
Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 0709497

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Comments:

Completed by:

Kara McKiernan — Kara McKiernan / Document Control — 10/12/07

(Signature) (Print Name & Title) (Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0709497

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 Bay Shore OU2 Air Monitoring
DATE RECEIVED:	09/24/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	10/05/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	AMS5 DW	Modified TO-15	6.5 "Hg
02A	AMS1 UW	Modified TO-15	6.5 "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: 10/05/07

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: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0709497

Two 6 Liter Summa Canister samples were received on September 24, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
AMS5 DW	0709497-01A	9/19/2007	9/24/2007	NA	12	10/ 1/2007	NA	Good
AMS1 UW	0709497-02A	9/19/2007	9/24/2007	NA	12	10/ 1/2007	NA	Good
Lab Blank	0709497-03A	NA	NA	NA	NA	10/ 1/2007	NA	Good
CCV	0709497-04A	NA	NA	NA	NA	10/ 1/2007	NA	Good
LCS	0709497-05A	NA	NA	NA	NA	10/ 1/2007	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: AMS5 DW

Lab ID#: 0709497-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	3.4	12	8.1	27
2-Butanone (Methyl Ethyl Ketone)	0.86	0.95	2.5	2.8
Tetrahydrofuran	0.86	1.2	2.5	3.5
Ethanol	3.4	4.1	6.4	7.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS5 DW

Lab ID#: 0709497-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100109**	**Date of Collection: 9/19/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/1/07 03:43 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS5 DW

Lab ID#: 0709497-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100109**	**Date of Collection: 9/19/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/1/07 03:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	12	8.1	27
Carbon Disulfide	0.86	Not Detected	2.7	Not Detected
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	0.95	2.5	2.8
Tetrahydrofuran	0.86	1.2	2.5	3.5
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	4.1	6.4	7.7
Methyl tert-butyl ether	0.86	Not Detected U J	3.1	Not Detected U J
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-01oct.b/5100109.d
Lab Smp Id: 0709497-01A
Inj Date : 01-OCT-2007 15:43
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #34418
Misc Info : 6.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-01oct.b/t14q928a.m
Meth Date : 01-Oct-2007 13:05 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	328590	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	263254			52.20- 112.20	80.12
8.059	8.059 (1.000)	49	749599			206.34- 266.34	228.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1265051	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	206958			0.00- 47.36	16.36
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1022594	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	589810			28.84- 88.84	57.68
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	484847	23.3622	23.362	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	239295			28.76- 88.76	49.35
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1106060	24.7682	24.768	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	108843			0.00- 39.82	9.84

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	708175			40.57- 100.57	64.03
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	463541	22.5158	22.516	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	754763			134.87- 194.87	162.83
16.575	16.575 (1.105)	176	443736			65.46- 125.46	95.73
26 Ethanol					CAS #: 64-17-5		
4.161	4.105 (0.516)	45	19902	2.38808	4.084	80.00- 120.00	100.00
4.161	4.105 (0.516)	43	1768			0.00- 48.45	8.89
4.133	4.105 (0.513)	46	5854			13.44- 73.44	29.42
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	83946	6.75279	11.547	80.00- 120.00	100.00
4.769	4.741 (0.592)	43	275787			280.82- 340.82	328.53
67 2-Butanone					CAS #: 78-93-3		
7.700	7.672 (0.955)	72	4052	0.55344	0.9464	80.00- 120.00	100.00
7.700	7.672 (0.955)	43	28237			609.36- 669.36	696.70
7.672	7.672 (0.952)	57	1683			13.65- 73.65	41.55
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.031 (1.000)	42	22372	0.68809	1.177	80.00- 120.00	100.00
8.059	8.031 (1.000)	71	4414			0.00- 53.13	19.73
8.032	8.031 (0.997)	72	4666			0.00- 55.26	20.86

Report Date: 05-Oct-2007 14:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100109.d
Lab Smp Id: 0709497-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 6.5"Hg -> 5psi

Calibration Date: 01-OCT-2007
Calibration Time: 11:03

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	340368	204221	476515	328590	-3.46
92 1,4-Difluorobenze	1328794	797276	1860312	1265051	-4.80
125 Chlorobenzene-d5	1041725	625035	1458415	1022594	-1.84

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

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

Report Date: 05-Oct-2007 14:33

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-01oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709497-01A
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 6.5"Hg -> 5psi

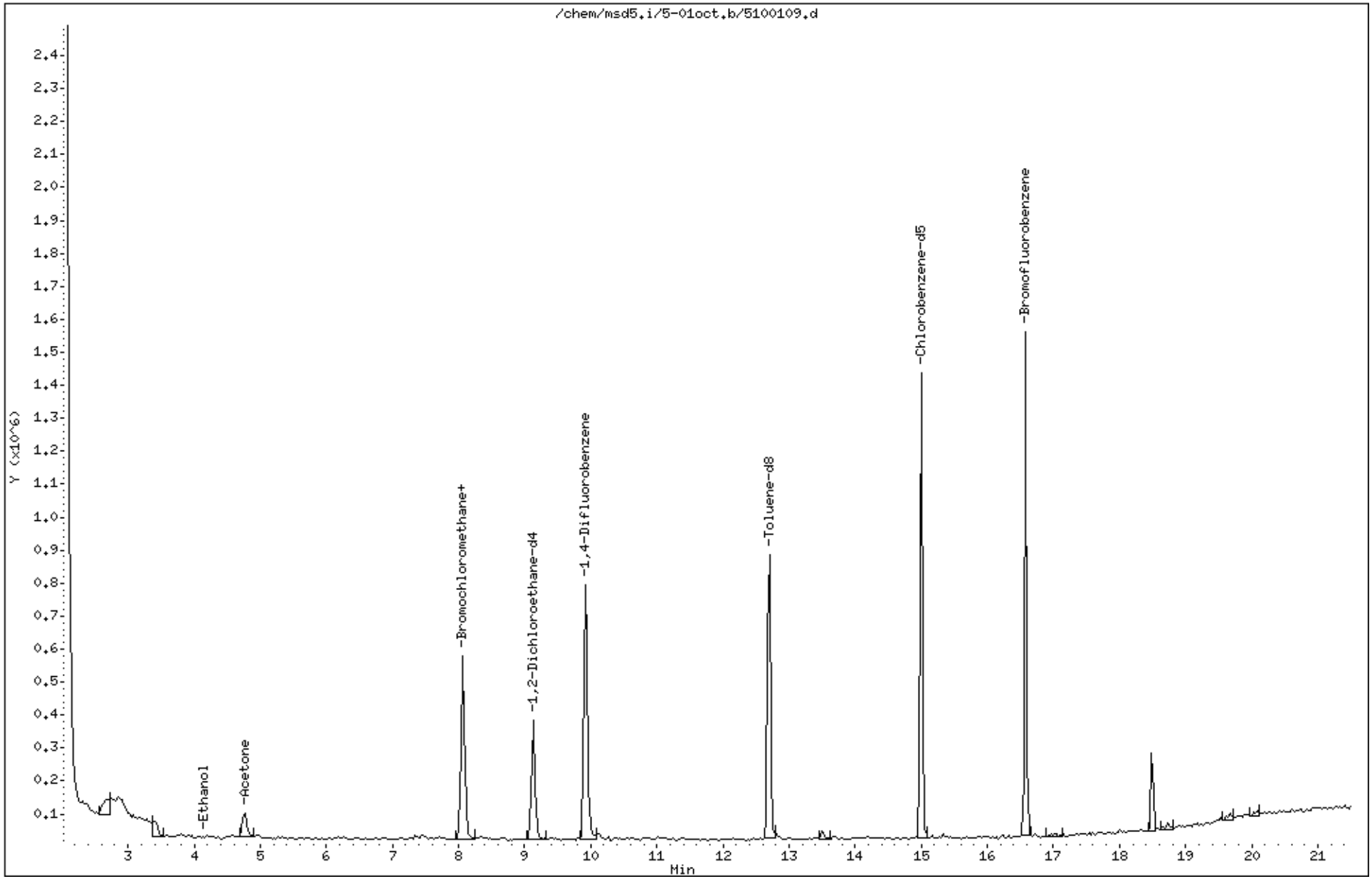
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.362	93.45	70-130
$ 107 Toluene-d8	25.000	24.768	99.07	70-130
$ 138 Bromofluorobenzene	25.000	22.516	90.06	70-130

0013

Data File: /chem/msd5.i/5-01oct.b/5100109.d
Date : 01-OCT-2007 15:43
Client ID:
Sample Info: 200ml #34418

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

Column phase: RTx-624



Data File: /chem/msd5.i/5-01oct.b/5100109.d

Date : 01-OCT-2007 15:43

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34418

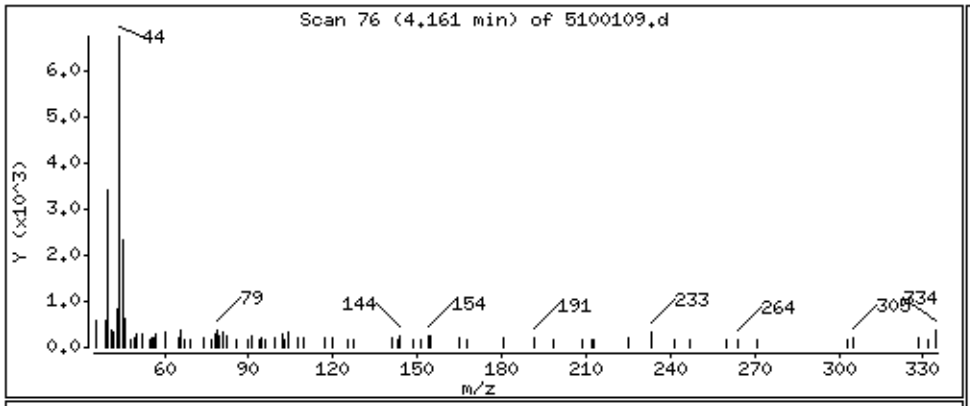
Operator: lmr

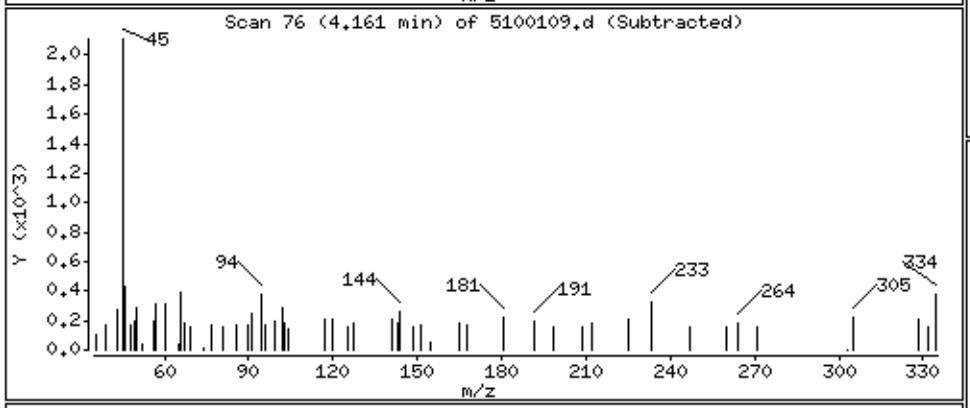
Column phase: RTx-624

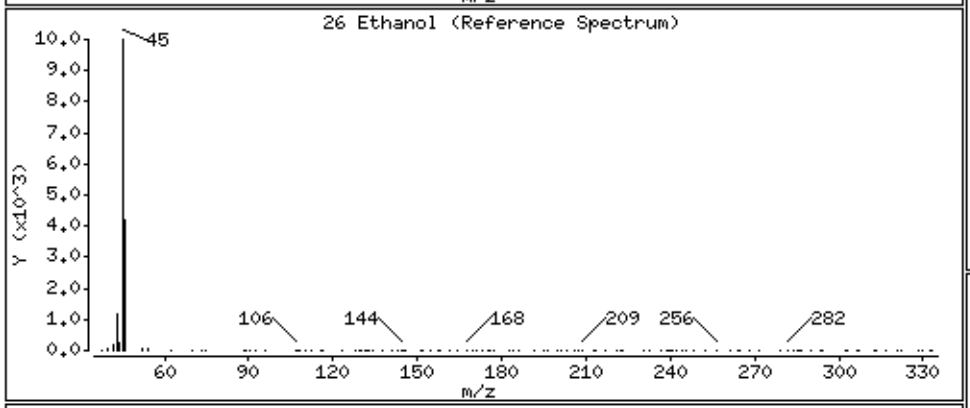
Column diameter: 0.53

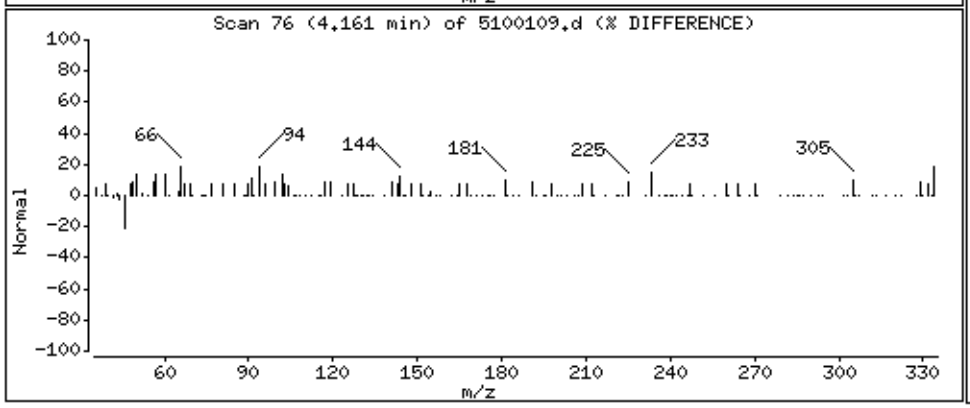
26 Ethanol

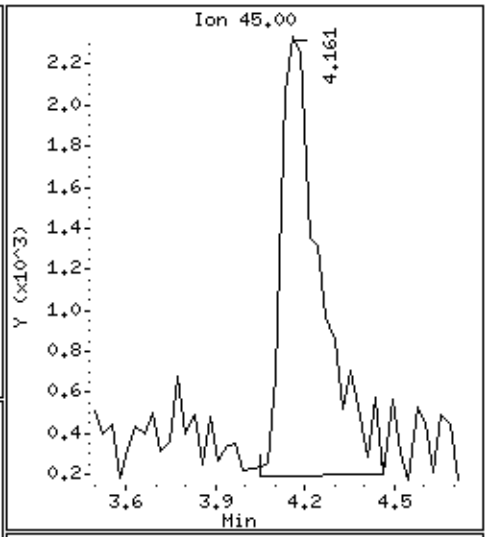
Concentration: 4.084 PPBV

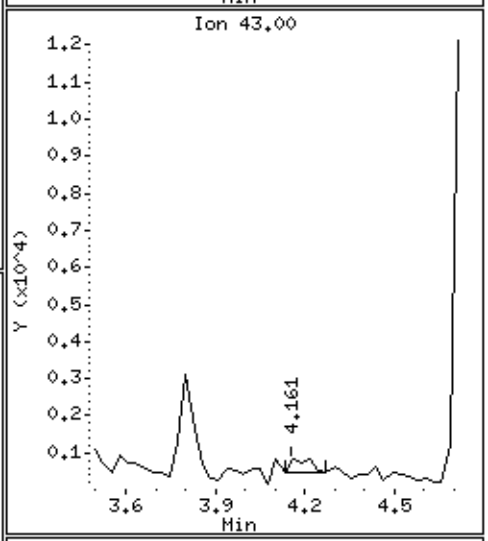


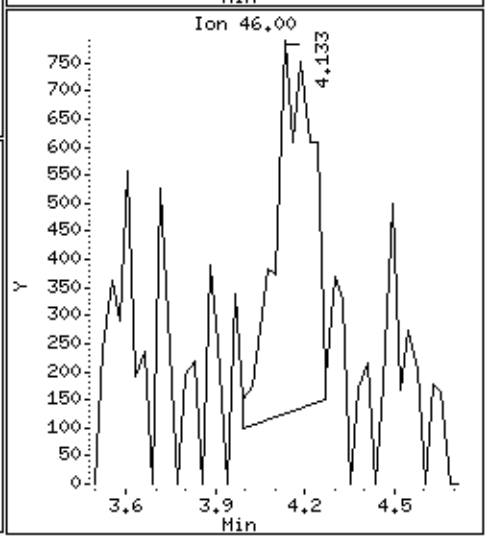












Data File: /chem/msd5.i/5-01oct.b/5100109.d

Date : 01-OCT-2007 15:43

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34418

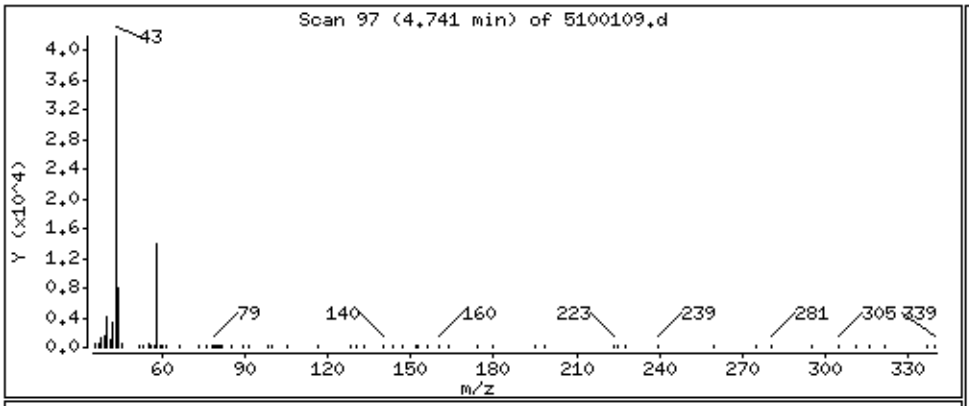
Operator: lmr

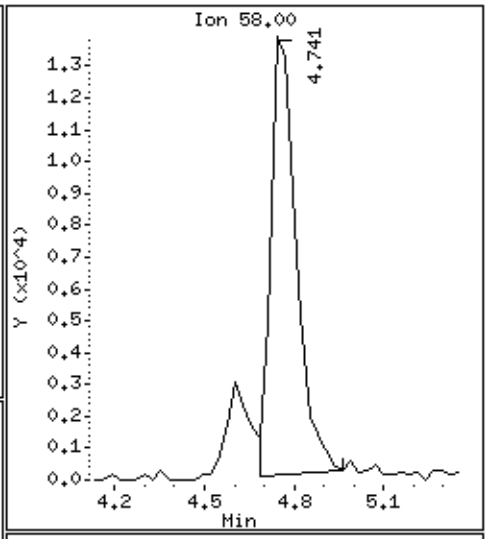
Column phase: RTx-624

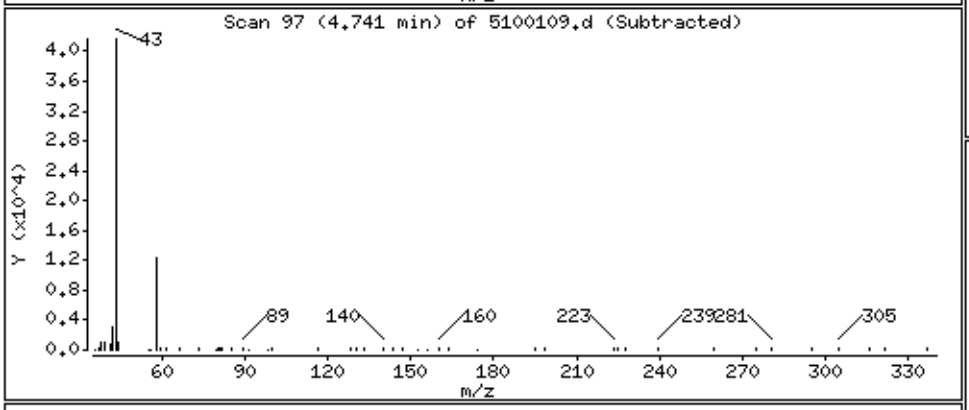
Column diameter: 0.53

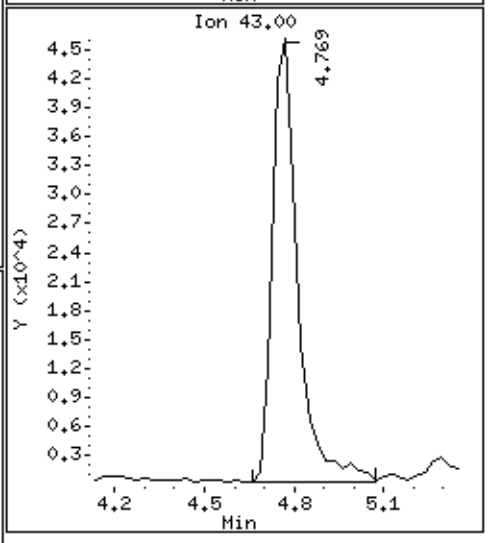
32 Acetone

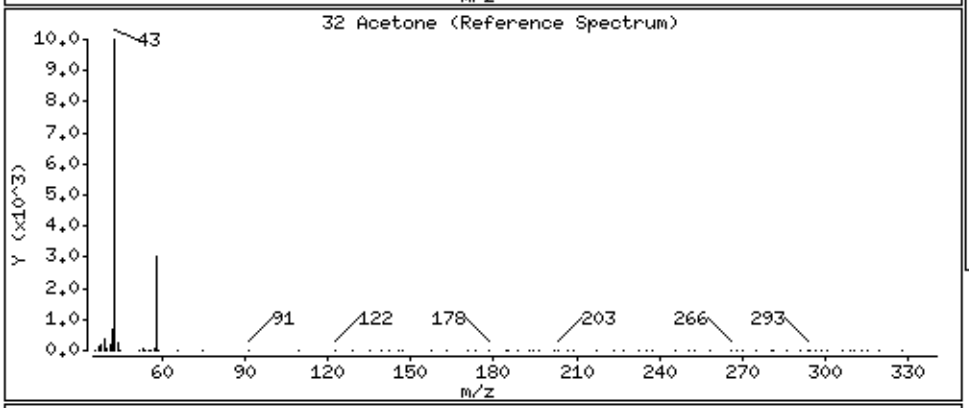
Concentration: 11.547 PPBV

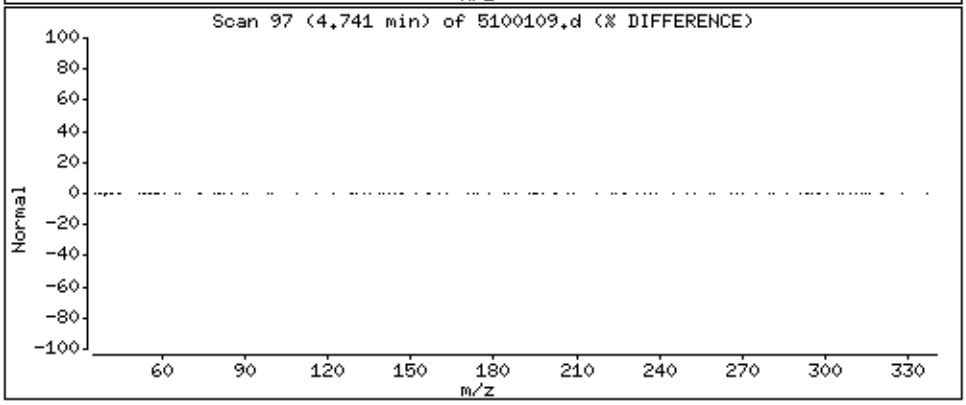












Data File: /chem/msd5.i/5-01oct.b/5100109.d

Date : 01-OCT-2007 15:43

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34418

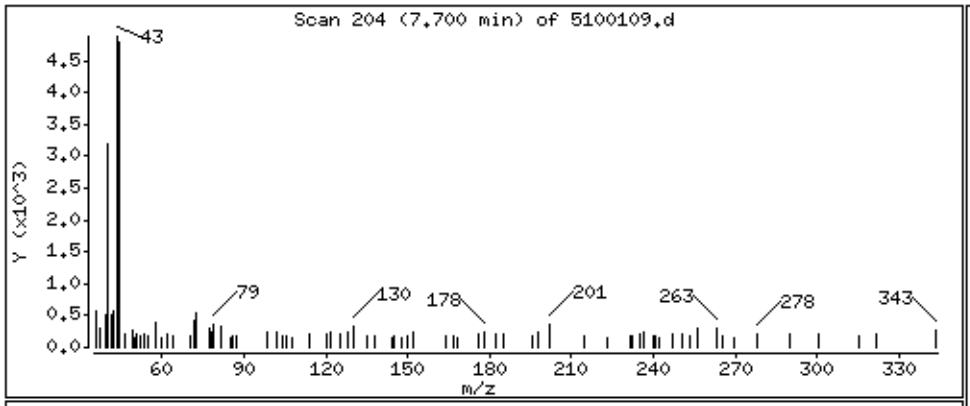
Operator: lmr

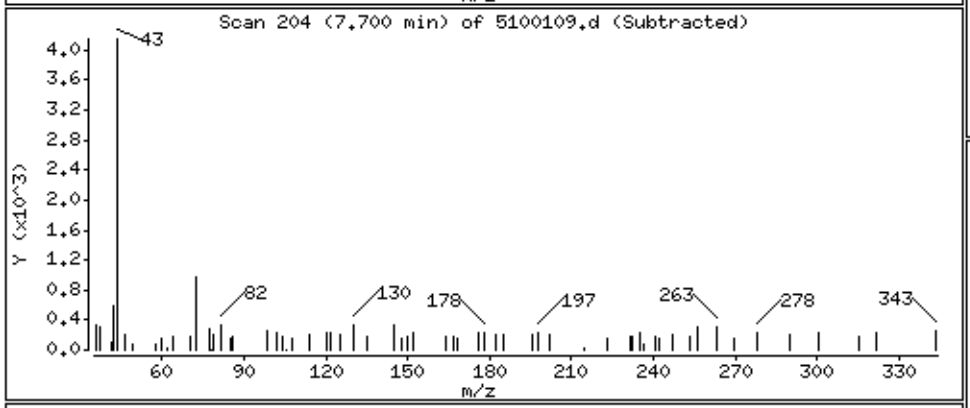
Column phase: RTx-624

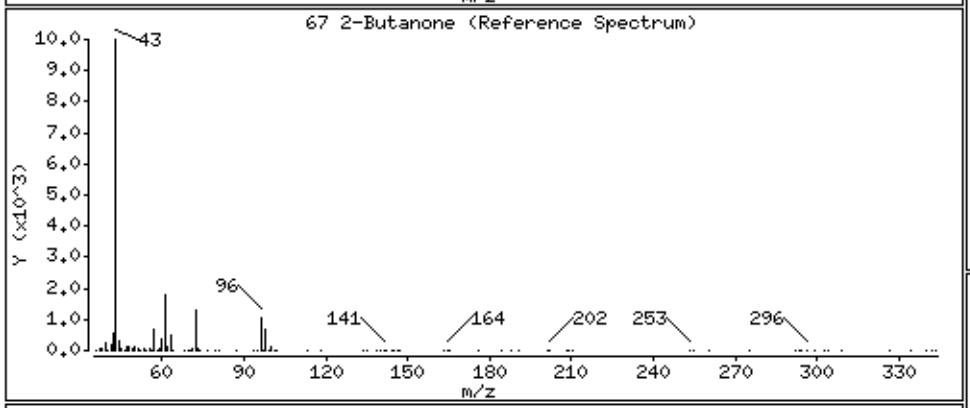
Column diameter: 0.53

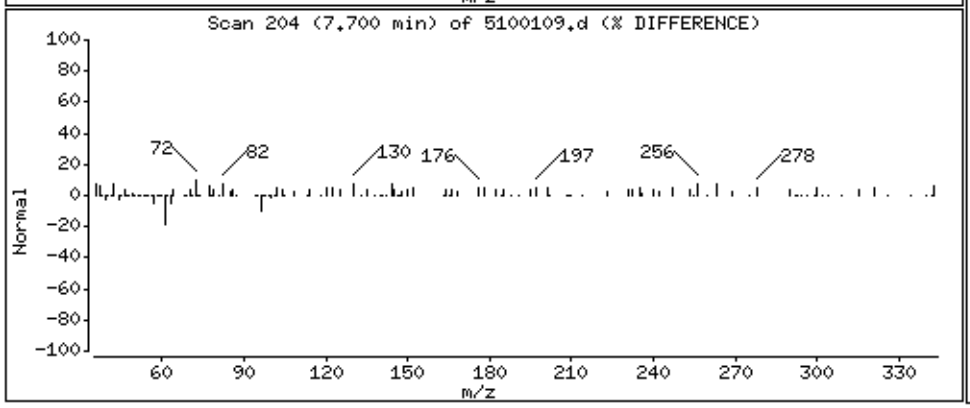
67 2-Butanone

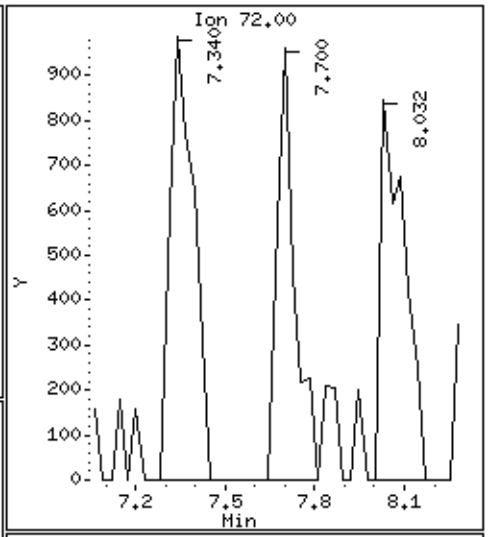
Concentration: 0.9464 PPBV

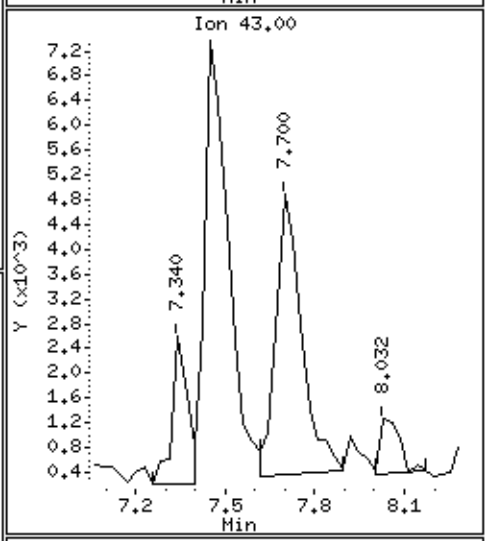


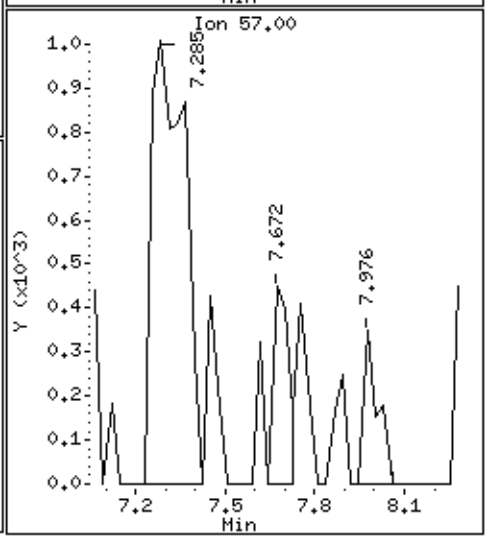












Data File: /chem/msd5.i/5-01oct.b/5100109.d

Date : 01-OCT-2007 15:43

Client ID:

Instrument: msd5.i

Sample Info: 200ml #34418

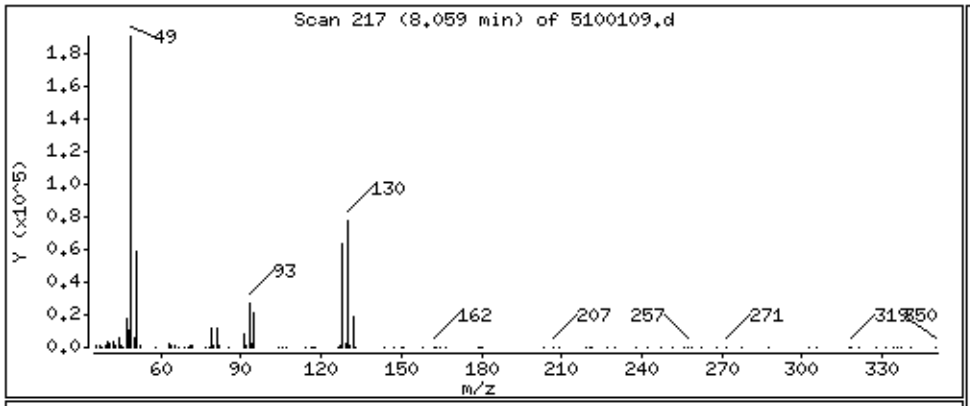
Operator: lmr

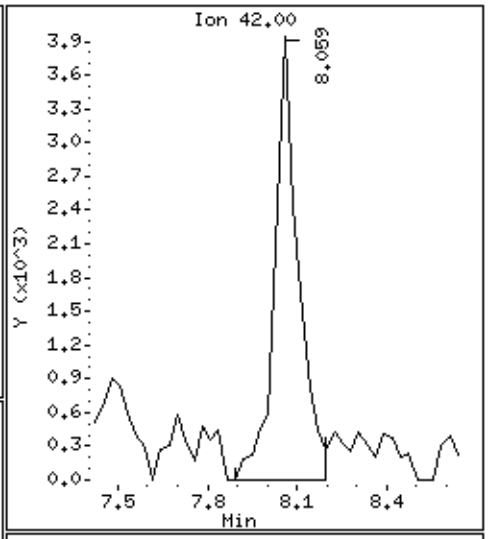
Column phase: RTx-624

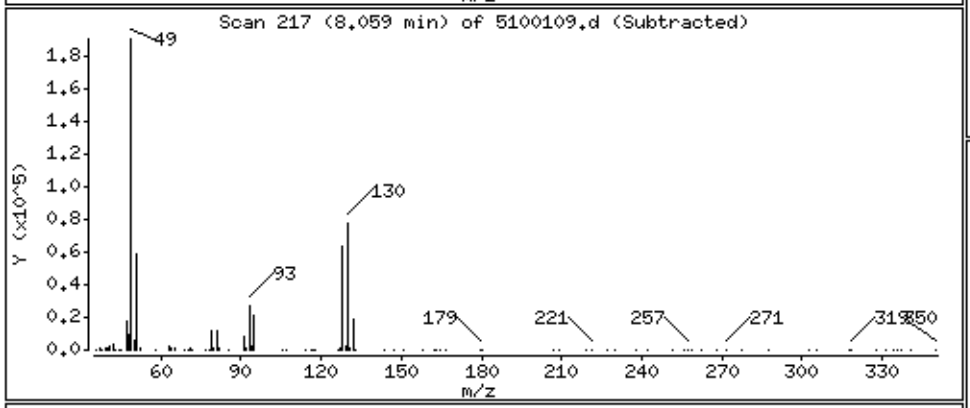
Column diameter: 0.53

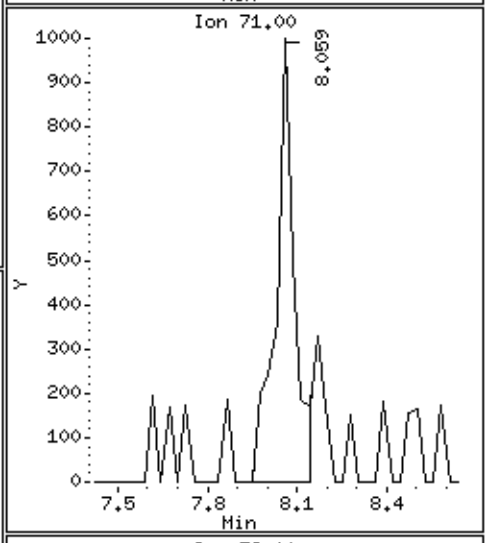
70 Tetrahydrofuran

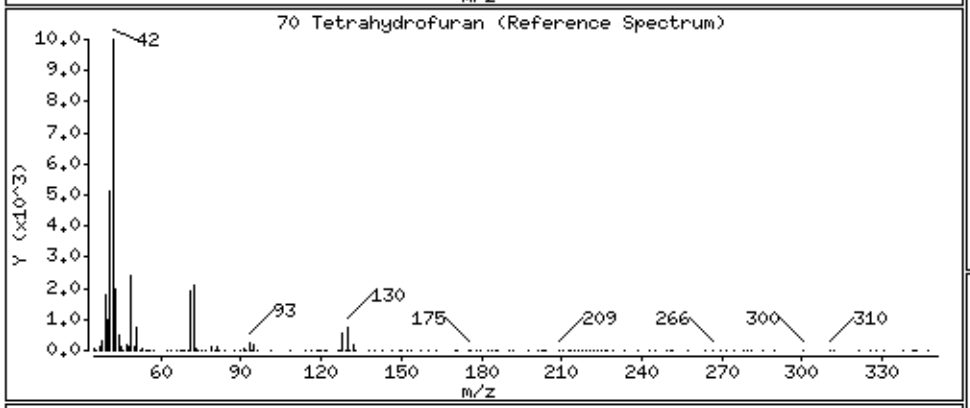
Concentration: 1.177 PPBV

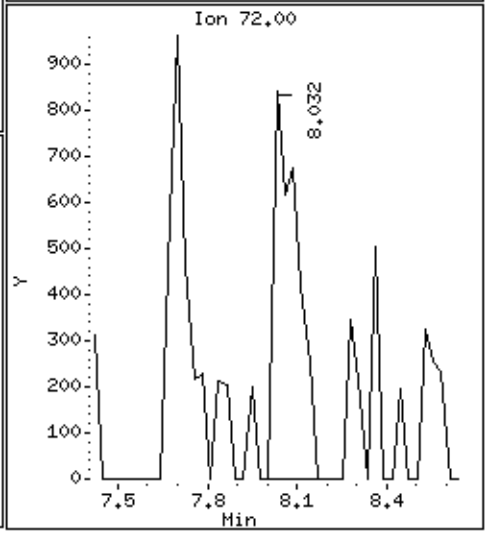


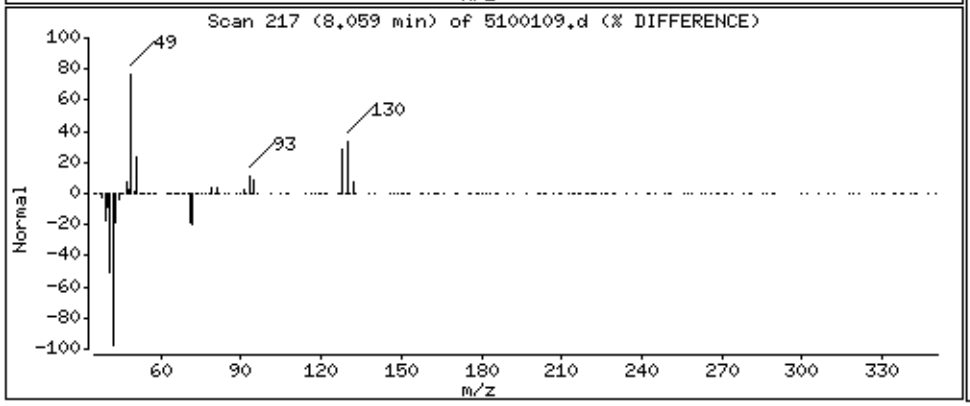












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: AMS1 UW

Lab ID#: 0709497-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	0.86	1.1	3.2	4.1
Acetone	3.4	13	8.1	31
Carbon Disulfide	0.86	17	2.7	52
2-Butanone (Methyl Ethyl Ketone)	0.86	5.2	2.5	15
Tetrahydrofuran	0.86	1.1	2.5	3.2

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS1 UW

Lab ID#: 0709497-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100110**	**Date of Collection: 9/19/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/1/07 04:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.86	Not Detected	4.2	Not Detected
Freon 114	0.86	Not Detected	6.0	Not Detected
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
Bromomethane	0.86	Not Detected	3.3	Not Detected
Chloroethane	0.86	Not Detected	2.2	Not Detected
Freon 11	0.86	Not Detected	4.8	Not Detected
1,1-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Freon 113	0.86	Not Detected	6.6	Not Detected
Methylene Chloride	0.86	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.86	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	Not Detected
Trichloroethene	0.86	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.86	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
Toluene	0.86	1.1	3.2	4.1
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	0.86	Not Detected	3.7	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.86	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Hexane	0.86	Not Detected	3.0	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: AMS1 UW

Lab ID#: 0709497-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100110**	**Date of Collection: 9/19/07**	
Dil. Factor:	**1.71**	**Date of Analysis: 10/1/07 04:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.86	Not Detected	3.5	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	Not Detected
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
Propylbenzene	0.86	Not Detected	4.2	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Acetone	3.4	13	8.1	31
Carbon Disulfide	0.86	17	2.7	52
2-Propanol	3.4	Not Detected	8.4	Not Detected
trans-1,2-Dichloroethene	0.86	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.86	5.2	2.5	15
Tetrahydrofuran	0.86	1.1	2.5	3.2
1,4-Dioxane	3.4	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.86	Not Detected	3.5	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
4-Ethyltoluene	0.86	Not Detected	4.2	Not Detected
Ethanol	3.4	Not Detected	6.4	Not Detected
Methyl tert-butyl ether	0.86	Not Detected U J	3.1	Not Detected U J
3-Chloropropene	3.4	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Naphthalene	3.4	Not Detected	18	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-01oct.b/5100110.d
Lab Smp Id: 0709497-02A
Inj Date : 01-OCT-2007 16:15
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #33965
Misc Info : 6.5"Hg -> 5psi
Comment :
Method : /chem/msd5.i/5-01oct.b/t14q928a.m
Meth Date : 01-Oct-2007 13:05 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1
Dil Factor: 1.71000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	299605	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	241429			52.20- 112.20	80.58
8.059	8.059 (1.000)	49	718522			206.34- 266.34	239.82
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1222007	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	202316			0.00- 47.36	16.56
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	976067	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	590049			28.84- 88.84	60.45
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	477763	25.2480	25.248	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	227458			28.76- 88.76	47.61
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1088391	25.2310	25.231	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	120886			0.00- 39.82	11.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	702750			40.57- 100.57	64.57
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	462263	23.5240	23.524	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	791120			134.87- 194.87	171.14
16.575	16.575 (1.105)	176	462394			65.46- 125.46	100.03
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	87450	7.71522	13.193	80.00- 120.00	100.00
4.741	4.741 (0.588)	43	248074			280.82- 340.82	283.68
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	484853	9.73720	16.651	80.00- 120.00	100.00
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	20497	3.07041	5.250	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	186004			609.36- 669.36	907.44
7.672	7.672 (0.952)	57	14373			13.65- 73.65	70.12
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.031 (1.000)	42	18562	0.62614	1.071	80.00- 120.00	100.00
8.087	8.031 (1.003)	71	4243			0.00- 53.13	22.86
8.059	8.031 (1.000)	72	6835			0.00- 55.26	36.82
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	30095	0.63199	1.081	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	15729			29.24- 89.24	52.27

Report Date: 05-Oct-2007 14:34

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100110.d
Lab Smp Id: 0709497-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 6.5"Hg -> 5psi

Calibration Date: 01-OCT-2007
Calibration Time: 11:03

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	340368	204221	476515	299605	-11.98
92 1,4-Difluorobenze	1328794	797276	1860312	1222007	-8.04
125 Chlorobenzene-d5	1041725	625035	1458415	976067	-6.30

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

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

Report Date: 05-Oct-2007 14:34

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-01oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0709497-02A
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 6.5"Hg -> 5psi

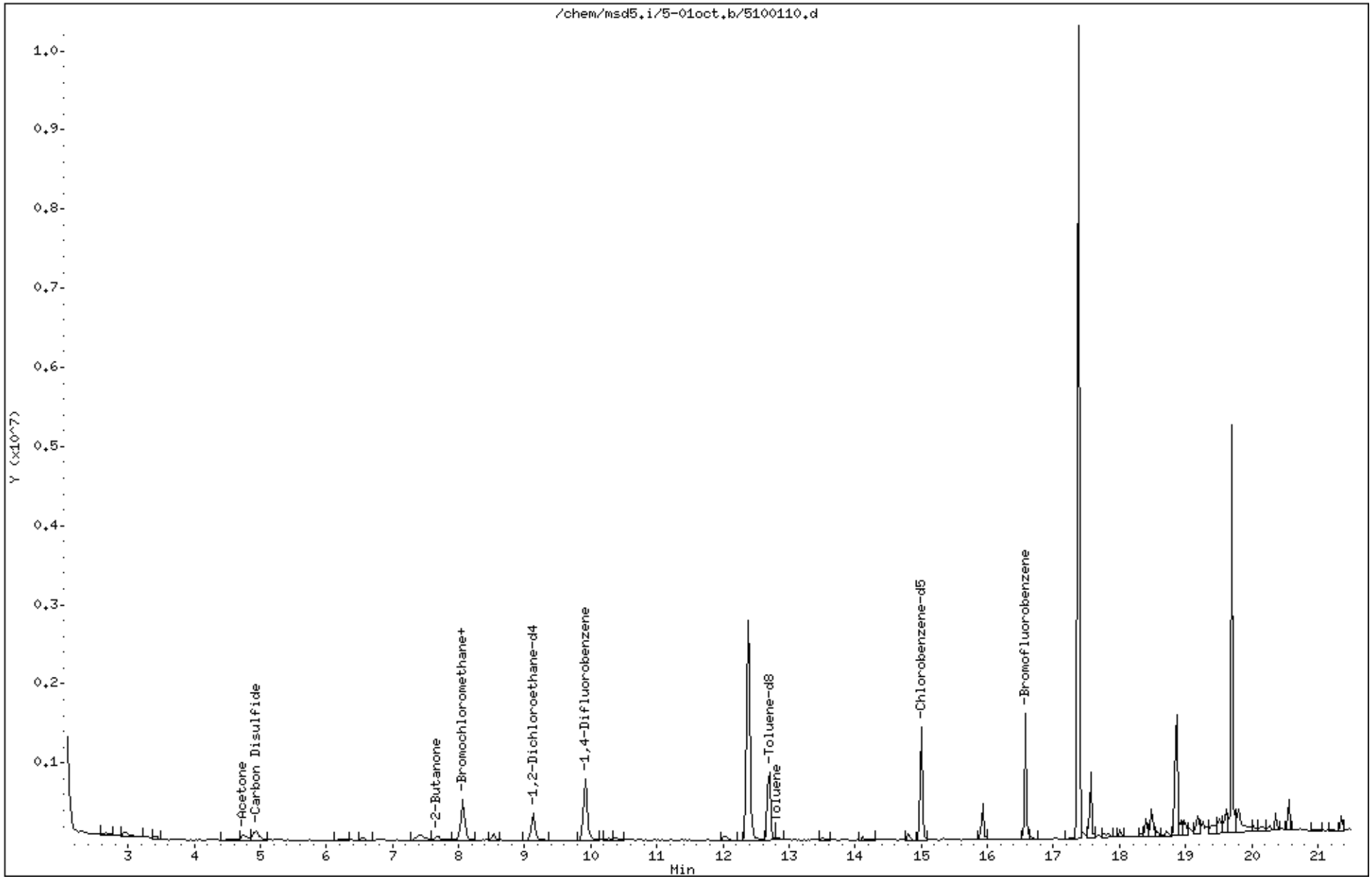
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	25.248	100.99	70-130
$ 107 Toluene-d8	25.000	25.231	100.92	70-130
$ 138 Bromofluorobenzene	25.000	23.524	94.10	70-130

0025

Data File: /chem/msd5.i/5-01oct.b/5100110.d
Date : 01-OCT-2007 16:15
Client ID:
Sample Info: 200ml #33965

