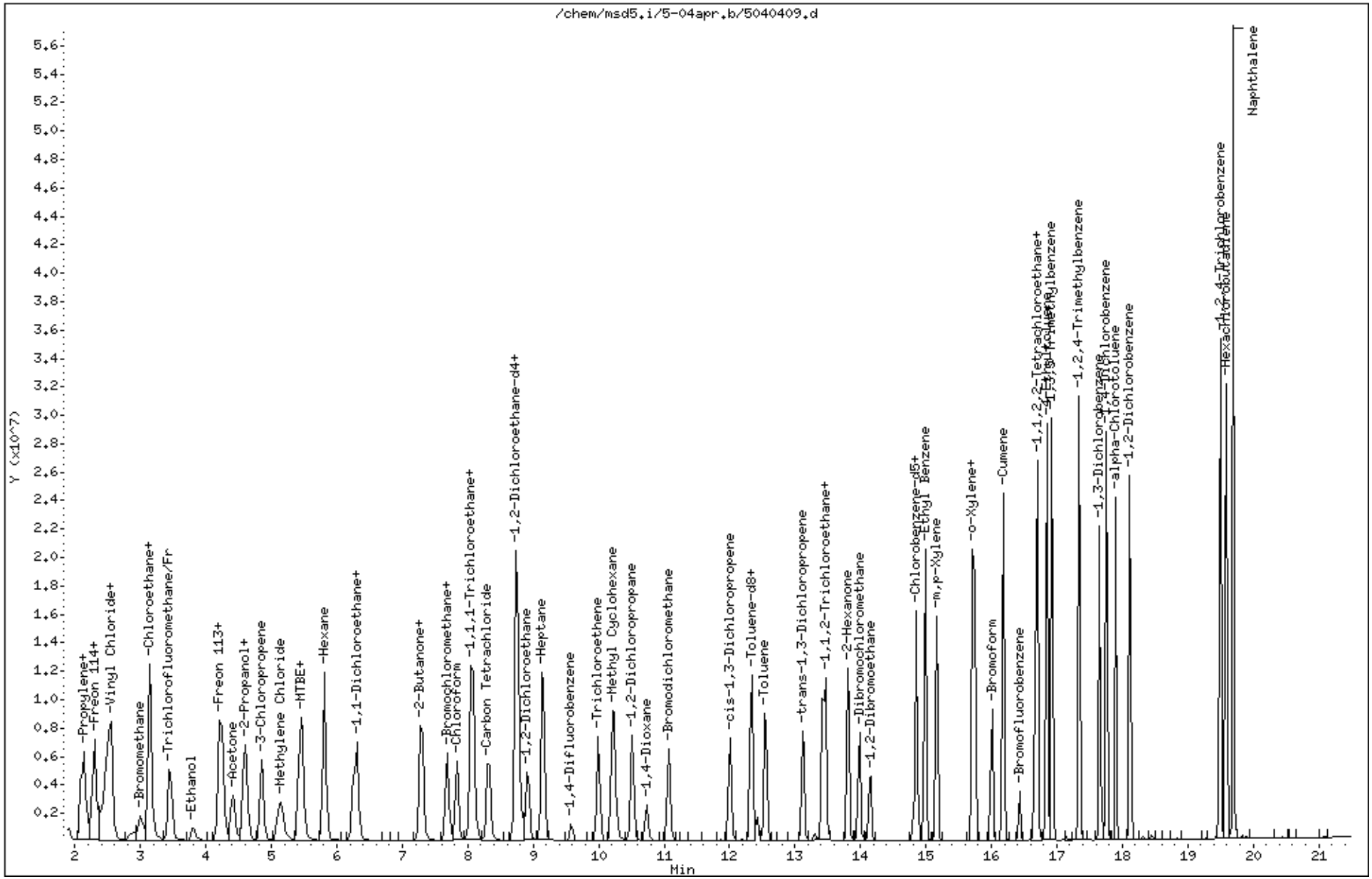
0133

Data File: /chem/msd5.i/5-04apr.b/5040409.d
Date : 04-APR-2007 17:35
Client ID: Level 7
Sample Info: 200ml #1487-183

Instrument: msd5.i

Operator: JG

Column phase: RTx-624
Column diameter: 0.53



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0704011-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 09:48 AM**	

Compound	%Recovery
Freon 12	109
Freon 114	116
Vinyl Chloride	109
Bromomethane	113
Chloroethane	112
Freon 11	113
1,1-Dichloroethene	108
Freon 113	112
Methylene Chloride	104
1,1-Dichloroethane	119
cis-1,2-Dichloroethene	110
Chloroform	116
1,1,1-Trichloroethane	103
Carbon Tetrachloride	110
Benzene	112
1,2-Dichloroethane	109
Trichloroethene	112
1,2-Dichloropropane	112
cis-1,3-Dichloropropene	115
Toluene	112
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	111
Tetrachloroethene	112
1,2-Dibromoethane (EDB)	117
Chlorobenzene	113
Ethyl Benzene	111
m,p-Xylene	110
o-Xylene	110
Styrene	111
1,1,2,2-Tetrachloroethane	116
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	107
1,3-Butadiene	104
Hexane	114
Cyclohexane	111

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0704011-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 09:48 AM**	

Compound	%Recovery
Heptane	104
Bromodichloromethane	120
Dibromochloromethane	116
Cumene	113
Propylbenzene	119
Chloromethane	101
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	104
Acetone	110
Carbon Disulfide	111
2-Propanol	108
trans-1,2-Dichloroethene	112
2-Butanone (Methyl Ethyl Ketone)	107
Tetrahydrofuran	94
1,4-Dioxane	114
4-Methyl-2-pentanone	111
2-Hexanone	108
Bromoform	121
4-Ethyltoluene	113
Ethanol	102
Methyl tert-butyl ether	117
3-Chloropropene	109
2,2,4-Trimethylpentane	108
Naphthalene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 06-APR-2007 09:48
Lab File ID: 5040602.d Init. Cal. Date(s): 04-APR-2007 04-APR-2007
Analysis Type: AIR Init. Cal. Times: 14:47 17:35
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-06apr.b/t14q404a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 71 1,2-Dichloroethane-d4	2.11719	2.06596	0.010	2.41983	30.00000	Averaged
$ 97 Toluene-d8	1.03808	1.03593	0.010	0.20703	30.00000	Averaged
$ 122 Bromofluorobenzene	0.70035	0.67197	0.010	4.05156	30.00000	Averaged
1 Propylene	2.30547	2.39976	0.010	-4.08994	30.00000	Averaged
2 Dichlorodifluoromethane/Fr1	3.75043	4.07407	0.010	-8.62942	30.00000	Averaged
3 Freon 114	2.36118	2.73872	0.010	-15.98981	30.00000	Averaged
4 Chloromethane	2.63365	2.66777	0.010	-1.29564	30.00000	Averaged
5 Vinyl Chloride	2.04142	2.23453	0.010	-9.46001	30.00000	Averaged
6 1,3-Butadiene	2.16823	2.24777	0.010	-3.66830	30.00000	Averaged
7 Bromomethane	1.15744	1.31010	0.010	-13.18968	30.00000	Averaged
8 Chloroethane	1.00546	1.12747	0.010	-12.13557	30.00000	Averaged
9 Trichlorofluoromethane/Fr11	3.72810	4.21747	0.010	-13.12637	30.00000	Averaged
13 Ethanol	0.97093	0.99229	0.010	-2.19971	30.00000	Averaged
19 Freon 113	1.88464	2.10402	0.010	-11.63995	30.00000	Averaged
20 1,1-Dichloroethene	3.05412	3.31330	0.010	-8.48639	30.00000	Averaged
22 Acetone	1.03282	1.13639	0.010	-10.02730	30.00000	Averaged
26 2-Propanol	4.73078	5.12878	0.010	-8.41310	30.00000	Averaged
25 Carbon Disulfide	4.13179	4.58451	0.010	-10.95697	30.00000	Averaged
28 3-Chloropropene	0.65787	0.71473	0.010	-8.64431	30.00000	Averaged
29 Methylene Chloride	2.93027	3.06115	0.010	-4.46666	30.00000	Averaged
31 MTBE	4.01209	4.68442	0.010	-16.75783	30.00000	Averaged
32 trans-1,2-Dichloroethene	1.39427	1.56139	0.010	-11.98599	30.00000	Averaged
38 Hexane	3.72648	4.23651	0.010	-13.68671	30.00000	Averaged
43 1,1-Dichloroethane	2.99578	3.56789	0.010	-19.09708	30.00000	Averaged
53 2-Butanone	0.71469	0.76255	0.010	-6.69722	30.00000	Averaged
52 cis-1,2-Dichloroethene	2.60970	2.85880	0.010	-9.54515	30.00000	Averaged
56 Tetrahydrofuran	3.77851	3.56114	0.010	5.75278	30.00000	Averaged
58 Chloroform	2.53764	2.95252	0.010	-16.34911	30.00000	Averaged
62 1,1,1-Trichloroethane	3.02193	3.12376	0.010	-3.36973	30.00000	Averaged
61 Cyclohexane	1.87357	2.08318	0.010	-11.18759	30.00000	Averaged
63 Vinyl Acetate	0.34118	0.39946	0.010	-17.08291	30.00000	Averaged
65 Carbon Tetrachloride	2.56736	2.82482	0.010	-10.02849	30.00000	Averaged
68 2,2,4-Trimethylpentane	11.43664	12.30357	0.010	-7.58033	30.00000	Averaged
69 Benzene	1.00322	1.12048	0.010	-11.68899	30.00000	Averaged
72 1,2-Dichloroethane	0.61277	0.66923	0.010	-9.21451	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 06-APR-2007 09:48
Lab File ID: 5040602.d Init. Cal. Date(s): 04-APR-2007 04-APR-2007
Analysis Type: AIR Init. Cal. Times: 14:47 17:35
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-06apr.b/t14q404a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
75 Heptane	0.11624	0.12145	0.010	-4.48210	30.00000	Averaged
80 Trichloroethene	0.38545	0.43402	0.010	-12.59870	30.00000	Averaged
82 1,2-Dichloropropane	0.44265	0.49512	0.010	-11.85393	30.00000	Averaged
84 1,4-Dioxane	0.20718	0.23742	0.010	-14.59610	30.00000	Averaged
85 Bromodichloromethane	0.59446	0.71100	0.010	-19.60436	30.00000	Averaged
90 cis-1,3-Dichloropropene	0.48912	0.56378	0.010	-15.26449	30.00000	Averaged
91 4-Methyl-2-pentanone	0.45612	0.50610	0.010	-10.95827	30.00000	Averaged
99 Toluene	1.00592	1.12899	0.010	-12.23404	30.00000	Averaged
100 trans-1,3-Dichloropropene	0.54562	0.63194	0.010	-15.81961	30.00000	Averaged
101 1,1,2-Trichloroethane	0.38280	0.42399	0.010	-10.76044	30.00000	Averaged
102 Tetrachloroethene	0.49921	0.55824	0.010	-11.82524	30.00000	Averaged
103 2-Hexanone	0.66854	0.72171	0.010	-7.95229	30.00000	Averaged
105 Dibromochloromethane	0.56222	0.65088	0.010	-15.76805	30.00000	Averaged
106 1,2-Dibromoethane	0.55901	0.65267	0.010	-16.75559	30.00000	Averaged
109 Chlorobenzene	0.86123	0.97485	0.010	-13.19240	30.00000	Averaged
111 Ethyl Benzene	0.49528	0.55160	0.010	-11.37033	30.00000	Averaged
113 m,p-Xylene	0.61447	0.67553	0.010	-9.93719	30.00000	Averaged
114 o-Xylene	0.59926	0.65824	0.010	-9.84344	30.00000	Averaged
115 Styrene	0.91023	1.01474	0.010	-11.48240	30.00000	Averaged
118 Bromoform	0.50731	0.61565	0.010	-21.35560	30.00000	Averaged
123 1,1,2,2-Tetrachloroethane	0.83633	0.97087	0.010	-16.08635	30.00000	Averaged
126 4-Ethyltoluene	1.94978	2.20864	0.010	-13.27672	30.00000	Averaged
128 1,3,5-Trimethylbenzene	1.60935	1.87495	0.010	-16.50325	30.00000	Averaged
131 1,2,4-Trimethylbenzene	1.71961	1.95235	0.010	-13.53390	30.00000	Averaged
138 1,3-Dichlorobenzene	0.87637	0.94824	0.010	-8.20192	30.00000	Averaged
141 1,4-Dichlorobenzene	1.13956	1.24960	0.010	-9.65636	30.00000	Averaged
143 alpha-Chlorotoluene	1.45572	1.64665	0.010	-13.11588	30.00000	Averaged
146 1,2-Dichlorobenzene	0.91925	0.98086	0.010	-6.70197	30.00000	Averaged
154 1,2,4-Trichlorobenzene	1.11300	1.15460	0.010	-3.73762	30.00000	Averaged
155 Hexachlorobutadiene	0.60650	0.63385	0.010	-4.50835	30.00000	Averaged
124 Propylbenzene	2.09852	2.49401	0.010	-18.84596	30.00000	Averaged
119 Cumene	1.72933	1.95479	0.010	-13.03719	30.00000	Averaged
156 Naphthalene	4.73208	4.66126	0.010	1.49674	30.00000	Averaged
30 Isopentane	4.19239	4.30164	0.010	-2.60586	30.00000	Averaged
21 Butane	0.54415	0.59552	0.010	-9.44005	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 06-APR-2007 09:48
Lab File ID: 5040602.d Init. Cal. Date(s): 04-APR-2007 04-APR-2007
Analysis Type: AIR Init. Cal. Times: 14:47 17:35
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-06apr.b/t14q404a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
96 Methyl Cyclohexane	2.43121	2.68594	0.010	-10.47723	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-06apr.b/5040602.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 06-APR-2007 09:48
Operator : JG Inst ID: msd5.i
Smp Info : 100ml #1487-183A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-06apr.b/t14q404a.m
Meth Date : 13-Apr-2007 08:07 dbailey Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.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		
7.721	7.721 (1.000)	130	416168	25.0000		80.00- 120.00		100.00
7.721	7.721 (1.000)	128	322478			47.49- 107.49		77.49
7.693	7.693 (1.000)	49	1227570			264.97- 324.97		294.97
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.601	9.601 (1.000)	114	1709302	25.0000		80.00- 120.00		100.00
9.573	9.573 (1.000)	88	314028			0.00- 48.37		18.37
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1609376	25.0000		80.00- 120.00		100.00
14.827	14.827 (1.000)	82	1018994			33.70- 93.70		63.32
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.771	8.771 (1.136)	65	859786	25.0000	24.395	80.00- 120.00		100.00
8.771	8.771 (1.136)	67	461754			30.41- 90.41		53.71
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.421	12.421 (1.294)	98	1770715	25.0000	24.948	80.00- 120.00		100.00
12.421	12.421 (1.294)	70	220921			0.00- 42.60		12.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.294)	100	1294383			42.61- 102.61	73.10
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	1081459	25.0000	23.987	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1606647			118.56- 178.56	148.56
16.430	16.430 (1.108)	176	1041336			66.29- 126.29	96.29
1 Propylene					CAS #: 115-07-1		
2.108	2.108 (0.273)	41	1997406	50.0000	52.045	80.00- 120.00	100.00
2.108	2.108 (0.273)	42	1275966			33.36- 93.36	63.88
2.108	2.108 (0.273)	39	1452542			39.93- 99.93	72.72
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.163	2.163 (0.280)	85	3390994	50.0000	54.315	80.00- 120.00	100.00
2.163	2.163 (0.280)	87	1080441			1.87- 61.87	31.86
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.294)	135	2279539	50.0000	57.995	80.00- 120.00	100.00
2.274	2.274 (0.294)	137	718697			1.53- 61.53	31.53
4 Chloromethane					CAS #: 74-87-3		
2.384	2.384 (0.309)	50	2220479	50.0000	50.648	80.00- 120.00	100.00
2.384	2.384 (0.309)	52	707299			0.30- 60.30	31.85
5 Vinyl Chloride					CAS #: 75-01-4		
2.550	2.550 (0.330)	62	1859883	50.0000	54.730	80.00- 120.00	100.00
2.550	2.550 (0.330)	64	574110			0.06- 60.06	30.87
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.330)	54	1870900	50.0000	51.834	80.00- 120.00	100.00
2.550	2.550 (0.330)	39	2565675			98.04- 158.04	137.14
7 Bromomethane					CAS #: 74-83-9		
3.020	3.020 (0.391)	94	1090443	50.0000	56.595	80.00- 120.00	100.00
3.020	3.020 (0.391)	96	1035355			64.95- 124.95	94.95
8 Chloroethane					CAS #: 75-00-3		
3.159	3.159 (0.409)	64	938437	50.0000	56.068	80.00- 120.00	100.00
3.159	3.159 (0.409)	49	343088			7.61- 67.61	36.56
3.159	3.159 (0.409)	66	284089			0.00- 58.62	30.27
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.445)	101	3510351	50.0000	56.563	80.00- 120.00	100.00
3.435	3.435 (0.445)	103	2297632			35.45- 95.45	65.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.795	3.795 (0.491)	45	825918	50.0000	51.100	80.00- 120.00	100.00
3.795	3.795 (0.491)	43	166704			0.00- 51.40	20.18
3.795	3.795 (0.491)	46	341579			11.97- 71.97	41.36
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.545)	151	1751248	50.0000	55.820	80.00- 120.00	100.00
4.209	4.209 (0.545)	153	1109450			33.35- 93.35	63.35
4.209	4.209 (0.545)	101	2339620			103.60- 163.60	133.60
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.549)	61	2757782	50.0000	54.243	80.00- 120.00	100.00
4.265	4.265 (0.552)	96	1138539			11.28- 71.28	41.28
4.265	4.265 (0.552)	98	745500			0.00- 57.03	27.03
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.570)	58	945857	50.0000	55.014	80.00- 120.00	100.00
4.403	4.403 (0.570)	43	3665381			372.89- 432.89	387.52
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.595)	45	4268871	50.0000	54.206	80.00- 120.00	100.00
4.596	4.596 (0.595)	43	853377			0.00- 49.45	19.99
4.596	4.596 (0.595)	59	127120			0.00- 32.98	2.98
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.592)	76	3815849	50.0000	55.478	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.628)	76	594899	50.0000	54.322	80.00- 120.00	100.00
4.845	4.845 (0.628)	41	3490698			578.20- 638.20	586.77
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.660)	49	2547907	50.0000	52.233	80.00- 120.00	100.00
5.122	5.122 (0.663)	84	1031650			10.49- 70.49	40.49
5.122	5.122 (0.663)	51	756918			0.00- 59.58	29.71
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.703)	73	3899015	50.0000	58.379	80.00- 120.00	100.00
5.426	5.426 (0.703)	57	1329220			4.09- 64.09	34.09
5.426	5.426 (0.703)	41	1560163			10.64- 70.64	40.01
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.710)	96	1299600	50.0000	55.993	80.00- 120.00	100.00
5.481	5.481 (0.710)	61	2746361			181.32- 241.32	211.32
5.481	5.481 (0.710)	98	805746			34.69- 94.69	62.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.753)	57	3526200	50.0000	56.843	80.00- 120.00	100.00
5.813	5.813 (0.753)	43	2785888			51.25- 111.25	79.01
5.813	5.813 (0.753)	86	375298			0.00- 40.47	10.64
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.255	6.255 (0.810)	63	2969680	50.0000	59.548	80.00- 120.00	100.00
6.255	6.255 (0.810)	65	868476			0.00- 59.24	29.24
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.946)	72	634700	50.0000	53.349	80.00- 120.00	100.00
7.306	7.306 (0.946)	43	5139296			779.72- 839.72	809.72
7.306	7.306 (0.946)	57	329907			22.22- 82.22	51.98
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.943)	61	2379485	50.0000	54.772	80.00- 120.00	100.00
7.278	7.278 (0.943)	96	1222155			21.36- 81.36	51.36
7.278	7.278 (0.943)	98	767487			2.25- 62.25	32.25
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (0.996)	42	2964068	50.0000	47.124	80.00- 120.00	100.00
7.693	7.693 (0.996)	71	547743			0.00- 48.48	18.48
7.693	7.693 (0.996)	72	606711			0.00- 48.93	20.47
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.014)	83	2457488	50.0000	58.174	80.00- 120.00	100.00
7.831	7.831 (1.014)	85	1547180			32.96- 92.96	62.96
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.047)	97	2600020	50.0000	51.685	80.00- 120.00	100.00
8.080	8.080 (1.047)	99	1661557			33.91- 93.91	63.91
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.043)	84	1733902	50.0000	55.594	80.00- 120.00	100.00
8.053	8.053 (1.043)	56	3536397			173.96- 233.96	203.96
8.053	8.053 (1.043)	41	2318260			103.70- 163.70	133.70
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.817)	86	332485	50.0000	58.541	80.00- 120.00	100.00
6.311	6.311 (0.817)	43	6788685			2070.21-2130.21	2041.80
6.311	6.311 (0.817)	42	550862			130.28- 190.28	165.68
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.329	8.329 (1.079)	119	2351203	50.0000	55.014	80.00- 120.00	100.00
8.329	8.329 (1.079)	117	2490042			75.91- 135.91	105.91