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

Column phase: RTx-624



Data File: /chem/msd5.i/5-01oct.b/5100110.d

Date : 01-OCT-2007 16:15

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33965

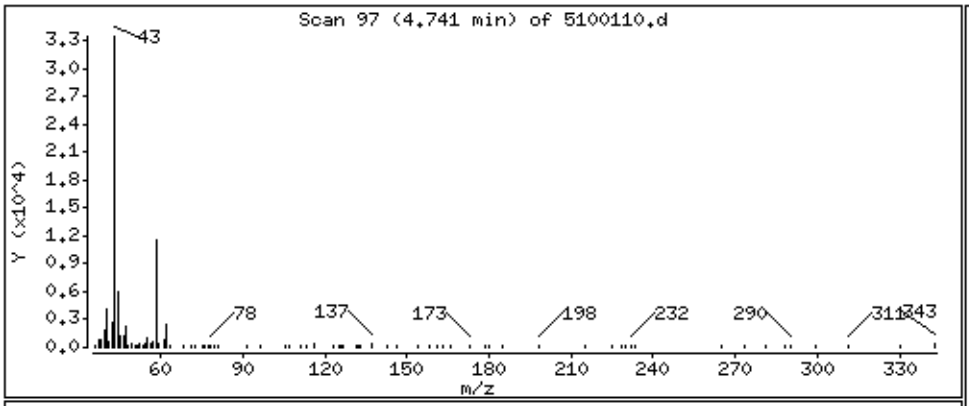
Operator: lmr

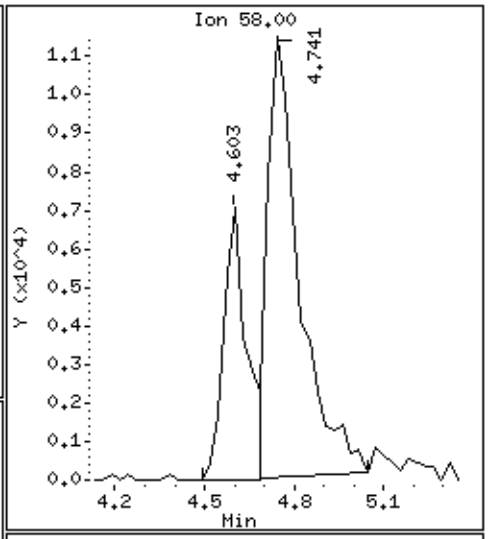
Column phase: RTx-624

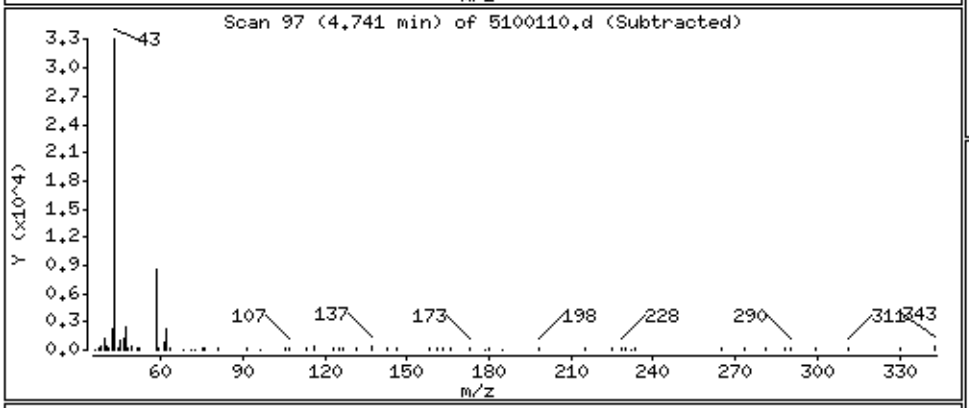
Column diameter: 0.53

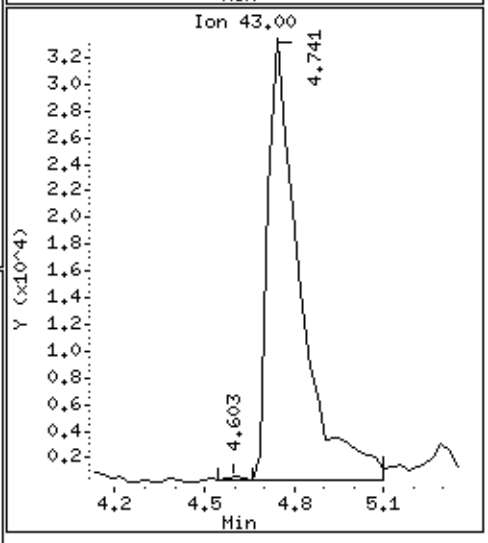
32 Acetone

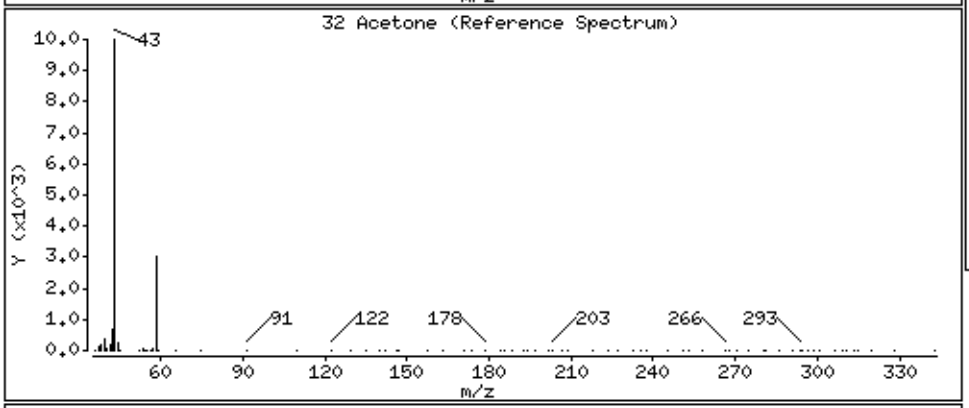
Concentration: 13.193 PPBV

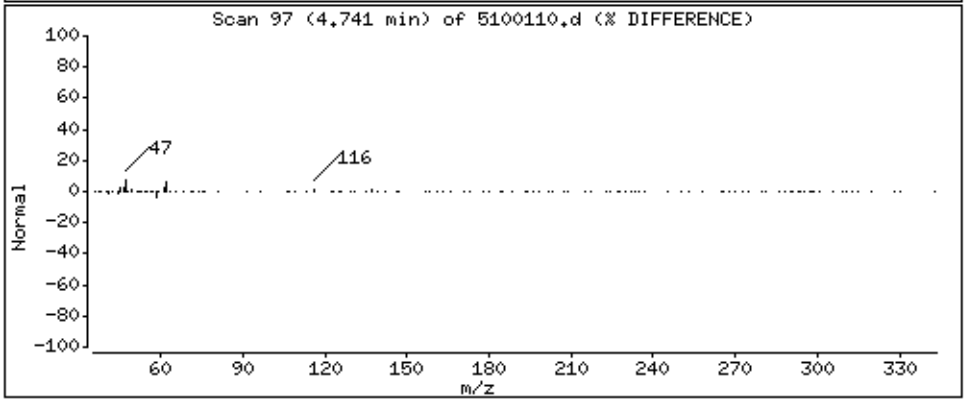












Data File: /chem/msd5.i/5-01oct.b/5100110.d

Date : 01-OCT-2007 16:15

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33965

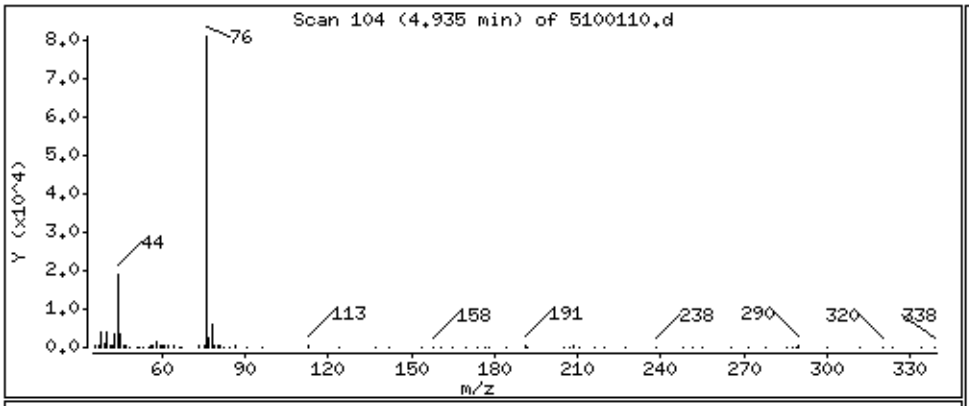
Operator: lmr

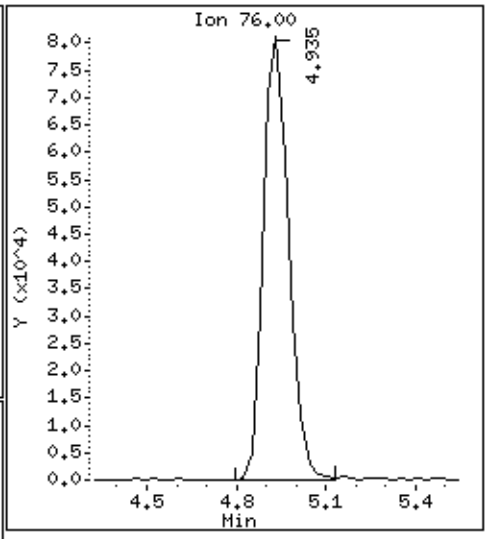
Column phase: RTx-624

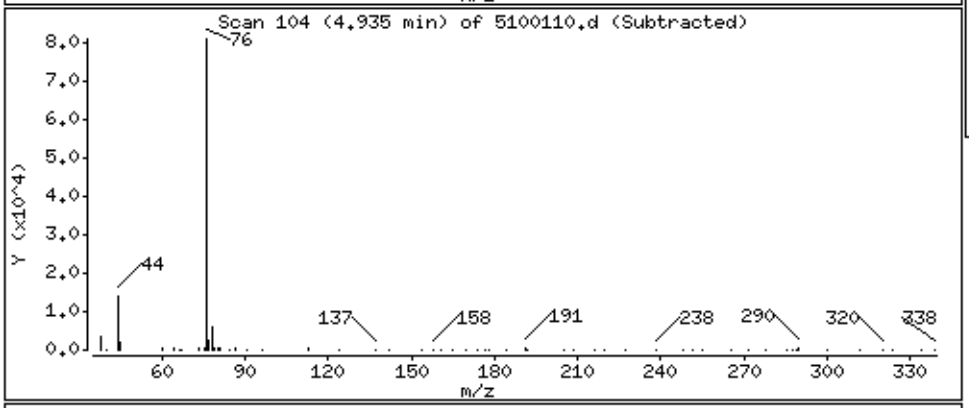
Column diameter: 0.53

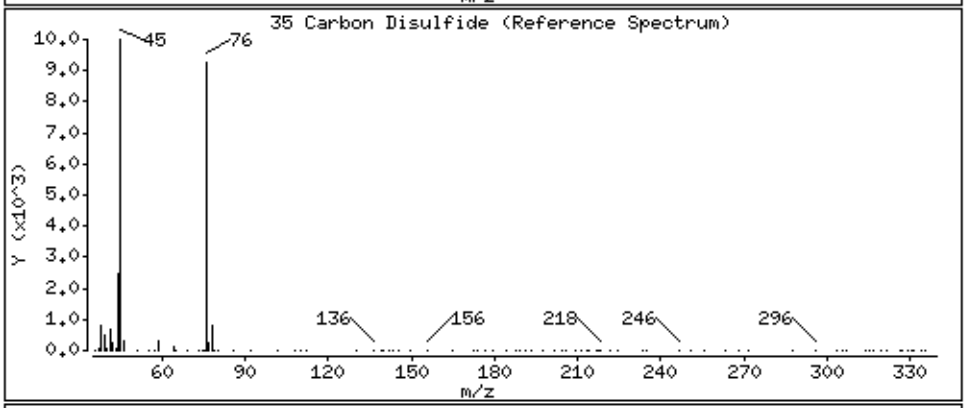
35 Carbon Disulfide

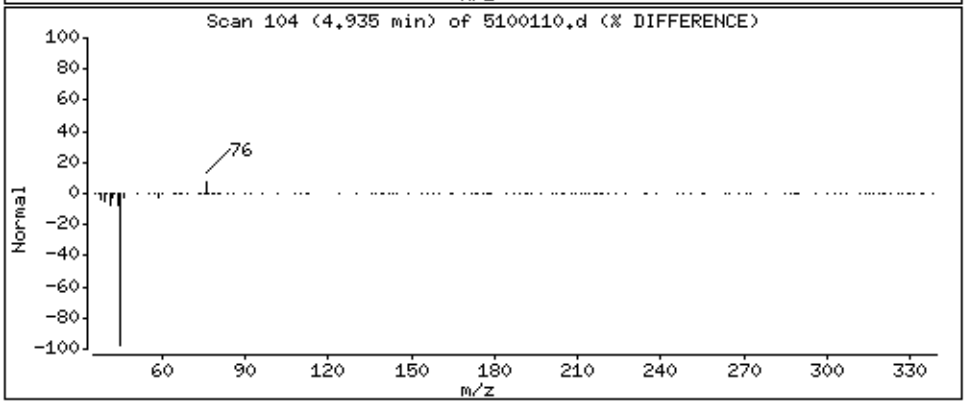
Concentration: 16.651 PPBV











Data File: /chem/msd5.i/5-01oct.b/5100110.d

Date : 01-OCT-2007 16:15

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33965

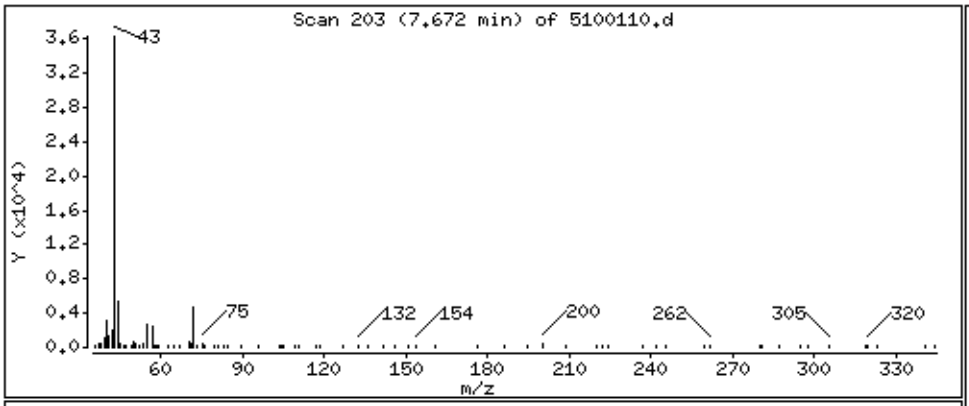
Operator: lmr

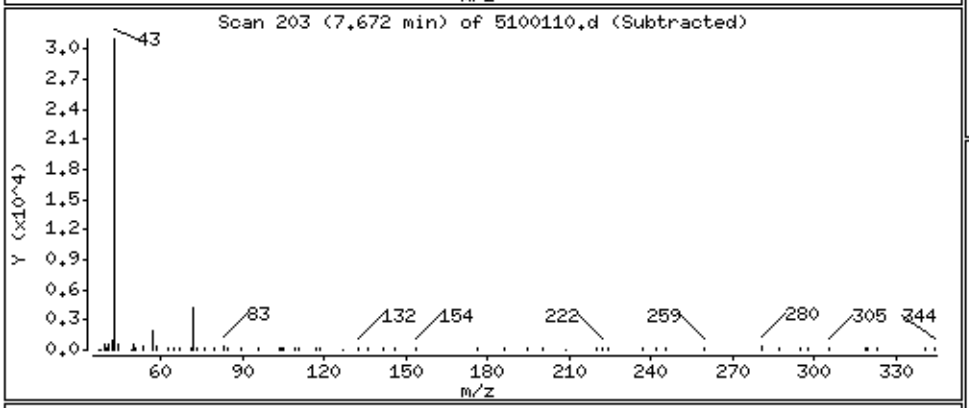
Column phase: RTx-624

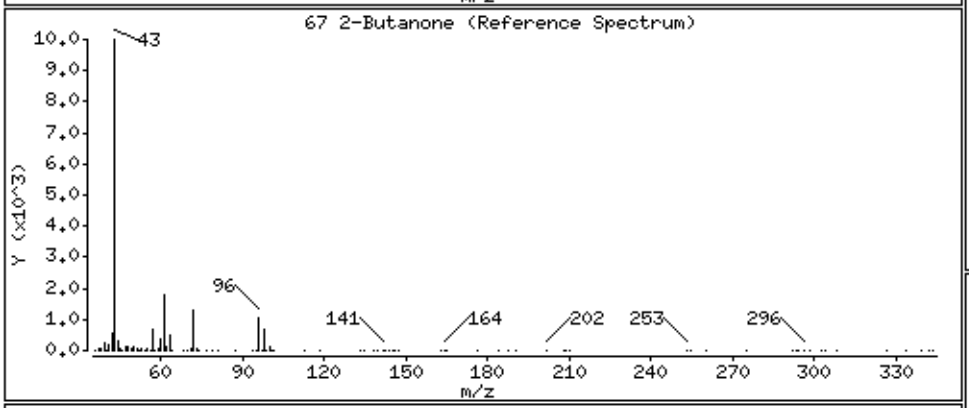
Column diameter: 0.53

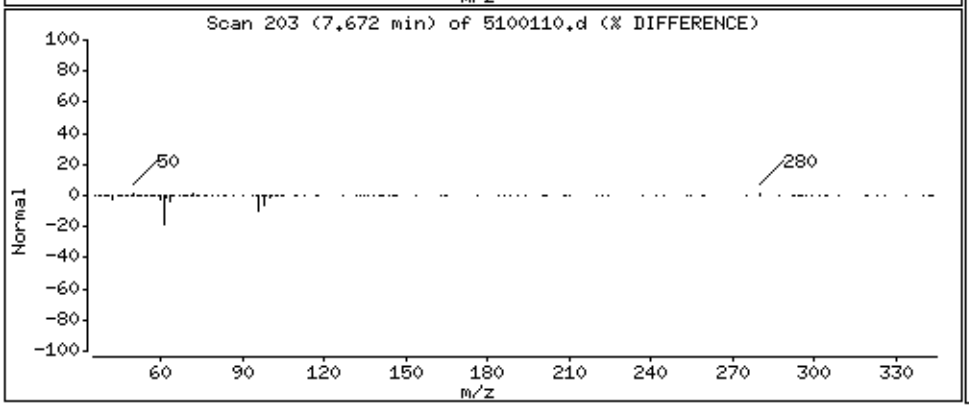
67 2-Butanone

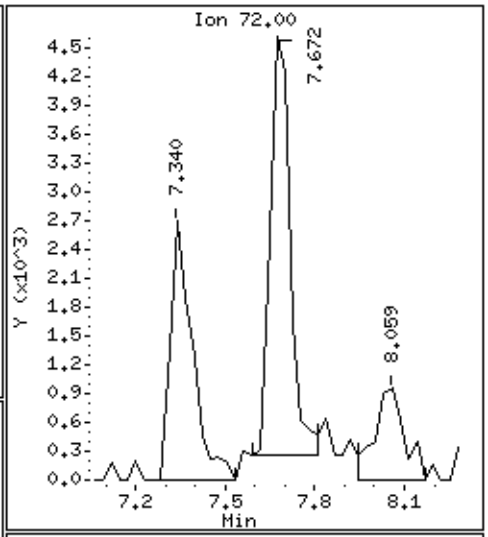
Concentration: 5.250 PPBV

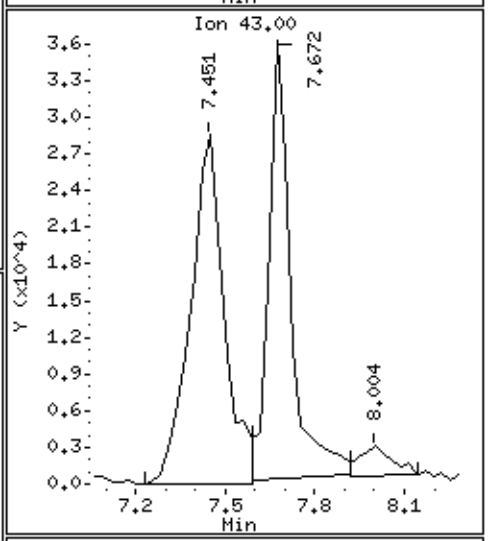


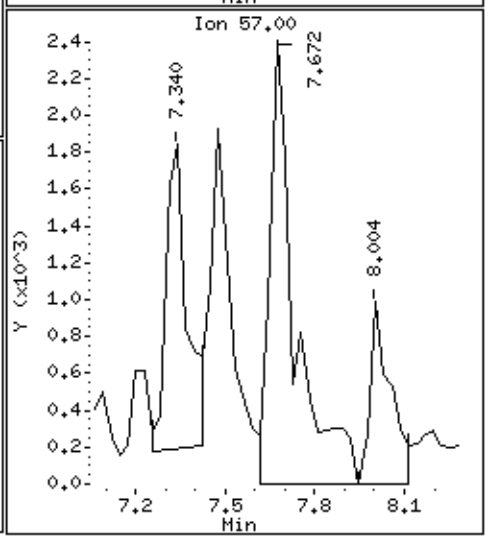












Data File: /chem/msd5.i/5-01oct.b/5100110.d

Date : 01-OCT-2007 16:15

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33965

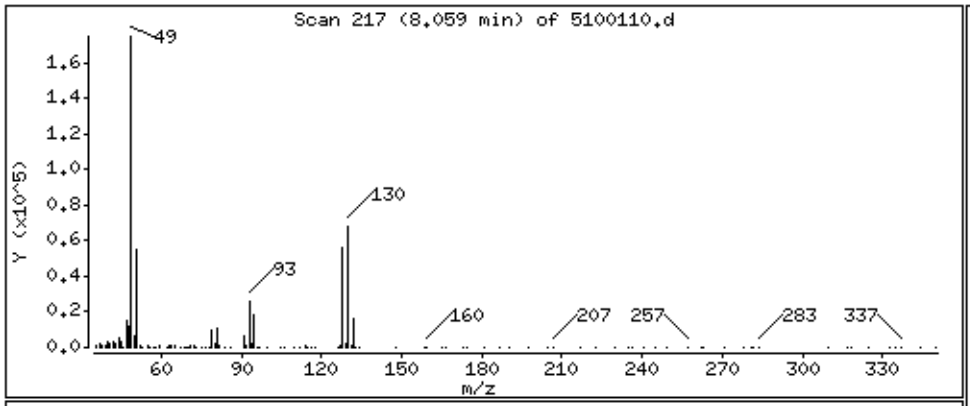
Operator: lmr

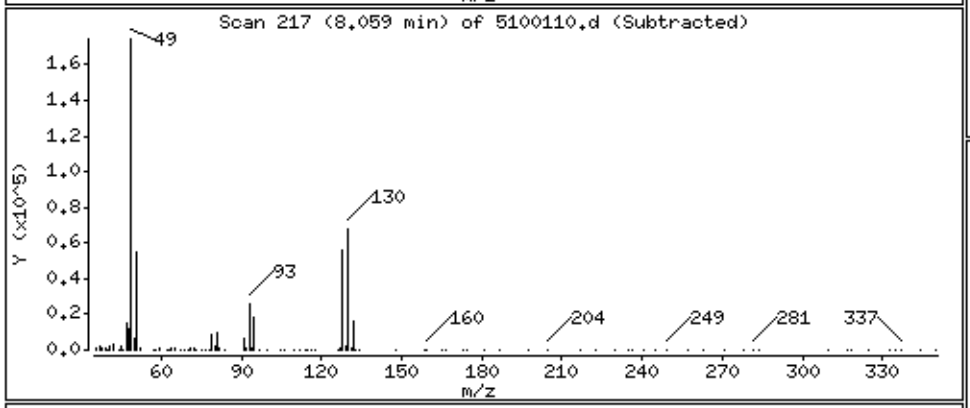
Column phase: RTx-624

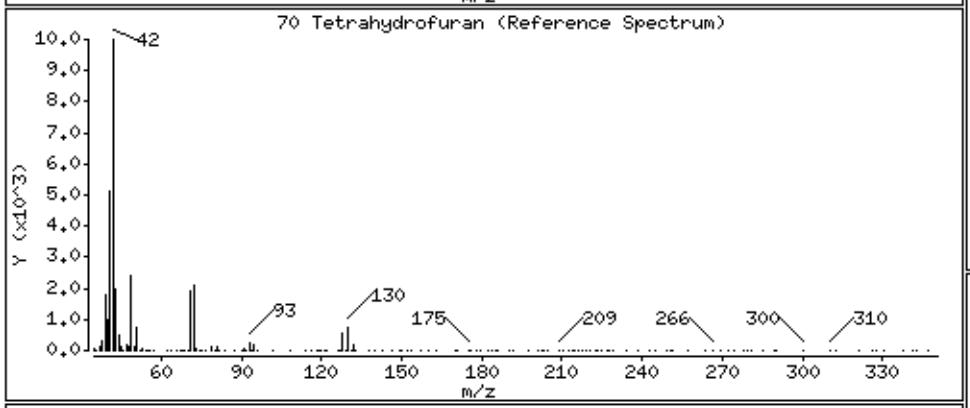
Column diameter: 0.53

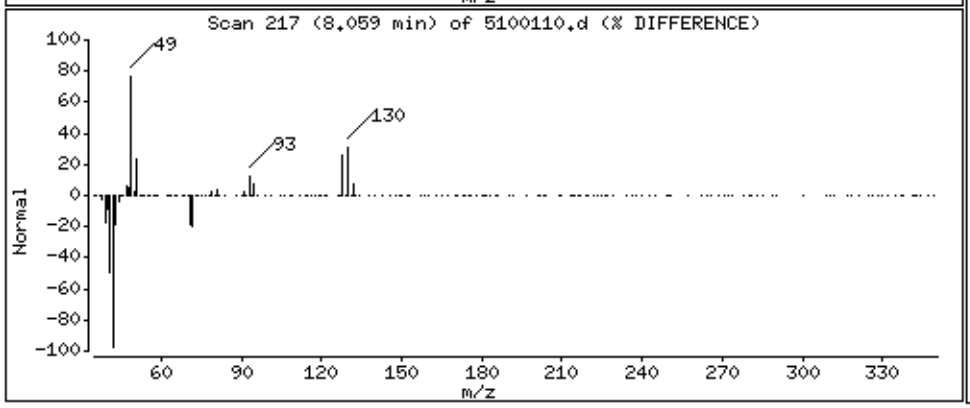
70 Tetrahydrofuran

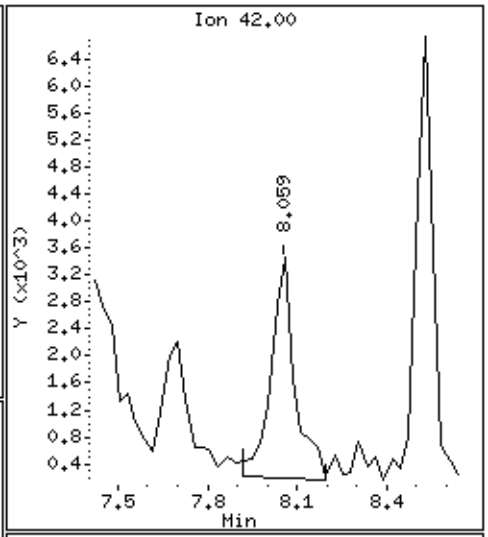
Concentration: 1.071 PPBV

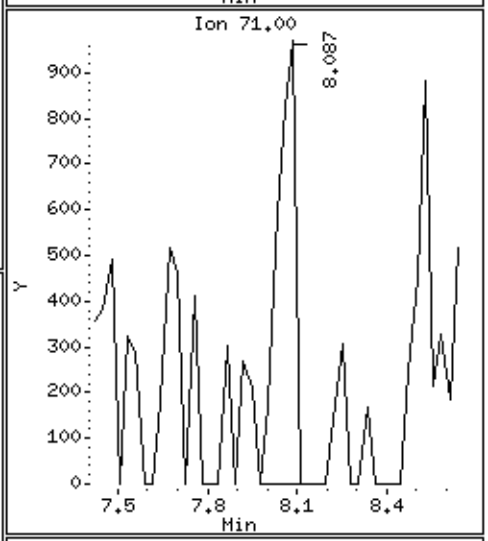


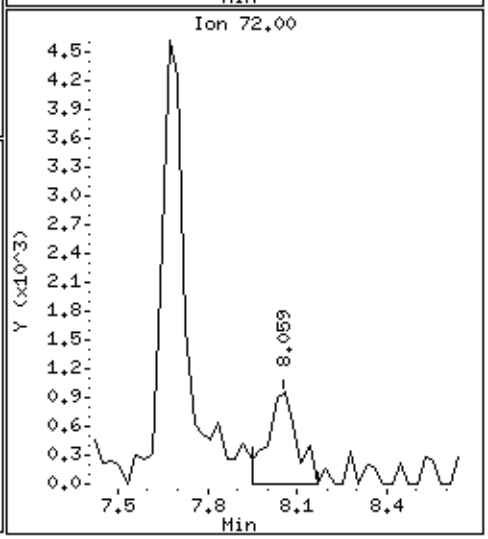












Data File: /chem/msd5.i/5-01oct.b/5100110.d

Date : 01-OCT-2007 16:15

Client ID:

Instrument: msd5.i

Sample Info: 200ml #33965

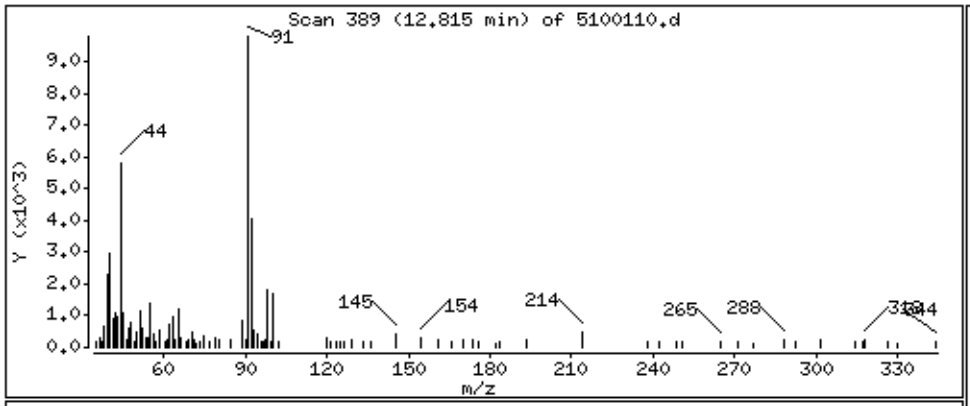
Operator: lmr

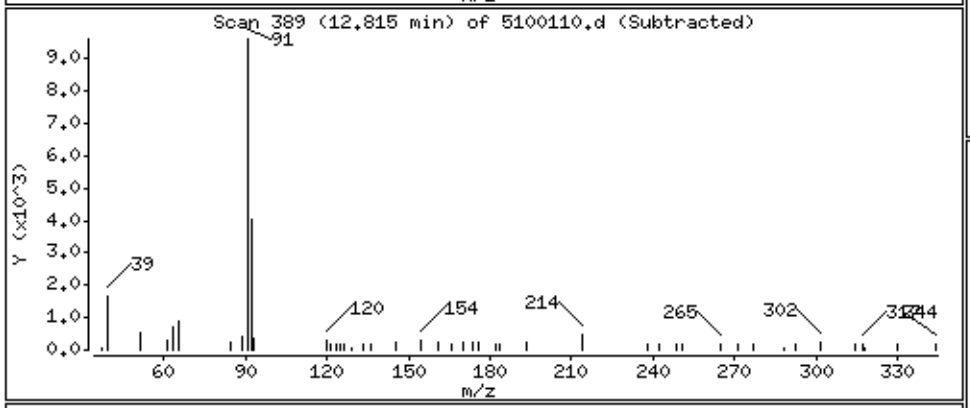
Column phase: RTx-624

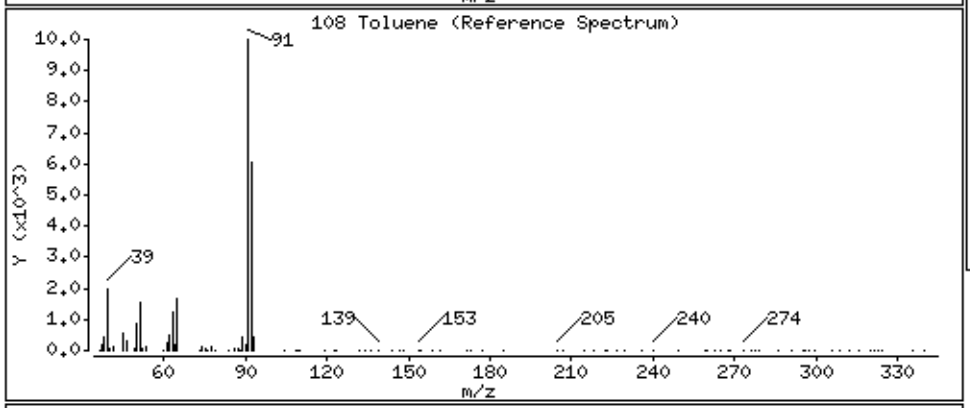
Column diameter: 0.53

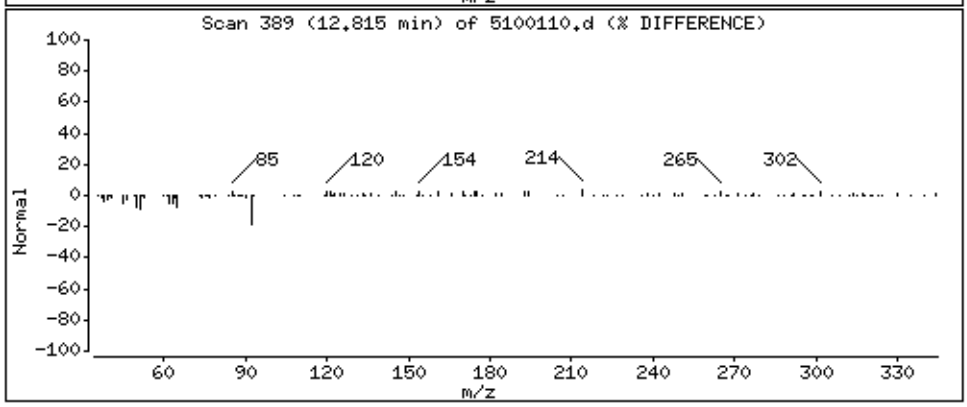
108 Toluene

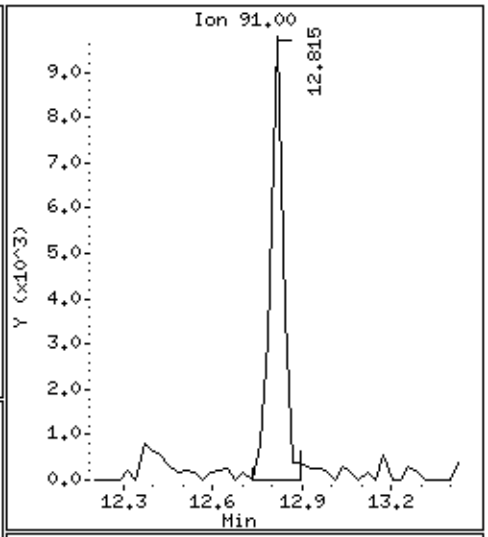
Concentration: 1.081 PPBV

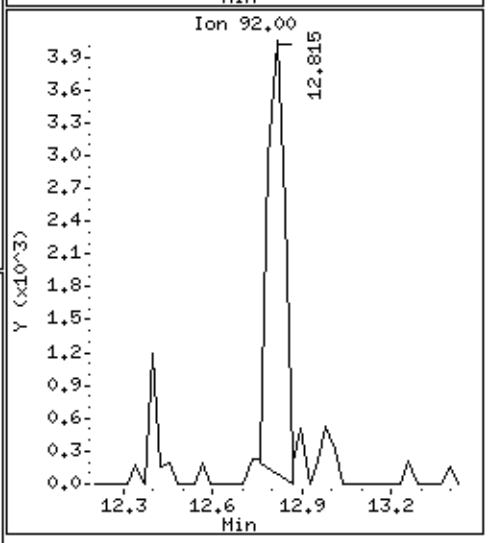












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0709497-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 01:23 PM**	

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0709497-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 01:23 PM**	

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

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-01oct.b/5100107.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 01-OCT-2007 13:23
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #12941
Misc Info : humid
Comment :
Method : /chem/msd5.i/5-01oct.b/t14q928a.m
Meth Date : 01-Oct-2007 13:05 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	346792	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	266969			52.20- 112.20	76.98
8.059	8.059 (1.000)	49	781953			206.34- 266.34	225.48
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1280745	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	215190			0.00- 47.36	16.80
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1060104	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	628920			28.84- 88.84	59.33
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	504353	23.0265	23.026	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	244478			28.76- 88.76	48.47
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1148628	25.4062	25.406	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	120457			0.00- 39.82	10.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	720777			40.57- 100.57	62.75
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	504770	23.6509	23.651	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	832652			134.87- 194.87	164.96
16.575	16.575 (1.105)	176	471487			65.46- 125.46	93.41

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100107.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: humid

Calibration Date: 01-OCT-2007
Calibration Time: 11:03
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	340368	204221	476515	346792	1.89
92 1,4-Difluorobenze	1328794	797276	1860312	1280745	-3.62
125 Chlorobenzene-d5	1041725	625035	1458415	1060104	1.76

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

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

Report Date: 01-Oct-2007 13:33

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-01oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	23.026	92.11	70-130
$ 107 Toluene-d8	25.000	25.406	101.62	70-130
$ 138 Bromofluorobenzene	25.000	23.651	94.60	70-130

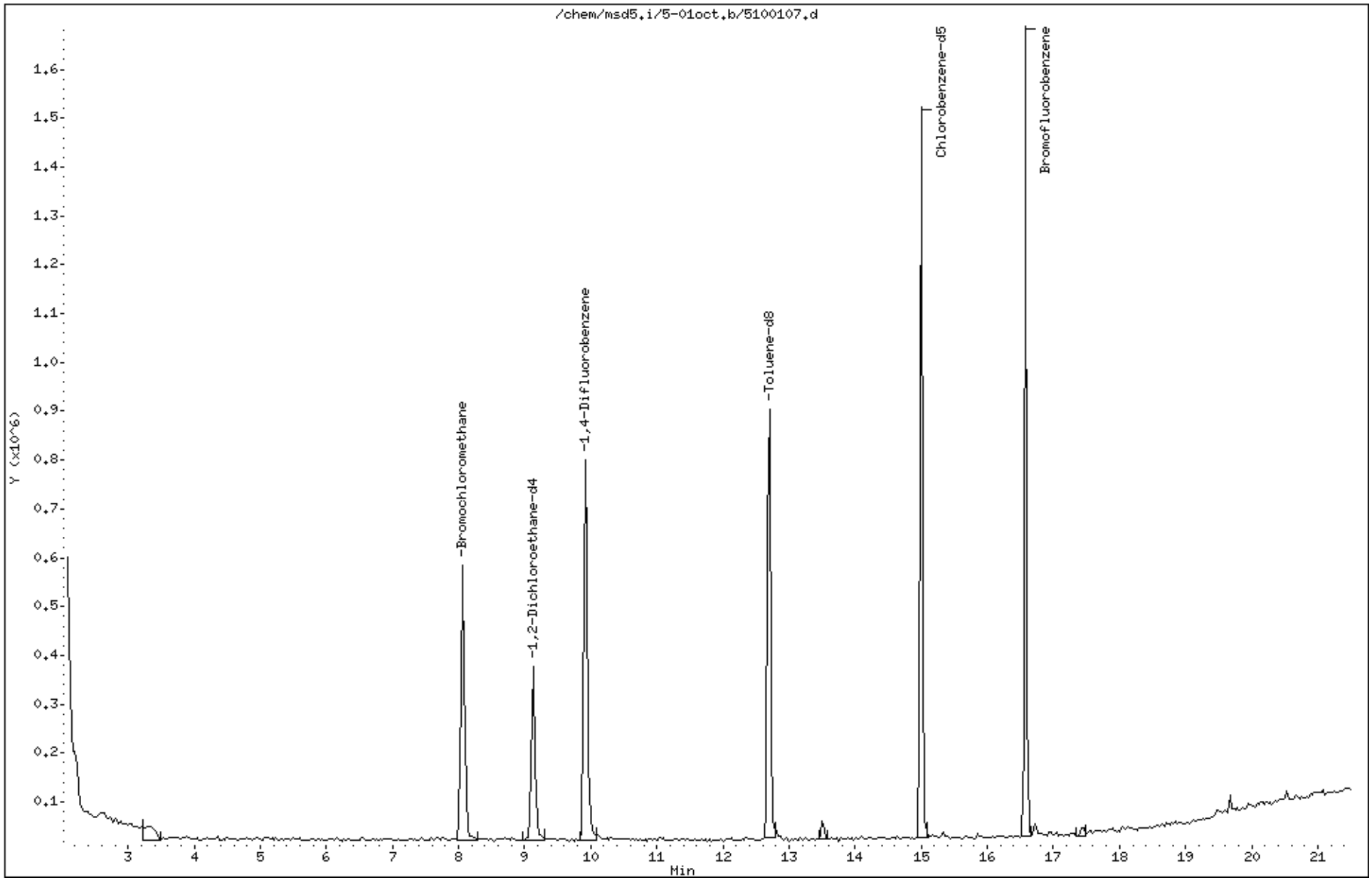
0038

Data File: /chem/msd5.i/5-01oct.b/5100107.d
Date : 01-OCT-2007 13:23
Client ID: Lab Blank
Sample Info: 200ml #12941

Column phase: RTx-624

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0709497

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	AMS5 DW	93		99		90				0
02	AMS1 UW	101		101		94				0
03	Lab Blank	92		102		95				0
04	CCV	100		102		97				0
05	LCS	97		101		94				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: 0709497

Lab File ID: 5100104.d | Date Analyzed: 10/01/2007

Instrument ID: msd5.i | Time Analyzed: 11:03 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1041725		15		1328794		9.91		340368		8.06	
	UPPER LIMIT	1458415		15.33		1860312		10.24		476515		08.39	
	LOWER LIMIT	625035		14.67		797276		09.58		204221		07.73	
	CLIENT SAMPLE NO												
01	AMS5 DW	1022594		15		1265051		9.91		328590		8.06	
02	AMS1 UW	976067		15		1222007		9.91		299605		8.06	
03	Lab Blank	1060104		15		1280745		9.91		346792		8.06	
04	CCV	1041725		15		1328794		9.91		340368		8.06	
05	LCS	1060938		15		1329467		9.91		340775		8.06	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd5.i/5-28sep.b/5092805.d
Level 2: /chem/msd5.i/5-28sep.b/5092806.d
Level 3: /chem/msd5.i/5-28sep.b/5092807.d
Level 4: /chem/msd5.i/5-28sep.b/5092808.d
Level 5: /chem/msd5.i/5-28sep.b/5092809.d
Level 6: /chem/msd5.i/5-28sep.b/5092810.d
Level 7: /chem/msd5.i/5-28sep.b/5092811.d

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
1 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
2 Propane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
4 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
5 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
6 Propylene	+++++	+++++	1.44708	1.98761	1.86774	1.75386		
	1.70670						1.75260	11.551
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
8 Dichlorodifluoromethane/Fr12	+++++	2.12872	2.18335	3.37429	3.14239	2.87311	2.65088	2.72546	18.507
9 Freon 114	+++++	2.68289	2.45757	3.14628	3.03260	2.73751	2.55059	2.76791	9.760
10 Chloromethane	+++++	+++++	2.10713	2.69117	2.60163	2.38401	2.06693	2.37017	11.895
11 Butane	+++++	+++++	0.40503	0.58953	0.54266	0.52365	0.51163	0.51450	13.217
12 1,3-Butadiene	+++++	1.51513	1.54266	2.12090	2.07198	1.98144	1.88488	1.85283	14.233
13 Vinyl Chloride	+++++	1.69860	1.53103	2.20665	2.12274	2.04442	1.95991	1.92723	13.538
14 Methanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
15 Bromomethane	+++++	0.96132	0.99721	1.49429	1.46532	1.43244	1.38170	1.28871	18.846
16 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
17 Isopentane	+++++	+++++	2.64789	3.47793	3.43156	3.31542	3.21009	3.21658	10.401

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Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
18 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
19 Chloroethane	+++++	1.06077	1.01357	1.15172	1.10379	1.02702		
	1.01327						1.06169	5.285
20 Trichlorofluoromethane/Fr11	+++++	2.79294	2.49157	3.61151	3.45988	3.33088		
	3.14740						3.13903	13.531
21 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Ethanol	+++++	+++++	0.52546	0.70989	0.70300	0.59721		
	0.63476						0.63406	12.128
27 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
28 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
29 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Freon 113	+++++	1.95926	1.69961	2.31816	2.22648	2.10718	2.00922	2.05332	10.646
31 1,1-Dichloroethene	+++++	2.48794	1.97213	2.82457	2.76306	2.66605	2.61919	2.55549	12.082
32 Acetone	+++++	+++++	0.78148	0.99893	0.99029	1.00349	0.95484	0.94581	9.920
33 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
35 Carbon Disulfide	+++++	3.49359	3.57594	4.70472	4.57321	4.34572	4.23657	4.15496	12.238
36 2-Propanol	+++++	+++++	2.37188	3.55381	3.66249	3.66733	3.56802	3.36470	16.568
37 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
38 3-Chloropropene	+++++	+++++	0.41794	0.75416	0.70312	0.69904	0.67788	0.65043	20.440	
39 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
40 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
41 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
42 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
43 Methylene Chloride	+++++	2.13429	2.14085	2.53648	2.47386	2.36432	2.24002	2.31497	7.365	
44 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
45 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
46 MTBE	+++++	1.86986	1.35831	1.13254	0.96525	0.83784	0.66045	1.13737	37.963	<-
47 trans-1,2-Dichloroethene	+++++	1.67544	1.30368	1.78284	1.70065	1.64080	1.58033	1.61396	10.291	

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
48 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Hexane	+++++	2.60516	2.64582	3.49099	3.44377	3.36931		
	3.35229						3.15123	13.027
52 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 1,1-Dichloroethane	+++++	2.81376	2.30075	3.00288	3.00357	2.85491		
	2.83609						2.80199	9.256
56 Vinyl Acetate	+++++	+++++	0.20162	0.34167	0.36562	0.37676		
	0.38051						0.33324	22.543
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
58 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
59 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
63 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
64 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
65 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
66 cis-1,2-Dichloroethene	+++++	1.46720	1.62219	2.26274	2.24411	2.13687		
	2.13275						1.97764	17.349
67 2-Butanone	+++++	0.31703	0.45498	0.61855	0.64822	0.64831		
	0.65515						0.55704	25.142

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
68 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
69 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Tetrahydrofuran	+++++	2.57536	2.19530	2.54592	2.53789	2.49845	2.48928	2.47370	5.660
72 Chloroform	2.74254	2.08492	2.26675	2.59645	2.62763	2.44421	2.42211	2.45495	9.200
73 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
74 Cyclohexane	+++++	1.23131	1.43757	1.91630	1.92555	1.83198	1.82571	1.69474	17.086
75 1,1,1-Trichloroethane	+++++	2.30267	1.97094	2.69531	2.62429	2.55200	2.52576	2.44516	10.940
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	1.56934	1.72842	2.29234	2.24774	2.23569	2.16979	2.04055	15.193
78 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
79 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 2,2,4-Trimethylpentane	+++++	5.90398	6.27249	9.07707	9.21105	9.00347	9.08947	8.09292	19.259
81 Benzene	1.57101	0.94646	0.76464	1.09607	1.04884	1.00306	0.98187	1.05885	23.517
82 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
85 1,2-Dichloroethane	+++++	0.54286	0.44534	0.60277	0.57377	0.54754	0.52905	0.54022	9.874
86 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
87 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
88 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
89 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
90 Heptane	+++++	0.09609	0.07462	0.13026	0.12578	0.12467	0.12271	0.11236	19.696
91 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
93 Trichloroethene	+++++	0.42426	0.36799	0.46010	0.44791	0.42322	0.41636	0.42331	7.521
94 Methyl Cyclohexane	+++++	0.45630	0.42415	0.63189	0.62001	0.59623	0.59322	0.55363	16.186
95 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
96 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
97 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
98 1,2-Dichloropropane	+++++	0.42186	0.31978	0.42069	0.40698	0.38769	0.38279	0.38997	9.754
99 1,4-Dioxane	+++++	+++++	0.17270	0.22595	0.23532	0.22997	0.22181	0.21715	11.672
100 Bromodichloromethane	+++++	0.60163	0.46926	0.67665	0.65367	0.63530	0.62411	0.61010	12.060

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
101 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
102 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
103 cis-1,3-Dichloropropene	+++++	0.29749	0.28151	0.45519	0.45640	0.44524	0.45058	0.39773	21.140
104 Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 4-Methyl-2-pentanone	+++++	0.24449	0.23457	0.37977	0.36794	0.36554	0.37967	0.32866	21.104
108 Toluene	+++++	0.82023	0.80021	1.11330	1.07052	1.01872	1.02227	0.97421	13.532
109 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
111 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
112 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
113 trans-1,3-Dichloropropene	+++++	0.46773	0.31950	0.57375	0.57464	0.59810	0.60758	0.52355	21.355
114 1,1,2-Trichloroethane	+++++	0.46564	0.35127	0.47573	0.45392	0.43730	0.42592	0.43496	10.310
115 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 Tetrachloroethene	+++++	0.54872	0.47316	0.58746	0.53527	0.52060	0.50774	0.52883	7.317
117 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
118 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
119 2-Hexanone	+++++	+++++	0.37361	0.58237	0.60854	0.61896	0.64816	0.56633	19.473
120 Dibromochloromethane	+++++	0.49847	0.50268	0.71099	0.68453	0.68951	0.69785	0.63067	16.043
121 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
122 1,2-Dibromoethane	+++++	0.54695	0.49982	0.70822	0.68451	0.66877		
	0.67956						0.63131	13.605
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	0.98318	0.84449	1.07095	1.01742	0.98446		
	1.00061						0.98352	7.665
127 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.50778	0.41548	0.56980	0.55856	0.54531		
	0.54707						0.52400	10.903
129 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 m,p-Xylene	+++++	0.57674	0.47591	0.72001	0.70217	0.69266		
	0.70303						0.64508	15.154
131 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	0.36379	0.42765	0.66111	0.65092	0.63592		
	0.63300						0.56207	23.276

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 Styrene	0.96054	0.69741	0.61205	1.04335	1.03169	1.04083	1.04778	0.91909	20.093
134 Bromoform	+++++	0.50930	0.40433	0.63702	0.61398	0.60648	0.61820	0.56489	16.041
135 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
136 Cumene	2.08068	1.50782	1.22451	2.05413	2.02094	2.00791	1.98533	1.84019	18.227
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,1,2,2-Tetrachloroethane	+++++	0.88273	0.78970	0.96395	0.92323	0.90199	0.91564	0.89621	6.555
142 Propylbenzene	+++++	1.83586	1.75335	2.43096	2.34207	2.37656	2.36466	2.18391	13.924
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
144 4-Ethyltoluene	+++++	1.28733	1.39332	2.07364	2.02520	2.00345	2.02682	1.80163	19.961
145 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.56353	1.32522	1.96575	1.89324	1.84144	1.83598	1.73753	14.029
148 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
150 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
152 1,2,4-Trimethylbenzene	+++++	0.90896	1.07350	1.65485	1.61129	1.64575	1.68051	1.42914	24.062
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
155 1,3-Dichlorobenzene	+++++	0.88634	0.94175	1.16321	1.11639	1.10148	1.07587	1.04751	10.371	
156 1,4-Dichlorobenzene	+++++	1.08896	0.98194	1.33405	1.29660	1.24848	1.20536	1.19256	11.202	
157 alpha-Chlorotoluene	+++++	1.01493	0.84510	1.64562	1.87452	2.01773	1.84206	1.53999	31.826	<-
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
159 1,2-Dichlorobenzene	+++++	1.13415	1.06982	1.22363	1.16525	1.13873	1.10153	1.13885	4.657	
160 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
162 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++		+++++	
163 1,2,4-Trichlorobenzene	+++++	+++++	0.82509	0.81604	0.81156	0.81789	0.79711	0.81354	1.278	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd5.i/5-28sep.b/t14q928a.m
Cal Date : 30-Sep-2007 09:00 lrandolp
Curve Type : Average

Compound	0.30000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Hexachlorobutadiene	+++++	+++++	0.60567	0.63649	0.62336	0.59660		
	0.56838						0.60610	4.314
165 Naphthalene	+++++	+++++	2.67644	2.63804	2.86661	2.84275		
	1.99522						2.60381	13.619
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
$ 84 1,2-Dichloroethane-d4	+++++	1.57317	1.55281	1.49776	1.55205	1.59769		
	1.70041						1.57898	4.308
$ 107 Toluene-d8	+++++	0.84623	0.84825	0.88695	0.92612	0.87940		
	0.90808						0.88250	3.610
$ 138 Bromofluorobenzene	+++++	0.50037	0.48641	0.51460	0.50571	0.50350		
	0.50930						0.50331	1.913

Calibration History

Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Start Cal Date: 28-SEP-2007 11:16
End Cal Date : 28-SEP-2007 14:08

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.30000		
28-SEP-2007 11:16	AFCEElow	/chem/msd5.i/5-28sep.b/5092805.d
Cal Level: 2 , Cal Amount: 0.50000		
28-SEP-2007 11:44	AT04Low+ENSR	/chem/msd5.i/5-28sep.b/5092806.d
Cal Level: 3 , Cal Amount: 2.00000		
28-SEP-2007 12:12	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092807.d
Cal Level: 4 , Cal Amount: 25.00000		
28-SEP-2007 12:40	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092808.d
Cal Level: 5 , Cal Amount: 50.00000		
28-SEP-2007 13:07	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092809.d
Cal Level: 6 , Cal Amount: 100.00000		
28-SEP-2007 13:36	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092810.d
Cal Level: 7 , Cal Amount: 200.00000		
28-SEP-2007 14:08	AT04MDL+ENSR	/chem/msd5.i/5-28sep.b/5092811.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000
28-SEP-2007 13:07 | AT04MDL+ENSR | /chem/msd5.i/5-28sep.b/5092809a.d

0090

MSD-5

@ Air Toxics Ltd.