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		
8.771	8.771 (1.136)	57	10240708	50.0000	53.790	80.00- 120.00	100.00
8.771	8.771 (1.136)	56	3405006			3.55- 63.55	33.25
8.771	8.771 (1.136)	41	3174234			1.79- 61.79	31.00
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.911)	78	3830485	50.0000	55.844	80.00- 120.00	100.00
8.744	8.744 (0.911)	77	885728			0.00- 53.64	23.12
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.937	8.937 (0.931)	62	2287842	50.0000	54.607	80.00- 120.00	100.00
8.937	8.937 (0.931)	64	708755			0.80- 60.80	30.98
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.954)	100	415180	50.0000	52.241	80.00- 120.00	100.00
9.159	9.159 (0.954)	43	4787476			1194.19-1254.19	1153.11
9.159	9.159 (0.954)	71	1371960			299.00- 359.00	330.45
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.040)	95	1483726	50.0000	56.299	80.00- 120.00	100.00
10.016	10.016 (1.043)	130	1388125			63.56- 123.56	93.56
9.988	9.988 (1.040)	97	965692			35.09- 95.09	65.09
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.095)	63	1692612	50.0000	55.927	80.00- 120.00	100.00
10.513	10.513 (1.095)	62	1234906			42.96- 102.96	72.96
10.513	10.513 (1.095)	41	1430497			54.51- 114.51	84.51
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.118)	88	811650	50.0000	57.298	80.00- 120.00	100.00
10.735	10.735 (1.118)	58	912120			82.38- 142.38	112.38
10.735	10.735 (1.118)	57	292465			7.65- 67.65	36.03
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.153)	83	2430635	50.0000	59.802	80.00- 120.00	100.00
11.066	11.066 (1.153)	85	1566311			34.44- 94.44	64.44
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.006	12.006 (1.251)	75	1927338	50.0000	57.632	80.00- 120.00	100.00
12.006	12.006 (1.251)	77	605994			1.44- 61.44	31.44
12.006	12.006 (1.251)	39	1887228			67.92- 127.92	97.92
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.285)	58	1730150	50.0000	55.479	80.00- 120.00	100.00
12.338	12.338 (1.285)	43	5699519			299.62- 359.62	329.42
12.338	12.338 (1.285)	85	494120			0.00- 56.94	28.56

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.559	12.559 (1.308)	91	3859570	50.0000	56.117	80.00- 120.00	100.00
12.559	12.559 (1.308)	92	2342111			30.68- 90.68	60.68
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.140	13.140 (0.886)	75	2034057	50.0000	57.910	80.00- 120.00	100.00
13.140	13.140 (0.886)	77	657138			2.31- 62.31	32.31
13.112	13.112 (0.884)	39	1854979			61.20- 121.20	91.20
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	1364723	50.0000	55.380	80.00- 120.00	100.00
13.417	13.417 (0.905)	99	839203			31.49- 91.49	61.49
13.417	13.417 (0.905)	83	1176604			56.22- 116.22	86.22
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	1796844	50.0000	55.913	80.00- 120.00	100.00
13.472	13.472 (0.909)	129	1332303			44.15- 104.15	74.15
13.472	13.472 (0.909)	131	1279802			41.22- 101.22	71.22
103 2-Hexanone					CAS #: 591-78-6		
13.831	13.831 (0.933)	58	2323004	50.0000	53.976	80.00- 120.00	100.00
13.831	13.831 (0.933)	43	5467033			205.34- 265.34	235.34
13.831	13.831 (0.933)	100	309800			0.00- 42.46	13.34
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	2095008	50.0000	57.884	80.00- 120.00	100.00
13.997	13.997 (0.944)	127	1637061			46.21- 106.21	78.14
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.163	14.163 (0.955)	107	2100796	50.0000	58.378	80.00- 120.00	100.00
14.163	14.163 (0.955)	109	2004305			65.41- 125.41	95.41
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	3137805	50.0000	56.596	80.00- 120.00	100.00
14.854	14.854 (1.002)	114	1019246			2.48- 62.48	32.48
14.854	14.854 (1.002)	77	2146047			38.39- 98.39	68.39
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	1775456	50.0000	55.685	80.00- 120.00	100.00
14.993	14.993 (1.011)	91	5768067			291.76- 351.76	324.88
113 m,p-Xylene					CAS #: 108-38-3		
15.186	15.186 (1.024)	106	2174365	50.0000	54.968	80.00- 120.00	100.00
15.159	15.159 (1.022)	91	4607006			180.46- 240.46	211.88
114 o-Xylene					CAS #: 95-47-6		
15.711	15.711 (1.060)	106	2118727	50.0000	54.922	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)							
15.711	15.711 (1.060)	91	4634101			188.72- 248.72	218.72
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	3266202	50.0000	55.741	80.00- 120.00	100.00
15.739	15.739 (1.062)	78	1917923			28.72- 88.72	58.72
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	1981629	50.0000	60.678	80.00- 120.00	100.00
16.016	16.016 (1.080)	171	1031770			22.07- 82.07	52.07
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	3124981	50.0000	58.043	80.00- 120.00	100.00
16.679	16.679 (1.125)	85	2009582			34.31- 94.31	64.31
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	7109077	50.0000	56.638	80.00- 120.00	100.00
16.845	16.845 (1.136)	120	2030246			0.00- 58.56	28.56
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	6034994	50.0000	58.252	80.00- 120.00	100.00
16.928	16.928 (1.142)	120	2781302			17.03- 77.03	46.09
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	6284117	50.0000	56.767	80.00- 120.00	100.00
17.343	17.343 (1.170)	120	2710726			13.14- 73.14	43.14
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	3052163	50.0000	54.101	80.00- 120.00	100.00
17.647	17.647 (1.190)	148	1934654			33.06- 93.06	63.39
17.647	17.647 (1.190)	111	1405829			16.08- 76.08	46.06
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	4022160	50.0000	54.828	80.00- 120.00	100.00
17.758	17.758 (1.198)	148	2569011			33.20- 93.20	63.87
17.758	17.758 (1.198)	111	1714536			9.94- 69.94	42.63
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	5300144	50.0000	56.558	80.00- 120.00	100.00
17.896	17.896 (1.207)	126	870736			0.00- 46.47	16.43
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	3157147	50.0000	53.351	80.00- 120.00	100.00
18.117	18.117 (1.222)	148	1947154			31.67- 91.67	61.67
18.117	18.117 (1.222)	111	1524049			18.27- 78.27	48.27

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		
19.499	19.499 (1.315)	180	3716385	50.0000	51.869	80.00- 120.00	100.00
19.499	19.499 (1.315)	182	3514100			64.56- 124.56	94.56
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	2040198	50.0000	52.254	80.00- 120.00	100.00
19.582	19.582 (1.321)	223	1287513			33.11- 93.11	63.11
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	8027585	50.0000	59.423	80.00- 120.00	100.00
16.707	16.707 (1.127)	120	1789291			0.00- 52.69	22.29
16.707	16.707 (1.127)	105	298742			0.00- 33.64	3.72
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	6291979	50.0000	56.518	80.00- 120.00	100.00
16.182	16.182 (1.091)	120	1601127			0.00- 55.44	25.45
16.182	16.182 (1.091)	51	1182347			0.00- 48.94	18.79
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	15003430	50.0000	49.252	80.00- 120.00	100.00
19.693	19.693 (1.328)	127	2152372			0.00- 52.00	14.35
30 Isopentane					CAS #: 78-78-4		
3.159	3.159 (0.409)	43	3580407	50.0000	51.303	80.00- 120.00	100.00
3.159	3.159 (0.409)	57	2013348			24.61- 84.61	56.23
3.159	3.159 (0.409)	72	163807			0.00- 34.33	4.58
21 Butane					CAS #: 106-97-8		
2.495	2.495 (0.323)	58	495674	50.0000	54.720	80.00- 120.00	100.00
2.467	2.467 (0.320)	43	4444115			866.40- 926.40	896.58
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.237	10.237 (1.326)	83	2235601	50.0000	55.239	80.00- 120.00	100.00
10.237	10.237 (1.326)	98	1040528			17.17- 77.17	46.54
10.237	10.237 (1.326)	55	3224236			119.32- 179.32	144.22

Report Date: 13-Apr-2007 08:07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040602.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 12-APR-2007
Calibration Time: 14:14
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	400174	240104	560244	416168	4.00
79 1,4-Difluorobenze	1543274	925964	2160584	1709302	10.76
108 Chlorobenzene-d5	1288326	772996	1803656	1609376	24.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.69	7.36	8.02	7.72	0.36
79 1,4-Difluorobenze	9.57	9.24	9.90	9.60	0.29
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

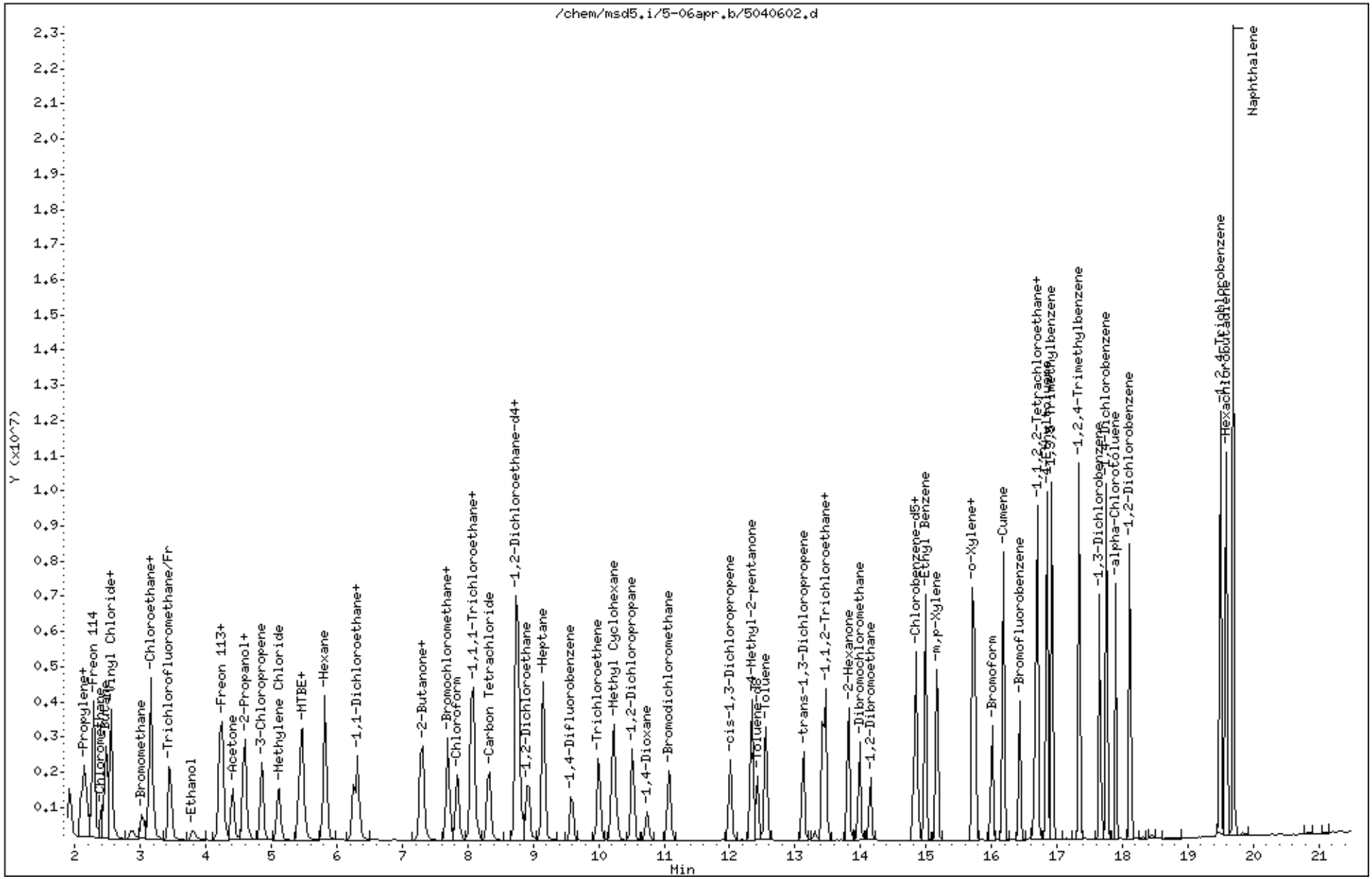
0148

Data File: /chem/msd5.i/5-06apr.b/5040602.d
Date : 06-APR-2007 09:48
Client ID: CCV-1
Sample Info: 100ml #1487-183A

Instrument: msd5.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0704011-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 10:16 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	110
Vinyl Chloride	105
Bromomethane	111
Chloroethane	107
Freon 11	109
1,1-Dichloroethene	114
Freon 113	121
Methylene Chloride	109
1,1-Dichloroethane	119
cis-1,2-Dichloroethene	108
Chloroform	115
1,1,1-Trichloroethane	101
Carbon Tetrachloride	110
Benzene	104
1,2-Dichloroethane	101
Trichloroethene	106
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	105
Toluene	111
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	106
Tetrachloroethene	111
1,2-Dibromoethane (EDB)	112
Chlorobenzene	111
Ethyl Benzene	109
m,p-Xylene	108
o-Xylene	110
Styrene	110
1,1,2,2-Tetrachloroethane	112
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	108
1,3-Butadiene	98
Hexane	107
Cyclohexane	109

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0704011-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5040603**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/6/07 10:16 AM**	

Compound	%Recovery
Heptane	95
Bromodichloromethane	112
Dibromochloromethane	114
Cumene	116
Propylbenzene	120
Chloromethane	100
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	102
Acetone	112
Carbon Disulfide	105
2-Propanol	109
trans-1,2-Dichloroethene	109
2-Butanone (Methyl Ethyl Ketone)	106
Tetrahydrofuran	94
1,4-Dioxane	110
4-Methyl-2-pentanone	108
2-Hexanone	109
Bromoform	118
4-Ethyltoluene	119
Ethanol	118
Methyl tert-butyl ether	111
3-Chloropropene	105
2,2,4-Trimethylpentane	106
Naphthalene	59 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Report Date: 06-Apr-2007 10:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-06apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra2926pN.spk Quant Type: ISTD
Sublist File: AT04+ENSR.sub
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 100ppbv-> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
2 Dichlorodifluorome	50.000	54.874	109.75	70-130
3 Freon 114	50.000	55.046	110.09	70-130
4 Chloromethane	50.000	50.200	100.40	70-130
5 Vinyl Chloride	50.000	52.523	105.05	70-130
6 1,3-Butadiene	50.000	49.126	98.25	60-140
7 Bromomethane	50.000	55.466	110.93	70-130
8 Chloroethane	50.000	53.722	107.44	70-130
9 Trichlorofluoromet	50.000	54.339	108.68	70-130
13 Ethanol	50.000	59.197	118.39	60-140
19 Freon 113	50.000	60.429	120.86	70-130
20 1,1-Dichloroethene	50.000	57.224	114.45	70-130
25 Carbon Disulfide	50.000	52.667	105.33	60-140
22 Acetone	50.000	55.789	111.58	60-140
26 2-Propanol	50.000	54.505	109.01	60-140
28 3-Chloropropene	50.000	52.469	104.94	60-140
29 Methylene Chloride	50.000	54.552	109.10	70-130
31 MTBE	50.000	55.536	111.07	60-140
32 trans-1,2-Dichloro	50.000	54.542	109.08	60-140
38 Hexane	50.000	53.433	106.87	60-140
43 1,1-Dichloroethane	50.000	59.327	118.65	70-130
52 cis-1,2-Dichloroet	50.000	53.904	107.81	70-130
53 2-Butanone	50.000	53.138	106.28	60-140
56 Tetrahydrofuran	50.000	46.893	93.79	60-140
58 Chloroform	50.000	57.484	114.97	70-130
61 Cyclohexane	50.000	54.355	108.71	60-140
62 1,1,1-Trichloroeth	50.000	50.743	101.49	70-130
63 Vinyl Acetate	50.000	59.085	118.17	60-140
65 Carbon Tetrachlori	50.000	54.941	109.88	70-130
68 2,2,4-Trimethylpen	50.000	52.901	105.80	60-140
69 Benzene	50.000	52.226	104.45	70-130
72 1,2-Dichloroethane	50.000	50.587	101.17	70-130
75 Heptane	50.000	47.729	95.46	60-140
80 Trichloroethene	50.000	53.155	106.31	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
82 1,2-Dichloropropan	50.000	52.604	105.21	70-130
84 1,4-Dioxane	50.000	55.062	110.12	60-140
85 Bromodichlorometha	50.000	56.004	112.01	60-140
90 cis-1,3-Dichloropr	50.000	52.319	104.64	70-130
91 4-Methyl-2-pentano	50.000	54.014	108.03	60-140
99 Toluene	50.000	55.628	111.26	70-130
100 trans-1,3-Dichloro	50.000	55.812	111.62	70-130
101 1,1,2-Trichloroeth	50.000	52.984	105.97	70-130
102 Tetrachloroethene	50.000	55.387	110.77	70-130
103 2-Hexanone	50.000	54.337	108.67	60-140
105 Dibromochlorometha	50.000	57.143	114.29	60-140
106 1,2-Dibromoethane	50.000	56.149	112.30	70-130
109 Chlorobenzene	50.000	55.547	111.09	70-130
111 Ethyl Benzene	50.000	54.618	109.24	70-130
113 m,p-Xylene	50.000	54.295	108.59	70-130
114 o-Xylene	50.000	54.937	109.87	70-130
115 Styrene	50.000	55.249	110.50	70-130
118 Bromoform	50.000	59.163	118.33	60-140
119 Cumene	50.000	58.241	116.48	60-140
123 1,1,2,2-Tetrachlor	50.000	56.166	112.33	70-130
124 Propylbenzene	50.000	60.058	120.12	60-140
126 4-Ethyltoluene	50.000	59.567	119.13	60-140
128 1,3,5-Trimethylben	50.000	58.736	117.47	70-130
131 1,2,4-Trimethylben	50.000	56.240	112.48	70-130
138 1,3-Dichlorobenzen	50.000	55.278	110.56	70-130
141 1,4-Dichlorobenzen	50.000	55.398	110.80	70-130
143 alpha-Chlorotoluen	50.000	61.578	123.16	70-130
146 1,2-Dichlorobenzen	50.000	54.248	108.50	70-130
154 1,2,4-Trichloroben	50.000	52.230	104.46	70-130
155 Hexachlorobutadien	50.000	50.953	101.91	70-130
1 Propylene	50.000	51.264	102.53	70-130
156 Naphthalene	25.000	14.673	58.69*	60-140
21 Butane	50.000	51.829	103.66	70-130
30 Isopentane	50.000	47.738	95.48	70-130
96 Methyl Cyclohexane	50.000	55.481	110.96	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 71 1,2-Dichloroethane	25.000	24.177	96.71	70-130
$ 97 Toluene-d8	25.000	24.993	99.97	70-130
$ 122 Bromofluorobenzene	25.000	25.321	101.28	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-06apr.b/5040603.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 06-APR-2007 10:16
Operator : JG Inst ID: msd5.i
Smp Info : 100mL #1408-386A
Misc Info : 100ppbv-> 50ppbv
Comment :
Method : /chem/msd5.i/5-06apr.b/t14q404a.m
Meth Date : 06-Apr-2007 10:44 jgray Quant Type: ISTD
Cal Date : 04-APR-2007 17:35 Cal File: 5040409.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		
7.693	7.721 (1.000)	130	356097	25.0000			80.00- 120.00	100.00
7.693	7.721 (1.000)	128	275729				47.49- 107.49	77.43
7.693	7.721 (1.000)	49	1095995				264.97- 324.97	307.78
* 79 1,4-Difluorobenzene						CAS #: 540-36-3		
9.573	9.601 (1.000)	114	1545474	25.0000			80.00- 120.00	100.00
9.573	9.601 (1.000)	88	283319				0.00- 48.37	18.33
* 108 Chlorobenzene-d5						CAS #: 3114-55-4		
14.827	14.827 (1.000)	117	1392116	25.0000			80.00- 120.00	100.00
14.827	14.827 (1.000)	82	876718				33.70- 93.70	62.98
$ 71 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.772	8.771 (1.140)	65	729109	24.1771	24.177		80.00- 120.00	100.00
8.772	8.771 (1.140)	67	400993				30.41- 90.41	55.00
$ 97 Toluene-d8						CAS #: 2037-26-5		
12.421	12.421 (1.297)	98	1603874	24.9930	24.993		80.00- 120.00	100.00
12.421	12.421 (1.297)	70	199169				0.00- 42.60	12.42