Logbook #: 1586

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.74
75	30.0 – 60.0% of mass 95	49.23
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.48
173	Less than 2.0% of mass 174	(0.82)[1]
174	Greater than 50.0% of mass 95	58.94
175	5.0 – 9.0% of mass 174	(7.02)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.85)[1]
177	5.0 – 9.0% of mass 176	(6.76)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 9/28/07
BFB Injection Time: 0958
BFB File ID: 5092804
Tekmar Purge Flow: 16.5mL/min
Vacuum: 3.22×10^{-6}

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 2888887	
1,4-DFB 1067015	
CB-d5 987636	

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

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

Verify 176/174 m/z Ratio: _____

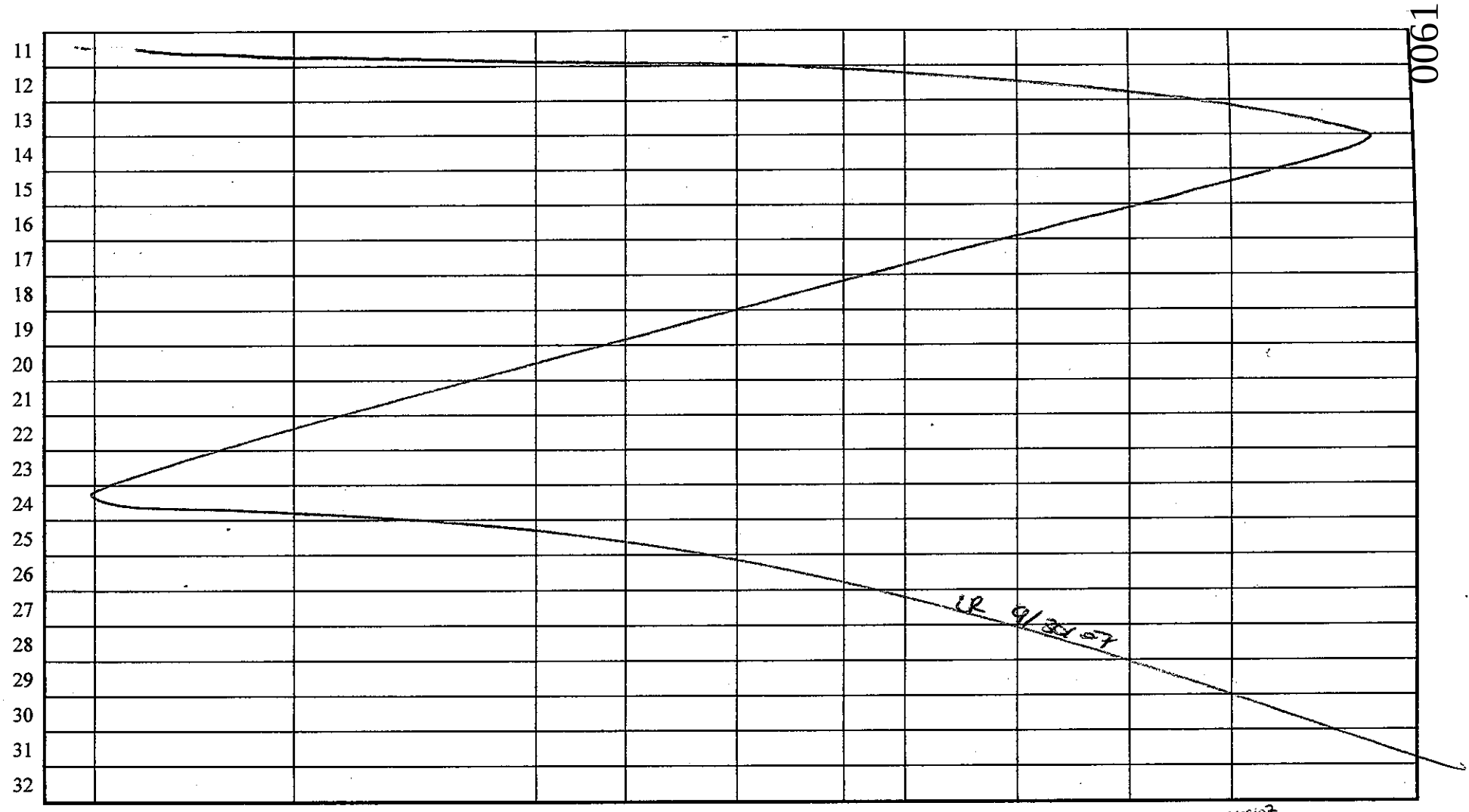
File ID: 5092809	
Compound: Tol-d8	
Initials: LR	

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 988185\ )}{(\ 1067015\ )} \times \frac{(\ 25\ )}{(\ 0.95025\ )} =$ 26.236

Reported Result 26.236

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5092804	BFB Tunecheck	943-2981	50ng	3µl	1.00	9/28/07	0958	LR	
2	✓	05	ICAL Lvl 1	1576-18	0.3ppbv	0.3mL			1110	LR	
3	✓	06	2		0.5ppbv	0.5mL			1144	LR	
4	✓	07	3		2.0ppbv	2.0mL			1212	LR	
5	✓	08	4		25ppbv	25mL			1240	LR	±14q9289
6	✓	09	5		50ppbv	50mL			1307	LR	
7	✓	10	6		100ppbv	100mL			1336	LR	
8	✓	11	7		200ppbv	200mL			1408	LR	
9	✓	12	System Blank	12941	Humid	200mL			1737	LR	
10	✓	13	1443-295A 100ppbv	LCS	50ppbv	100mL			1805	LR	ICAL LCS



Comments: Real 24.9 ml/min Nom: 22.6 ml/min NIST Flow meter SN: 1-18612 exp ~~Oct~~ 09/12/07 Jun 11, 2008

Signature

9/30/07
Date

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-5 on Sep, 28, 2007.

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

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

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

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

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092813.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 28-SEP-2007 18:05
Operator : lmr Inst ID: msd5.i
Smp Info : 100mL #1443-295A
Misc Info : 100ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 30-Sep-2007 09:00 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	308638	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	246939			49.43- 109.43	80.01
8.059	8.059 (1.000)	49	713648			190.13- 250.13	231.22
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1182971	25.0000		80.00- 120.00	100.00
9.912	9.912 (1.000)	88	201213			0.00- 47.82	17.01
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	968431	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	573702			28.84- 88.84	59.24
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	471897	24.2081	24.208	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	248752			28.76- 88.76	52.71
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1044685	25.0169	25.017	80.00- 120.00	100.00
12.676	12.704 (1.279)	70	118406			0.00- 39.82	11.33

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	675395			40.57- 100.57	64.65
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	486470	24.9511	24.951	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	755269			127.13- 187.13	155.26
16.575	16.575 (1.105)	176	466623			69.27- 129.27	95.92
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1159133	53.5724	53.572	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	798845			37.78- 97.78	68.92
2.280	2.280 (0.283)	39	760182			36.38- 96.38	65.58
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1757665	52.2381	52.238	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	570917			2.15- 62.15	32.48
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1710311	50.0512	50.051	80.00- 120.00	100.00
2.474	2.474 (0.307)	137	535842			2.55- 62.55	31.33
10 Chloromethane					CAS #: 74-87-3		
2.640	2.612 (0.328)	50	1478474	50.5271	50.527	80.00- 120.00	100.00
2.640	2.584 (0.328)	52	436973			0.00- 59.05	29.56
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1265405	53.1848	53.185	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	375876			0.94- 60.94	29.70
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.750 (0.345)	54	1197174	52.3374	52.337	80.00- 120.00	100.00
2.778	2.750 (0.345)	39	1304244			76.94- 136.94	108.94
15 Bromomethane					CAS #: 74-83-9		
3.303	3.276 (0.410)	94	856256	53.8193	53.819	80.00- 120.00	100.00
3.303	3.276 (0.410)	96	804825			66.08- 126.08	93.99
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	615928	46.9919	46.992	80.00- 120.00	100.00
3.442	3.414 (0.427)	49	177972			0.00- 59.42	28.89
3.442	3.414 (0.427)	66	157170			0.00- 59.02	25.52
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.718 (0.465)	101	1988683	51.3170	51.317	80.00- 120.00	100.00
3.746	3.718 (0.465)	103	1282808			34.66- 94.66	64.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.077	4.078 (0.506)	45	381040	48.6775	48.677	80.00- 120.00	100.00
4.105	4.078 (0.509)	43	68642			0.00- 48.45	18.01
4.105	4.078 (0.509)	46	155280			13.44- 73.44	40.75
30 Freon 113					CAS #: 76-13-1		
4.548	4.520 (0.564)	151	1445306	57.0156	57.016	80.00- 120.00	100.00
4.548	4.520 (0.564)	153	903439			32.72- 92.72	62.51
4.520	4.520 (0.561)	101	1900560			99.74- 159.74	131.50
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1827920	57.9393	57.939	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1018948			26.18- 86.18	55.74
4.575	4.575 (0.568)	98	667850			6.71- 66.71	36.54
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	628620	53.8365	53.836	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	1956074			280.82- 340.82	311.17
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2271255	54.6776	54.678	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	512743			0.00- 51.03	22.58
4.935	4.935 (0.612)	59	77065			0.00- 33.25	3.39
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2701497	52.6657	52.666	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.184 (0.643)	76	423743	52.7708	52.771	80.00- 120.00	100.00
5.183	5.184 (0.643)	41	1836064			398.31- 458.31	433.30
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.432 (0.677)	49	1578104	55.2180	55.218	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	846633			22.80- 82.80	53.65
5.460	5.432 (0.677)	51	476648			0.41- 60.41	30.20
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	456233	32.4918	32.492	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	148822			4.56- 64.56	32.62
5.764	5.764 (0.715)	41	168423			7.35- 67.35	36.92
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1002347	50.3057	50.306	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1634224			130.15- 190.15	163.04
5.819	5.819 (0.722)	98	647476			33.25- 93.25	64.60

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	2115624	54.3813	54.381	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1498787			43.10- 103.10	70.84
6.179	6.179 (0.767)	86	287765			0.00- 43.40	13.60
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1843771	53.3004	53.300	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	546001			0.18- 60.18	29.61
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	394410	57.3526	57.353	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2573973			625.71- 685.71	652.61
7.672	7.672 (0.952)	57	176044			13.65- 73.65	44.63
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1373046	56.2377	56.238	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	912279			34.80- 94.80	66.44
7.617	7.617 (0.945)	98	565083			11.24- 71.24	41.16
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1522665	49.8595	49.859	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	352939			0.00- 52.63	23.18
8.031	8.059 (0.997)	72	392915			0.00- 55.26	25.80
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1574145	51.9390	51.939	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1020610			32.92- 92.92	64.84
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1589637	52.6600	52.660	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1009061			35.49- 95.49	63.48
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1178331	56.3191	56.319	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	1947901			133.76- 193.76	165.31
8.418	8.418 (1.045)	41	1152908			68.20- 128.20	97.84
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.649 (0.828)	86	213523	51.9020	51.902	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3230905			1380.92-1440.92	1513.14
6.649	6.649 (0.825)	42	236695			74.35- 134.35	110.85
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1356795	53.8588	53.859	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1397303			75.99- 135.99	102.99

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	5637389	56.4239	56.424	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1825510			2.94- 62.94	32.38
9.110	9.110 (1.130)	41	1531968			0.00- 58.32	27.18
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2367723	47.2566	47.256	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	567567			0.00- 53.11	23.97
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1292351	50.5563	50.556	80.00- 120.00	100.00
9.276	9.276 (0.936)	64	398991			1.72- 61.72	30.87
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	278980	52.4738	52.474	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2433540			796.32- 856.32	872.30
9.497	9.469 (0.958)	71	825944			255.07- 315.07	296.06
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1002791	50.0636	50.064	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	949673			65.07- 125.07	94.70
10.326	10.326 (1.042)	97	638980			32.61- 92.61	63.72
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	928261	50.3048	50.305	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	665398			40.08- 100.08	71.68
10.852	10.852 (1.095)	41	712180			53.54- 113.54	76.72
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	533793	51.9498	51.950	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	517624			67.29- 127.29	96.97
11.073	11.073 (1.117)	57	164302			1.20- 61.20	30.78
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1488434	51.5575	51.557	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	950209			34.28- 94.28	63.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1045889	55.5723	55.572	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	329649			2.42- 62.42	31.52
12.317	12.317 (1.243)	39	849792			52.17- 112.17	81.25
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	857759	55.1544	55.154	80.00- 120.00	100.00
12.594	12.594 (1.271)	43	2535448			271.12- 331.12	295.59
12.594	12.594 (1.271)	85	288163			3.14- 63.14	33.59

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2528450	54.8490	54.849	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1494629			30.02- 90.02	59.11
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1083614	53.4302	53.430	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	341485			1.40- 61.40	31.51
13.368	13.368 (0.891)	39	814544			47.09- 107.09	75.17
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	828517	49.1724	49.172	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	527032			30.01- 90.01	63.61
13.644	13.644 (0.910)	83	685092			49.69- 109.69	82.69
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	999987	48.8148	48.815	80.00- 120.00	100.00
13.700	13.700 (0.913)	129	816251			53.41- 113.41	81.63
13.700	13.700 (0.913)	131	783766			50.17- 110.17	78.38
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1147465	52.3048	52.305	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2471297			185.06- 245.06	215.37
14.031	14.031 (0.935)	100	168685			0.00- 45.43	14.70
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1289749	52.7928	52.793	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	990811			47.68- 107.68	76.82
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1260133	51.5286	51.528	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1185831			64.06- 124.06	94.10
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1909263	50.1134	50.113	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	599721			2.07- 62.07	31.41
15.027	15.027 (1.002)	77	1191553			33.42- 93.42	62.41
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1008521	49.6849	49.685	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3482791			309.29- 369.29	345.34
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1277959	51.1413	51.141	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2815045			189.13- 249.13	220.28
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1204570	55.3244	55.324	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2793624			201.36- 261.36	231.92
133 Styrene					CAS #: 100-42-5		
15.911	15.912 (1.061)	104	1879306	52.7849	52.785	80.00- 120.00	100.00
15.911	15.912 (1.061)	78	1025437			25.71- 85.71	54.56
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1116750	51.0349	51.035	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	582569			21.21- 81.21	52.17
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1724706	49.6796	49.680	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1097926			33.47- 93.47	63.66
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3734753	53.5141	53.514	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1094384			0.00- 59.08	29.30
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3409080	50.6498	50.650	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1598293			16.12- 76.12	46.88
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3035804	54.8365	54.836	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1387750			15.53- 75.53	45.71
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1975105	48.6749	48.675	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1269773			33.90- 93.90	64.29
17.764	17.764 (1.184)	111	835686			10.87- 70.87	42.31
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2333574	50.5140	50.514	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1466807			33.48- 93.48	62.86
17.847	17.847 (1.190)	111	1012983			14.34- 74.34	43.41
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3528591	59.1499	59.150	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	645933			0.00- 48.72	18.31
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2048309	46.4301	46.430	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1325056			32.08- 92.08	64.69
18.206	18.206 (1.214)	111	847700			10.94- 70.94	41.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1469033	46.6149	46.615	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1394509			65.87- 125.87	94.93
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1123020	47.8315	47.832	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	679198			32.02- 92.02	60.48
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4467021	52.8025	52.802	80.00- 120.00	100.00
16.852	16.852 (1.123)	120	982197			0.00- 51.88	21.99
16.824	16.852 (1.122)	105	156938			0.00- 33.52	3.51
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3758258	52.7224	52.722	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1021648			0.00- 55.75	27.18
16.326	16.326 (1.088)	51	581540			0.00- 45.19	15.47
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4593835	45.5446	45.544	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	596743			0.00- 42.58	12.99
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1994519	50.2267	50.227	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1227820			30.45- 90.45	61.56
3.414	3.414 (0.424)	72	108963			0.00- 35.68	5.46
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	336742	53.0155	53.015	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	2677403			767.20- 827.20	795.09
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1403695	53.5817	53.582	80.00- 120.00	100.00
10.575	10.547 (1.067)	98	733033			21.00- 81.00	52.22
10.547	10.547 (1.064)	55	1674728			91.46- 151.46	119.31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092813.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 100ppbv -> 50ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	308638	6.84
92 1,4-Difluorobenze	1067015	640209	1493821	1182971	10.87
125 Chlorobenzene-d5	887636	532582	1242690	968431	9.10

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

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

Report Date: 30-Sep-2007 09:02

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-28sep
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 100ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.238	104.48	70-130
9 Freon 114	50.000	50.051	100.10	70-130
10 Chloromethane	50.000	50.527	101.05	70-130
13 Vinyl Chloride	50.000	53.185	106.37	70-130
12 1,3-Butadiene	50.000	52.337	104.67	60-140
15 Bromomethane	50.000	53.819	107.64	70-130
19 Chloroethane	50.000	46.992	93.98	70-130
20 Trichlorofluoromet	50.000	51.317	102.63	70-130
26 Ethanol	50.000	48.677	97.35	60-140
30 Freon 113	50.000	57.016	114.03	70-130
31 1,1-Dichloroethene	50.000	57.939	115.88	70-130
35 Carbon Disulfide	50.000	52.666	105.33	60-140
32 Acetone	50.000	53.836	107.67	60-140
36 2-Propanol	50.000	54.678	109.36	60-140
38 3-Chloropropene	50.000	52.771	105.54	60-140
43 Methylene Chloride	50.000	55.218	110.44	70-130
46 MTBE	50.000	32.492	64.98	60-140
47 trans-1,2-Dichloro	50.000	50.306	100.61	60-140
51 Hexane	50.000	54.381	108.76	60-140
55 1,1-Dichloroethane	50.000	53.300	106.60	70-130
66 cis-1,2-Dichloroet	50.000	56.238	112.48	70-130
67 2-Butanone	50.000	57.353	114.71	60-140
70 Tetrahydrofuran	50.000	49.859	99.72	60-140
72 Chloroform	50.000	51.939	103.88	70-130
74 Cyclohexane	50.000	56.319	112.64	60-140
75 1,1,1-Trichloroeth	50.000	52.660	105.32	70-130
56 Vinyl Acetate	50.000	51.902	103.80	60-140
77 Carbon Tetrachlori	50.000	53.859	107.72	70-130
80 2,2,4-Trimethylpen	50.000	56.424	112.85	60-140
81 Benzene	50.000	47.256	94.51	70-130
85 1,2-Dichloroethane	50.000	50.556	101.11	70-130
90 Heptane	50.000	52.474	104.95	60-140
93 Trichloroethene	50.000	50.064	100.13	70-130

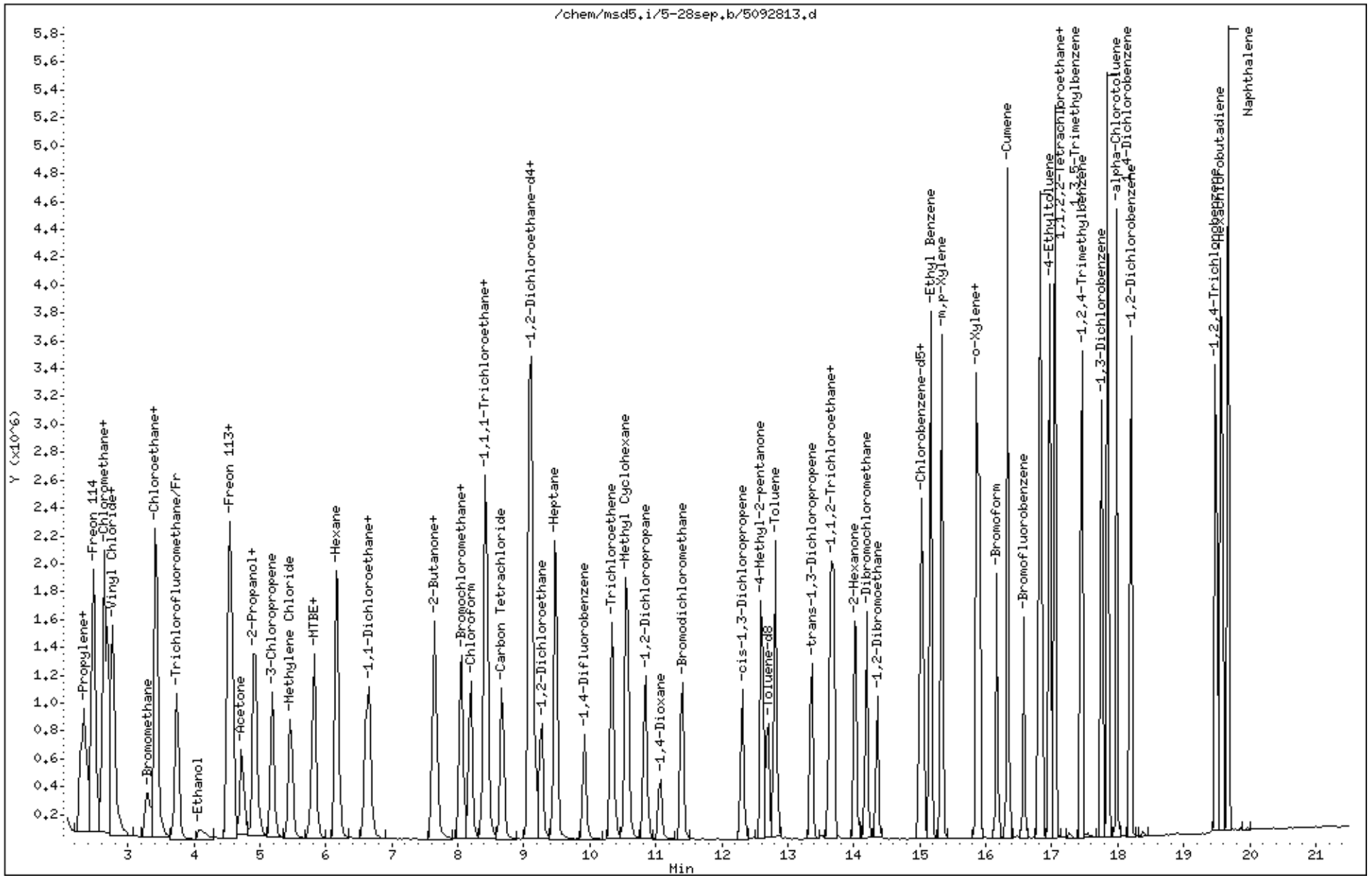
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	50.305	100.61	70-130
99 1,4-Dioxane	50.000	51.950	103.90	60-140
100 Bromodichlorometha	50.000	51.557	103.11	60-140
103 cis-1,3-Dichloropr	50.000	55.572	111.14	70-130
106 4-Methyl-2-pentano	50.000	55.154	110.31	60-140
108 Toluene	50.000	54.849	109.70	70-130
113 trans-1,3-Dichloro	50.000	53.430	106.86	70-130
114 1,1,2-Trichloroeth	50.000	49.172	98.34	70-130
116 Tetrachloroethene	50.000	48.815	97.63	70-130
119 2-Hexanone	50.000	52.305	104.61	60-140
120 Dibromochlorometha	50.000	52.793	105.59	60-140
122 1,2-Dibromoethane	50.000	51.528	103.06	70-130
126 Chlorobenzene	50.000	50.113	100.23	70-130
128 Ethyl Benzene	50.000	49.685	99.37	70-130
130 m,p-Xylene	50.000	51.141	102.28	70-130
132 o-Xylene	50.000	55.324	110.65	70-130
133 Styrene	50.000	52.785	105.57	70-130
134 Bromoform	50.000	51.035	102.07	60-140
136 Cumene	50.000	52.722	105.44	60-140
141 1,1,2,2-Tetrachlor	50.000	49.680	99.36	70-130
142 Propylbenzene	50.000	52.802	105.61	60-140
144 4-Ethyltoluene	50.000	53.514	107.03	60-140
147 1,3,5-Trimethylben	50.000	50.650	101.30	70-130
152 1,2,4-Trimethylben	50.000	54.836	109.67	70-130
155 1,3-Dichlorobenzen	50.000	48.675	97.35	70-130
156 1,4-Dichlorobenzen	50.000	50.514	101.03	70-130
157 alpha-Chlorotoluen	50.000	59.150	118.30	70-130
159 1,2-Dichlorobenzen	50.000	46.430	92.86	70-130
163 1,2,4-Trichloroben	50.000	46.615	93.23	70-130
164 Hexachlorobutadien	50.000	47.832	95.66	70-130
6 Propylene	50.000	53.572	107.14	70-130
165 Naphthalene	50.000	45.544	91.09	60-140
11 Butane	50.000	53.015	106.03	70-130
17 Isopentane	50.000	50.227	100.45	70-130
94 Methyl Cyclohexane	50.000	53.582	107.16	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.208	96.83	70-130
$ 107 Toluene-d8	25.000	25.017	100.07	70-130
$ 138 Bromofluorobenzene	25.000	24.951	99.80	70-130

Data File: /chem/msd5.i/5-28sep.b/5092813.d
Date : 28-SEP-2007 18:05
Client ID: LCS
Sample Info: 100mL #1443-295A

Instrument: msd5.i
Operator: lmr
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/5-28sep.b/5092805.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 28-SEP-2007 11:16
Operator : lmr Inst ID: msd5.i
Smp Info : 0.3mL #1576-18
Misc Info : 200ppbv -> 0.3ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:28 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 11:16 Cal File: 5092805.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	354720	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	279339			49.43- 109.43	78.75
8.059	8.059 (1.000)	49	794578			190.13- 250.13	224.00
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.939	9.939 (1.000)	114	1264899	25.0000		70.00- 130.00	100.00
9.939	9.939 (1.000)	88	205042			0.00- 47.82	16.21
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	993543	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	591494			0.00- 30.00	59.53
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	539231	25.0000	24.069	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	247919			0.00- 30.00	45.98
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.278)	98	1090458	25.0000	24.422	70.00- 130.00	100.00
12.704	12.704 (1.278)	70	111677			0.00- 30.00	10.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.278)	100	697414			0.00- 30.00	63.96
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.575	16.575 (1.105)	174	475547	25.0000	23.774	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	761826			127.13- 187.13	160.20
16.575	16.575 (1.105)	176	455929			69.27- 129.27	95.87
72 Chloroform						CAS #: 67-66-3	
8.197	8.197 (1.017)	83	11674	0.30000	0.3351	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	6501			32.92- 92.92	55.69
81 Benzene						CAS #: 71-43-2	
9.110	9.110 (0.917)	78	23846	0.30000	0.4451	70.00- 130.00	100.00
9.110	9.110 (0.917)	77	6096			0.00- 30.00	25.56
133 Styrene						CAS #: 100-42-5	
15.912	15.912 (1.061)	104	11452	0.30000	0.3135	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	7550			25.71- 85.71	65.93
136 Cumene						CAS #: 98-82-8	
16.326	16.326 (1.088)	105	24807	0.30000	0.3392	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	7287			0.00- 30.00	29.37
16.326	16.326 (1.088)	51	3397			0.00- 30.00	13.69

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092805.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 0.3ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	354720	22.79
92 1,4-Difluorobenze	1067015	640209	1493821	1264899	18.55
125 Chlorobenzene-d5	887636	532582	1242690	993543	11.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.94	0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-28sep.b/5092805.d

Date : 28-SEP-2007 11:16

Client ID: Level 1

Sample Info: 0.3mL #1576-18

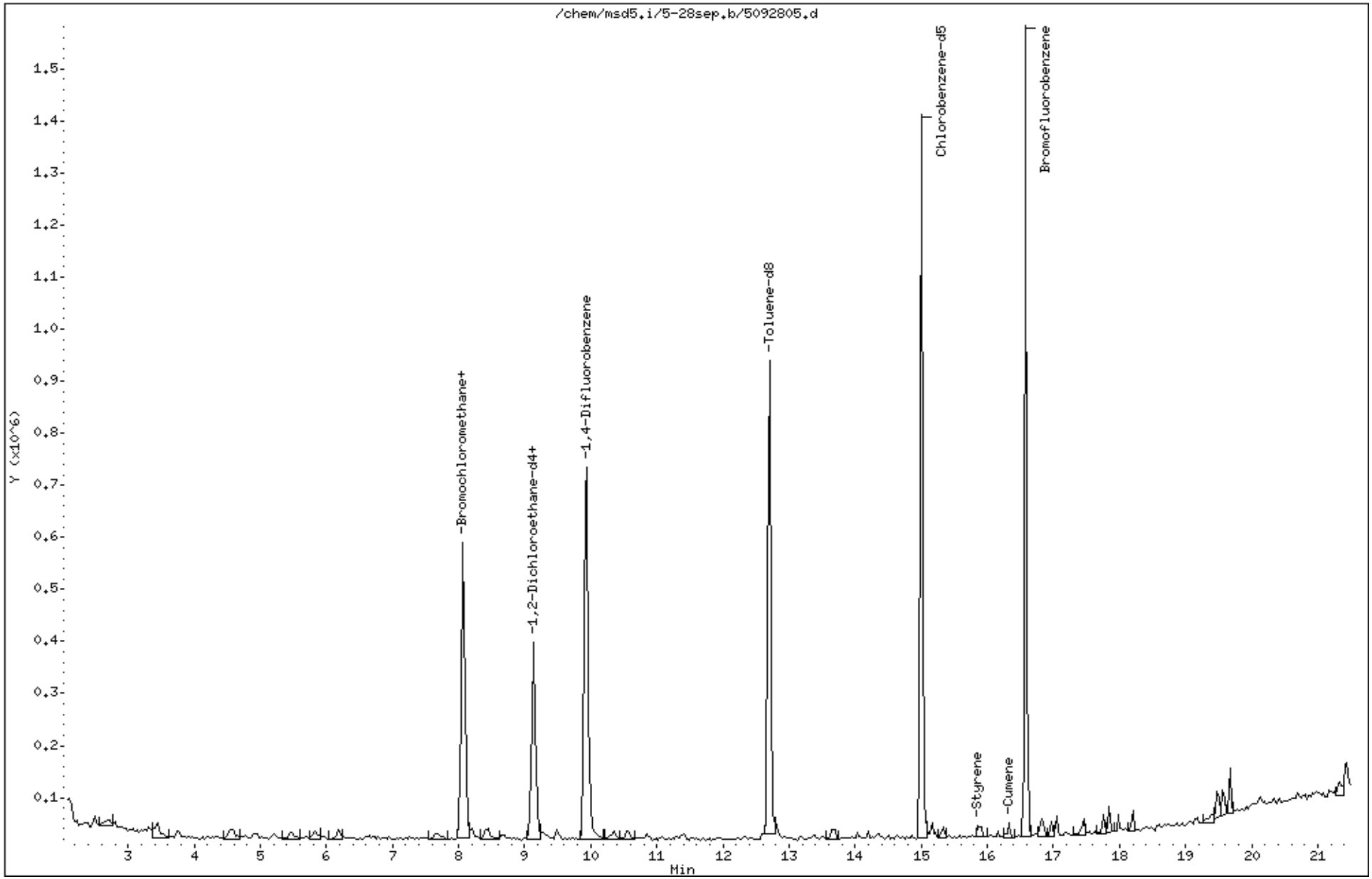
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0079



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092806.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 28-SEP-2007 11:44
Operator : lmr Inst ID: msd5.i
Smp Info : 0.5mL #1576-18
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:28 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 11:44 Cal File: 5092806.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04Low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	278524	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	213581			49.43- 109.43	76.68
8.059	8.059 (1.000)	49	633448			190.13- 250.13	227.43
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1023554	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	177262			0.00- 47.82	17.32
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	788920	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	479492			0.00- 30.00	60.78
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	438165	25.0000	24.908	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	198414			0.00- 30.00	45.28
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	866161	25.0000	23.972	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	87573			0.00- 30.00	10.11

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	536122			0.00- 30.00	61.90
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	394749	25.0000	24.854	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	623871			127.13- 187.13	158.04
16.575	16.575 (1.105)	176	386115			69.27- 129.27	97.81
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	11858	0.50000	0.3905	70.00- 130.00	100.00(a)
2.336	2.336 (0.290)	87	3994			0.00- 30.00	33.68
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	14945	0.50000	0.4846	70.00- 130.00	100.00(a)
2.474	2.474 (0.307)	137	3535			2.55- 62.55	23.65
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	9462	0.50000	0.4407	70.00- 130.00	100.00(a)
2.833	2.833 (0.352)	64	4867			0.00- 30.00	51.44
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	8440	0.50000	0.4089	70.00- 130.00	100.00(a)
2.750	2.750 (0.341)	39	12752			0.00- 30.00	151.09
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	5355	0.50000	0.3730	70.00- 130.00	100.00(a)
3.303	3.303 (0.410)	96	5738			66.08- 126.08	107.15
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	5909	0.50000	0.4996	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	49	2652			0.00- 30.00	44.88
3.718	3.718 (0.461)	66	3392			0.00- 30.00	57.40
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	15558	0.50000	0.4449	70.00- 130.00	100.00(a)
3.746	3.746 (0.465)	103	9914			34.66- 94.66	63.72
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	10914	0.50000	0.4771	70.00- 130.00	100.00(a)
4.548	4.548 (0.564)	153	7296			32.72- 92.72	66.85
4.520	4.520 (0.561)	101	10951			99.74- 159.74	100.34
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	13859	0.50000	0.4868	70.00- 130.00	100.00(a)
4.575	4.575 (0.568)	96	8032			26.18- 86.18	57.96
4.575	4.575 (0.568)	98	4947			6.71- 66.71	35.70