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 97 Toluene-d8 (continued)							
12.421	12.421 (1.297)	100	1152527			42.61- 102.61	71.86
$ 122 Bromofluorobenzene					CAS #: 460-00-4		
16.430	16.430 (1.108)	174	987475	25.3207	25.321	80.00- 120.00	100.00
16.430	16.430 (1.108)	95	1467859			118.56- 178.56	148.65
16.430	16.430 (1.108)	176	945496			66.29- 126.29	95.75
1 Propylene					CAS #: 115-07-1		
2.080	2.108 (0.270)	41	1683442	51.2638	51.264	80.00- 120.00	100.00
2.080	2.108 (0.270)	42	1120909			33.36- 93.36	66.58
2.080	2.108 (0.270)	39	1207519			39.93- 99.93	71.73
2 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.136	2.163 (0.278)	85	2931394	54.8738	54.874	80.00- 120.00	100.00
2.136	2.163 (0.278)	87	956046			1.87- 61.87	32.61
3 Freon 114					CAS #: 76-14-2		
2.274	2.274 (0.296)	135	1851317	55.0458	55.046	80.00- 120.00	100.00
2.274	2.274 (0.296)	137	572031			1.53- 61.53	30.90
4 Chloromethane					CAS #: 74-87-3		
2.385	2.384 (0.310)	50	1883167	50.1999	50.200	80.00- 120.00	100.00
2.385	2.384 (0.310)	52	580092			0.30- 60.30	30.80
5 Vinyl Chloride					CAS #: 75-01-4		
2.550	2.550 (0.332)	62	1527255	52.5233	52.523	80.00- 120.00	100.00
2.550	2.550 (0.332)	64	455934			0.06- 60.06	29.85
6 1,3-Butadiene					CAS #: 106-99-0		
2.550	2.550 (0.332)	54	1517218	49.1263	49.126	80.00- 120.00	100.00
2.550	2.550 (0.332)	39	1822173			98.04- 158.04	120.10
7 Bromomethane					CAS #: 74-83-9		
2.993	3.020 (0.389)	94	914443	55.4665	55.466	80.00- 120.00	100.00
2.993	3.020 (0.389)	96	871860			64.95- 124.95	95.34
8 Chloroethane					CAS #: 75-00-3		
3.159	3.159 (0.411)	64	769389	53.7223	53.722	80.00- 120.00	100.00
3.159	3.159 (0.411)	49	277215			7.61- 67.61	36.03
3.159	3.159 (0.411)	66	224331			0.00- 58.62	29.16
9 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.435	3.435 (0.447)	101	2885550	54.3391	54.339	80.00- 120.00	100.00
3.435	3.435 (0.447)	103	1865263			35.45- 95.45	64.64

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
13 Ethanol					CAS #: 64-17-5		
3.795	3.795 (0.493)	45	818691	59.1975	59.197	80.00- 120.00	100.00
3.795	3.795 (0.493)	43	179493			0.00- 51.40	21.92
3.795	3.795 (0.493)	46	342067			11.97- 71.97	41.78
19 Freon 113					CAS #: 76-13-1		
4.209	4.209 (0.547)	151	1622208	60.4295	60.429	80.00- 120.00	100.00
4.209	4.209 (0.547)	153	1036681			33.35- 93.35	63.91
4.209	4.209 (0.547)	101	2115653			103.60- 163.60	130.42
20 1,1-Dichloroethene					CAS #: 75-35-4		
4.237	4.237 (0.551)	61	2489413	57.2246	57.224	80.00- 120.00	100.00
4.237	4.237 (0.551)	96	1077600			11.28- 71.28	43.29
4.237	4.237 (0.551)	98	672713			0.00- 57.03	27.02
22 Acetone					CAS #: 67-64-1		
4.403	4.403 (0.572)	58	820730	55.7886	55.789	80.00- 120.00	100.00
4.403	4.403 (0.572)	43	3206652			372.89- 432.89	390.71
26 2-Propanol					CAS #: 67-63-0		
4.596	4.596 (0.597)	45	3672810	54.5052	54.505	80.00- 120.00	100.00
4.596	4.596 (0.597)	43	741195			0.00- 49.45	20.18
4.596	4.596 (0.597)	59	116189			0.00- 32.98	3.16
25 Carbon Disulfide					CAS #: 75-15-0		
4.569	4.569 (0.594)	76	3099571	52.6666	52.667	80.00- 120.00	100.00
28 3-Chloropropene					CAS #: 107-05-1		
4.845	4.845 (0.630)	76	491668	52.4694	52.469	80.00- 120.00	100.00
4.845	4.845 (0.630)	41	2850729			578.20- 638.20	579.81
29 Methylene Chloride					CAS #: 75-09-2		
5.094	5.094 (0.662)	49	2276921	54.5522	54.552	80.00- 120.00	100.00
5.094	5.094 (0.662)	84	929008			10.49- 70.49	40.80
5.094	5.094 (0.662)	51	681655			0.00- 59.58	29.94
31 MTBE					CAS #: 1634-04-4		
5.426	5.426 (0.705)	73	3173759	55.5361	55.536	80.00- 120.00	100.00
5.426	5.426 (0.705)	57	1107180			4.09- 64.09	34.89
5.426	5.426 (0.705)	41	1250698			10.64- 70.64	39.41
32 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.481	5.481 (0.712)	96	1083189	54.5417	54.542	80.00- 120.00	100.00
5.481	5.481 (0.712)	61	2204344			181.32- 241.32	203.51
5.481	5.481 (0.712)	98	666909			34.69- 94.69	61.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
38 Hexane					CAS #: 110-54-3		
5.813	5.813 (0.756)	57	2836190	53.4329	53.433	80.00- 120.00	100.00
5.813	5.813 (0.756)	43	2273147			51.25- 111.25	80.15
5.813	5.813 (0.756)	86	309486			0.00- 40.47	10.91
43 1,1-Dichloroethane					CAS #: 75-34-3		
6.228	6.255 (0.810)	63	2531579	59.3271	59.327	80.00- 120.00	100.00
6.255	6.255 (0.813)	65	744783			0.00- 59.24	29.42
53 2-Butanone					CAS #: 78-93-3		
7.306	7.306 (0.950)	72	540946	53.1385	53.138	80.00- 120.00	100.00
7.306	7.306 (0.950)	43	4356049			779.72- 839.72	805.27
7.306	7.306 (0.950)	57	270423			22.22- 82.22	49.99
52 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.278	7.278 (0.946)	61	2003736	53.9040	53.904	80.00- 120.00	100.00
7.278	7.278 (0.946)	96	1012798			21.36- 81.36	50.55
7.278	7.278 (0.946)	98	645745			2.25- 62.25	32.23
56 Tetrahydrofuran					CAS #: 109-99-9		
7.693	7.693 (1.000)	42	2523823	46.8932	46.893	80.00- 120.00	100.00
7.693	7.693 (1.000)	71	466814			0.00- 48.48	18.50
7.693	7.693 (1.000)	72	495264			0.00- 48.93	19.62
58 Chloroform					CAS #: 67-66-3		
7.831	7.831 (1.018)	83	2077797	57.4838	57.484	80.00- 120.00	100.00
7.831	7.831 (1.018)	85	1334610			32.96- 92.96	64.23
62 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.080	8.080 (1.050)	97	2184181	50.7429	50.743	80.00- 120.00	100.00
8.080	8.080 (1.050)	99	1414806			33.91- 93.91	64.78
61 Cyclohexane					CAS #: 110-82-7		
8.053	8.053 (1.047)	84	1450566	54.3550	54.355	80.00- 120.00	100.00
8.053	8.053 (1.047)	56	2986041			173.96- 233.96	205.85
8.053	8.053 (1.047)	41	1904991			103.70- 163.70	131.33
63 Vinyl Acetate					CAS #: 108-05-4		
6.311	6.311 (0.820)	86	287134	59.0849	59.085	80.00- 120.00	100.00
6.311	6.311 (0.820)	43	5606633			2070.21-2130.21	1952.62
6.311	6.311 (0.820)	42	440593			130.28- 190.28	153.45
65 Carbon Tetrachloride					CAS #: 56-23-5		
8.302	8.329 (1.079)	119	2009135	54.9407	54.941	80.00- 120.00	100.00
8.302	8.329 (1.079)	117	2080895			75.91- 135.91	103.57

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		
8.744	8.771 (1.137)	57	8617738	52.9013	52.901	80.00- 120.00	100.00
8.744	8.771 (1.137)	56	2841107			3.55- 63.55	32.97
8.744	8.771 (1.137)	41	2654059			1.79- 61.79	30.80
69 Benzene					CAS #: 71-43-2		
8.744	8.744 (0.913)	78	3238920	52.2257	52.226	80.00- 120.00	100.00
8.744	8.744 (0.913)	77	755802			0.00- 53.64	23.34
72 1,2-Dichloroethane					CAS #: 107-06-2		
8.910	8.937 (0.931)	62	1916272	50.5870	50.587	80.00- 120.00	100.00
8.910	8.937 (0.931)	64	575055			0.80- 60.80	30.01
75 Heptane					CAS #: 142-82-5		
9.159	9.159 (0.957)	100	342963	47.7287	47.729	80.00- 120.00	100.00
9.131	9.159 (0.954)	43	4032229			1194.19-1254.19	1175.70
9.159	9.159 (0.957)	71	1138952			299.00- 359.00	332.09
80 Trichloroethene					CAS #: 79-01-6		
9.988	9.988 (1.043)	95	1266587	53.1547	53.155	80.00- 120.00	100.00
9.988	9.988 (1.043)	130	1165926			63.56- 123.56	92.05
9.988	9.988 (1.043)	97	799972			35.09- 95.09	63.16
82 1,2-Dichloropropane					CAS #: 78-87-5		
10.513	10.513 (1.098)	63	1439468	52.6045	52.604	80.00- 120.00	100.00
10.513	10.513 (1.098)	62	1039852			42.96- 102.96	72.24
10.513	10.513 (1.098)	41	1200491			54.51- 114.51	83.40
84 1,4-Dioxane					CAS #: 123-91-1		
10.735	10.735 (1.121)	88	705222	55.0623	55.062	80.00- 120.00	100.00
10.735	10.735 (1.121)	58	778304			82.38- 142.38	110.36
10.735	10.735 (1.121)	57	264729			7.65- 67.65	37.54
85 Bromodichloromethane					CAS #: 75-27-4		
11.066	11.066 (1.156)	83	2058105	56.0044	56.004	80.00- 120.00	100.00
11.066	11.066 (1.156)	85	1313864			34.44- 94.44	63.84
90 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.007	12.006 (1.254)	75	1581970	52.3194	52.319	80.00- 120.00	100.00
12.007	12.006 (1.254)	77	490733			1.44- 61.44	31.02
12.007	12.006 (1.254)	39	1554109			67.92- 127.92	98.24
91 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.338	12.338 (1.289)	58	1523027	54.0145	54.014	80.00- 120.00	100.00
12.338	12.338 (1.289)	43	4856647			299.62- 359.62	318.88
12.338	12.338 (1.289)	85	411501			0.00- 56.94	27.02

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
99 Toluene					CAS #: 108-88-3		
12.560	12.559 (1.312)	91	3459250	55.6282	55.628	80.00- 120.00	100.00
12.560	12.559 (1.312)	92	2044065			30.68- 90.68	59.09
100 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.113	13.140 (0.884)	75	1695731	55.8121	55.812	80.00- 120.00	100.00
13.113	13.140 (0.884)	77	520069			2.31- 62.31	30.67
13.113	13.140 (0.884)	39	1549706			61.20- 121.20	91.39
101 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.417	13.417 (0.905)	97	1129409	52.9838	52.984	80.00- 120.00	100.00
13.417	13.417 (0.905)	99	723533			31.49- 91.49	64.06
13.417	13.417 (0.905)	83	991018			56.22- 116.22	87.75
102 Tetrachloroethene					CAS #: 127-18-4		
13.472	13.472 (0.909)	166	1539679	55.3875	55.387	80.00- 120.00	100.00
13.472	13.472 (0.909)	129	1147006			44.15- 104.15	74.50
13.472	13.472 (0.909)	131	1100512			41.22- 101.22	71.48
103 2-Hexanone					CAS #: 591-78-6		
13.804	13.831 (0.931)	58	2022831	54.3367	54.337	80.00- 120.00	100.00
13.804	13.831 (0.931)	43	4740668			205.34- 265.34	234.36
13.831	13.831 (0.933)	100	262936			0.00- 42.46	13.00
105 Dibromochloromethane					CAS #: 124-48-1		
13.997	13.997 (0.944)	129	1788997	57.1432	57.143	80.00- 120.00	100.00
13.997	13.997 (0.944)	127	1363973			46.21- 106.21	76.24
106 1,2-Dibromoethane					CAS #: 106-93-4		
14.136	14.163 (0.953)	107	1747814	56.1489	56.149	80.00- 120.00	100.00
14.163	14.163 (0.955)	109	1615008			65.41- 125.41	92.40
109 Chlorobenzene					CAS #: 108-90-7		
14.854	14.854 (1.002)	112	2663905	55.5472	55.547	80.00- 120.00	100.00
14.854	14.854 (1.002)	114	869707			2.48- 62.48	32.65
14.854	14.854 (1.002)	77	1837139			38.39- 98.39	68.96
111 Ethyl Benzene					CAS #: 100-41-4		
14.993	14.993 (1.011)	106	1506345	54.6180	54.618	80.00- 120.00	100.00
14.993	14.993 (1.011)	91	4881250			291.76- 351.76	324.05
113 m,p-Xylene					CAS #: 108-38-3		
15.159	15.186 (1.022)	106	1857776	54.2947	54.295	80.00- 120.00	100.00
15.159	15.186 (1.022)	91	3845630			180.46- 240.46	207.00
114 o-Xylene					CAS #: 95-47-6		
15.712	15.711 (1.060)	106	1833223	54.9372	54.937	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)							
15.712	15.711 (1.060)	91	4009293			188.72- 248.72	218.70
115 Styrene					CAS #: 100-42-5		
15.739	15.739 (1.062)	104	2800322	55.2489	55.249	80.00- 120.00	100.00
15.739	15.739 (1.062)	78	1633071			28.72- 88.72	58.32
118 Bromoform					CAS #: 75-25-2		
16.016	16.016 (1.080)	173	1671334	59.1634	59.163	80.00- 120.00	100.00
16.016	16.016 (1.080)	171	870960			22.07- 82.07	52.11
123 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.679	16.679 (1.125)	83	2615723	56.1665	56.166	80.00- 120.00	100.00
16.679	16.679 (1.125)	85	1663227			34.31- 94.31	63.59
126 4-Ethyltoluene					CAS #: 622-96-8		
16.845	16.845 (1.136)	105	6467326	59.5668	59.567	80.00- 120.00	100.00
16.845	16.845 (1.136)	120	1879395			0.00- 58.56	29.06
128 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.928	16.928 (1.142)	105	5263660	58.7356	58.736	80.00- 120.00	100.00
16.928	16.928 (1.142)	120	2459892			17.03- 77.03	46.73
131 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.343	17.343 (1.170)	105	5385339	56.2401	56.240	80.00- 120.00	100.00
17.343	17.343 (1.170)	120	2405749			13.14- 73.14	44.67
138 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.647	17.647 (1.190)	146	2697582	55.2782	55.278	80.00- 120.00	100.00
17.647	17.647 (1.190)	148	1728434			33.06- 93.06	64.07
17.647	17.647 (1.190)	111	1248528			16.08- 76.08	46.28
141 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.758	17.758 (1.198)	146	3515368	55.3984	55.398	80.00- 120.00	100.00
17.758	17.758 (1.198)	148	2247186			33.20- 93.20	63.92
17.758	17.758 (1.198)	111	1448657			9.94- 69.94	41.21
143 alpha-Chlorotoluene					CAS #: 100-44-7		
17.896	17.896 (1.207)	91	4991542	61.5776	61.578	80.00- 120.00	100.00
17.896	17.896 (1.207)	126	793320			0.00- 46.47	15.89
146 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.117	18.117 (1.222)	146	2776861	54.2480	54.248	80.00- 120.00	100.00
18.117	18.117 (1.222)	148	1741179			31.67- 91.67	62.70
18.117	18.117 (1.222)	111	1398215			18.27- 78.27	50.35