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	19461	0.50000	0.4204	70.00- 130.00	100.00(a)
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	11889	0.50000	0.4610	70.00- 130.00	100.00(a)
5.432	5.432 (0.674)	84	7638			22.80- 82.80	64.24
5.432	5.432 (0.674)	51	4635			0.00- 30.00	38.99
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	10416	0.50000	0.8220	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	2480			4.56- 64.56	23.81
5.792	5.792 (0.719)	41	9409			0.00- 30.00	90.33
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	9333	0.50000	0.5190	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	11420			130.15- 190.15	122.36
5.819	5.819 (0.722)	98	4149			0.00- 30.00	44.46
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	14512	0.50000	0.4134	70.00- 130.00	100.00(a)
6.179	6.179 (0.767)	43	12651			0.00- 30.00	87.18
6.179	6.179 (0.767)	86	1237			0.00- 30.00	8.52
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	15674	0.50000	0.5021	70.00- 130.00	100.00
6.621	6.621 (0.822)	65	4641			0.18- 60.18	29.61
67 2-Butanone					CAS #: 78-93-3		
7.700	7.700 (0.955)	72	1766	0.50000	0.2846	70.00- 130.00	100.00(Ta)
7.672	7.672 (0.952)	43	16495			625.71- 685.71	934.03
0.000	1.000 (0.000)	57	0			0.00- 30.00	0.00
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.644	7.644 (0.949)	61	8173	0.50000	0.3709	70.00- 130.00	100.00(a)
7.617	7.617 (0.945)	96	7460			34.80- 94.80	91.28
7.617	7.617 (0.945)	98	7064			11.24- 71.24	86.43
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	14346	0.50000	0.5205	70.00- 130.00	100.00
8.087	8.087 (1.003)	71	3102			0.00- 52.63	21.62
8.059	8.059 (1.000)	72	4450			0.00- 30.00	31.02
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	11614	0.50000	0.4246	70.00- 130.00	100.00(a)
8.197	8.197 (1.017)	85	7852			32.92- 92.92	67.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.418	8.418 (1.045)	97	12827	0.50000	0.4709	70.00- 130.00	100.00(a)
8.446	8.446 (1.048)	99	8167			35.49- 95.49	63.67
74 Cyclohexane					CAS #: 110-82-7		
8.391	8.391 (1.041)	84	6859	0.50000	0.3633	70.00- 130.00	100.00(a)
8.391	8.391 (1.041)	56	13950			133.76- 193.76	203.38
8.391	8.391 (1.041)	41	10582			68.20- 128.20	154.28
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	8742	0.50000	0.3845	70.00- 130.00	100.00(a)
8.667	8.667 (1.075)	117	11442			75.99- 135.99	130.89
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.082	9.082 (1.127)	57	32888	0.50000	0.3648	70.00- 130.00	100.00(a)
9.110	9.110 (1.130)	56	10848			0.00- 30.00	32.98
9.082	9.082 (1.127)	41	12024			0.00- 30.00	36.56
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	19375	0.50000	0.4469	70.00- 130.00	100.00(a)
9.082	9.082 (0.916)	77	4134			0.00- 30.00	21.34
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	11113	0.50000	0.5024	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	3981			0.00- 30.00	35.82
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1967	0.50000	0.4276	70.00- 130.00	100.00(a)
9.469	9.469 (0.955)	43	16017			0.00- 30.00	814.29
9.469	9.469 (0.955)	71	6068			0.00- 30.00	308.49
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	8685	0.50000	0.5011	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	7437			65.07- 125.07	85.63
10.326	10.326 (1.042)	97	5381			32.61- 92.61	61.96
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	8636	0.50000	0.5409	70.00- 130.00	100.00
10.824	10.824 (1.092)	62	4213			40.08- 100.08	48.78
10.852	10.852 (1.095)	41	8117			53.54- 113.54	93.99
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	12316	0.50000	0.4930	70.00- 130.00	100.00(a)
11.405	11.405 (1.151)	85	6974			34.28- 94.28	56.63
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	6090	0.50000	0.3740	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 cis-1,3-Dichloropropene (continued)							
12.289	12.289 (1.240)	77	2596			2.42- 62.42	42.63
12.317	12.317 (1.243)	39	7503			52.17- 112.17	123.20
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	5005	0.50000	0.3719	70.00- 130.00	100.00(a)
12.594	12.594 (1.271)	43	14186			0.00- 30.00	283.44
12.649	12.649 (1.276)	85	1959			0.00- 30.00	39.14
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	16791	0.50000	0.4210	70.00- 130.00	100.00(a)
12.815	12.815 (1.293)	92	11593			30.02- 90.02	69.04
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	7380	0.50000	0.4467	70.00- 130.00	100.00(a)
13.368	13.368 (0.891)	77	2375			1.40- 61.40	32.18
13.368	13.368 (0.891)	39	6206			47.09- 107.09	84.09
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	7347	0.50000	0.5353	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	4321			30.01- 90.01	58.81
13.644	13.644 (0.910)	83	5317			49.69- 109.69	72.37
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	8658	0.50000	0.5188	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	6872			53.41- 113.41	79.37
13.672	13.672 (0.912)	131	6533			50.17- 110.17	75.46
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	7865	0.50000	0.3952	70.00- 130.00	100.00(a)
14.197	14.197 (0.947)	127	6692			0.00- 30.00	85.09
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	8630	0.50000	0.4332	70.00- 130.00	100.00(a)
14.363	14.363 (0.958)	109	7107			64.06- 124.06	82.35
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	15513	0.50000	0.4998	70.00- 130.00	100.00(a)
15.027	15.027 (1.002)	114	6946			2.07- 62.07	44.78
15.027	15.027 (1.002)	77	13972			33.42- 93.42	90.07
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	8012	0.50000	0.4845	70.00- 130.00	100.00(a)
15.165	15.165 (1.011)	91	23969			0.00- 30.00	299.16
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	9100	0.50000	0.4470	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
15.331	15.331 (1.022)	91	18870			0.00- 30.00	207.36
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5740	0.50000	0.3236	70.00- 130.00	100.00(a)
15.856	15.856 (1.057)	91	15276			201.36- 261.36	266.13
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	11004	0.50000	0.3794	70.00- 130.00	100.00(a)
15.911	15.911 (1.061)	78	4398			25.71- 85.71	39.97
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	8036	0.50000	0.4508	70.00- 130.00	100.00(a)
16.160	16.160 (1.077)	171	3228			21.21- 81.21	40.17
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	13928	0.50000	0.4925	70.00- 130.00	100.00(a)
16.796	16.796 (1.120)	85	8834			33.47- 93.47	63.43
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	20312	0.50000	0.3573	70.00- 130.00	100.00(a)
16.962	16.962 (1.131)	120	7716			0.00- 59.08	37.99
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	24670	0.50000	0.4499	70.00- 130.00	100.00(a)
17.045	17.045 (1.136)	120	8955			0.00- 30.00	36.30
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	14342	0.50000	0.3180	70.00- 130.00	100.00(a)
17.460	17.460 (1.164)	120	8421			15.53- 75.53	58.72
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	13985	0.50000	0.4231	70.00- 130.00	100.00(a)
17.764	17.764 (1.184)	148	9477			0.00- 30.00	67.77
17.764	17.764 (1.184)	111	7180			0.00- 30.00	51.34
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	17182	0.50000	0.4566	70.00- 130.00	100.00(a)
17.847	17.847 (1.190)	148	11191			0.00- 30.00	65.13
17.847	17.847 (1.190)	111	7910			0.00- 30.00	46.04
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	16014	0.50000	0.3295	70.00- 130.00	100.00(a)
17.985	17.985 (1.199)	126	3040			0.00- 30.00	18.98
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	17895	0.50000	0.4979	70.00- 130.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 1,2-Dichlorobenzene (continued)							
18.206	18.206 (1.214)	148	9501			32.08- 92.08	53.09
18.206	18.206 (1.214)	111	9353			10.94- 70.94	52.27
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	28967	0.50000	0.4203	70.00- 130.00	100.00(a)
16.852	16.852 (1.123)	120	6967			0.00- 30.00	24.05
16.824	16.824 (1.122)	105	1881			0.00- 30.00	6.49
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	23791	0.50000	0.4097	70.00- 130.00	100.00(a)
16.326	16.326 (1.088)	120	4734			0.00- 30.00	19.90
16.326	16.326 (1.088)	51	4502			0.00- 30.00	18.92
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	9341	0.50000	0.4121	70.00- 130.00	100.00(a)
10.547	10.547 (1.064)	98	4801			0.00- 30.00	51.40
10.547	10.547 (1.064)	55	13008			0.00- 30.00	139.26

QC Flag Legend

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

Report Date: 01-Oct-2007 08:28

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092806.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	278524	-3.59
92 1,4-Difluorobenze	1067015	640209	1493821	1023554	-4.07
125 Chlorobenzene-d5	887636	532582	1242690	788920	-11.12

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

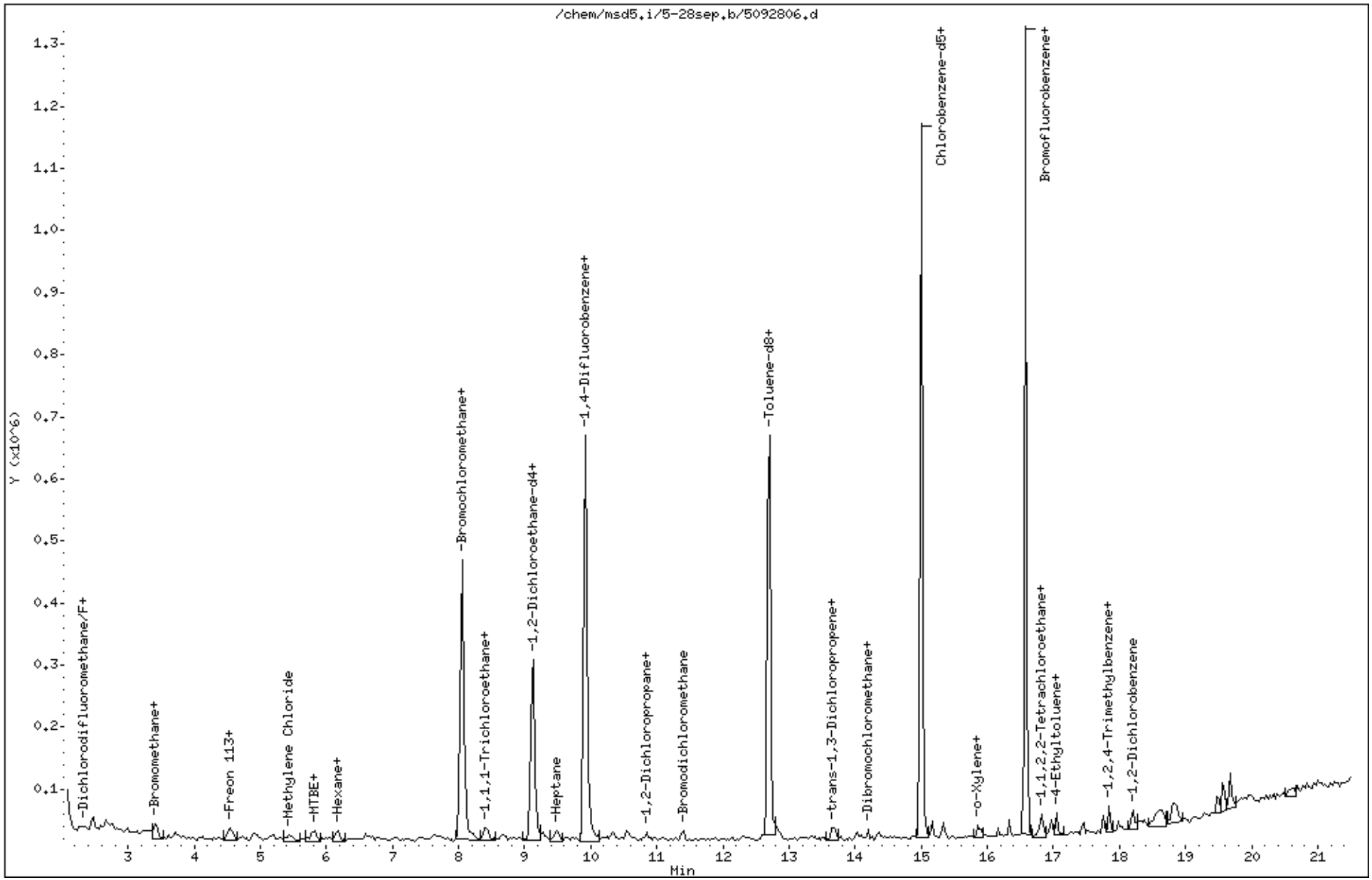
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-28sep.b/5092806.d
Date : 28-SEP-2007 11:44
Client ID: Level 2
Sample Info: 0.5mL #1576-18

Instrument: msd5.i

Operator: lmr
Column diameter: 0.53

Column phase: RTx-624



0088

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092807.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 28-SEP-2007 12:12
Operator : lmr Inst ID: msd5.i
Smp Info : 2.0mL #1576-18
Misc Info : 200ppbv -> 2.0ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 12:12 Cal File: 5092807.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	272047	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	211018			49.43- 109.43	77.57
8.059	8.059 (1.000)	49	623962			190.13- 250.13	229.36
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1002411	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	169801			0.00- 47.82	16.94
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	822847	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	493869			0.00- 30.00	60.02
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	422438	25.0000	24.586	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	205997			0.00- 30.00	48.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	850293	25.0000	24.030	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	88442			0.00- 30.00	10.40

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	550431			0.00- 30.00	64.73
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	400237	25.0000	24.160	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	651709			127.13- 187.13	162.83
16.575	16.575 (1.105)	176	383700			69.27- 129.27	95.87
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	31494	2.00000	1.651	70.00- 130.00	100.00(a)
2.308	2.308 (0.286)	42	22675			0.00- 30.00	72.00
2.280	2.280 (0.283)	39	24606			0.00- 30.00	78.13
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	47518	2.00000	1.602	70.00- 130.00	100.00
2.363	2.363 (0.293)	87	15679			0.00- 30.00	33.00
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	53486	2.00000	1.776	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	16130			2.55- 62.55	30.16
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	45859	2.00000	1.778	70.00- 130.00	100.00(a)
2.640	2.640 (0.328)	52	15326			0.00- 30.00	33.42
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	33321	2.00000	1.589	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	14590			0.00- 30.00	43.79
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	33574	2.00000	1.665	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	38190			0.00- 30.00	113.75
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	21703	2.00000	1.548	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	23994			66.08- 126.08	110.56
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	22059	2.00000	1.909	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	7843			0.00- 30.00	35.55
3.386	3.386 (0.420)	66	7040			0.00- 30.00	31.91
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	54226	2.00000	1.587	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	35534			34.66- 94.66	65.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	11436	2.00000	1.657	70.00- 130.00	100.00(a)
4.078	4.078 (0.506)	43	3515			0.00- 30.00	30.74
4.105	4.105 (0.509)	46	5704			0.00- 30.00	49.88
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	36990	2.00000	1.655	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	25641			32.72- 92.72	69.32
4.520	4.520 (0.561)	101	51100			99.74- 159.74	138.15
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	42921	2.00000	1.543	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	26598			26.18- 86.18	61.97
4.575	4.575 (0.568)	98	16571			6.71- 66.71	38.61
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	17008	2.00000	1.652	70.00- 130.00	100.00(a)
4.741	4.741 (0.588)	43	55445			0.00- 30.00	325.99
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	51621	2.00000	1.410	70.00- 130.00	100.00(a)
4.935	4.935 (0.612)	43	14778			0.00- 30.00	28.63
4.935	4.935 (0.612)	59	2161			0.00- 30.00	4.19
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	77826	2.00000	1.721	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	9096	2.00000	1.285	70.00- 130.00	100.00(a)
5.184	5.184 (0.643)	41	50675			0.00- 30.00	557.11
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	46593	2.00000	1.850	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	23534			22.80- 82.80	50.51
5.460	5.460 (0.678)	51	14564			0.00- 30.00	31.26
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	29562	2.00000	2.388	70.00- 130.00	100.00
5.792	5.792 (0.719)	57	9831			4.56- 64.56	33.26
5.764	5.764 (0.715)	41	15442			0.00- 30.00	52.24
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.820	5.820 (0.722)	96	28373	2.00000	1.616	70.00- 130.00	100.00
5.820	5.820 (0.722)	61	48624			130.15- 190.15	171.37
5.820	5.820 (0.722)	98	18715			0.00- 30.00	65.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	57583	2.00000	1.679	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	45040			0.00- 30.00	78.22
6.179	6.179 (0.767)	86	7090			0.00- 30.00	12.31
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	50073	2.00000	1.642	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	14393			0.18- 60.18	28.74
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	9902	2.00000	1.634	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	55478			625.71- 685.71	560.27
7.672	7.672 (0.952)	57	4353			0.00- 30.00	43.96
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	35305	2.00000	1.640	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	27760			34.80- 94.80	78.63
7.617	7.617 (0.945)	98	16332			11.24- 71.24	46.26
70 Tetrahydrofuran					CAS #: 109-99-9		
8.059	8.059 (1.000)	42	47778	2.00000	1.775	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	11827			0.00- 52.63	24.75
8.059	8.059 (1.000)	72	13953			0.00- 30.00	29.20
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	49333	2.00000	1.847	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	27437			32.92- 92.92	55.62
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	42895	2.00000	1.612	70.00- 130.00	100.00
8.419	8.419 (1.045)	99	28561			35.49- 95.49	66.58
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.419 (1.045)	84	31287	2.00000	1.696	70.00- 130.00	100.00
8.391	8.391 (1.041)	56	50781			133.76- 193.76	162.31
8.419	8.419 (1.045)	41	36076			68.20- 128.20	115.31
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	4388	2.00000	1.210	70.00- 130.00	100.00(a)
6.677	6.677 (0.828)	43	50690			0.00- 30.00	1155.20
6.677	6.677 (0.828)	42	5438			0.00- 30.00	123.93
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	37617	2.00000	1.694	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	36310			75.99- 135.99	96.53

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	136513	2.00000	1.550	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	49368			0.00- 30.00	36.16
9.110	9.110 (1.130)	41	42684			0.00- 30.00	31.27
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	61319	2.00000	1.444	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	15876			0.00- 30.00	25.89
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	35713	2.00000	1.649	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	11579			0.00- 30.00	32.42
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	5984	2.00000	1.328	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	52761			0.00- 30.00	881.70
9.469	9.469 (0.955)	71	20002			0.00- 30.00	334.26
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	29510	2.00000	1.739	70.00- 130.00	100.00
10.354	10.354 (1.045)	130	29339			65.07- 125.07	99.42
10.326	10.326 (1.042)	97	15591			32.61- 92.61	52.83
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	25644	2.00000	1.640	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	17416			40.08- 100.08	67.91
10.852	10.852 (1.095)	41	20932			53.54- 113.54	81.63
99 1,4-Dioxane					CAS #: 123-91-1		
11.101	11.101 (1.120)	88	13849	2.00000	1.590	70.00- 130.00	100.00(a)
11.073	11.073 (1.117)	58	11171			67.29- 127.29	80.66
11.073	11.073 (1.117)	57	4404			0.00- 30.00	31.80
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	37631	2.00000	1.538	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	24057			34.28- 94.28	63.93
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	22575	2.00000	1.416	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	6910			2.42- 62.42	30.61
12.317	12.317 (1.243)	39	24666			52.17- 112.17	109.26
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	18811	2.00000	1.427	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	75681			0.00- 30.00	402.32
12.594	12.594 (1.271)	85	7054			0.00- 30.00	37.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	64171	2.00000	1.643	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	39895			30.02- 90.02	62.17
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	21032	2.00000	1.220	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	6350			1.40- 61.40	30.19
13.368	13.368 (0.891)	39	15597			47.09- 107.09	74.16
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	23123	2.00000	1.615	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	15339			30.01- 90.01	66.34
13.644	13.644 (0.910)	83	20195			49.69- 109.69	87.34
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	31147	2.00000	1.789	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	24881			53.41- 113.41	79.88
13.672	13.672 (0.912)	131	21447			50.17- 110.17	68.86
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	24594	2.00000	1.319	70.00- 130.00	100.00(a)
14.031	14.031 (0.935)	43	51296			185.06- 245.06	208.57
14.031	14.031 (0.935)	100	3579			0.00- 30.00	14.55
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	33090	2.00000	1.594	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	26562			0.00- 30.00	80.27
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	32902	2.00000	1.583	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	29908			64.06- 124.06	90.90
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	55591	2.00000	1.717	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	16531			2.07- 62.07	29.74
15.027	15.027 (1.002)	77	37519			33.42- 93.42	67.49
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	27350	2.00000	1.586	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	92521			0.00- 30.00	338.29
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	31328	2.00000	1.475	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	68657			0.00- 30.00	219.16
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	28151	2.00000	1.522	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	68355			201.36- 261.36	242.82
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	40290	2.00000	1.332	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	23539			25.71- 85.71	58.42
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	26616	2.00000	1.432	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	12984			21.21- 81.21	48.78
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	51984	2.00000	1.762	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	31111			33.47- 93.47	59.85
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	91719	2.00000	1.547	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	29458			0.00- 59.08	32.12
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	87236	2.00000	1.525	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	41183			0.00- 30.00	47.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	70666	2.00000	1.502	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	32461			15.53- 75.53	45.94
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	61993	2.00000	1.798	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	41048			0.00- 30.00	66.21
17.764	17.764 (1.184)	111	26437			0.00- 30.00	42.65
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	64639	2.00000	1.647	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	38138			0.00- 30.00	59.00
17.847	17.847 (1.190)	111	28770			0.00- 30.00	44.51
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	55631	2.00000	1.098	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	11543			0.00- 30.00	20.75
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	70424	2.00000	1.879	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	41835			32.08- 92.08	59.40
18.206	18.206 (1.214)	111	27773			10.94- 70.94	39.44

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	54314	2.00000	2.028	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	55795			65.87- 125.87	102.73
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	39870	2.00000	1.998	70.00- 130.00	100.00(a)
19.589	19.589 (1.306)	223	24359			32.02- 92.02	61.10
142 Propylbenzene					CAS #: 103-65-1		
16.852	16.852 (1.123)	91	115419	2.00000	1.606	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	25885			0.00- 30.00	22.43
16.824	16.824 (1.122)	105	4553			0.00- 30.00	3.94
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	80607	2.00000	1.331	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	24234			0.00- 30.00	30.06
16.326	16.326 (1.088)	51	17646			0.00- 30.00	21.89
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	176184	2.00000	2.056	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	21140			0.00- 30.00	12.00
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	57628	2.00000	1.646	70.00- 130.00	100.00(a)
3.414	3.414 (0.424)	57	33277			0.00- 30.00	57.74
3.414	3.414 (0.424)	72	3651			0.00- 30.00	6.34
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	8815	2.00000	1.574	70.00- 130.00	100.00(a)
2.695	2.695 (0.334)	43	81065			0.00- 30.00	919.63
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	34014	2.00000	1.532	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	16835			0.00- 30.00	49.49
10.548	10.548 (1.064)	55	40486			0.00- 30.00	119.03

QC Flag Legend

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

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092807.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 2.0ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	272047	-5.83
92 1,4-Difluorobenze	1067015	640209	1493821	1002411	-6.05
125 Chlorobenzene-d5	887636	532582	1242690	822847	-7.30

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

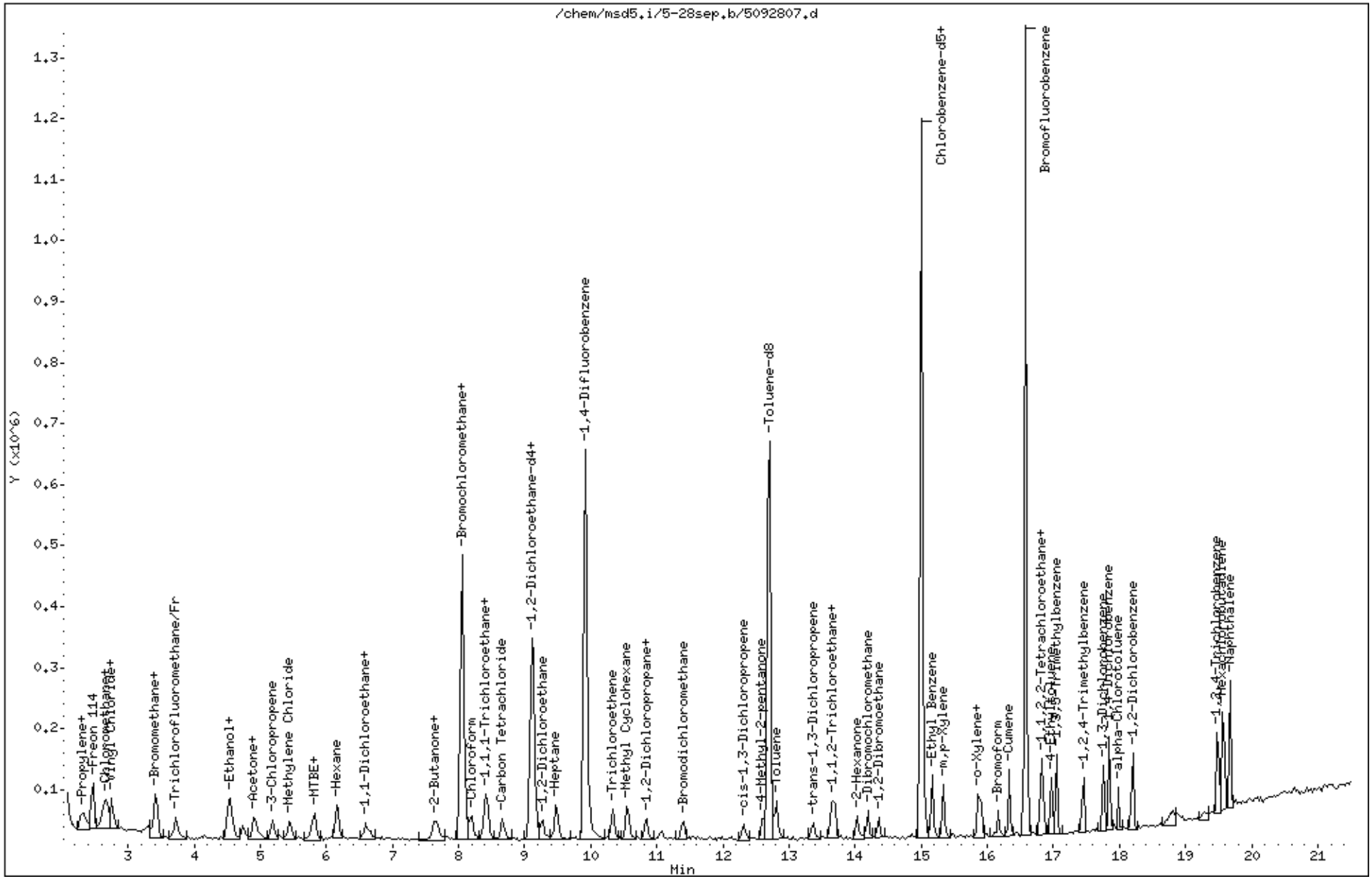
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd5.i/5-28sep.b/5092807.d
Date : 28-SEP-2007 12:12
Client ID: Level 3
Sample Info: 2.0mL #1576-18

Instrument: msd5.i

Operator: lmr

Column phase: RTx-624
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092808.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 28-SEP-2007 12:40
Operator : lmr Inst ID: msd5.i
Smp Info : 25ml #1576-18
Misc Info : 200ppbv -> 25ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 12:40 Cal File: 5092808.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	286270	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	225017			49.43- 109.43	78.60
8.059	8.059 (1.000)	49	623024			190.13- 250.13	217.64
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1031508	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	177460			0.00- 47.82	17.20
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	855863	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	490661			0.00- 30.00	57.33
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	428763	25.0000	23.714	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	216749			0.00- 30.00	50.55
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	914897	25.0000	25.126	70.00- 130.00	100.00
12.677	12.677 (1.279)	70	97597			0.00- 30.00	10.67

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	586332			0.00- 30.00	64.09
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	440423	25.0000	25.560	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	678580			127.13- 187.13	154.07
16.575	16.575 (1.105)	176	422986			69.27- 129.27	96.04
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	568994	25.0000	28.352	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	383486			0.00- 30.00	67.40
2.280	2.280 (0.283)	39	365319			0.00- 30.00	64.20
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	965957	25.0000	30.952	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	302036			0.00- 30.00	31.27
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	900685	25.0000	28.417	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	287104			2.55- 62.55	31.88
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	770401	25.0000	28.386	70.00- 130.00	100.00
2.612	2.612 (0.324)	52	210921			0.00- 30.00	27.38
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	631699	25.0000	28.625	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	193588			0.00- 30.00	30.65
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	607150	25.0000	28.617	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	699079			0.00- 30.00	115.14
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	427771	25.0000	28.988	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	420238			66.08- 126.08	98.24
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	329704	25.0000	27.120	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	100994			0.00- 30.00	30.63
3.414	3.414 (0.424)	66	98370			0.00- 30.00	29.84
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1033866	25.0000	28.763	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	654244			34.66- 94.66	63.28

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	203221	25.0000	27.990	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	39899			0.00- 30.00	19.63
4.078	4.078 (0.506)	46	89233			0.00- 30.00	43.91
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	663621	25.0000	28.224	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	422840			32.72- 92.72	63.72
4.520	4.520 (0.561)	101	864315			99.74- 159.74	130.24
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	808589	25.0000	27.632	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	468287			26.18- 86.18	57.91
4.575	4.575 (0.568)	98	295383			6.71- 66.71	36.53
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	285963	25.0000	26.404	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	926913			0.00- 30.00	324.14
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	1017350	25.0000	26.405	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	229534			0.00- 30.00	22.56
4.935	4.935 (0.612)	59	35227			0.00- 30.00	3.46
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	1346820	25.0000	28.308	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	215892	25.0000	28.987	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	899416			0.00- 30.00	416.60
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	726118	25.0000	27.392	70.00- 130.00	100.00
5.432	5.432 (0.674)	84	377828			22.80- 82.80	52.03
5.432	5.432 (0.674)	51	216827			0.00- 30.00	29.86
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	324211	25.0000	24.894	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	100556			4.56- 64.56	31.02
5.764	5.764 (0.715)	41	127512			0.00- 30.00	39.33
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	510373	25.0000	27.616	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	816907			130.15- 190.15	160.06
5.819	5.819 (0.722)	98	303525			0.00- 30.00	59.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	999366	25.0000	27.696	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	730029			0.00- 30.00	73.05
6.151	6.151 (0.763)	86	140830			0.00- 30.00	14.09
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	859634	25.0000	26.792	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	270753			0.18- 60.18	31.50
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	177073	25.0000	27.761	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	1183815			625.71- 685.71	668.55
7.672	7.672 (0.952)	57	76771			0.00- 30.00	43.36
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	647756	25.0000	28.604	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	430269			34.80- 94.80	66.42
7.617	7.617 (0.945)	98	268821			11.24- 71.24	41.50
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	728821	25.0000	25.730	70.00- 130.00	100.00
8.059	8.059 (1.000)	71	159654			0.00- 52.63	21.91
8.059	8.059 (1.000)	72	185484			0.00- 30.00	25.45
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	743286	25.0000	26.441	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	488225			32.92- 92.92	65.68
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	771585	25.0000	27.558	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	486966			35.49- 95.49	63.11
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	548578	25.0000	28.268	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	904928			133.76- 193.76	164.96
8.418	8.418 (1.045)	41	563995			68.20- 128.20	102.81
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.677 (0.828)	86	97809	25.0000	25.632	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	1375695			0.00- 30.00	1406.51
6.649	6.649 (0.825)	42	107091			0.00- 30.00	109.49
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	656227	25.0000	28.085	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	685825			75.99- 135.99	104.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	2598494	25.0000	28.040	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	839882			0.00- 30.00	32.32
9.110	9.110 (1.130)	41	745625			0.00- 30.00	28.69
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	1130607	25.0000	25.879	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	267832			0.00- 30.00	23.69
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	621760	25.0000	27.894	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	194015			0.00- 30.00	31.20
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	134367	25.0000	28.984	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	1106655			0.00- 30.00	823.61
9.469	9.469 (0.955)	71	389765			0.00- 30.00	290.07
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	474593	25.0000	27.173	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	454546			65.07- 125.07	95.78
10.326	10.326 (1.042)	97	312195			32.61- 92.61	65.78
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	433949	25.0000	26.970	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	296488			40.08- 100.08	68.32
10.852	10.852 (1.095)	41	375966			53.54- 113.54	86.64
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	233072	25.0000	26.014	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	237968			67.29- 127.29	102.10
11.073	11.073 (1.117)	57	82951			0.00- 30.00	35.59
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	697974	25.0000	27.727	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	452550			34.28- 94.28	64.84
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	469533	25.0000	28.611	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	147016			2.42- 62.42	31.31
12.317	12.317 (1.243)	39	393841			52.17- 112.17	83.88
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	391731	25.0000	28.887	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	1158896			0.00- 30.00	295.84
12.621	12.621 (1.273)	85	123781			0.00- 30.00	31.60

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	1148378	25.0000	28.569	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	685682			30.02- 90.02	59.71
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	491054	25.0000	27.397	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	158052			1.40- 61.40	32.19
13.368	13.368 (0.891)	39	364785			47.09- 107.09	74.29
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	407163	25.0000	27.343	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	249828			30.01- 90.01	61.36
13.644	13.644 (0.910)	83	313725			49.69- 109.69	77.05
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	502789	25.0000	27.772	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	409741			53.41- 113.41	81.49
13.700	13.700 (0.913)	131	385058			50.17- 110.17	76.58
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	498431	25.0000	25.708	70.00- 130.00	100.00
14.031	14.031 (0.935)	43	1081183			185.06- 245.06	216.92
14.031	14.031 (0.935)	100	76041			0.00- 30.00	15.26
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	608507	25.0000	28.184	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	495160			0.00- 30.00	81.37
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	606143	25.0000	28.046	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	590881			64.06- 124.06	97.48
126 Chlorobenzene					CAS #: 108-90-7		
15.027	15.027 (1.002)	112	916590	25.0000	27.222	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	299557			2.07- 62.07	32.68
15.027	15.027 (1.002)	77	573469			33.42- 93.42	62.57
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	487673	25.0000	27.185	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	1657978			0.00- 30.00	339.98
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	616227	25.0000	27.904	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	1329721			0.00- 30.00	215.78
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	565821	25.0000	29.405	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	1315689			201.36- 261.36	232.53
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	892961	25.0000	28.380	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	500424			25.71- 85.71	56.04
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	545200	25.0000	28.192	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	274250			21.21- 81.21	50.30
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	825009	25.0000	26.890	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	536047			33.47- 93.47	64.97
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	1774750	25.0000	28.774	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	520312			0.00- 59.08	29.32
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	1682410	25.0000	28.284	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	768232			0.00- 30.00	45.66
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	1416323	25.0000	28.948	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	657760			15.53- 75.53	46.44
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	995545	25.0000	27.761	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	620349			0.00- 30.00	62.31
17.764	17.764 (1.184)	111	396578			0.00- 30.00	39.84
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	1141766	25.0000	27.966	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	721937			0.00- 30.00	63.23
17.847	17.847 (1.190)	111	506907			0.00- 30.00	44.40
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	1408427	25.0000	26.715	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	268082			0.00- 30.00	19.03
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	1047258	25.0000	26.861	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	662899			32.08- 92.08	63.30
18.206	18.206 (1.214)	111	414389			10.94- 70.94	39.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	698419	25.0000	25.077	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	650933			65.87- 125.87	93.20
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	544749	25.0000	26.254	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	338260			32.02- 92.02	62.09
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	2080566	25.0000	27.828	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	445687			0.00- 30.00	21.42
16.824	16.824 (1.122)	105	76071			0.00- 30.00	3.66
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	1758057	25.0000	27.906	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	469034			0.00- 30.00	26.68
16.326	16.326 (1.088)	51	287564			0.00- 30.00	16.36
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	2257805	25.0000	25.329	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	278527			0.00- 30.00	12.34
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	995628	25.0000	27.031	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	626033			0.00- 30.00	62.88
3.414	3.414 (0.424)	72	54353			0.00- 30.00	5.46
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	168765	25.0000	28.646	70.00- 130.00	100.00
2.667	2.667 (0.331)	43	1313767			0.00- 30.00	778.46
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.548 (1.064)	83	651798	25.0000	28.534	70.00- 130.00	100.00
10.548	10.548 (1.064)	98	310768			0.00- 30.00	47.68
10.548	10.548 (1.064)	55	789172			0.00- 30.00	121.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092808.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 25ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	286270	-0.91
92 1,4-Difluorobenze	1067015	640209	1493821	1031508	-3.33
125 Chlorobenzene-d5	887636	532582	1242690	855863	-3.58

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

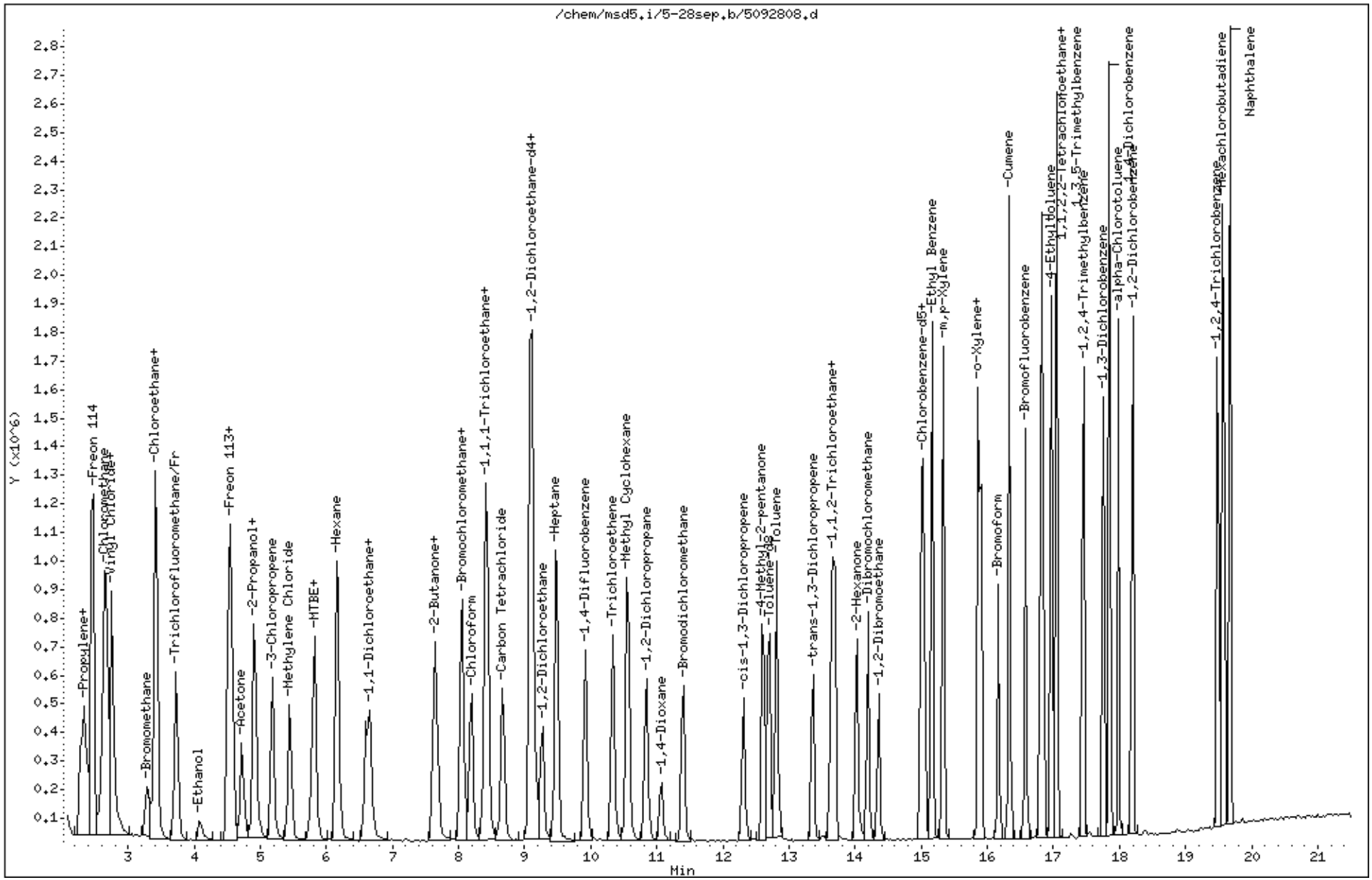
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0108

Data File: /chem/msd5.i/5-28sep.b/5092808.d
Date : 28-SEP-2007 12:40
Client ID: Level 4
Sample Info: 25ml #1576-18

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092809.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 28-SEP-2007 13:07
Operator : lmr Inst ID: msd5.i
Smp Info : 50ml #1576-18
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 13:07 Cal File: 5092809.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	288887	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	229476			49.43- 109.43	79.43
8.059	8.059 (1.000)	49	635927			190.13- 250.13	220.13
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.912 (1.000)	114	1067015	25.0000		70.00- 130.00	100.00
9.912	9.912 (1.000)	88	190113			0.00- 47.82	17.82
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	887636	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	520927			0.00- 30.00	58.69
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	448367	25.0000	24.574	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	247336			0.00- 30.00	55.16
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	988185	25.0000	26.236	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	97699			0.00- 30.00	9.89

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	660095			0.00- 30.00	66.80
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	448885	25.0000	25.119	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	705333			127.13- 187.13	157.13
16.575	16.575 (1.105)	176	445630			69.27- 129.27	99.27
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1079131	50.0000	53.285	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	728667			0.00- 30.00	67.52
2.280	2.280 (0.283)	39	723346			0.00- 30.00	67.03
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1815594	50.0000	57.649	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	580654			0.00- 30.00	31.98
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	1752156	50.0000	54.781	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	570301			2.55- 62.55	32.55
10 Chloromethane					CAS #: 74-87-3		
2.612	2.612 (0.324)	50	1503156	50.0000	54.883	70.00- 130.00	100.00
2.584	2.584 (0.321)	52	443453			0.00- 30.00	29.50
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1226466	50.0000	55.072	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	383377			0.00- 30.00	31.26
12 1,3-Butadiene					CAS #: 106-99-0		
2.750	2.750 (0.341)	54	1197139	50.0000	55.914	70.00- 130.00	100.00
2.750	2.750 (0.341)	39	1383248			0.00- 30.00	115.55
15 Bromomethane					CAS #: 74-83-9		
3.276	3.276 (0.406)	94	846625	50.0000	56.852	70.00- 130.00	100.00
3.276	3.276 (0.406)	96	813447			66.08- 126.08	96.08
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	637739	50.0000	51.982	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	188659			0.00- 30.00	29.58
3.414	3.414 (0.424)	66	186951			0.00- 30.00	29.31
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.718	3.718 (0.461)	101	1999027	50.0000	55.111	70.00- 130.00	100.00
3.718	3.718 (0.461)	103	1292547			34.66- 94.66	64.66

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.078	4.078 (0.506)	45	406174	50.0000	55.436	70.00- 130.00	100.00
4.078	4.078 (0.506)	43	77966			0.00- 30.00	19.20
4.078	4.078 (0.506)	46	173138			0.00- 30.00	42.63
30 Freon 113					CAS #: 76-13-1		
4.520	4.520 (0.561)	151	1286404	50.0000	54.217	70.00- 130.00	100.00
4.520	4.520 (0.561)	153	806826			32.72- 92.72	62.72
4.520	4.520 (0.561)	101	1668930			99.74- 159.74	129.74
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1596426	50.0000	54.061	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	896860			26.18- 86.18	56.18
4.575	4.575 (0.568)	98	585979			6.71- 66.71	36.71
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	572165	50.0000	52.352	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	1853767			0.00- 30.00	323.99
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2116089	50.0000	54.425	70.00- 130.00	100.00
4.935	4.935 (0.612)	43	488738			0.00- 30.00	23.10
4.935	4.935 (0.612)	59	70318			0.00- 30.00	3.32
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	2642282	50.0000	55.033	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.184	5.184 (0.643)	76	406245	50.0000	54.051	70.00- 130.00	100.00
5.184	5.184 (0.643)	41	1794047			0.00- 30.00	441.62
43 Methylene Chloride					CAS #: 75-09-2		
5.432	5.432 (0.674)	49	1429331	50.0000	53.432	70.00- 130.00	100.00
5.460	5.460 (0.678)	84	754717			22.80- 82.80	52.80
5.432	5.432 (0.674)	51	423411			0.00- 30.00	29.62
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	557694	50.0000	42.433	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	192740			4.56- 64.56	34.56
5.764	5.764 (0.715)	41	217823			0.00- 30.00	39.06
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	982590	50.0000	52.686	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	1573644			130.15- 190.15	160.15
5.819	5.819 (0.722)	98	614911			0.00- 30.00	62.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.151	6.151 (0.763)	57	1989723	50.0000	54.642	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	1435673			0.00- 30.00	72.15
6.179	6.179 (0.767)	86	277283			0.00- 30.00	13.94
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1735386	50.0000	53.597	70.00- 130.00	100.00
6.594	6.594 (0.818)	65	523721			0.18- 60.18	30.18
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	374524	50.0000	58.184	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	2455798			625.71- 685.71	655.71
7.672	7.672 (0.952)	57	174262			0.00- 30.00	46.53
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1296588	50.0000	56.737	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	840240			34.80- 94.80	64.80
7.617	7.617 (0.945)	98	534664			11.24- 71.24	41.24
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1466328	50.0000	51.297	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	331852			0.00- 52.63	22.63
8.059	8.059 (1.000)	72	369210			0.00- 30.00	25.18
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1518179	50.0000	53.517	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	955306			32.92- 92.92	62.92
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1516246	50.0000	53.663	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	992989			35.49- 95.49	65.49
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1112533	50.0000	56.810	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	1821889			133.76- 193.76	163.76
8.418	8.418 (1.045)	41	1092502			68.20- 128.20	98.20
56 Vinyl Acetate					CAS #: 108-05-4		
6.649	6.649 (0.825)	86	211247	50.0000	54.859	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	2998370			0.00- 30.00	1419.37
6.649	6.649 (0.825)	42	231191			0.00- 30.00	109.44
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1298686	50.0000	55.077	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	1376479			75.99- 135.99	105.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	5321904	50.0000	56.908	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	1724601			0.00- 30.00	32.41
9.110	9.110 (1.130)	41	1501350			0.00- 30.00	28.21
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2238257	50.0000	49.527	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	529099			0.00- 30.00	23.64
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	1224434	50.0000	53.105	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	382150			0.00- 30.00	31.21
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	268426	50.0000	55.975	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	2287781			0.00- 30.00	852.29
9.469	9.469 (0.955)	71	790281			0.00- 30.00	294.41
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	955852	50.0000	52.906	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	908681			65.07- 125.07	95.07
10.326	10.326 (1.042)	97	598479			32.61- 92.61	62.61
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	868511	50.0000	52.182	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	608630			40.08- 100.08	70.08
10.852	10.852 (1.095)	41	725593			53.54- 113.54	83.54
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	502172	50.0000	54.183	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	488552			67.29- 127.29	97.29
11.073	11.073 (1.117)	57	155548			0.00- 30.00	30.98
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1394955	50.0000	53.570	70.00- 130.00	100.00
11.405	11.405 (1.151)	85	896684			34.28- 94.28	64.28
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	973965	50.0000	57.374	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	315724			2.42- 62.42	32.42
12.317	12.317 (1.243)	39	800344			52.17- 112.17	82.17
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.594 (1.271)	58	785201	50.0000	55.976	70.00- 130.00	100.00
12.594	12.594 (1.271)	43	2392002			0.00- 30.00	304.64
12.594	12.594 (1.271)	85	263940			0.00- 30.00	33.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2284522	50.0000	54.943	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	1371083			30.02- 90.02	60.02
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1020140	50.0000	54.879	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	320274			1.40- 61.40	31.40
13.368	13.368 (0.891)	39	786397			47.09- 107.09	77.09
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	805828	50.0000	52.179	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	483561			30.01- 90.01	60.01
13.644	13.644 (0.910)	83	642198			49.69- 109.69	79.69
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.700 (0.913)	166	950257	50.0000	50.610	70.00- 130.00	100.00
13.700	13.700 (0.913)	129	792654			53.41- 113.41	83.41
13.700	13.700 (0.913)	131	761857			50.17- 110.17	80.17
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1080329	50.0000	53.727	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	2323404			185.06- 245.06	215.06
14.031	14.031 (0.935)	100	168552			0.00- 30.00	15.60
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1215222	50.0000	54.270	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	977950			0.00- 30.00	80.48
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1215187	50.0000	54.214	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	1142960			64.06- 124.06	94.06
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1806196	50.0000	51.723	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	579253			2.07- 62.07	32.07
15.027	15.027 (1.002)	77	1145489			33.42- 93.42	63.42
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	991600	50.0000	53.298	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	3309668			0.00- 30.00	333.77
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1246548	50.0000	54.425	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	2762789			0.00- 30.00	221.64
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1155568	50.0000	57.905	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2673503			201.36- 261.36	231.36
133 Styrene					CAS #: 100-42-5		
15.912	15.912 (1.061)	104	1831532	50.0000	56.126	70.00- 130.00	100.00
15.912	15.912 (1.061)	78	1020309			25.71- 85.71	55.71
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1089989	50.0000	54.346	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	558139			21.21- 81.21	51.21
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1638987	50.0000	51.508	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	1040261			33.47- 93.47	63.47
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3595277	50.0000	56.205	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	1045677			0.00- 59.08	29.08
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3361021	50.0000	54.481	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	1553409			0.00- 30.00	46.22
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	2860474	50.0000	56.372	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	1302319			15.53- 75.53	45.53
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	1981897	50.0000	53.288	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	1273403			0.00- 30.00	64.25
17.764	17.764 (1.184)	111	828643			0.00- 30.00	41.81
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2301811	50.0000	54.362	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	1466587			0.00- 30.00	63.71
17.847	17.847 (1.190)	111	1011422			0.00- 30.00	43.94
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3327788	50.0000	60.861	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	610188			0.00- 30.00	18.34
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2068638	50.0000	51.159	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	1284150			32.08- 92.08	62.08
18.206	18.206 (1.214)	111	846819			10.94- 70.94	40.94

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1440737	50.0000	49.878	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	1381270			65.87- 125.87	95.87
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1106642	50.0000	51.424	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	686311			32.02- 92.02	62.02
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4157810	50.0000	53.621	70.00- 130.00	100.00
16.852	16.852 (1.123)	120	919027			0.00- 30.00	22.10
16.852	16.852 (1.123)	105	152837			0.00- 30.00	3.68
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3587713	50.0000	54.911	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	942977			0.00- 30.00	26.28
16.326	16.326 (1.088)	51	556655			0.00- 30.00	15.52
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5089017	50.0000	55.046	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	642913			0.00- 30.00	12.63
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	1982669	50.0000	53.342	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	1198605			0.00- 30.00	60.45
3.414	3.414 (0.424)	72	107652			0.00- 30.00	5.43
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	313534	50.0000	52.736	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	2507905			0.00- 30.00	799.88
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1323123	50.0000	55.995	70.00- 130.00	100.00
10.547	10.547 (1.064)	98	673285			0.00- 30.00	50.89
10.547	10.547 (1.064)	55	1596264			0.00- 30.00	120.64

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092809.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	288887	0.00
92 1,4-Difluorobenze	1067015	640209	1493821	1067015	0.00
125 Chlorobenzene-d5	887636	532582	1242690	887636	0.00

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

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

Data File: /chem/msd5.i/5-28sep.b/5092809.d

Date : 28-SEP-2007 13:07

Client ID: Level 5

Sample Info: 50ml #1576-18

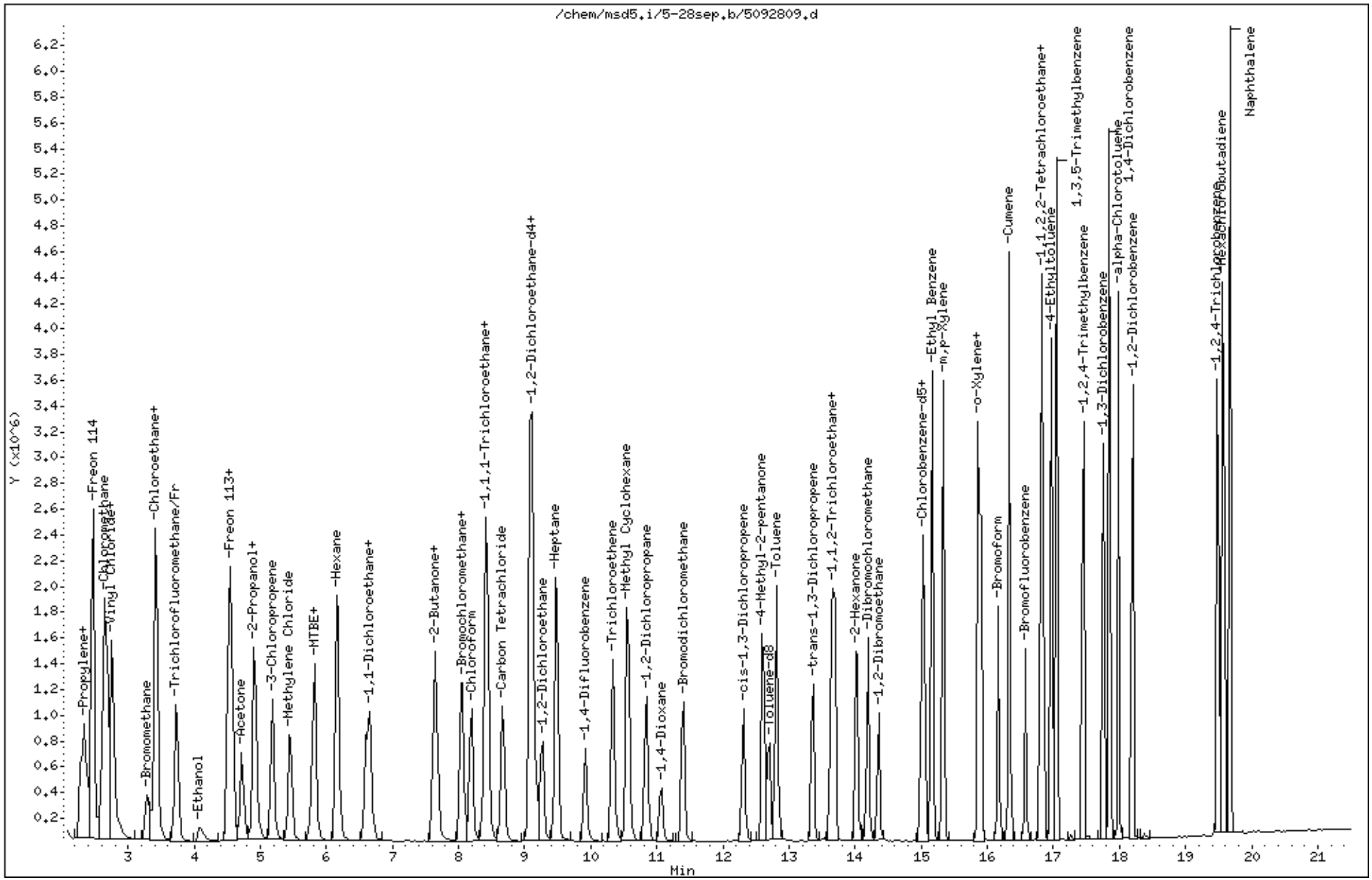
Column phase: RTx-624

Instrument: msd5.i

Operator: lmr

Column diameter: 0.53

0118



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092810.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 28-SEP-2007 13:36
Operator : lmr Inst ID: msd5.i
Smp Info : 100ml #1576-18
Misc Info : 200ppbv -> 100ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 13:36 Cal File: 5092810.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	307314	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	241052			48.44- 108.44	78.44
8.059	8.059 (1.000)	49	671236			188.42- 248.42	218.42
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1155924	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	202243			0.00- 47.50	17.50
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	940434	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	553324			28.84- 88.84	58.84
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	490991	25.0000	25.296	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	288503			28.76- 88.76	58.76
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1016519	25.0000	24.912	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	99840			0.00- 39.82	9.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	717368			40.57- 100.57	70.57
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	473513	25.0000	25.010	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	767796			132.15- 192.15	162.15
16.575	16.575 (1.105)	176	456599			66.43- 126.43	96.43
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	2155943	100.000	100.07	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	1461205			37.78- 97.78	67.78
2.280	2.280 (0.283)	39	1431083			36.38- 96.38	66.38
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.335	2.335 (0.290)	85	3531789	100.000	105.42	70.00- 130.00	100.00
2.335	2.335 (0.290)	87	1135397			2.15- 62.15	32.15
9 Freon 114					CAS #: 76-14-2		
2.474	2.474 (0.307)	135	3365103	100.000	98.902	70.00- 130.00	100.00
2.474	2.474 (0.307)	137	1079924			2.09- 62.09	32.09
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	2930557	100.000	100.58	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	851266			0.00- 59.05	29.05
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	2513113	100.000	106.08	70.00- 130.00	100.00
2.778	2.778 (0.345)	64	777460			0.94- 60.94	30.94
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	2435698	100.000	106.94	70.00- 130.00	100.00
2.778	2.778 (0.345)	39	2604784			76.94- 136.94	106.94
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	1760834	100.000	111.15	70.00- 130.00	100.00
3.303	3.303 (0.410)	96	1657540			64.13- 124.13	94.13
19 Chloroethane					CAS #: 75-00-3		
3.414	3.414 (0.424)	64	1262474	100.000	96.735	70.00- 130.00	100.00
3.414	3.414 (0.424)	49	371465			0.00- 59.42	29.42
3.414	3.414 (0.424)	66	366360			0.00- 59.02	29.02
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	4094499	100.000	106.11	70.00- 130.00	100.00
3.746	3.746 (0.465)	103	2588243			33.21- 93.21	63.21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.133	4.133 (0.513)	45	734124	100.000	94.188	70.00- 130.00	100.00
4.133	4.133 (0.513)	43	135430			0.00- 48.45	18.45
4.105	4.105 (0.509)	46	318871			13.44- 73.44	43.44
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	2590265	100.000	102.62	70.00- 130.00	100.00
4.547	4.547 (0.564)	153	1605282			31.97- 91.97	61.97
4.520	4.520 (0.561)	101	3381550			100.55- 160.55	130.55
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	3277263	100.000	104.33	70.00- 130.00	100.00
4.575	4.575 (0.568)	96	1839055			26.12- 86.12	56.12
4.575	4.575 (0.568)	98	1171527			5.75- 65.75	35.75
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	1233542	100.000	106.10	70.00- 130.00	100.00
4.713	4.713 (0.585)	43	3834073			280.82- 340.82	310.82
36 2-Propanol					CAS #: 67-63-0		
4.934	4.934 (0.612)	45	4508083	100.000	108.99	70.00- 130.00	100.00
4.934	4.934 (0.612)	43	947933			0.00- 51.03	21.03
4.934	4.934 (0.612)	59	146506			0.00- 33.25	3.25
35 Carbon Disulfide					CAS #: 75-15-0		
4.907	4.907 (0.609)	76	5342008	100.000	104.59	70.00- 130.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.183	5.183 (0.643)	76	859303	100.000	107.47	70.00- 130.00	100.00
5.183	5.183 (0.643)	41	3680510			398.31- 458.31	428.31
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	2906357	100.000	102.13	70.00- 130.00	100.00
5.460	5.460 (0.677)	84	1527989			22.57- 82.57	52.57
5.460	5.460 (0.677)	51	883885			0.41- 60.41	30.41
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1029924	100.000	73.665	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	348429			3.83- 63.83	33.83
5.764	5.764 (0.715)	41	384662			7.35- 67.35	37.35
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	2016959	100.000	101.66	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	3231652			130.22- 190.22	160.22
5.819	5.819 (0.722)	98	1275739			33.25- 93.25	63.25

				AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
RT	EXP RT (REL RT)	MASS	RESPONSE				
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	4141749	100.000	106.92	70.00- 130.00	100.00
6.151	6.151 (0.763)	43	3027583			43.10- 103.10	73.10
6.179	6.179 (0.767)	86	554826			0.00- 43.40	13.40
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.593	6.593 (0.818)	63	3509413	100.000	101.89	70.00- 130.00	100.00
6.593	6.593 (0.818)	65	1074467			0.62- 60.62	30.62
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	796938	100.000	116.38	70.00- 130.00	100.00
7.672	7.672 (0.952)	43	5075377			606.86- 666.86	636.86
7.672	7.672 (0.952)	57	347884			13.65- 73.65	43.65
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	2626758	100.000	108.05	70.00- 130.00	100.00
7.617	7.617 (0.945)	96	1741361			36.29- 96.29	66.29
7.617	7.617 (0.945)	98	1112056			12.34- 72.34	42.34
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	3071237	100.000	101.00	70.00- 130.00	100.00
8.031	8.031 (0.997)	71	701423			0.00- 52.84	22.84
8.031	8.031 (0.997)	72	775929			0.00- 55.26	25.26
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	3004560	100.000	99.563	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	1956408			35.11- 95.11	65.11
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	3137060	100.000	104.37	70.00- 130.00	100.00
8.446	8.446 (1.048)	99	2012992			34.17- 94.17	64.17
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	2251968	100.000	108.10	70.00- 130.00	100.00
8.418	8.418 (1.045)	56	3807711			139.08- 199.08	169.08
8.418	8.418 (1.045)	41	2253175			70.05- 130.05	100.05
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	463132	100.000	113.06	70.00- 130.00	100.00
6.649	6.649 (0.825)	43	6534436			1380.92-1440.92	1410.92
6.649	6.649 (0.825)	42	483262			74.35- 134.35	104.35
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	2748240	100.000	109.56	70.00- 130.00	100.00
8.667	8.667 (1.075)	117	2833344			73.10- 133.10	103.10

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	11067575	100.000	111.25	70.00- 130.00	100.00
9.110	9.110 (1.130)	56	3645413			2.94- 62.94	32.94
9.110	9.110 (1.130)	41	3134381			0.00- 58.32	28.32
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	4637844	100.000	94.731	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	1071705			0.00- 53.11	23.11
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	2531660	100.000	101.35	70.00- 130.00	100.00
9.275	9.275 (0.936)	64	803113			1.72- 61.72	31.72
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	576449	100.000	110.96	70.00- 130.00	100.00
9.469	9.469 (0.955)	43	4763338			796.32- 856.32	826.32
9.497	9.497 (0.958)	71	1643268			255.07- 315.07	285.07
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1956853	100.000	99.980	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	1900160			67.10- 127.10	97.10
10.326	10.326 (1.042)	97	1259602			34.37- 94.37	64.37
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.851	10.851 (1.095)	63	1792545	100.000	99.416	70.00- 130.00	100.00
10.851	10.851 (1.095)	62	1280948			41.46- 101.46	71.46
10.851	10.851 (1.095)	41	1457363			51.30- 111.30	81.30
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	1063293	100.000	105.90	70.00- 130.00	100.00
11.073	11.073 (1.117)	58	1033681			67.22- 127.22	97.22
11.073	11.073 (1.117)	57	331696			1.20- 61.20	31.20
100 Bromodichloromethane					CAS #: 75-27-4		
11.404	11.404 (1.151)	83	2937427	100.000	104.13	70.00- 130.00	100.00
11.404	11.404 (1.151)	85	1870691			33.68- 93.68	63.68
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	2058649	100.000	111.94	70.00- 130.00	100.00
12.317	12.317 (1.243)	77	656723			1.90- 61.90	31.90
12.317	12.317 (1.243)	39	1730139			54.04- 114.04	84.04
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	1690156	100.000	111.22	70.00- 130.00	100.00
12.593	12.593 (1.271)	43	5089362			271.12- 331.12	301.12
12.593	12.593 (1.271)	85	560186			3.14- 63.14	33.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	4710232	100.000	104.57	70.00- 130.00	100.00
12.815	12.815 (1.293)	92	2786893			29.17- 89.17	59.17
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	2249904	100.000	114.24	70.00- 130.00	100.00
13.368	13.368 (0.891)	77	695530			0.91- 60.91	30.91
13.368	13.368 (0.891)	39	1681471			44.74- 104.74	74.74
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	1644998	100.000	100.54	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	1014464			31.67- 91.67	61.67
13.644	13.644 (0.910)	83	1311408			49.72- 109.72	79.72
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	1958368	100.000	98.445	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	1609596			52.19- 112.19	82.19
13.699	13.699 (0.913)	131	1528522			48.05- 108.05	78.05
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	2328363	100.000	109.29	70.00- 130.00	100.00
14.004	14.004 (0.934)	43	5012487			185.28- 245.28	215.28
14.031	14.031 (0.935)	100	359244			0.00- 45.43	15.43
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	2593758	100.000	109.33	70.00- 130.00	100.00
14.197	14.197 (0.947)	127	2014784			47.68- 107.68	77.68
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	2515737	100.000	105.93	70.00- 130.00	100.00
14.363	14.363 (0.958)	109	2385361			64.82- 124.82	94.82
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	3703276	100.000	100.10	70.00- 130.00	100.00
15.054	15.054 (1.004)	114	1184756			1.99- 61.99	31.99
15.027	15.027 (1.002)	77	2355416			33.60- 93.60	63.60
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	2051310	100.000	104.07	70.00- 130.00	100.00
15.165	15.165 (1.011)	91	6959958			309.29- 369.29	339.29
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	2605592	100.000	107.37	70.00- 130.00	100.00
15.331	15.331 (1.022)	91	5709689			189.13- 249.13	219.13
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	2392166	100.000	113.14	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	5504245			200.09- 260.09	230.09
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	3915341	100.000	113.24	70.00- 130.00	100.00
15.911	15.911 (1.061)	78	2190176			25.94- 85.94	55.94
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	2281426	100.000	107.36	70.00- 130.00	100.00
16.160	16.160 (1.077)	171	1166970			21.15- 81.15	51.15
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	3393063	100.000	100.64	70.00- 130.00	100.00
16.796	16.796 (1.120)	85	2186772			34.45- 94.45	64.45
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	7536456	100.000	111.20	70.00- 130.00	100.00
16.962	16.962 (1.131)	120	2209859			0.00- 59.32	29.32
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	6927002	100.000	105.98	70.00- 130.00	100.00
17.045	17.045 (1.136)	120	3194546			16.12- 76.12	46.12
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	6190860	100.000	115.16	70.00- 130.00	100.00
17.460	17.460 (1.164)	120	2795368			15.15- 75.15	45.15
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	4143477	100.000	105.15	70.00- 130.00	100.00
17.764	17.764 (1.184)	148	2647584			33.90- 93.90	63.90
17.764	17.764 (1.184)	111	1693293			10.87- 70.87	40.87
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	4696434	100.000	104.69	70.00- 130.00	100.00
17.847	17.847 (1.190)	148	2981070			33.48- 93.48	63.48
17.847	17.847 (1.190)	111	2082354			14.34- 74.34	44.34
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	7590152	100.000	131.02	70.00- 130.00	100.00
17.985	17.985 (1.199)	126	1420799			0.00- 48.72	18.72
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	4283612	100.000	99.990	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	2686456			32.71- 92.71	62.71
18.206	18.206 (1.214)	111	1756978			11.02- 71.02	41.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	3076700	100.000	100.54	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	2890226			63.94- 123.94	93.94
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	2244240	100.000	98.432	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	1411570			32.90- 92.90	62.90
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	8939998	100.000	108.82	70.00- 130.00	100.00
16.851	16.851 (1.123)	120	1955776			0.00- 51.88	21.88
16.824	16.824 (1.122)	105	314340			0.00- 33.52	3.52
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	7553236	100.000	109.11	70.00- 130.00	100.00
16.326	16.326 (1.088)	120	1945056			0.00- 55.75	25.75
16.326	16.326 (1.088)	51	1147215			0.00- 45.19	15.19
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	10693686	100.000	109.18	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	1345377			0.00- 42.58	12.58
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	4075497	100.000	103.07	70.00- 130.00	100.00
3.414	3.414 (0.424)	57	2463771			30.45- 90.45	60.45
3.414	3.414 (0.424)	72	231349			0.00- 35.68	5.68
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	643700	100.000	101.78	70.00- 130.00	100.00
2.695	2.695 (0.334)	43	5131597			767.20- 827.20	797.20
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	2756775	100.000	107.69	70.00- 130.00	100.00
10.575	10.575 (1.067)	98	1406075			21.00- 81.00	51.00
10.547	10.547 (1.064)	55	3348431			91.46- 151.46	121.46

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092810.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 100ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	307314	6.38
92 1,4-Difluorobenze	1067015	640209	1493821	1155924	8.33
125 Chlorobenzene-d5	887636	532582	1242690	940434	5.95

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

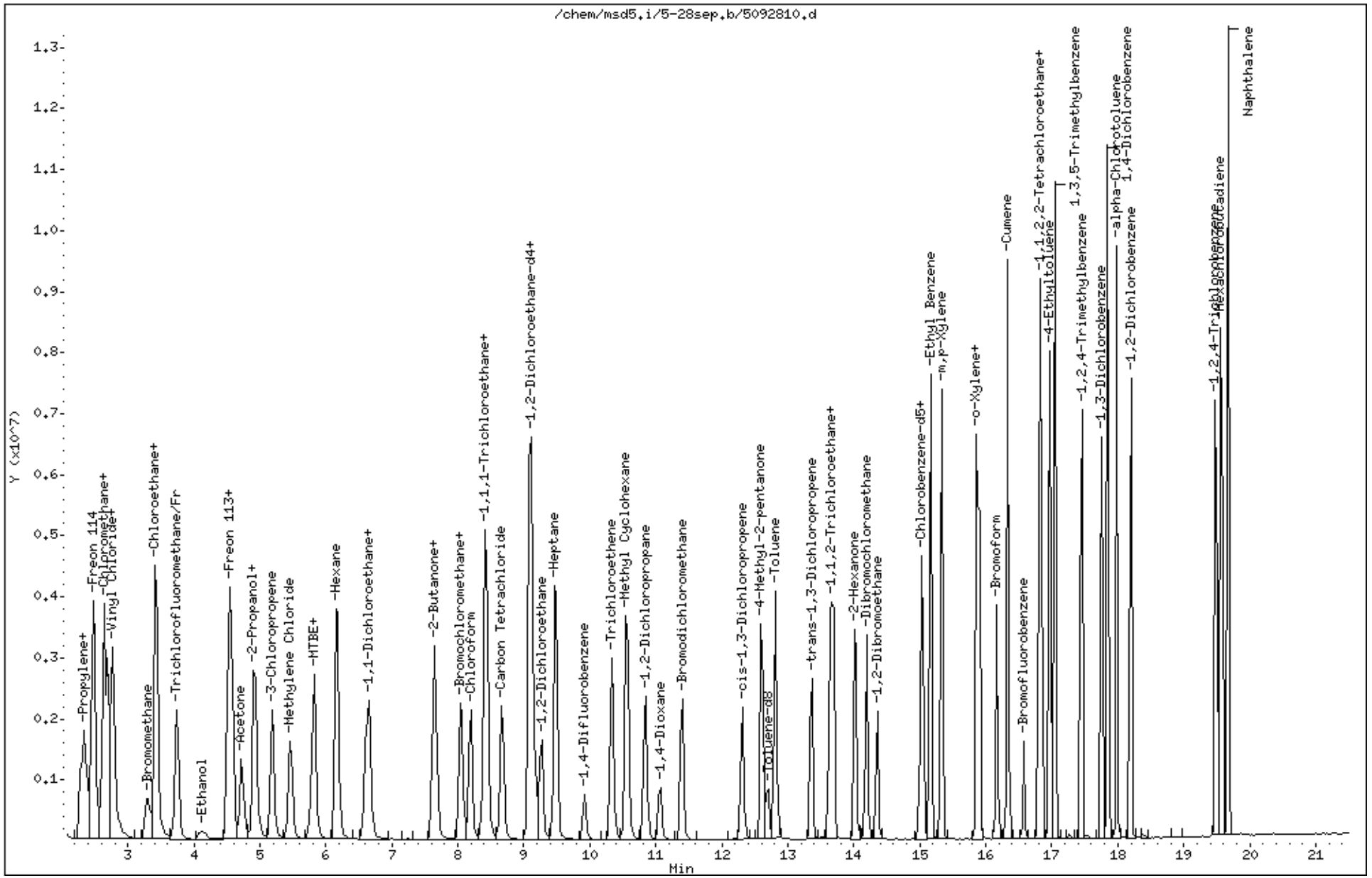
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0128

Data File: /chem/msd5.i/5-28sep.b/5092810.d
Date : 28-SEP-2007 13:36
Client ID: Level 6
Sample Info: 100ml #1576-18