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		
19.500	19.499 (1.315)	180	3237093	52.2303	52.230	80.00- 120.00	100.00
19.500	19.499 (1.315)	182	2993058			64.56- 124.56	92.46
155 Hexachlorobutadiene					CAS #: 87-68-3		
19.582	19.582 (1.321)	225	1720832	50.9529	50.953	80.00- 120.00	100.00
19.582	19.582 (1.321)	223	1097601			33.11- 93.11	63.78
124 Propylbenzene					CAS #: 103-65-1		
16.707	16.707 (1.127)	91	7018137	60.0584	60.058	80.00- 120.00	100.00
16.707	16.707 (1.127)	120	1561211			0.00- 52.69	22.25
16.707	16.707 (1.127)	105	253256			0.00- 33.64	3.61
119 Cumene					CAS #: 98-82-8		
16.182	16.182 (1.091)	105	5608458	58.2411	58.241	80.00- 120.00	100.00
16.182	16.182 (1.091)	120	1449542			0.00- 55.44	25.85
16.182	16.182 (1.091)	51	1039351			0.00- 48.94	18.53
156 Naphthalene					CAS #: 91-20-3		
19.693	19.693 (1.328)	128	3866324	14.6727	14.673	80.00- 120.00	100.00(R)
19.693	19.693 (1.328)	127	493393			0.00- 52.00	12.76
30 Isopentane					CAS #: 78-78-4		
3.131	3.159 (0.407)	43	2850727	47.7382	47.738	80.00- 120.00	100.00
3.131	3.159 (0.407)	57	1579321			24.61- 84.61	55.40
3.159	3.159 (0.411)	72	130394			0.00- 34.33	4.57
21 Butane					CAS #: 106-97-8		
2.467	2.495 (0.321)	58	401719	51.8290	51.829	80.00- 120.00	100.00
2.467	2.495 (0.321)	43	3539100			866.40- 926.40	880.99
96 Methyl Cyclohexane					CAS #: 108-87-2		
10.209	10.237 (1.327)	83	1921315	55.4814	55.481	80.00- 120.00	100.00
10.237	10.237 (1.331)	98	873903			17.17- 77.17	45.48
10.209	10.237 (1.327)	55	2720940			119.32- 179.32	141.62

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 06-Apr-2007 10:44

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5040603.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /chem/msd5.i/5-06apr.b/t14q404a.m
Misc Info: 100ppbv-> 50ppbv

Calibration Date: 06-APR-2007
Calibration Time: 09:48
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	416168	249701	582635	356097	-14.43
79 1,4-Difluorobenze	1709302	1025581	2393023	1545474	-9.58
108 Chlorobenzene-d5	1609376	965626	2253126	1392116	-13.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
57 Bromochloromethan	7.72	7.39	8.05	7.69	-0.36
79 1,4-Difluorobenze	9.60	9.27	9.93	9.57	-0.29
108 Chlorobenzene-d5	14.83	14.50	15.16	14.83	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.

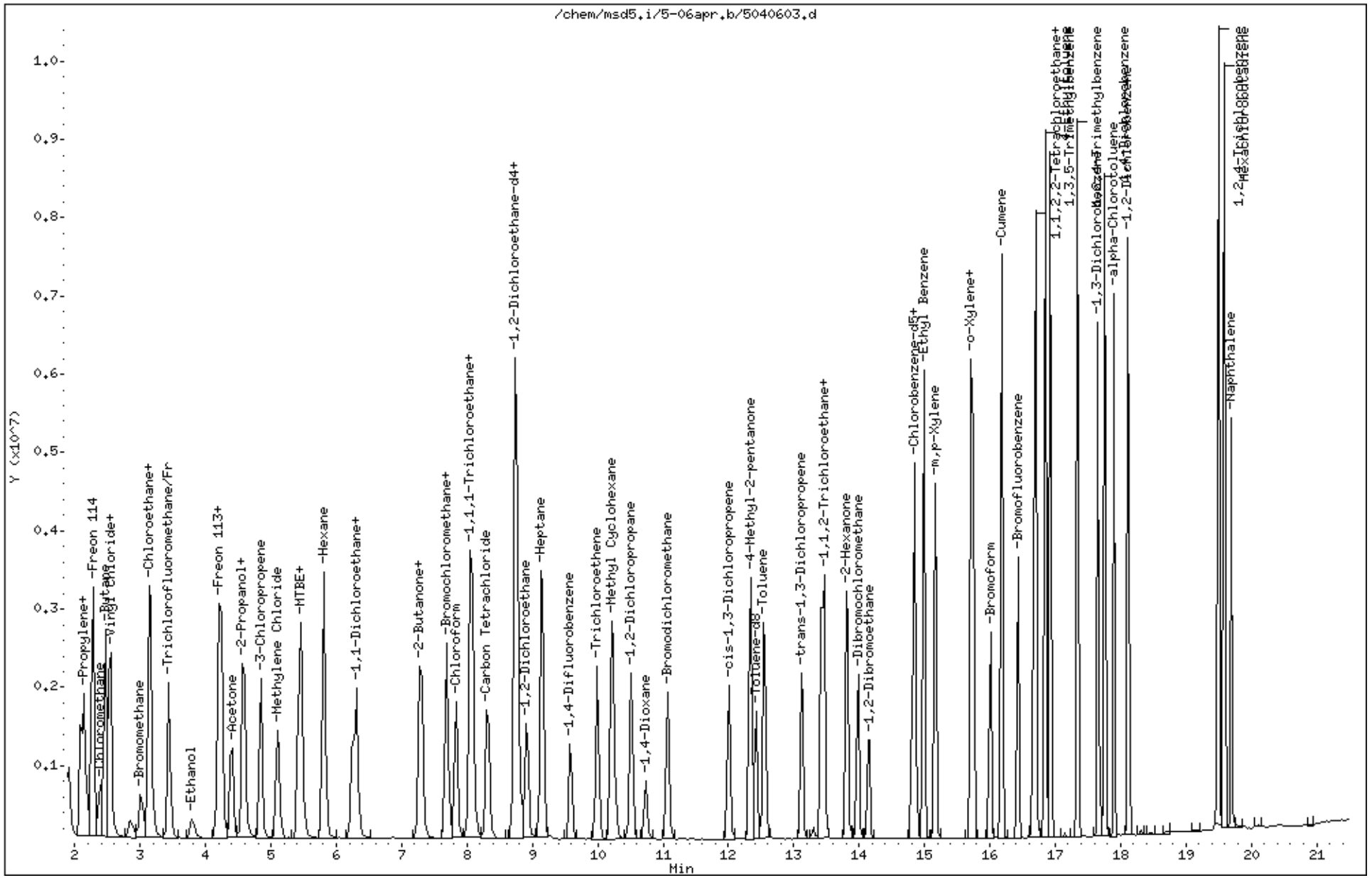
0162

Data File: /chem/msd5.i/5-06apr.b/5040603.d
Date : 06-APR-2007 10:16
Client ID: LCS-1
Sample Info: 100mL #1408-386A

Instrument: msd5.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



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MSD-5

Logbook #: 1523

0163

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	33.73
75	30.0 – 60.0% of mass 95	53.04
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.68
173	Less than 2.0% of mass 174	(1.43)[1]
174	Greater than 50.0% of mass 95	69.17
175	5.0 – 9.0% of mass 174	(7.66)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.41)[1]
177	5.0 – 9.0% of mass 176	(6.25)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 4/6/07

BFB Injection Time: 0910

BFB File ID: 5040601

Tekmar Purge Flow: 2

Vacuum: 2 4/6/07

IS/S Std.#:	1487-185	Exp. Date: 5/26/07
BCM	416168	
1,4-DFB	1709302	
CB-d5	1609376	

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

Verify 176/174 m/z Ratio: 1870336 / 1039268 · 100 = 96.41%

NOAH Cart #: 5/14 **File #:** 5040605 / 5040609

Calculation Check:

ppbv of compound $= \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 1770725\ )}{(\ 1709302\ )} \times \frac{(\ 25\ )}{(\ 1003808\ )} =$ 24.948

File ID:	5040602
Compound:	TBI-d8
Initials:	

Reported Result 24.948

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5040601	BFB Tune Check	6023-2402	50 psig	2 µL	1.00		4/6/07	0910		
2	✓	02	CCV # 1487-183A	100 ppbv	50 psig	100 mL	1.00			0948		
3	✓	03	LCS # 1408-38A	"	"	"	"	"		1016		
4	✓	04	Lab Blank	13673	Humid	200 mL	1.00			1128		
5	P	05	Cal Ctrl #5, leg 2	"	"	"	"	"		1224		
6	P	06	Cal Ctrl # 8, leg 1	"	"	"	"	"		1516		
7	✓	07	0703675-01A	33795	6.0" Hg-5psig	200 mL	1.68			1642	RM/CT	
8	✓	08	-01AA	"	"	"	"	"		1714	RM/CT	
9	✓	09	-03A	4098	5.0" Hg-5psig	200 mL	1.61	↓	↓	1748	RM/CT	

Signature

4/6/07
Date

0164

10	✓	5040e 10	0703675 - 02A	34187	6.5"Hg-5psi	200mL	1.71	DM	4/6/07	1818	DM/CT		
11	✓	11	↓ -04A	20950	29.0"Hg-5psi	200mL	1.00			1851	DM/CT		
12	✓	12	0703707A - 01A	31154	7.5"Hg-5psi	4 mL	89.5			1918	DM/CT		
13	✓	13	-02A	4359	1.0"Hg-5psi	200mL	1.39			1951	DM/CT		
14	✓	14	-03A	34492	0.5"Hg-5psi	90 mL	3.02			2019	DM/CT		
15	✓	15	-04A	4167	0.5"Hg-5psi	12 mL	22.7	↓		2051	DM/CT		
16	✓	16	0704026 - 01A	34749	3.5"Hg-5psi	200mL	1.52	DM		2150	DM/CT		
17	✓	17	↓ -02A	33933	3.0"Hg-5psi		1.49			2222	DM/CT		
18	✓	18	0704011 - 01A	34312	5.0"Hg-5psi		1.61			2254	/CT		
19	✓	19	↓ -02A	33981	5.0"Hg-5psi		1.61			2326	/CT		
20	✓	20	0704102 - 01A	34402	5.5"Hg-5psi		1.64		✓	2358	/CT		
21	✓	21	-02A	13856	5.0"Hg-5psi		1.61		4/10/08	0030	/CT		
22	✓	22	-03A	36045	5.0"Hg-5psi		1.61			0103	/CT		
23	✓	23	-04A	34361	28.5"Hg-5psi	↓	1.00	↓	↓	0135	↓/CT	TB	
24	✓	24	-04A	↓	↓	↓	1.00	DM	↓	0709	CT	No not report Confirmation Confirms TLE	
25													
26													
27													
28													
29													
30													
31													
32													

Comments:

4-9-07 CT

C Taylor
Signature

4-9-07
Date

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-04apr.b/5040401.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 04-APR-2007 13:23
Operator : JG Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2912 50 ng
Comment :
Method : /var/chem/msd5.i/5-04apr.b/bfb30.m
Meth Date : 04-Apr-2007 13:16 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	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.875	3.900	-0.025	95	2468856			100.00- 100.00	100.00
3.875	3.900	-0.025	50	890493			15.00- 40.00	36.07
3.875	3.900	-0.025	75	1349508			30.00- 60.00	54.66
3.875	3.900	-0.025	96	166556			5.00- 9.00	6.75
3.875	3.900	-0.025	173	18976			0.00- 2.00	1.14
3.875	3.900	-0.025	174	1665571			50.00- 100.00	67.46
3.875	3.900	-0.025	175	123251			5.00- 9.00	7.40
3.875	3.900	-0.025	176	1605120			95.00- 101.00	96.37
3.875	3.900	-0.025	177	108080			5.00- 9.00	6.73

Data File: /var/chem/msd5.i/5-04apr.b/5040401.d

Date : 04-APR-2007 13:23

Client ID: BFB

Instrument: msd5.i

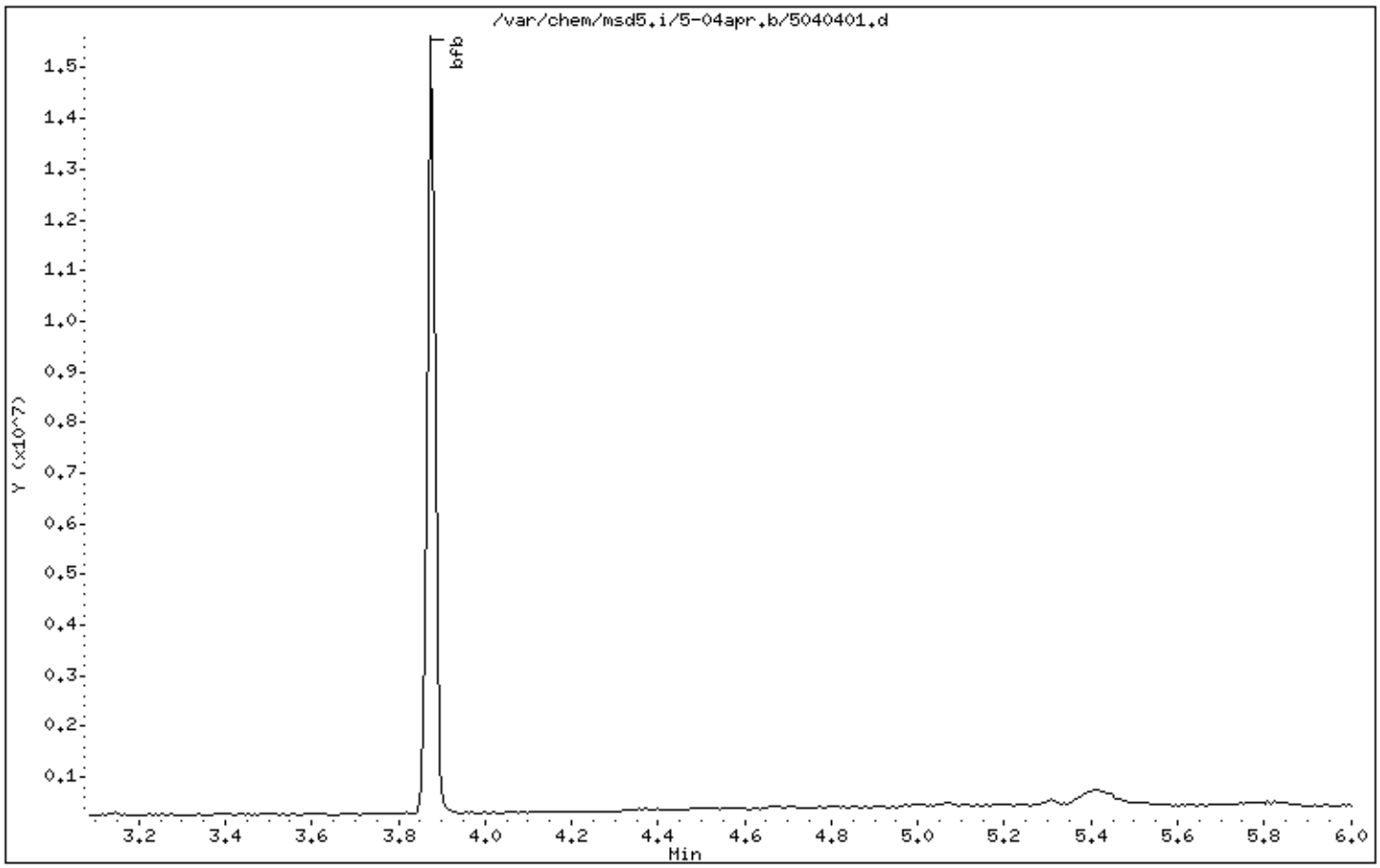
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-04apr.b/5040401.d

Date : 04-APR-2007 13:23

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

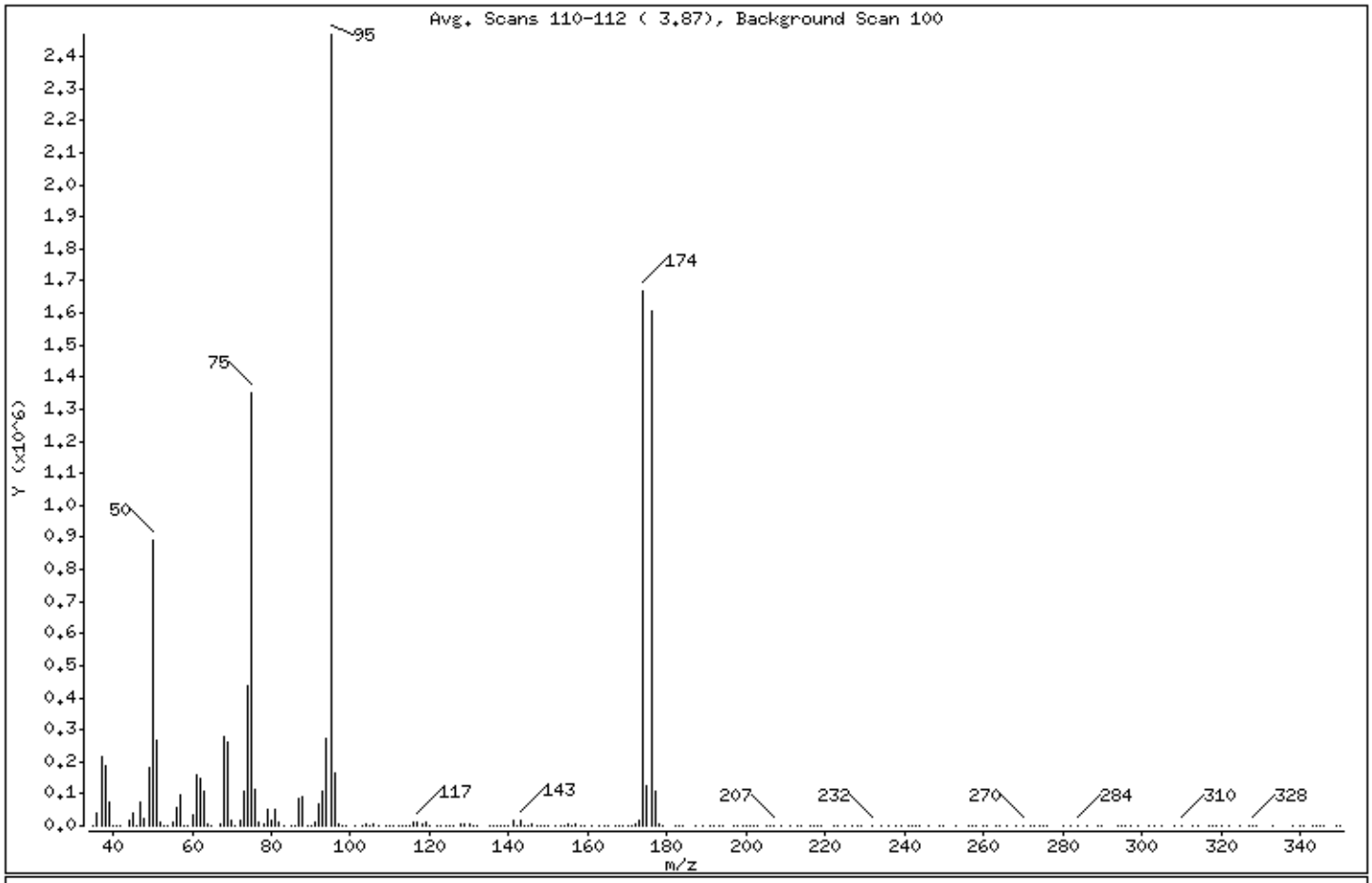
Volume Injected (uL): 1.0

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	36.07
75	30.00 - 60.00% of mass 95	54.66
96	5.00 - 9.00% of mass 95	6.75
173	Less than 2.00% of mass 174	0.77 (1.14)
174	50.00 - 100.00% of mass 95	67.46
175	5.00 - 9.00% of mass 174	4.99 (7.40)
176	95.00 - 101.00% of mass 174	65.01 (96.37)
177	5.00 - 9.00% of mass 176	4.38 (6.73)

Data File: /var/chem/msd5.i/5-04apr.b/5040401.d

Date : 04-APR-2007 13:23

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: 5040401.d
Spectrum: Avg. Scans 110-112 (3.87), Background Scan 100
Location of Maximum: 95.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	26	96.00	166528	164.00	104	249.00	441
36.00	40336	97.00	3110	165.00	135	250.00	22
37.00	212928	98.00	834	167.00	1038	253.00	961
38.00	184576	99.00	546	168.00	881	256.00	105
39.00	71392	101.00	190	169.00	402	257.00	208
40.00	2427	103.00	91	170.00	1229	258.00	256
41.00	706	104.00	7143	171.00	1702	260.00	382
42.00	1349	105.00	2243	172.00	3431	261.00	376
44.00	17216	106.00	7547	173.00	18976	263.00	210
45.00	40744	107.00	1749	174.00	1665536	264.00	425
46.00	1110	109.00	1582	175.00	123248	266.00	313
47.00	73536	110.00	582	176.00	1605120	268.00	414
48.00	22640	111.00	1057	177.00	108080	270.00	1115
49.00	181504	112.00	770	178.00	3194	272.00	255
50.00	890432	113.00	1247	179.00	115	273.00	207
51.00	266496	114.00	85	182.00	401	274.00	321
52.00	10632	115.00	1578	183.00	96	275.00	92
53.00	350	116.00	8859	184.00	92	276.00	90
54.00	828	117.00	9874	187.00	257	280.00	40
55.00	8922	118.00	6900	189.00	46	282.00	425
56.00	54312	119.00	9206	191.00	1086	284.00	520
57.00	97040	120.00	633	192.00	726	286.00	185
58.00	2792	122.00	105	193.00	533	289.00	210
59.00	575	123.00	785	194.00	763	290.00	76
60.00	32984	124.00	1285	197.00	747	294.00	435
61.00	156608	125.00	248	198.00	671	295.00	277
62.00	148160	126.00	1125	199.00	127	296.00	40
63.00	110280	128.00	7671	200.00	112	297.00	478
64.00	7948	129.00	3585	201.00	284	299.00	73
65.00	1484	130.00	8334	202.00	462	302.00	210
67.00	7757	131.00	2356	203.00	508	303.00	108
68.00	277248	132.00	834	205.00	672	305.00	121
69.00	263360	135.00	2788	206.00	884	308.00	120
70.00	16576	136.00	1118	207.00	1935	310.00	378
71.00	516	137.00	2709	209.00	271	313.00	290

Date : 04-APR-2007 13:23

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: 5040401.d
Spectrum: Avg. Scans 110-112 (3.87), Background Scan 100
Location of Maximum: 95.00
Number of points: 229

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	15020	138.00	527	211.00	384	314.00	111
73.00	109176	139.00	900	213.00	448	317.00	93
74.00	436608	140.00	1579	214.00	318	318.00	128
75.00	1349120	141.00	19256	216.00	46	319.00	133
76.00	114312	142.00	2114	217.00	315	320.00	125
77.00	12739	143.00	19368	218.00	453	322.00	88
78.00	8246	144.00	1706	219.00	476	325.00	250
79.00	52520	145.00	1699	222.00	259	327.00	343
80.00	14392	146.00	3798	223.00	407	328.00	776
81.00	50680	147.00	2092	225.00	717	329.00	604
82.00	9371	148.00	2727	227.00	347	333.00	57
83.00	1517	149.00	87	228.00	195	338.00	161
85.00	647	150.00	2727	229.00	231	340.00	162
86.00	2002	152.00	1583	232.00	1847	341.00	269
87.00	85632	153.00	1759	234.00	401	343.00	36
88.00	89088	154.00	764	236.00	228	344.00	562
89.00	457	155.00	5886	238.00	92	345.00	530
90.00	461	156.00	412	239.00	1009	346.00	308
91.00	9044	157.00	3123	241.00	122	349.00	94
92.00	66256	158.00	409	242.00	329	350.00	116
93.00	105024	159.00	2087	243.00	469		
94.00	274176	161.00	1492	244.00	75		
95.00	2468352	163.00	197	246.00	220		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-05apr.b/5040501.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 05-APR-2007 11:55
Operator : JG Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2912 50 ng
Comment :
Method : /var/chem/msd5.i/5-05apr.b/bfb30.m
Meth Date : 05-Apr-2007 11:49 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	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.882	3.900	-0.018	95	2153943			100.00- 100.00	100.00
3.882	3.900	-0.018	50	746110			15.00- 40.00	34.64
3.882	3.900	-0.018	75	1176797			30.00- 60.00	54.63
3.882	3.900	-0.018	96	139857			5.00- 9.00	6.49
3.882	3.900	-0.018	173	19516			0.00- 2.00	1.27
3.882	3.900	-0.018	174	1534245			50.00- 100.00	71.23
3.882	3.900	-0.018	175	116826			5.00- 9.00	7.61
3.882	3.900	-0.018	176	1496305			95.00- 101.00	97.53
3.882	3.900	-0.018	177	96291			5.00- 9.00	6.44