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-28sep.b/5092811.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 28-SEP-2007 14:08
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1576-18
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msd5.i/5-28sep.b/t14q928a.m
Meth Date : 01-Oct-2007 08:29 ctaylor Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.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
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	330751	25.0000		70.00- 130.00	100.00
8.059	8.059 (1.000)	128	251559			48.44- 108.44	76.06
8.059	8.059 (1.000)	49	797058			188.42- 248.42	240.98
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1250692	25.0000		70.00- 130.00	100.00
9.911	9.911 (1.000)	88	218098			0.00- 47.50	17.44
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	996151	25.0000		70.00- 130.00	100.00
14.999	14.999 (1.000)	82	612059			28.84- 88.84	61.44
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	562412	25.0000	26.922	70.00- 130.00	100.00
9.137	9.137 (1.134)	67	364702			28.76- 88.76	64.85
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1135727	25.0000	25.724	70.00- 130.00	100.00
12.704	12.704 (1.282)	70	124488			0.00- 39.82	10.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	789585			40.57- 100.57	69.52
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	507335	25.0000	25.297	70.00- 130.00	100.00
16.575	16.575 (1.105)	95	845715			132.15- 192.15	166.70
16.575	16.575 (1.105)	176	498151			66.43- 126.43	98.19
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	4515950	200.000	194.76	70.00- 130.00	100.00
2.280	2.280 (0.283)	42	3031727			37.78- 97.78	67.13
2.280	2.280 (0.283)	39	3039603			36.38- 96.38	67.31
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	7014237	200.000	194.53	70.00- 130.00	100.00
2.336	2.336 (0.290)	87	2272317			2.15- 62.15	32.40
9 Freon 114					CAS #: 76-14-2		
2.529	2.529 (0.314)	135	6748892	200.000	184.30	70.00- 130.00	100.00
2.529	2.529 (0.314)	137	2162078			2.09- 62.09	32.04
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	5469101	200.000	174.41	70.00- 130.00	100.00
2.640	2.640 (0.328)	52	1564607			0.00- 59.05	28.61
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	5185944	200.000	203.39	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	64	1559962			0.94- 60.94	30.08
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	4987395	200.000	203.46	70.00- 130.00	100.00(A)
2.778	2.778 (0.345)	39	6086620			76.94- 136.94	122.04
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	3655999	200.000	214.43	70.00- 130.00	100.00(A)
3.303	3.303 (0.410)	96	3466232			64.13- 124.13	94.81
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	2681125	200.000	190.88	70.00- 130.00	100.00
3.441	3.441 (0.427)	49	669174			0.00- 59.42	24.96
3.441	3.441 (0.427)	66	612106			0.00- 59.02	22.83
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	8328053	200.000	200.53	70.00- 130.00	100.00(A)
3.746	3.746 (0.465)	103	5370334			33.21- 93.21	64.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.160	4.160 (0.516)	45	1679578	200.000	200.22	70.00- 130.00	100.00(A)
4.160	4.160 (0.516)	43	293800			0.00- 48.45	17.49
4.160	4.160 (0.516)	46	694422			13.44- 73.44	41.35
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	5316415	200.000	195.70	70.00- 130.00	100.00
4.547	4.547 (0.564)	153	3324412			31.97- 91.97	62.53
4.547	4.547 (0.564)	101	6938418			100.55- 160.55	130.51
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.603	4.603 (0.571)	61	6930397	200.000	204.98	70.00- 130.00	100.00(A)
4.603	4.603 (0.571)	96	3836831			26.12- 86.12	55.36
4.603	4.603 (0.571)	98	2444607			5.75- 65.75	35.27
32 Acetone					CAS #: 67-64-1		
4.713	4.713 (0.585)	58	2526522	200.000	201.91	70.00- 130.00	100.00(A)
4.713	4.713 (0.585)	43	7956358			280.82- 340.82	314.91
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	9441005	200.000	212.08	70.00- 130.00	100.00(A)
4.935	4.935 (0.612)	43	2053755			0.00- 51.03	21.75
4.935	4.935 (0.612)	59	311181			0.00- 33.25	3.30
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	11210004	200.000	203.93	70.00- 130.00	100.00(A)
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	1793677	200.000	208.44	70.00- 130.00	100.00(A)
5.211	5.211 (0.647)	41	7528284			398.31- 458.31	419.71
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	5927101	200.000	193.52	70.00- 130.00	100.00
5.488	5.488 (0.681)	84	3160553			22.57- 82.57	53.32
5.460	5.460 (0.677)	51	1859875			0.41- 60.41	31.38
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	1747545	200.000	116.14	70.00- 130.00	100.00
5.764	5.764 (0.715)	57	567256			3.83- 63.83	32.46
5.764	5.764 (0.715)	41	657543			7.35- 67.35	37.63
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	4181565	200.000	195.83	70.00- 130.00	100.00
5.819	5.819 (0.722)	61	6849602			130.22- 190.22	163.80
5.819	5.819 (0.722)	98	2635296			33.25- 93.25	63.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	8870194	200.000	212.76	70.00- 130.00	100.00(A)
6.179	6.179 (0.767)	43	6358382			43.10- 103.10	71.68
6.179	6.179 (0.767)	86	1187552			0.00- 43.40	13.39
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.621	6.621 (0.822)	63	7504315	200.000	202.43	70.00- 130.00	100.00(A)
6.621	6.621 (0.822)	65	2218446			0.62- 60.62	29.56
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	1733522	200.000	235.22	70.00- 130.00	100.00(A)
7.672	7.672 (0.952)	43	10869887			606.86- 666.86	627.04
7.672	7.672 (0.952)	57	766320			13.65- 73.65	44.21
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	5643264	200.000	215.68	70.00- 130.00	100.00(A)
7.644	7.644 (0.949)	96	3661021			36.29- 96.29	64.87
7.644	7.644 (0.949)	98	2338156			12.34- 72.34	41.43
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	6586666	200.000	201.26	70.00- 130.00	100.00(A)
8.031	8.031 (0.997)	71	1505595			0.00- 52.84	22.86
8.031	8.031 (0.997)	72	1648973			0.00- 55.26	25.04
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	6408931	200.000	197.32	70.00- 130.00	100.00
8.197	8.197 (1.017)	85	4137587			35.11- 95.11	64.56
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	6683177	200.000	206.59	70.00- 130.00	100.00(A)
8.446	8.446 (1.048)	99	4237163			34.17- 94.17	63.40
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	4830838	200.000	215.46	70.00- 130.00	100.00(A)
8.418	8.418 (1.045)	56	8085344			139.08- 199.08	167.37
8.418	8.418 (1.045)	41	4697151			70.05- 130.05	97.23
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	1006835	200.000	228.37	70.00- 130.00	100.00(A)
6.649	6.649 (0.825)	43	14367127			1380.92-1440.92	1426.96
6.649	6.649 (0.825)	42	1044297			74.35- 134.35	103.72
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	5741277	200.000	212.67	70.00- 130.00	100.00(A)
8.667	8.667 (1.075)	117	6067940			73.10- 133.10	105.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	24050814	200.000	224.63	70.00- 130.00	100.00(A)
9.110	9.110 (1.130)	56	7770191			2.94- 62.94	32.31
9.110	9.110 (1.130)	41	6590641			0.00- 58.32	27.40
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	9824120	200.000	185.46	70.00- 130.00	100.00
9.082	9.082 (0.916)	77	2237310			0.00- 53.11	22.77
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.276 (0.936)	62	5293385	200.000	195.86	70.00- 130.00	100.00
9.276	9.276 (0.936)	64	1646059			1.72- 61.72	31.10
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	1227779	200.000	218.43	70.00- 130.00	100.00(A)
9.469	9.469 (0.955)	43	10172224			796.32- 856.32	828.51
9.497	9.497 (0.958)	71	3509436			255.07- 315.07	285.84
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	4165918	200.000	196.72	70.00- 130.00	100.00
10.326	10.326 (1.042)	130	3949845			67.10- 127.10	94.81
10.326	10.326 (1.042)	97	2640350			34.37- 94.37	63.38
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	3830026	200.000	196.32	70.00- 130.00	100.00
10.852	10.852 (1.095)	62	2750388			41.46- 101.46	71.81
10.852	10.852 (1.095)	41	2976854			51.30- 111.30	77.72
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	2219300	200.000	204.29	70.00- 130.00	100.00(A)
11.073	11.073 (1.117)	58	2200718			67.22- 127.22	99.16
11.073	11.073 (1.117)	57	702199			1.20- 61.20	31.64
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	6244602	200.000	204.59	70.00- 130.00	100.00(A)
11.405	11.405 (1.151)	85	3985737			33.68- 93.68	63.83
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	4508279	200.000	226.57	70.00- 130.00	100.00(A)
12.317	12.317 (1.243)	77	1404913			1.90- 61.90	31.16
12.317	12.317 (1.243)	39	3633208			54.04- 114.04	80.59
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	3798768	200.000	231.04	70.00- 130.00	100.00(A)
12.593	12.593 (1.271)	43	11115889			271.12- 331.12	292.62
12.593	12.593 (1.271)	85	1226998			3.14- 63.14	32.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	10228359	200.000	209.87	70.00- 130.00	100.00(A)
12.815	12.815 (1.293)	92	6010389			29.17- 89.17	58.76
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	4841944	200.000	232.10	70.00- 130.00	100.00(A)
13.368	13.368 (0.891)	77	1530368			0.91- 60.91	31.61
13.368	13.368 (0.891)	39	3634978			44.74- 104.74	75.07
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	3394265	200.000	195.84	70.00- 130.00	100.00
13.644	13.644 (0.910)	99	2130514			31.67- 91.67	62.77
13.644	13.644 (0.910)	83	2778751			49.72- 109.72	81.87
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	4046272	200.000	192.02	70.00- 130.00	100.00
13.699	13.699 (0.913)	129	3351579			52.19- 112.19	82.83
13.699	13.699 (0.913)	131	3181175			48.05- 108.05	78.62
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.004 (0.934)	58	5165349	200.000	228.90	70.00- 130.00	100.00(A)
14.004	14.004 (0.934)	43	10970842			185.28- 245.28	212.39
14.031	14.031 (0.935)	100	778651			0.00- 45.43	15.07
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	5561334	200.000	221.30	70.00- 130.00	100.00(A)
14.197	14.197 (0.947)	127	4318398			47.68- 107.68	77.65
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	5415573	200.000	215.29	70.00- 130.00	100.00(A)
14.363	14.363 (0.958)	109	5103360			64.82- 124.82	94.23
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	7974081	200.000	203.48	70.00- 130.00	100.00(A)
15.054	15.054 (1.004)	114	2517763			1.99- 61.99	31.57
15.027	15.027 (1.002)	77	5005003			33.60- 93.60	62.77
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	4359719	200.000	208.80	70.00- 130.00	100.00(A)
15.165	15.165 (1.011)	91	14889055			309.29- 369.29	341.51
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	5602554	200.000	217.96	70.00- 130.00	100.00(A)
15.331	15.331 (1.022)	91	12329439			189.13- 249.13	220.07
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	5044522	200.000	225.24	70.00- 130.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	11888060			200.09- 260.09	235.66
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	8349974	200.000	228.00	70.00- 130.00	100.00(A)
15.911	15.911 (1.061)	78	4661483			25.94- 85.94	55.83
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	4926534	200.000	218.87	70.00- 130.00	100.00(A)
16.160	16.160 (1.077)	171	2514793			21.15- 81.15	51.05
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	7296938	200.000	204.34	70.00- 130.00	100.00(A)
16.796	16.796 (1.120)	85	4659215			34.45- 94.45	63.85
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	16152156	200.000	225.00	70.00- 130.00	100.00(A)
16.962	16.962 (1.131)	120	4672060			0.00- 59.32	28.93
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	14631284	200.000	211.33	70.00- 130.00	100.00(A)
17.045	17.045 (1.136)	120	6662641			16.12- 76.12	45.54
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	13392302	200.000	235.18	70.00- 130.00	100.00(A)
17.460	17.460 (1.164)	120	5893020			15.15- 75.15	44.00
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	8573848	200.000	205.42	70.00- 130.00	100.00(A)
17.764	17.764 (1.184)	148	5381557			33.90- 93.90	62.77
17.764	17.764 (1.184)	111	3551618			10.87- 70.87	41.42
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	9605751	200.000	202.14	70.00- 130.00	100.00(A)
17.847	17.847 (1.190)	148	6003852			33.48- 93.48	62.50
17.847	17.847 (1.190)	111	4258369			14.34- 74.34	44.33
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	14679769	200.000	239.23	70.00- 130.00	100.00(A)
17.985	17.985 (1.199)	126	3032053			0.00- 48.72	20.65
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	8778317	200.000	193.44	70.00- 130.00	100.00
18.206	18.206 (1.214)	148	5567918			32.71- 92.71	63.43
18.206	18.206 (1.214)	111	3633553			11.02- 71.02	41.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	6352316	200.000	195.96	70.00- 130.00	100.00
19.506	19.506 (1.300)	182	5974830			63.94- 123.94	94.06
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	4529519	200.000	187.55	70.00- 130.00	100.00
19.589	19.589 (1.306)	223	2832959			32.90- 92.90	62.54
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	18844468	200.000	216.55	70.00- 130.00	100.00(A)
16.851	16.851 (1.123)	120	4076509			0.00- 51.88	21.63
16.851	16.851 (1.123)	105	637058			0.00- 33.52	3.38
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	15821494	200.000	215.77	70.00- 130.00	100.00(A)
16.326	16.326 (1.088)	120	4070182			0.00- 55.75	25.73
16.326	16.326 (1.088)	51	2429797			0.00- 45.19	15.36
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	15900340	200.000	153.25	70.00- 130.00	100.00
19.672	19.672 (1.312)	127	2740722			0.00- 42.58	17.24
17 Isopentane					CAS #: 78-78-4		
3.441	3.441 (0.427)	43	8493921	200.000	199.60	70.00- 130.00	100.00
3.441	3.441 (0.427)	57	5141844			30.45- 90.45	60.54
3.441	3.441 (0.427)	72	467650			0.00- 35.68	5.51
11 Butane					CAS #: 106-97-8		
2.750	2.750 (0.341)	58	1353775	200.000	198.88	70.00- 130.00	100.00
2.750	2.750 (0.341)	43	10539342			767.20- 827.20	778.52
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.575	10.575 (1.067)	83	5935437	200.000	214.30	70.00- 130.00	100.00(A)
10.575	10.575 (1.067)	98	2989773			21.00- 81.00	50.37
10.547	10.547 (1.064)	55	7098894			91.46- 151.46	119.60

QC Flag Legend

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

Report Date: 01-Oct-2007 08:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5092811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-28sep.b/t14q928a.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 28-SEP-2007
Calibration Time: 13:07
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	288887	173332	404442	330751	14.49
92 1,4-Difluorobenze	1067015	640209	1493821	1250692	17.21
125 Chlorobenzene-d5	887636	532582	1242690	996151	12.23

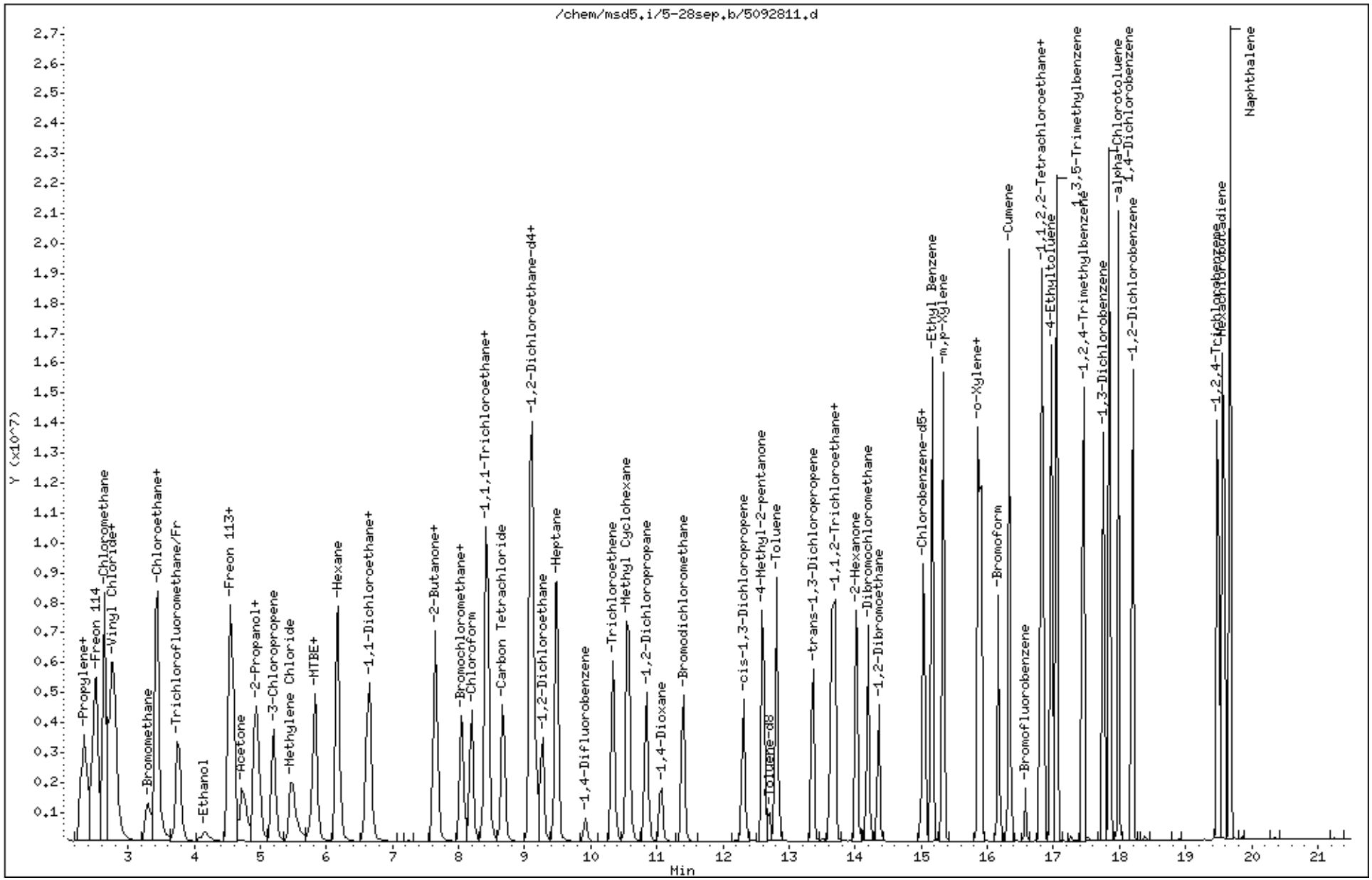
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.91	9.58	10.24	9.91	0.00
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

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

Data File: /chem/msd5.i/5-28sep.b/5092811.d
Date : 28-SEP-2007 14:08
Client ID: Level 7
Sample Info: 200ml #1576-18

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0709497-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 11:03 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	96
Vinyl Chloride	101
Bromomethane	105
Chloroethane	92
Freon 11	99
1,1-Dichloroethene	99
Freon 113	97
Methylene Chloride	98
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	104
Chloroform	94
1,1,1-Trichloroethane	96
Carbon Tetrachloride	102
Benzene	86
1,2-Dichloroethane	88
Trichloroethene	91
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	104
Toluene	96
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	93
Tetrachloroethene	90
1,2-Dibromoethane (EDB)	100
Chlorobenzene	94
Ethyl Benzene	96
m,p-Xylene	99
o-Xylene	108
Styrene	94
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	93
1,3-Butadiene	103
Hexane	103
Cyclohexane	108

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0709497-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 11:03 AM**	

Compound	**%Recovery**
Heptane	96
Bromodichloromethane	93
Dibromochloromethane	98
Cumene	99
Propylbenzene	98
Chloromethane	91
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	90
Acetone	107
Carbon Disulfide	103
2-Propanol	94
trans-1,2-Dichloroethene	95
2-Butanone (Methyl Ethyl Ketone)	108
Tetrahydrofuran	95
1,4-Dioxane	89
4-Methyl-2-pentanone	97
2-Hexanone	92
Bromoform	98
4-Ethyltoluene	101
Ethanol	77
Methyl tert-butyl ether	67 Q
3-Chloropropene	99
2,2,4-Trimethylpentane	107
Naphthalene	86

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 01-OCT-2007 11:03
Lab File ID: 5100104.d Init. Cal. Date(s): 28-SEP-2007 28-SEP-2007
Analysis Type: AIR Init. Cal. Times: 11:16 14:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-01oct.b/t14q928a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 84 1,2-Dichloroethane-d4	1.57898	1.57958	0.010	-0.03770	30.00000	Averaged	
$ 107 Toluene-d8	0.88250	0.90414	0.010	-2.45170	30.00000	Averaged	
$ 138 Bromofluorobenzene	0.50331	0.48959	0.010	2.72666	30.00000	Averaged	
6 Propylene	1.75260	1.69567	0.010	3.24803	30.00000	Averaged	
8 Dichlorodifluoromethane/Fr1	2.72546	2.70830	0.010	0.62959	30.00000	Averaged	
9 Freon 114	2.76791	2.66993	0.010	3.53964	30.00000	Averaged	
10 Chloromethane	2.37017	2.14967	0.010	9.30340	30.00000	Averaged	
13 Vinyl Chloride	1.92723	1.95432	0.010	-1.40570	30.00000	Averaged	
12 1,3-Butadiene	1.85283	1.90567	0.010	-2.85162	30.00000	Averaged	
15 Bromomethane	1.28871	1.34840	0.010	-4.63153	30.00000	Averaged	
19 Chloroethane	1.06169	0.97683	0.010	7.99256	30.00000	Averaged	
20 Trichlorofluoromethane/Fr11	3.13903	3.09997	0.010	1.24421	30.00000	Averaged	
26 Ethanol	0.63406	0.48624	0.010	23.31377	30.00000	Averaged	
30 Freon 113	2.05332	1.98872	0.010	3.14622	30.00000	Averaged	
31 1,1-Dichloroethene	2.55549	2.53716	0.010	0.71719	30.00000	Averaged	
32 Acetone	0.94581	1.01217	0.010	-7.01638	30.00000	Averaged	
36 2-Propanol	3.36470	3.15476	0.010	6.23968	30.00000	Averaged	
35 Carbon Disulfide	4.15496	4.28722	0.010	-3.18312	30.00000	Averaged	
38 3-Chloropropene	0.65043	0.64132	0.010	1.39961	30.00000	Averaged	
43 Methylene Chloride	2.31497	2.26993	0.010	1.94563	30.00000	Averaged	
46 MTBE	1.13737	0.76305	0.010	32.91130	30.00000	Averaged	<-
47 trans-1,2-Dichloroethene	1.61396	1.53517	0.010	4.88128	30.00000	Averaged	
51 Hexane	3.15123	3.24087	0.010	-2.84466	30.00000	Averaged	
55 1,1-Dichloroethane	2.80199	2.79561	0.010	0.22778	30.00000	Averaged	
67 2-Butanone	0.55704	0.60372	0.010	-8.37977	30.00000	Averaged	
66 cis-1,2-Dichloroethene	1.97764	2.05628	0.010	-3.97645	30.00000	Averaged	
70 Tetrahydrofuran	2.47370	2.34499	0.010	5.20328	30.00000	Averaged	
72 Chloroform	2.45495	2.31210	0.010	5.81854	30.00000	Averaged	
75 1,1,1-Trichloroethane	2.44516	2.36013	0.010	3.47735	30.00000	Averaged	
74 Cyclohexane	1.69474	1.82356	0.010	-7.60160	30.00000	Averaged	
56 Vinyl Acetate	0.33324	0.34348	0.010	-3.07460	30.00000	Averaged	
77 Carbon Tetrachloride	2.04055	2.08084	0.010	-1.97427	30.00000	Averaged	
80 2,2,4-Trimethylpentane	8.09292	8.68484	0.010	-7.31406	30.00000	Averaged	
81 Benzene	1.05885	0.91248	0.010	13.82306	30.00000	Averaged	
85 1,2-Dichloroethane	0.54022	0.47695	0.010	11.71172	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 01-OCT-2007 11:03
Lab File ID: 5100104.d Init. Cal. Date(s): 28-SEP-2007 28-SEP-2007
Analysis Type: AIR Init. Cal. Times: 11:16 14:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-01oct.b/t14q928a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
90 Heptane	0.11236	0.10783	0.010	4.02950	30.00000	Averaged
93 Trichloroethene	0.42331	0.38608	0.010	8.79411	30.00000	Averaged
98 1,2-Dichloropropane	0.38997	0.36035	0.010	7.59455	30.00000	Averaged
99 1,4-Dioxane	0.21715	0.19254	0.010	11.33119	30.00000	Averaged
100 Bromodichloromethane	0.61010	0.56724	0.010	7.02558	30.00000	Averaged
103 cis-1,3-Dichloropropene	0.39773	0.41404	0.010	-4.09840	30.00000	Averaged
106 4-Methyl-2-pentanone	0.32866	0.31826	0.010	3.16558	30.00000	Averaged
108 Toluene	0.97421	0.93308	0.010	4.22113	30.00000	Averaged
113 trans-1,3-Dichloropropene	0.52355	0.53944	0.010	-3.03580	30.00000	Averaged
114 1,1,2-Trichloroethane	0.43496	0.40498	0.010	6.89215	30.00000	Averaged
116 Tetrachloroethene	0.52883	0.47772	0.010	9.66449	30.00000	Averaged
119 2-Hexanone	0.56633	0.52249	0.010	7.74036	30.00000	Averaged
120 Dibromochloromethane	0.63067	0.61933	0.010	1.79822	30.00000	Averaged
122 1,2-Dibromoethane	0.63131	0.63032	0.010	0.15585	30.00000	Averaged
126 Chlorobenzene	0.98352	0.93017	0.010	5.42411	30.00000	Averaged
128 Ethyl Benzene	0.52400	0.50359	0.010	3.89600	30.00000	Averaged
130 m,p-Xylene	0.64508	0.63671	0.010	1.29796	30.00000	Averaged
132 o-Xylene	0.56207	0.60489	0.010	-7.61903	30.00000	Averaged
133 Styrene	0.91909	0.86046	0.010	6.37992	30.00000	Averaged
134 Bromoform	0.56489	0.55299	0.010	2.10555	30.00000	Averaged
141 1,1,2,2-Tetrachloroethane	0.89621	0.88544	0.010	1.20146	30.00000	Averaged
144 4-Ethyltoluene	1.80163	1.82652	0.010	-1.38202	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.73753	1.64983	0.010	5.04694	30.00000	Averaged
152 1,2,4-Trimethylbenzene	1.42914	1.47644	0.010	-3.30967	30.00000	Averaged
155 1,3-Dichlorobenzene	1.04751	1.02159	0.010	2.47377	30.00000	Averaged
156 1,4-Dichlorobenzene	1.19256	1.14796	0.010	3.73990	30.00000	Averaged
157 alpha-Chlorotoluene	1.53999	1.73991	0.010	-12.98148	30.00000	Averaged
159 1,2-Dichlorobenzene	1.13885	1.06192	0.010	6.75477	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.81354	0.75802	0.010	6.82397	30.00000	Averaged
164 Hexachlorobutadiene	0.60610	0.54831	0.010	9.53418	30.00000	Averaged
142 Propylbenzene	2.18391	2.13907	0.010	2.05301	30.00000	Averaged
136 Cumene	1.84019	1.83093	0.010	0.50340	30.00000	Averaged
165 Naphthalene	2.60381	2.22818	0.010	14.42612	30.00000	Averaged
17 Isopentane	3.21658	3.18760	0.010	0.90078	30.00000	Averaged
11 Butane	0.51450	0.52310	0.010	-1.67125	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd5.i Injection Date: 01-OCT-2007 11:03
Lab File ID: 5100104.d Init. Cal. Date(s): 28-SEP-2007 28-SEP-2007
Analysis Type: AIR Init. Cal. Times: 11:16 14:08
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd5.i/5-01oct.b/t14q928a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Methyl Cyclohexane	0.55363	0.54807	0.010	1.00495	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-01oct.b/5100104.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 01-OCT-2007 11:03
Operator : lmr Inst ID: msd5.i
Smp Info : 200ml #1443-291B
Misc Info : 50ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-01oct.b/t14q928a.m
Meth Date : 01-Oct-2007 11:49 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	340368	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	279775			52.20- 112.20	82.20
8.059	8.059 (1.000)	49	804439			206.34- 266.34	236.34
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.911	9.911 (1.000)	114	1328794	25.0000		80.00- 120.00	100.00
9.911	9.911 (1.000)	88	230730			0.00- 47.36	17.36
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1041725	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	612482			28.84- 88.84	58.79
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	537637	25.0000	25.009	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	286850			28.76- 88.76	53.35
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1201417	25.0000	25.613	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	125237			0.00- 39.82	10.42

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	783719			40.57- 100.57	65.23
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	510017	25.0000	24.318	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	840858			134.87- 194.87	164.87
16.575	16.575 (1.105)	176	486884			65.46- 125.46	95.46
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1154307	50.0000	48.376	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	747784			37.78- 97.78	64.78
2.280	2.280 (0.283)	39	762694			36.38- 96.38	66.07
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1843636	50.0000	49.685	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	589183			2.15- 62.15	31.96
9 Freon 114					CAS #: 76-14-2		
2.501	2.501 (0.310)	135	1817520	50.0000	48.230	80.00- 120.00	100.00
2.501	2.501 (0.310)	137	574639			1.62- 61.62	31.62
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	1463355	50.0000	45.348	80.00- 120.00	100.00
2.640	2.640 (0.328)	52	443942			0.00- 59.05	30.34
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1330374	50.0000	50.703	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	405690			0.94- 60.94	30.49
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	1297256	50.0000	51.426	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	1538672			76.94- 136.94	118.61
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	917905	50.0000	52.316	80.00- 120.00	100.00
3.303	3.303 (0.410)	96	850564			62.66- 122.66	92.66
19 Chloroethane					CAS #: 75-00-3		
3.441	3.441 (0.427)	64	664966	50.0000	46.004	80.00- 120.00	100.00
3.441	3.441 (0.427)	49	167622			0.00- 59.42	25.21
3.441	3.441 (0.427)	66	152052			0.00- 59.02	22.87
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	2110263	50.0000	49.378	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1352171			34.08- 94.08	64.08

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	331001	50.0000	38.343	80.00- 120.00	100.00
4.105	4.105 (0.509)	43	60154			0.00- 48.45	18.17
4.133	4.133 (0.513)	46	127725			13.44- 73.44	38.59
30 Freon 113					CAS #: 76-13-1		
4.547	4.547 (0.564)	151	1353792	50.0000	48.427	80.00- 120.00	100.00
4.547	4.547 (0.564)	153	851493			32.90- 92.90	62.90
4.520	4.520 (0.561)	101	1783872			101.77- 161.77	131.77
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	1727138	50.0000	49.641	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	954273			25.25- 85.25	55.25
4.575	4.575 (0.568)	98	620754			5.94- 65.94	35.94
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	689019	50.0000	53.508	80.00- 120.00	100.00
4.713	4.713 (0.585)	43	2161798			280.82- 340.82	313.75
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2147557	50.0000	46.880	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	457138			0.00- 51.03	21.29
4.935	4.935 (0.612)	59	76600			0.00- 33.25	3.57
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	2918464	50.0000	51.592	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	436573	50.0000	49.300	80.00- 120.00	100.00
5.183	5.183 (0.643)	41	1868278			398.31- 458.31	427.94
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.677)	49	1545222	50.0000	49.027	80.00- 120.00	100.00
5.460	5.460 (0.677)	84	820811			23.12- 83.12	53.12
5.460	5.460 (0.677)	51	475816			0.41- 60.41	30.79
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	519435	50.0000	33.544	80.00- 120.00	100.00
5.764	5.764 (0.715)	57	174085			3.51- 63.51	33.51
5.764	5.764 (0.715)	41	185820			7.35- 67.35	35.77
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1045048	50.0000	47.559	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1738800			136.38- 196.38	166.38
5.819	5.819 (0.722)	98	668754			33.25- 93.25	63.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	2206175	50.0000	51.422	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1607866			43.10- 103.10	72.88
6.179	6.179 (0.767)	86	294605			0.00- 43.40	13.35
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	1903073	50.0000	49.886	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	561153			0.00- 59.49	29.49
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	410972	50.0000	54.190	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2627588			609.36- 669.36	639.36
7.672	7.672 (0.952)	57	193119			13.65- 73.65	46.99
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1399786	50.0000	51.988	80.00- 120.00	100.00
7.617	7.617 (0.945)	96	919280			35.67- 95.67	65.67
7.644	7.644 (0.949)	98	593769			12.42- 72.42	42.42
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1596318	50.0000	47.398	80.00- 120.00	100.00
8.031	8.031 (0.997)	71	369273			0.00- 53.13	23.13
8.059	8.059 (1.000)	72	407842			0.00- 55.26	25.55
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1573932	50.0000	47.091	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1023227			35.01- 95.01	65.01
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1606628	50.0000	48.261	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1053367			35.56- 95.56	65.56
74 Cyclohexane					CAS #: 110-82-7		
8.418	8.418 (1.045)	84	1241365	50.0000	53.801	80.00- 120.00	100.00
8.418	8.418 (1.045)	56	2023172			132.98- 192.98	162.98
8.418	8.418 (1.045)	41	1174473			64.61- 124.61	94.61
56 Vinyl Acetate					CAS #: 108-05-4		
6.676	6.676 (0.828)	86	233820	50.0000	51.537	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3265381			1380.92-1440.92	1396.54
6.649	6.649 (0.825)	42	244278			74.35- 134.35	104.47
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1416503	50.0000	50.987	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1483529			74.73- 134.73	104.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	5912086	50.0000	53.657	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	1926016			2.94- 62.94	32.58
9.110	9.110 (1.130)	41	1598739			0.00- 58.32	27.04
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2425008	50.0000	43.088	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	563820			0.00- 53.11	23.25
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.275	9.275 (0.936)	62	1267540	50.0000	44.144	80.00- 120.00	100.00
9.275	9.275 (0.936)	64	402828			1.72- 61.72	31.78
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	286564	50.0000	47.985	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2492497			796.32- 856.32	869.79
9.497	9.497 (0.958)	71	860103			255.07- 315.07	300.14
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1026041	50.0000	45.603	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	990351			66.52- 126.52	96.52
10.326	10.326 (1.042)	97	665683			34.88- 94.88	64.88
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	957661	50.0000	46.203	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	685816			41.61- 101.61	71.61
10.852	10.852 (1.095)	41	749403			48.25- 108.25	78.25
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	511698	50.0000	44.334	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	485635			64.91- 124.91	94.91
11.073	11.073 (1.117)	57	158880			1.20- 61.20	31.05
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1507492	50.0000	46.487	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	946473			32.78- 92.78	62.78
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1100335	50.0000	52.049	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	338874			0.80- 60.80	30.80
12.317	12.317 (1.243)	39	865151			48.63- 108.63	78.63
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.593	12.593 (1.271)	58	845802	50.0000	48.417	80.00- 120.00	100.00
12.593	12.593 (1.271)	43	2517169			271.12- 331.12	297.61
12.593	12.593 (1.271)	85	281724			3.14- 63.14	33.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2479755	50.0000	47.889	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1469053			29.24- 89.24	59.24
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1123906	50.0000	51.518	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	349598			1.11- 61.11	31.11
13.368	13.368 (0.891)	39	836709			44.45- 104.45	74.45
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	843764	50.0000	46.554	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	527819			32.56- 92.56	62.56
13.644	13.644 (0.910)	83	701766			53.17- 113.17	83.17
116 Tetrachloroethene					CAS #: 127-18-4		
13.699	13.699 (0.913)	166	995303	50.0000	45.168	80.00- 120.00	100.00
13.699	13.699 (0.913)	129	820649			52.45- 112.45	82.45
13.699	13.699 (0.913)	131	789893			49.36- 109.36	79.36
119 2-Hexanone					CAS #: 591-78-6		
14.031	14.031 (0.935)	58	1088590	50.0000	46.130	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2292325			180.58- 240.58	210.58
14.031	14.031 (0.935)	100	171028			0.00- 45.43	15.71
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1290341	50.0000	49.101	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1003789			47.68- 107.68	77.79
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1313244	50.0000	49.922	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1242582			64.62- 124.62	94.62
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	1937967	50.0000	47.288	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	619085			1.95- 61.95	31.95
15.027	15.027 (1.002)	77	1211695			32.52- 92.52	62.52
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1049196	50.0000	48.052	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3586915			309.29- 369.29	341.87
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1326557	50.0000	49.351	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	2930328			189.13- 249.13	220.90
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1260257	50.0000	53.810	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	2864467			197.29- 257.29	227.29
133 Styrene					CAS #: 100-42-5		
15.911	15.911 (1.061)	104	1792715	50.0000	46.810	80.00- 120.00	100.00
15.911	15.911 (1.061)	78	1006030			26.12- 86.12	56.12
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1152130	50.0000	48.947	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	603939			22.42- 82.42	52.42
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1844768	50.0000	49.399	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1190936			34.56- 94.56	64.56
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	3805473	50.0000	50.691	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1136469			0.00- 59.86	29.86
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3437345	50.0000	47.476	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1605298			16.12- 76.12	46.70
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3076092	50.0000	51.655	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1398884			15.48- 75.48	45.48
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2128437	50.0000	48.763	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1350168			33.90- 93.90	63.43
17.764	17.764 (1.184)	111	879452			10.87- 70.87	41.32
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2391723	50.0000	48.130	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1550440			33.48- 93.48	64.83
17.847	17.847 (1.190)	111	1040559			14.34- 74.34	43.51
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3625011	50.0000	56.491	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	675937			0.00- 48.72	18.65
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2212467	50.0000	46.623	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1403052			33.42- 93.42	63.42
18.206	18.206 (1.214)	111	907054			11.00- 71.00	41.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1579303	50.0000	46.588	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1512346			65.76- 125.76	95.76
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1142384	50.0000	45.233	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	720830			33.10- 93.10	63.10
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	4456654	50.0000	48.973	80.00- 120.00	100.00
16.851	16.851 (1.123)	120	1004408			0.00- 51.88	22.54
16.824	16.824 (1.122)	105	157505			0.00- 33.52	3.53
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	3814644	50.0000	49.748	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1010030			0.00- 55.75	26.48
16.326	16.326 (1.088)	51	578518			0.00- 45.19	15.17
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	4642312	50.0000	42.787	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	574715			0.00- 42.58	12.38
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2169917	50.0000	49.550	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1311931			30.45- 90.45	60.46
3.414	3.414 (0.424)	72	115714			0.00- 35.68	5.33
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	356092	50.0000	50.836	80.00- 120.00	100.00
2.695	2.695 (0.334)	43	2782440			767.20- 827.20	781.38
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.547	10.547 (1.064)	83	1456542	50.0000	49.498	80.00- 120.00	100.00
10.547	10.547 (1.064)	98	733775			21.00- 81.00	50.38
10.547	10.547 (1.064)	55	1723029			91.46- 151.46	118.30