Data File: /var/chem/msd5.i/5-05apr.b/5040501.d

Page 1

Date : 05-APR-2007 11:55

Client ID: BFB

Instrument: msd5.i

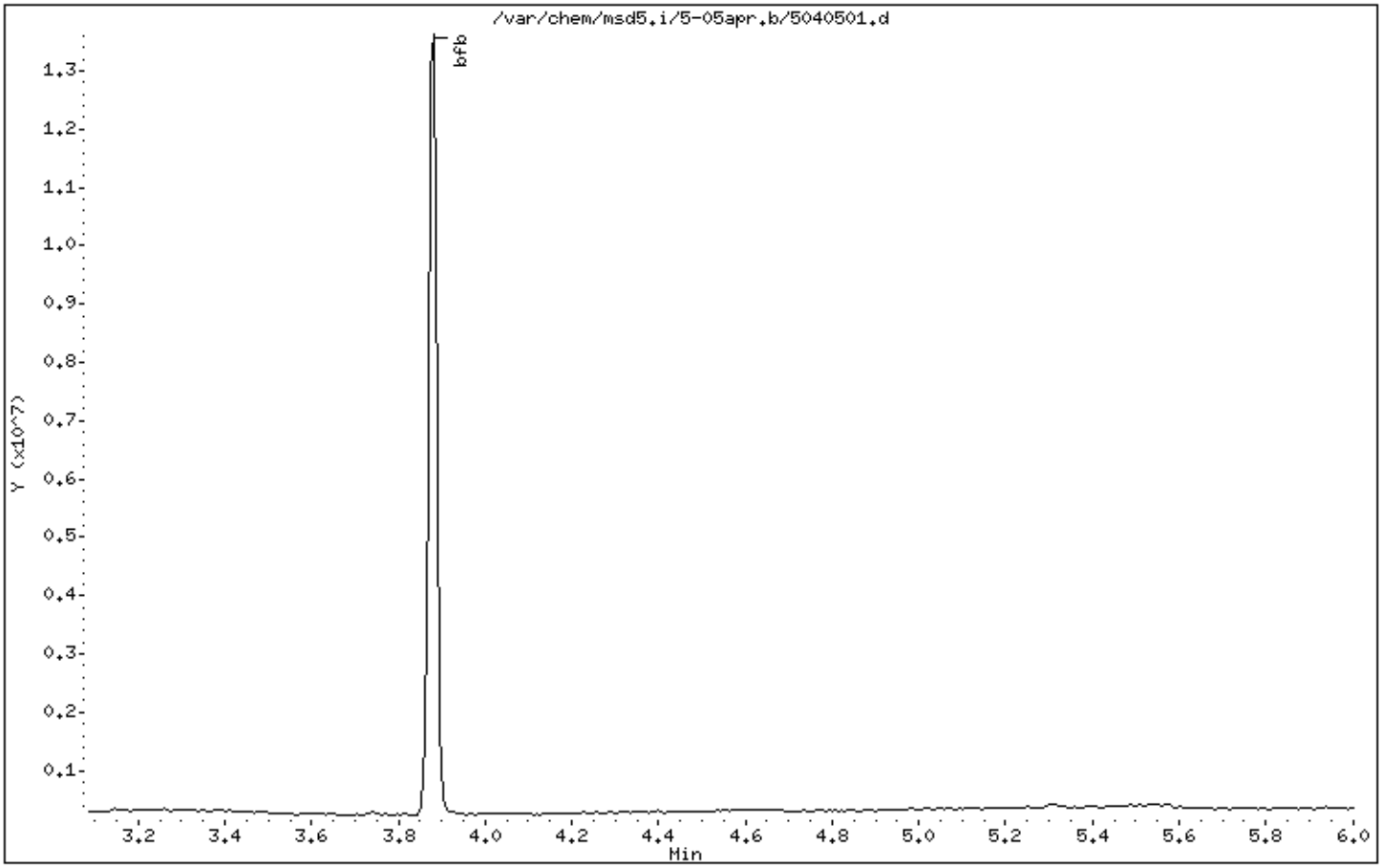
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-05apr.b/5040501.d

Date : 05-APR-2007 11:55

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

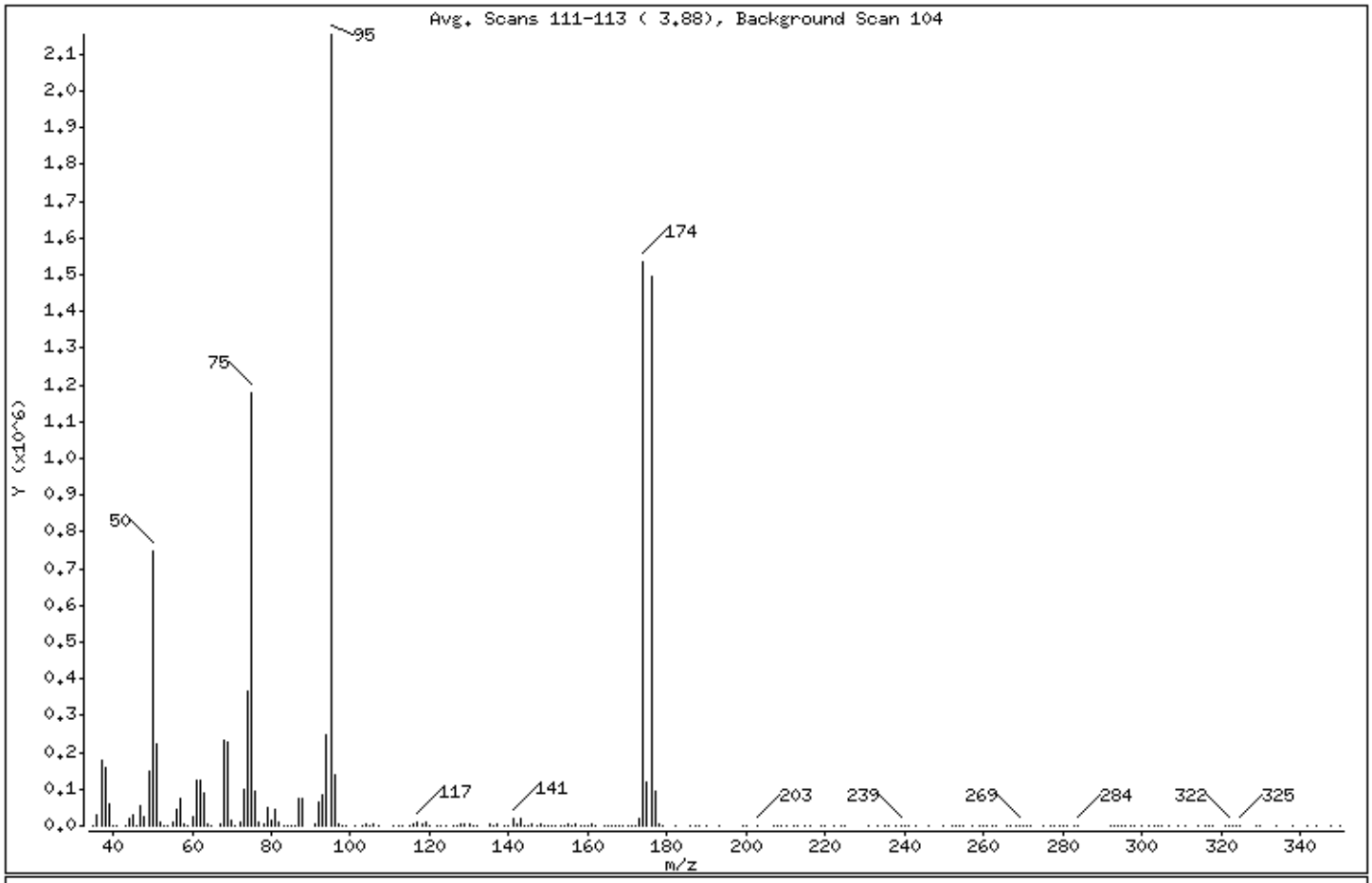
Volume Injected (uL): 1.0

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	34.64
75	30.00 - 60.00% of mass 95	54.63
96	5.00 - 9.00% of mass 95	6.49
173	Less than 2.00% of mass 174	0.91 (1.27)
174	50.00 - 100.00% of mass 95	71.23
175	5.00 - 9.00% of mass 174	5.42 (7.61)
176	95.00 - 101.00% of mass 174	69.47 (97.53)
177	5.00 - 9.00% of mass 176	4.47 (6.44)

Date : 05-APR-2007 11:55

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: 5040501.d
Spectrum: Avg. Scans 111-113 (3.88), Background Scan 104
Location of Maximum: 95.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	380	94.00	246528	160.00	399	255.00	51
36.00	29256	95.00	2153472	161.00	2650	257.00	190
37.00	179136	96.00	139840	162.00	877	259.00	344
38.00	160576	97.00	4714	164.00	682	260.00	1090
39.00	61344	98.00	643	165.00	183	261.00	277
40.00	578	99.00	254	166.00	36	262.00	19
41.00	1565	101.00	26	167.00	486	263.00	158
43.00	2364	103.00	908	168.00	163	266.00	597
44.00	20424	104.00	7297	169.00	293	267.00	105
45.00	29000	105.00	968	170.00	1083	268.00	114
46.00	2350	106.00	6223	171.00	2194	269.00	2202
47.00	55688	107.00	1503	172.00	1121	270.00	410
48.00	22544	111.00	1787	173.00	19512	271.00	1170
49.00	149376	112.00	565	174.00	1533952	272.00	443
50.00	746048	113.00	1461	175.00	116824	275.00	15
51.00	223808	115.00	1721	176.00	1496064	277.00	121
52.00	8496	116.00	7274	177.00	96288	278.00	319
53.00	209	117.00	10981	178.00	2491	279.00	272
54.00	656	118.00	6342	179.00	17	280.00	318
55.00	8104	119.00	7850	182.00	232	281.00	80
56.00	44752	120.00	831	186.00	251	283.00	535
57.00	75248	122.00	76	187.00	187	284.00	615
58.00	3985	123.00	342	188.00	293	292.00	239
59.00	388	124.00	1575	190.00	387	293.00	96
60.00	24584	126.00	878	193.00	500	294.00	146
61.00	125184	127.00	698	199.00	222	295.00	88
62.00	125744	128.00	6952	200.00	122	296.00	227
63.00	90880	129.00	2895	203.00	727	297.00	140
64.00	6183	130.00	7333	207.00	86	298.00	217
65.00	576	131.00	2211	208.00	559	300.00	130
67.00	6123	132.00	711	209.00	465	302.00	349
68.00	233856	135.00	3360	210.00	176	303.00	333
69.00	225920	136.00	835	212.00	103	304.00	60
70.00	14114	137.00	4225	213.00	73	305.00	184
71.00	1293	139.00	810	215.00	345	307.00	54

Date : 05-APR-2007 11:55

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: 5040501.d
Spectrum: Avg. Scans 111-113 (3.88), Background Scan 104
Location of Maximum: 95.00
Number of points: 219

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	10041	140.00	1762	216.00	22	309.00	280
73.00	97472	141.00	20544	219.00	378	311.00	388
74.00	366272	142.00	2977	220.00	294	314.00	134
75.00	1176576	143.00	17520	222.00	40	316.00	203
76.00	92016	144.00	1923	224.00	221	317.00	291
77.00	10863	145.00	870	225.00	34	318.00	221
78.00	4887	146.00	3015	231.00	224	321.00	146
79.00	47672	147.00	643	233.00	448	322.00	441
80.00	12789	148.00	3134	235.00	175	323.00	407
81.00	44200	149.00	1326	236.00	412	324.00	574
82.00	8675	150.00	2051	238.00	415	325.00	831
83.00	1151	151.00	5	239.00	793	329.00	36
84.00	301	152.00	435	240.00	157	330.00	224
85.00	533	153.00	1091	241.00	126	334.00	15
86.00	1507	154.00	1470	243.00	442	338.00	220
87.00	76056	155.00	4087	246.00	360	342.00	736
88.00	74704	156.00	210	250.00	28	344.00	137
91.00	5707	157.00	4249	252.00	80	348.00	90
92.00	62776	158.00	480	253.00	620	350.00	150
93.00	82776	159.00	1187	254.00	762		

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-06apr.b/5040601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 06-APR-2007 09:10
Operator : JG Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2912 50 ng
Comment :
Method : /var/chem/msd5.i/5-06apr.b/bfb30.m
Meth Date : 06-Apr-2007 09:03 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	CONCENTRATIONS FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
3.875	3.900	-0.025	95	2804809			100.00- 100.00	100.00
3.875	3.900	-0.025	50	946093			15.00- 40.00	33.73
3.875	3.900	-0.025	75	1487531			30.00- 60.00	53.04
3.875	3.900	-0.025	96	187496			5.00- 9.00	6.68
3.875	3.900	-0.025	173	27678			0.00- 2.00	1.43
3.875	3.900	-0.025	174	1940190			50.00- 100.00	69.17
3.875	3.900	-0.025	175	148709			5.00- 9.00	7.66
3.875	3.900	-0.025	176	1870553			95.00- 101.00	96.41
3.875	3.900	-0.025	177	116911			5.00- 9.00	6.25

Data File: /var/chem/msd5.i/5-06apr.b/5040601.d

Date : 06-APR-2007 09:10

Client ID: BFB

Instrument: msd5.i

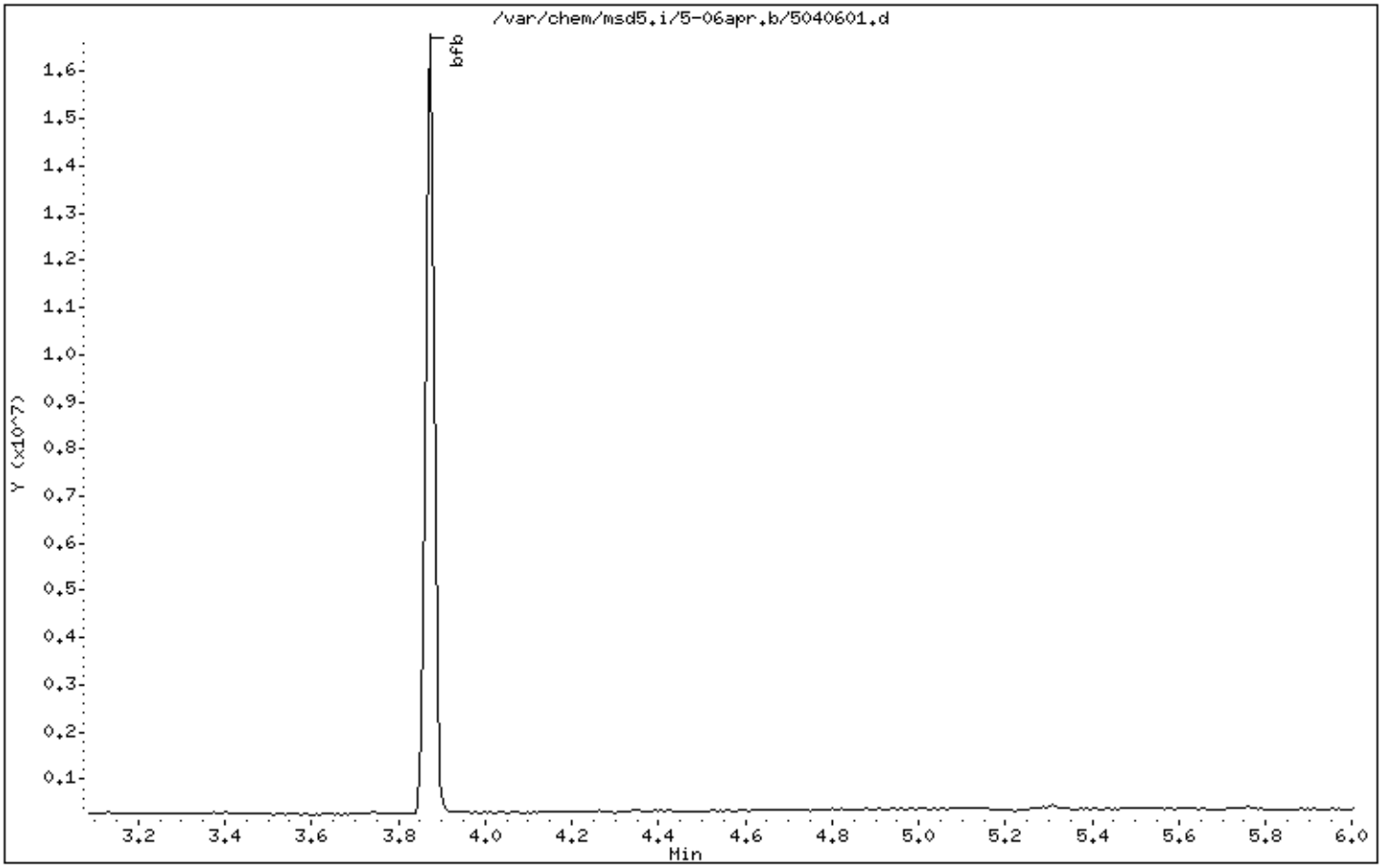
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: JG

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-06apr.b/5040601.d

Date : 06-APR-2007 09:10

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

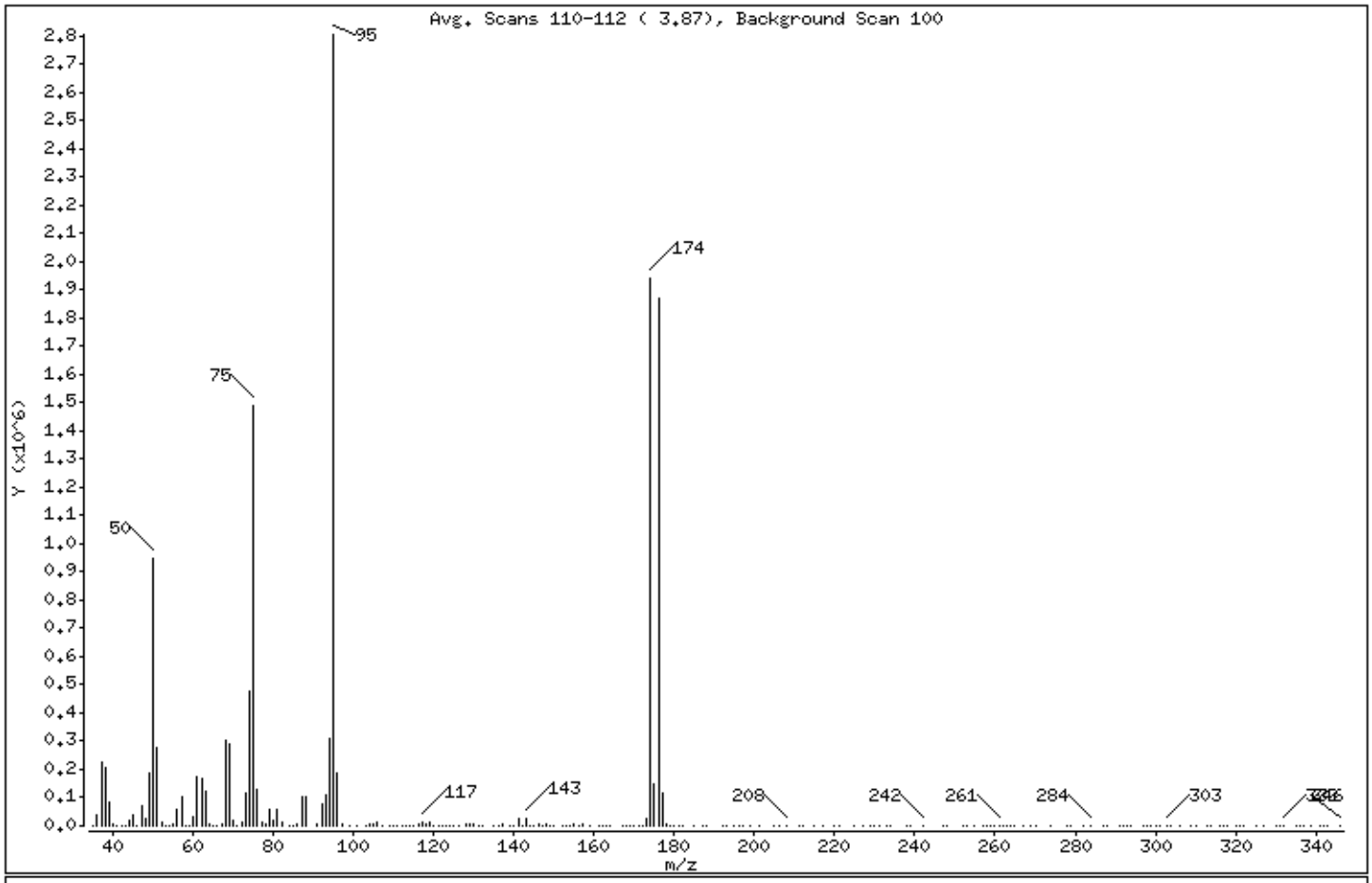
Volume Injected (uL): 1.0

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	33.73
75	30.00 - 60.00% of mass 95	53.04
96	5.00 - 9.00% of mass 95	6.68
173	Less than 2.00% of mass 174	0.99 (1.43)
174	50.00 - 100.00% of mass 95	69.17
175	5.00 - 9.00% of mass 174	5.30 (7.66)
176	95.00 - 101.00% of mass 174	66.69 (96.41)
177	5.00 - 9.00% of mass 176	4.17 (6.25)

Data File: /var/chem/msd5.i/5-06apr.b/5040601.d

Date : 06-APR-2007 09:10

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: 5040601.d
Spectrum: Avg. Scans 110-112 (3.87), Background Scan 100
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	374	94.00	310848	161.00	2307	259.00	111
36.00	40608	95.00	2804736	162.00	191	260.00	642
37.00	226176	96.00	187456	163.00	1080	261.00	673
38.00	208896	97.00	4382	164.00	611	262.00	632
39.00	81304	99.00	285	167.00	1095	263.00	84
40.00	4157	101.00	412	168.00	408	264.00	268
41.00	655	103.00	751	169.00	626	265.00	257
42.00	228	104.00	8799	170.00	1807	267.00	141
43.00	1592	105.00	3387	171.00	1949	269.00	250
44.00	20904	106.00	9875	172.00	2949	270.00	152
45.00	41704	107.00	1781	173.00	27672	274.00	214
46.00	2103	109.00	752	174.00	1939968	278.00	194
47.00	70008	110.00	1307	175.00	148672	279.00	47
48.00	23600	111.00	1605	176.00	1870336	282.00	144
49.00	185280	112.00	470	177.00	116904	284.00	735
50.00	946048	113.00	1076	178.00	3633	287.00	228
51.00	277760	114.00	163	179.00	575	288.00	92
52.00	13147	115.00	2366	180.00	601	291.00	100
53.00	485	116.00	8290	181.00	602	292.00	375
54.00	60	117.00	14050	182.00	324	293.00	103
55.00	7930	118.00	7152	185.00	365	294.00	322
56.00	54952	119.00	11746	187.00	310	297.00	176
57.00	104984	120.00	208	188.00	478	298.00	64
58.00	3081	121.00	499	192.00	149	299.00	310
59.00	1418	122.00	523	193.00	311	300.00	164
60.00	33856	123.00	445	195.00	960	301.00	73
61.00	173568	124.00	2188	196.00	103	303.00	371
62.00	164608	125.00	736	197.00	127	304.00	168
63.00	120560	126.00	1384	199.00	331	306.00	230
64.00	8828	128.00	8735	201.00	212	309.00	71
65.00	746	129.00	4544	205.00	101	310.00	52
66.00	368	130.00	7944	206.00	225	313.00	214
67.00	8127	131.00	2153	208.00	965	314.00	53
68.00	299968	132.00	549	211.00	262	316.00	109
69.00	293056	135.00	2606	212.00	181	317.00	28

Date : 06-APR-2007 09:10

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: 5040601.d
Spectrum: Avg. Scans 110-112 (3.87), Background Scan 100
Location of Maximum: 95.00
Number of points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	19736	136.00	446	215.00	34	318.00	169
71.00	1257	137.00	3998	217.00	259	320.00	98
72.00	12771	139.00	1535	220.00	230	321.00	154
73.00	118600	140.00	1070	221.00	23	322.00	27
74.00	478656	141.00	22840	225.00	174	325.00	157
75.00	1487360	142.00	1927	227.00	69	327.00	421
76.00	127568	143.00	24600	229.00	393	330.00	419
77.00	14870	144.00	1721	230.00	16	331.00	11
78.00	9434	145.00	2454	231.00	329	332.00	450
79.00	58552	146.00	3694	233.00	267	335.00	30
80.00	16341	147.00	1413	234.00	140	336.00	239
81.00	59968	148.00	5184	238.00	148	337.00	337
82.00	10823	149.00	1245	239.00	125	339.00	167
84.00	207	150.00	1943	242.00	463	341.00	112
85.00	413	152.00	2027	247.00	51	342.00	251
86.00	3262	153.00	1503	248.00	216	343.00	165
87.00	101816	154.00	1780	252.00	155	346.00	205
88.00	100568	155.00	5442	253.00	372		
91.00	8199	156.00	367	255.00	4		
92.00	75592	157.00	3733	257.00	186		
93.00	111696	159.00	2964	258.00	77		

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 #: 0704011
# of pages (Including Cover): 1

4/18/2007

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 **Kelly Buettner 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:

Sample identifications for the samples were not provided on the sample tags. Identification was based by matching the canister number between the Chain of Custody and the canister. The canister number was used to process and report the samples.

Your prompt response is appreciated.

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

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

Page 1 of 1

0182

Contact Project Manager: Karen Swartz
Collected by: (Print and Sign) Anthony Parisi
Company: GEI Consultants Email: kswartz@geiconsultants.com
Address: City: State: Zip:
Phone: Fax:

Project Info:
P.O. #:
Project #: 061410-8-1703
Project Name: Bay Shore 001 S. Cell

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: VFR
Date: 4/3/07
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Inital	Final	Receipt	Final (psi)
01A		34312	3/29/07	–	TO15 + Naphthalene	30 +	-8.0 "Hg	5.0 "Hg	5.0 psi
02A		33981	3/29/07	–	TO15 + Naphthalene	30 +	-7.5 "Hg	5.0 "Hg	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	3/29/07 3:30pm	[signature]	4/2/07 0910
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Shipment includes samples + 2 used flow controllers

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	859524351104	NA	good	Yes No (None)	0704011

Form 1253 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0704011

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: 04/16/07
Date Completed: 4/13/07
Date Received: 4/2/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 S.Cell

Sales Rep: ANS

Total $: $ 620.00
Logged By: TEL

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	34312	Modified TO-15	3/29/2007	5.0 "Hg	$225.00
02A	33981	Modified TO-15	3/29/2007	5.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each.	$100.00
	Blue Body Flow Controller (2) @ $35.00 each.	$70.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Keyspan -Bayshore Southern Cell IRM/9699

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

Analysis Code: TO-14A

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

If Section III or IV is filled out CSR must be notified within 24 hrs of initiation

Initiated By: Lee Date: 4/2/07 Given To: _____ ☐ File to folder

Sections I – II/III/IV must be filled out by person initiating this Sample Discrepancy Report

0704011

I. Workorder(s) affected: _____

Sample(s) affected: 01A, 02A

II. Sample Receipt Discrepancies ***(Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative)***

- ☐ COC improperly relinquished / received.
- ☐ COC was not filled out in ink.
- ☐ Sample tags / labels do not match the COC.
- ☐ Samples received at wrong temperature (≠ 4±2 °C); ice / blue ice (circle one) was present. A temp. blank was / was *not* present (circle one).
- ☐ Sample container (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 (*do not narrate*).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm (*do not narrate*).
- ☒ Other (describe below).

Describe the Discrepancy: No sample IDs (on COC or tags). Can't used to distinguish samples.

Initials: _____ **Date:** _____

III. Sample Receipt Discrepancies requiring CSR notification ***(document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative)***

- ☐ 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 is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with discernable volume of H_2O in the Tedlar Bag.
- ☐ Sample container (Tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (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 leaked to ambient during pressurization.
- ☐ 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.
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: _____

Initials: _____ **Date:** _____

Other Records

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

DILUTION FACTORS

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

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

Initial Vacuum ("Hg)	**5 psi** Final Press. Dil. Factor	**10 psi** Final Press. Dil. Factor	**15 psi** Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

DATA REVIEW CHECKLIST

Work Order #: 0704011

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

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

A	R	T	M	Q	Item
☑	see report	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☑	☐	☐	☐	Hold time is met for all samples
	☑	☐	☐	☐	Appropriate data qualifier flags are applied
	NA	☐	☐	☐	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

A	R	T	M	Q	Item
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)
	NA	☐			TICs resemble reference spectra
	☐	☐			TICs between duplicate samples are consistent
☑	☐	☐	☐		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☐		Special units for all samples in the final report are correctly calculated
	☐	☐	☐		Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☑		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
				☐	Verify sample id's vs. chain of custody
☑	☑				Samples pressurized w/ appropriate gas (N2 or He) — N2 circled ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L) — 6L circled
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	NA		NA		Extra printed copies are provided per client profile
	NA		NA		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: Ø 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)
[signature] 4/9/07	R: HABailey 4-13-07	NM 4/13/07	
	T:		

Note (1): **Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.** Rev. 08/20/05

Note (2): **Management reviewer and reporting reviewer must be separate individuals.**

Not Applicable