Report Date: 01-Oct-2007 11:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100104.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 50ppbv -> 50ppbv

Calibration Date: 01-OCT-2007
Calibration Time: 09:27
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	423717	254230	593204	340368	-19.67
92 1,4-Difluorobenze	1615471	969283	2261659	1328794	-17.75
125 Chlorobenzene-d5	1237212	742327	1732097	1041725	-15.80

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	8.06	7.73	8.39	8.06	0.00
92 1,4-Difluorobenze	9.94	9.61	10.27	9.91	-0.28
125 Chlorobenzene-d5	15.00	14.67	15.33	15.00	0.00

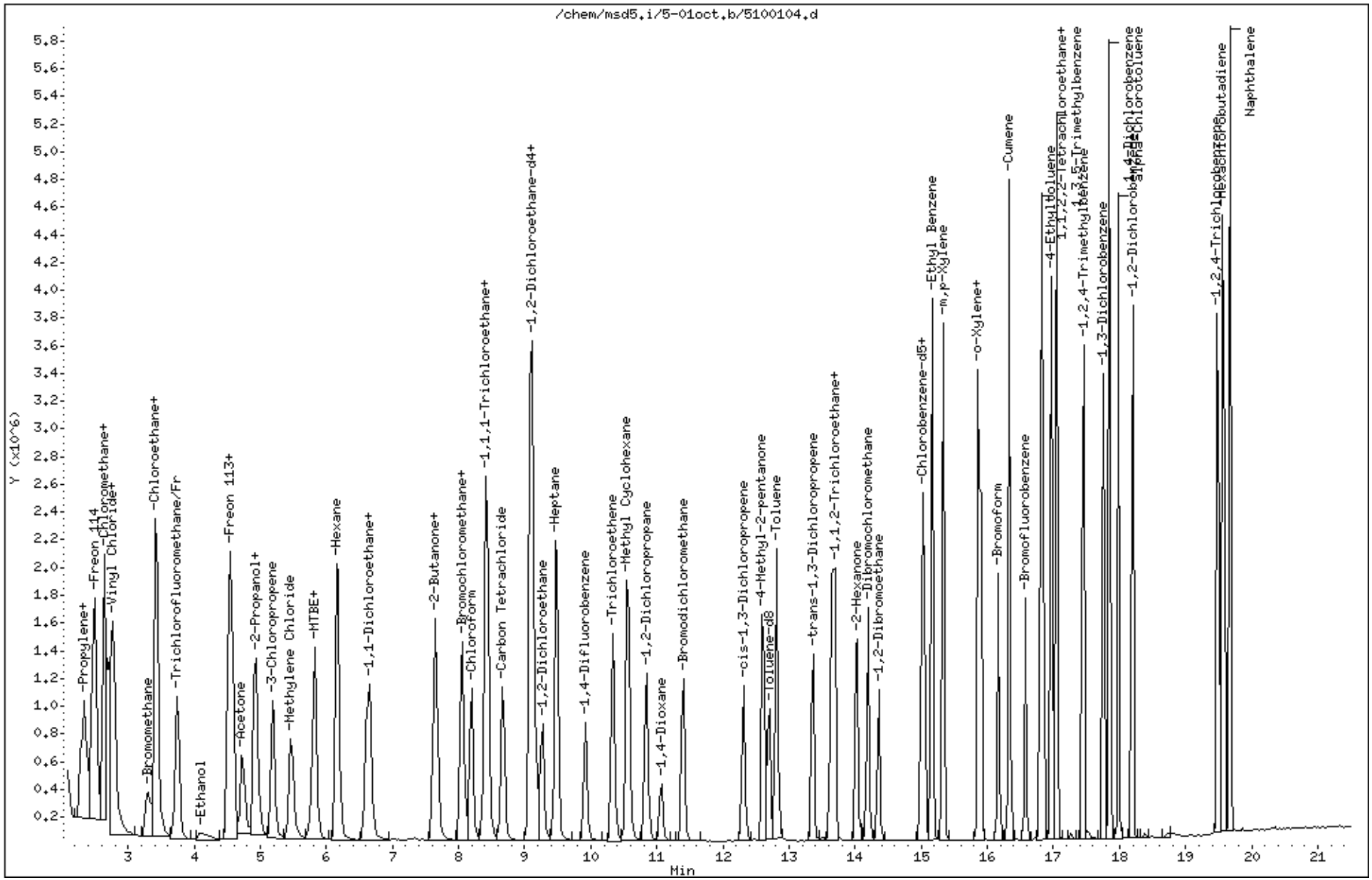
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0153

Data File: /chem/msd5.i/5-01oct.b/5100104.d
Date : 01-OCT-2007 11:03
Client ID: CCV-1
Sample Info: 200ml #1443-291B

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0709497-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 11:35 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	100
Vinyl Chloride	109
Bromomethane	109
Chloroethane	97
Freon 11	104
1,1-Dichloroethene	118
Freon 113	112
Methylene Chloride	111
1,1-Dichloroethane	111
cis-1,2-Dichloroethene	115
Chloroform	106
1,1,1-Trichloroethane	106
Carbon Tetrachloride	107
Benzene	96
1,2-Dichloroethane	99
Trichloroethene	98
1,2-Dichloropropane	102
cis-1,3-Dichloropropene	111
Toluene	111
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	102
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	106
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	108
o-Xylene	114
Styrene	104
1,1,2,2-Tetrachloroethane	104
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	93
1,3-Butadiene	110
Hexane	111
Cyclohexane	114

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0709497-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5100105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/07 11:35 AM**	

Compound	%Recovery
Heptane	106
Bromodichloromethane	101
Dibromochloromethane	107
Cumene	112
Propylbenzene	109
Chloromethane	94
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	91
Acetone	112
Carbon Disulfide	108
2-Propanol	107
trans-1,2-Dichloroethene	104
2-Butanone (Methyl Ethyl Ketone)	121
Tetrahydrofuran	102
1,4-Dioxane	94
4-Methyl-2-pentanone	112
2-Hexanone	105
Bromoform	106
4-Ethyltoluene	113
Ethanol	80
Methyl tert-butyl ether	56 Q
3-Chloropropene	105
2,2,4-Trimethylpentane	117
Naphthalene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	94	70-130

Report Date: 01-Oct-2007 11:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 5-01oct
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 50ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
8 Dichlorodifluorome	50.000	52.254	104.51	70-130
9 Freon 114	50.000	49.794	99.59	70-130
10 Chloromethane	50.000	47.253	94.51	70-130
13 Vinyl Chloride	50.000	54.740	109.48	70-130
12 1,3-Butadiene	50.000	54.774	109.55	60-140
15 Bromomethane	50.000	54.698	109.40	70-130
19 Chloroethane	50.000	48.663	97.33	70-130
20 Trichlorofluoromet	50.000	52.084	104.17	70-130
26 Ethanol	50.000	40.236	80.47	60-140
30 Freon 113	50.000	55.792	111.58	70-130
31 1,1-Dichloroethene	50.000	59.281	118.56	70-130
35 Carbon Disulfide	50.000	54.044	108.09	60-140
32 Acetone	50.000	56.106	112.21	60-140
36 2-Propanol	50.000	53.728	107.46	60-140
38 3-Chloropropene	50.000	52.715	105.43	60-140
43 Methylene Chloride	50.000	55.720	111.44	70-130
46 MTBE	50.000	28.237	56.47*	60-140
47 trans-1,2-Dichloro	50.000	51.989	103.98	60-140
51 Hexane	50.000	55.447	110.89	60-140
55 1,1-Dichloroethane	50.000	55.355	110.71	70-130
66 cis-1,2-Dichloroet	50.000	57.597	115.19	70-130
67 2-Butanone	50.000	60.319	120.64	60-140
70 Tetrahydrofuran	50.000	50.942	101.88	60-140
72 Chloroform	50.000	52.972	105.94	70-130
74 Cyclohexane	50.000	56.915	113.83	60-140
75 1,1,1-Trichloroeth	50.000	53.064	106.13	70-130
56 Vinyl Acetate	50.000	58.147	116.29	60-140
77 Carbon Tetrachlori	50.000	53.617	107.23	70-130
80 2,2,4-Trimethylpen	50.000	58.681	117.36	60-140
81 Benzene	50.000	47.976	95.95	70-130
85 1,2-Dichloroethane	50.000	49.703	99.41	70-130
90 Heptane	50.000	52.910	105.82	60-140
93 Trichloroethene	50.000	49.094	98.19	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
98 1,2-Dichloropropan	50.000	50.960	101.92	70-130
99 1,4-Dioxane	50.000	47.191	94.38	60-140
100 Bromodichlorometha	50.000	50.579	101.16	60-140
103 cis-1,3-Dichloropr	50.000	55.690	111.38	70-130
106 4-Methyl-2-pentano	50.000	55.838	111.68	60-140
108 Toluene	50.000	55.734	111.47	70-130
113 trans-1,3-Dichloro	50.000	56.366	112.73	70-130
114 1,1,2-Trichloroeth	50.000	50.943	101.89	70-130
116 Tetrachloroethene	50.000	50.227	100.45	70-130
119 2-Hexanone	50.000	52.737	105.47	60-140
120 Dibromochlorometha	50.000	53.511	107.02	60-140
122 1,2-Dibromoethane	50.000	53.165	106.33	70-130
126 Chlorobenzene	50.000	52.231	104.46	70-130
128 Ethyl Benzene	50.000	52.571	105.14	70-130
130 m,p-Xylene	50.000	53.759	107.52	70-130
132 o-Xylene	50.000	56.892	113.78	70-130
133 Styrene	50.000	51.894	103.79	70-130
134 Bromoform	50.000	52.956	105.91	60-140
136 Cumene	50.000	55.876	111.75	60-140
141 1,1,2,2-Tetrachlor	50.000	52.255	104.51	70-130
142 Propylbenzene	50.000	54.312	108.63	60-140
144 4-Ethyltoluene	50.000	56.633	113.27	60-140
147 1,3,5-Trimethylben	50.000	52.455	104.91	70-130
152 1,2,4-Trimethylben	50.000	54.420	108.84	70-130
155 1,3-Dichlorobenzen	50.000	50.668	101.34	70-130
156 1,4-Dichlorobenzen	50.000	51.738	103.48	70-130
157 alpha-Chlorotoluen	50.000	59.428	118.86	70-130
159 1,2-Dichlorobenzen	50.000	46.596	93.19	70-130
163 1,2,4-Trichloroben	50.000	47.749	95.50	70-130
164 Hexachlorobutadien	50.000	45.721	91.44	70-130
6 Propylene	50.000	54.916	109.83	70-130
165 Naphthalene	50.000	46.558	93.12	60-140
11 Butane	50.000	53.603	107.21	70-130
17 Isopentane	50.000	51.251	102.50	70-130
94 Methyl Cyclohexane	50.000	54.315	108.63	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 84 1,2-Dichloroethane	25.000	24.212	96.85	70-130
$ 107 Toluene-d8	25.000	25.292	101.17	70-130
$ 138 Bromofluorobenzene	25.000	23.583	94.33	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd5.i/5-01oct.b/5100105.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 01-OCT-2007 11:35
Operator : lmr Inst ID: msd5.i
Smp Info : 200mL #1443-295B
Misc Info : 50ppbv -> 50ppbv
Comment :
Method : /chem/msd5.i/5-01oct.b/t14q928a.m
Meth Date : 01-Oct-2007 11:49 lrandolp Quant Type: ISTD
Cal Date : 28-SEP-2007 14:08 Cal File: 5092811.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 71 Bromochloromethane					CAS #: 74-97-5		
8.059	8.059 (1.000)	130	340775	25.0000		80.00- 120.00	100.00
8.059	8.059 (1.000)	128	264316			52.20- 112.20	77.56
8.059	8.059 (1.000)	49	795463			206.34- 266.34	233.43
* 92 1,4-Difluorobenzene					CAS #: 540-36-3		
9.912	9.911 (1.000)	114	1329467	25.0000		80.00- 120.00	100.00
9.912	9.911 (1.000)	88	231939			0.00- 47.36	17.45
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.999	14.999 (1.000)	117	1060938	25.0000		80.00- 120.00	100.00
14.999	14.999 (1.000)	82	627170			28.84- 88.84	59.11
$ 84 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.137	9.137 (1.134)	65	521125	24.2124	24.212	80.00- 120.00	100.00
9.137	9.137 (1.134)	67	277111			28.76- 88.76	53.18
$ 107 Toluene-d8					CAS #: 2037-26-5		
12.704	12.704 (1.282)	98	1186969	25.2921	25.292	80.00- 120.00	100.00
12.704	12.704 (1.282)	70	120024			0.00- 39.82	10.11

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 107 Toluene-d8 (continued)							
12.704	12.704 (1.282)	100	785059			40.57- 100.57	66.14
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.575	16.575 (1.105)	174	503718	23.5830	23.583	80.00- 120.00	100.00
16.575	16.575 (1.105)	95	855738			134.87- 194.87	169.88
16.575	16.575 (1.105)	176	488207			65.46- 125.46	96.92
6 Propylene					CAS #: 115-07-1		
2.280	2.280 (0.283)	41	1311937	54.9165	54.916	80.00- 120.00	100.00
2.280	2.280 (0.283)	42	923460			37.78- 97.78	70.39
2.280	2.280 (0.283)	39	868960			36.38- 96.38	66.23
8 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.336	2.336 (0.290)	85	1941277	52.2541	52.254	80.00- 120.00	100.00
2.336	2.336 (0.290)	87	605423			2.15- 62.15	31.19
9 Freon 114					CAS #: 76-14-2		
2.529	2.501 (0.314)	135	1878712	49.7944	49.794	80.00- 120.00	100.00
2.502	2.501 (0.310)	137	609533			1.62- 61.62	32.44
10 Chloromethane					CAS #: 74-87-3		
2.640	2.640 (0.328)	50	1526648	47.2532	47.253	80.00- 120.00	100.00
2.640	2.640 (0.328)	52	446015			0.00- 59.05	29.22
13 Vinyl Chloride					CAS #: 75-01-4		
2.778	2.778 (0.345)	62	1438030	54.7403	54.740	80.00- 120.00	100.00
2.778	2.778 (0.345)	64	439434			0.94- 60.94	30.56
12 1,3-Butadiene					CAS #: 106-99-0		
2.778	2.778 (0.345)	54	1383378	54.7744	54.774	80.00- 120.00	100.00
2.778	2.778 (0.345)	39	1664529			76.94- 136.94	120.32
15 Bromomethane					CAS #: 74-83-9		
3.303	3.303 (0.410)	94	960859	54.6985	54.698	80.00- 120.00	100.00
3.276	3.303 (0.406)	96	920610			62.66- 122.66	95.81
19 Chloroethane					CAS #: 75-00-3		
3.442	3.441 (0.427)	64	704251	48.6633	48.663	80.00- 120.00	100.00
3.442	3.441 (0.427)	49	198724			0.00- 59.42	28.22
3.442	3.441 (0.427)	66	164889			0.00- 59.02	23.41
20 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.746	3.746 (0.465)	101	2228568	52.0838	52.084	80.00- 120.00	100.00
3.746	3.746 (0.465)	103	1434784			34.08- 94.08	64.38

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
26 Ethanol					CAS #: 64-17-5		
4.105	4.105 (0.509)	45	347756	40.2359	40.236	80.00- 120.00	100.00
4.133	4.105 (0.513)	43	56045			0.00- 48.45	16.12
4.105	4.133 (0.509)	46	145555			13.44- 73.44	41.86
30 Freon 113					CAS #: 76-13-1		
4.548	4.547 (0.564)	151	1561549	55.7919	55.792	80.00- 120.00	100.00
4.548	4.547 (0.564)	153	989776			32.90- 92.90	63.38
4.520	4.520 (0.561)	101	2121893			101.77- 161.77	135.88
31 1,1-Dichloroethene					CAS #: 75-35-4		
4.575	4.575 (0.568)	61	2064989	59.2810	59.281	80.00- 120.00	100.00
4.575	4.575 (0.568)	96	1163691			25.25- 85.25	56.35
4.575	4.575 (0.568)	98	760248			5.94- 65.94	36.82
32 Acetone					CAS #: 67-64-1		
4.741	4.741 (0.588)	58	723337	56.1062	56.106	80.00- 120.00	100.00
4.741	4.713 (0.588)	43	2240408			280.82- 340.82	309.73
36 2-Propanol					CAS #: 67-63-0		
4.935	4.935 (0.612)	45	2464182	53.7277	53.728	80.00- 120.00	100.00
4.935	4.935 (0.612)	43	577861			0.00- 51.03	23.45
4.935	4.935 (0.612)	59	87800			0.00- 33.25	3.56
35 Carbon Disulfide					CAS #: 75-15-0		
4.935	4.935 (0.612)	76	3060831	54.0437	54.044	80.00- 120.00	100.00
38 3-Chloropropene					CAS #: 107-05-1		
5.211	5.211 (0.647)	76	467374	52.7154	52.715	80.00- 120.00	100.00
5.184	5.183 (0.643)	41	2018425			398.31- 458.31	431.87
43 Methylene Chloride					CAS #: 75-09-2		
5.460	5.460 (0.678)	49	1758276	55.7204	55.720	80.00- 120.00	100.00
5.460	5.460 (0.678)	84	928968			23.12- 83.12	52.83
5.460	5.460 (0.678)	51	532813			0.41- 60.41	30.30
46 MTBE					CAS #: 1634-04-4		
5.764	5.764 (0.715)	73	437768	28.2367	28.237	80.00- 120.00	100.00(R)
5.764	5.764 (0.715)	57	136510			3.51- 63.51	31.18
5.764	5.764 (0.715)	41	167559			7.35- 67.35	38.28
47 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.819	5.819 (0.722)	96	1143753	51.9892	51.989	80.00- 120.00	100.00
5.819	5.819 (0.722)	61	1860108			136.38- 196.38	162.63
5.819	5.819 (0.722)	98	716377			33.25- 93.25	62.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
51 Hexane					CAS #: 110-54-3		
6.179	6.179 (0.767)	57	2381682	55.4468	55.447	80.00- 120.00	100.00
6.151	6.151 (0.763)	43	1709972			43.10- 103.10	71.80
6.179	6.179 (0.767)	86	324160			0.00- 43.40	13.61
55 1,1-Dichloroethane					CAS #: 75-34-3		
6.594	6.594 (0.818)	63	2114221	55.3548	55.355	80.00- 120.00	100.00
6.594	6.594 (0.818)	65	625351			0.00- 59.49	29.58
67 2-Butanone					CAS #: 78-93-3		
7.672	7.672 (0.952)	72	458003	60.3192	60.319	80.00- 120.00	100.00
7.672	7.672 (0.952)	43	2923919			609.36- 669.36	638.41
7.672	7.672 (0.952)	57	198197			13.65- 73.65	43.27
66 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.617	7.617 (0.945)	61	1552660	57.5971	57.597	80.00- 120.00	100.00
7.644	7.617 (0.949)	96	994380			35.67- 95.67	64.04
7.644	7.644 (0.949)	98	657458			12.42- 72.42	42.34
70 Tetrahydrofuran					CAS #: 109-99-9		
8.031	8.031 (0.997)	42	1717702	50.9416	50.942	80.00- 120.00	100.00
8.059	8.031 (1.000)	71	414107			0.00- 53.13	24.11
8.059	8.059 (1.000)	72	446879			0.00- 55.26	26.02
72 Chloroform					CAS #: 67-66-3		
8.197	8.197 (1.017)	83	1772636	52.9724	52.972	80.00- 120.00	100.00
8.197	8.197 (1.017)	85	1137750			35.01- 95.01	64.18
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.446	8.446 (1.048)	97	1768640	53.0645	53.064	80.00- 120.00	100.00
8.446	8.446 (1.048)	99	1134391			35.56- 95.56	64.14
74 Cyclohexane					CAS #: 110-82-7		
8.419	8.418 (1.045)	84	1314787	56.9149	56.915	80.00- 120.00	100.00
8.419	8.418 (1.045)	56	2216122			132.98- 192.98	168.55
8.419	8.418 (1.045)	41	1259444			64.61- 124.61	95.79
56 Vinyl Acetate					CAS #: 108-05-4		
6.677	6.676 (0.828)	86	264124	58.1472	58.147	80.00- 120.00	100.00
6.649	6.649 (0.825)	43	3653989			1380.92-1440.92	1383.44
6.649	6.649 (0.825)	42	274217			74.35- 134.35	103.82
77 Carbon Tetrachloride					CAS #: 56-23-5		
8.667	8.667 (1.075)	119	1491337	53.6167	53.617	80.00- 120.00	100.00
8.667	8.667 (1.075)	117	1570959			74.73- 134.73	105.34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.110	9.110 (1.130)	57	6473384	58.6811	58.681	80.00- 120.00	100.00
9.110	9.110 (1.130)	56	2105972			2.94- 62.94	32.53
9.110	9.110 (1.130)	41	1718373			0.00- 58.32	26.55
81 Benzene					CAS #: 71-43-2		
9.082	9.082 (0.916)	78	2701449	47.9761	47.976	80.00- 120.00	100.00
9.082	9.082 (0.916)	77	627536			0.00- 53.11	23.23
85 1,2-Dichloroethane					CAS #: 107-06-2		
9.276	9.275 (0.936)	62	1427890	49.7034	49.703	80.00- 120.00	100.00
9.276	9.275 (0.936)	64	456628			1.72- 61.72	31.98
90 Heptane					CAS #: 142-82-5		
9.497	9.497 (0.958)	100	316134	52.9100	52.910	80.00- 120.00	100.00
9.469	9.469 (0.955)	43	2728178			796.32- 856.32	862.98
9.497	9.497 (0.958)	71	981141			255.07- 315.07	310.36
93 Trichloroethene					CAS #: 79-01-6		
10.326	10.326 (1.042)	95	1105150	49.0941	49.094	80.00- 120.00	100.00
10.326	10.326 (1.042)	130	1057173			66.52- 126.52	95.66
10.326	10.326 (1.042)	97	708776			34.88- 94.88	64.13
98 1,2-Dichloropropane					CAS #: 78-87-5		
10.852	10.852 (1.095)	63	1056809	50.9603	50.960	80.00- 120.00	100.00
10.852	10.852 (1.095)	62	756894			41.61- 101.61	71.62
10.852	10.852 (1.095)	41	791031			48.25- 108.25	74.85
99 1,4-Dioxane					CAS #: 123-91-1		
11.073	11.073 (1.117)	88	544940	47.1907	47.191	80.00- 120.00	100.00
11.073	11.073 (1.117)	58	556129			64.91- 124.91	102.05
11.073	11.073 (1.117)	57	174048			1.20- 61.20	31.94
100 Bromodichloromethane					CAS #: 75-27-4		
11.405	11.405 (1.151)	83	1641009	50.5789	50.579	80.00- 120.00	100.00
11.405	11.405 (1.151)	85	1075516			32.78- 92.78	65.54
103 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.317	12.317 (1.243)	75	1177911	55.6906	55.690	80.00- 120.00	100.00
12.317	12.317 (1.243)	77	383174			0.80- 60.80	32.53
12.317	12.317 (1.243)	39	919245			48.63- 108.63	78.04
106 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.594	12.593 (1.271)	58	975929	55.8379	55.838	80.00- 120.00	100.00
12.594	12.593 (1.271)	43	2867379			271.12- 331.12	293.81
12.594	12.593 (1.271)	85	312147			3.14- 63.14	31.98

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
108 Toluene					CAS #: 108-88-3		
12.815	12.815 (1.293)	91	2887400	55.7337	55.734	80.00- 120.00	100.00
12.815	12.815 (1.293)	92	1699184			29.24- 89.24	58.85
113 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.368	13.368 (0.891)	75	1252355	56.3662	56.366	80.00- 120.00	100.00
13.368	13.368 (0.891)	77	378901			1.11- 61.11	30.26
13.368	13.368 (0.891)	39	909219			44.45- 104.45	72.60
114 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.644	13.644 (0.910)	97	940342	50.9430	50.943	80.00- 120.00	100.00
13.644	13.644 (0.910)	99	586022			32.56- 92.56	62.32
13.644	13.644 (0.910)	83	777534			53.17- 113.17	82.69
116 Tetrachloroethene					CAS #: 127-18-4		
13.700	13.699 (0.913)	166	1127194	50.2267	50.227	80.00- 120.00	100.00
13.700	13.699 (0.913)	129	914276			52.45- 112.45	81.11
13.700	13.699 (0.913)	131	882498			49.36- 109.36	78.29
119 2-Hexanone					CAS #: 591-78-6		
14.004	14.031 (0.934)	58	1267464	52.7371	52.737	80.00- 120.00	100.00
14.004	14.004 (0.934)	43	2705593			180.58- 240.58	213.47
14.031	14.031 (0.935)	100	194285			0.00- 45.43	15.33
120 Dibromochloromethane					CAS #: 124-48-1		
14.197	14.197 (0.947)	129	1432183	53.5114	53.511	80.00- 120.00	100.00
14.197	14.197 (0.947)	127	1130414			47.68- 107.68	78.93
122 1,2-Dibromoethane					CAS #: 106-93-4		
14.363	14.363 (0.958)	107	1424355	53.1653	53.165	80.00- 120.00	100.00
14.363	14.363 (0.958)	109	1329669			64.62- 124.62	93.35
126 Chlorobenzene					CAS #: 108-90-7		
15.054	15.054 (1.004)	112	2180037	52.2313	52.231	80.00- 120.00	100.00
15.054	15.054 (1.004)	114	695255			1.95- 61.95	31.89
15.027	15.027 (1.002)	77	1352557			32.52- 92.52	62.04
128 Ethyl Benzene					CAS #: 100-41-4		
15.165	15.165 (1.011)	106	1169047	52.5714	52.571	80.00- 120.00	100.00
15.165	15.165 (1.011)	91	3903082			309.29- 369.29	333.87
130 m,p-Xylene					CAS #: 108-38-3		
15.331	15.331 (1.022)	106	1471703	53.7593	53.759	80.00- 120.00	100.00
15.331	15.331 (1.022)	91	3169254			189.13- 249.13	215.35
132 o-Xylene					CAS #: 95-47-6		
15.856	15.856 (1.057)	106	1357028	56.8921	56.892	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
132 o-Xylene (continued)							
15.856	15.856 (1.057)	91	3152333			197.29- 257.29	232.30
133 Styrene					CAS #: 100-42-5		
15.912	15.911 (1.061)	104	2024084	51.8943	51.894	80.00- 120.00	100.00
15.912	15.911 (1.061)	78	1083555			26.12- 86.12	53.53
134 Bromoform					CAS #: 75-25-2		
16.160	16.160 (1.077)	173	1269490	52.9565	52.956	80.00- 120.00	100.00
16.160	16.160 (1.077)	171	664315			22.42- 82.42	52.33
141 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.796	16.796 (1.120)	83	1987404	52.2550	52.255	80.00- 120.00	100.00
16.796	16.796 (1.120)	85	1279110			34.56- 94.56	64.36
144 4-Ethyltoluene					CAS #: 622-96-8		
16.962	16.962 (1.131)	105	4329997	56.6334	56.633	80.00- 120.00	100.00
16.962	16.962 (1.131)	120	1267885			0.00- 59.86	29.28
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.045	17.045 (1.136)	105	3867840	52.4551	52.455	80.00- 120.00	100.00
17.045	17.045 (1.136)	120	1787325			16.12- 76.12	46.21
152 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.460	17.460 (1.164)	105	3300535	54.4201	54.420	80.00- 120.00	100.00
17.460	17.460 (1.164)	120	1480815			15.48- 75.48	44.87
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.764	17.764 (1.184)	146	2252359	50.6677	50.668	80.00- 120.00	100.00
17.764	17.764 (1.184)	148	1444789			33.90- 93.90	64.15
17.764	17.764 (1.184)	111	895587			10.87- 70.87	39.76
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.847	17.847 (1.190)	146	2618453	51.7384	51.738	80.00- 120.00	100.00
17.847	17.847 (1.190)	148	1626195			33.48- 93.48	62.11
17.847	17.847 (1.190)	111	1138247			14.34- 74.34	43.47
157 alpha-Chlorotoluene					CAS #: 100-44-7		
17.985	17.985 (1.199)	91	3883840	59.4282	59.428	80.00- 120.00	100.00
17.985	17.985 (1.199)	126	754216			0.00- 48.72	19.42
159 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.206	18.206 (1.214)	146	2252007	46.5964	46.596	80.00- 120.00	100.00
18.206	18.206 (1.214)	148	1452396			33.42- 93.42	64.49
18.206	18.206 (1.214)	111	933240			11.00- 71.00	41.44

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.506	19.506 (1.300)	180	1648523	47.7493	47.749	80.00- 120.00	100.00
19.506	19.506 (1.300)	182	1579475			65.76- 125.76	95.81
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.589	19.589 (1.306)	225	1176000	45.7207	45.721	80.00- 120.00	100.00
19.589	19.589 (1.306)	223	742881			33.10- 93.10	63.17
142 Propylbenzene					CAS #: 103-65-1		
16.824	16.824 (1.122)	91	5033670	54.3125	54.312	80.00- 120.00	100.00
16.852	16.851 (1.123)	120	1091205			0.00- 51.88	21.68
16.824	16.824 (1.122)	105	172700			0.00- 33.52	3.43
136 Cumene					CAS #: 98-82-8		
16.326	16.326 (1.088)	105	4363548	55.8762	55.876	80.00- 120.00	100.00
16.326	16.326 (1.088)	120	1156482			0.00- 55.75	26.50
16.326	16.326 (1.088)	51	657345			0.00- 45.19	15.06
165 Naphthalene					CAS #: 91-20-3		
19.672	19.672 (1.312)	128	5144608	46.5578	46.558	80.00- 120.00	100.00
19.672	19.672 (1.312)	127	654025			0.00- 42.58	12.71
17 Isopentane					CAS #: 78-78-4		
3.414	3.414 (0.424)	43	2247128	51.2514	51.251	80.00- 120.00	100.00
3.414	3.414 (0.424)	57	1382799			30.45- 90.45	61.54
3.414	3.414 (0.424)	72	121483			0.00- 35.68	5.41
11 Butane					CAS #: 106-97-8		
2.695	2.695 (0.334)	58	375924	53.6027	53.603	80.00- 120.00	100.00
2.723	2.695 (0.338)	43	3012381			767.20- 827.20	801.33
94 Methyl Cyclohexane					CAS #: 108-87-2		
10.548	10.547 (1.064)	83	1599111	54.3149	54.315	80.00- 120.00	100.00
10.548	10.547 (1.064)	98	814021			21.00- 81.00	50.90
10.548	10.547 (1.064)	55	1959599			91.46- 151.46	122.54

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 01-Oct-2007 11:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd5.i
Lab File ID: 5100105.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msd5.i/5-01oct.b/t14q928a.m
Misc Info: 50ppbv -> 50ppbv

Calibration Date: 01-OCT-2007
Calibration Time: 11:03
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
71 Bromochloromethan	340368	204221	476515	340775	0.12
92 1,4-Difluorobenze	1328794	797276	1860312	1329467	0.05
125 Chlorobenzene-d5	1041725	625035	1458415	1060938	1.84

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

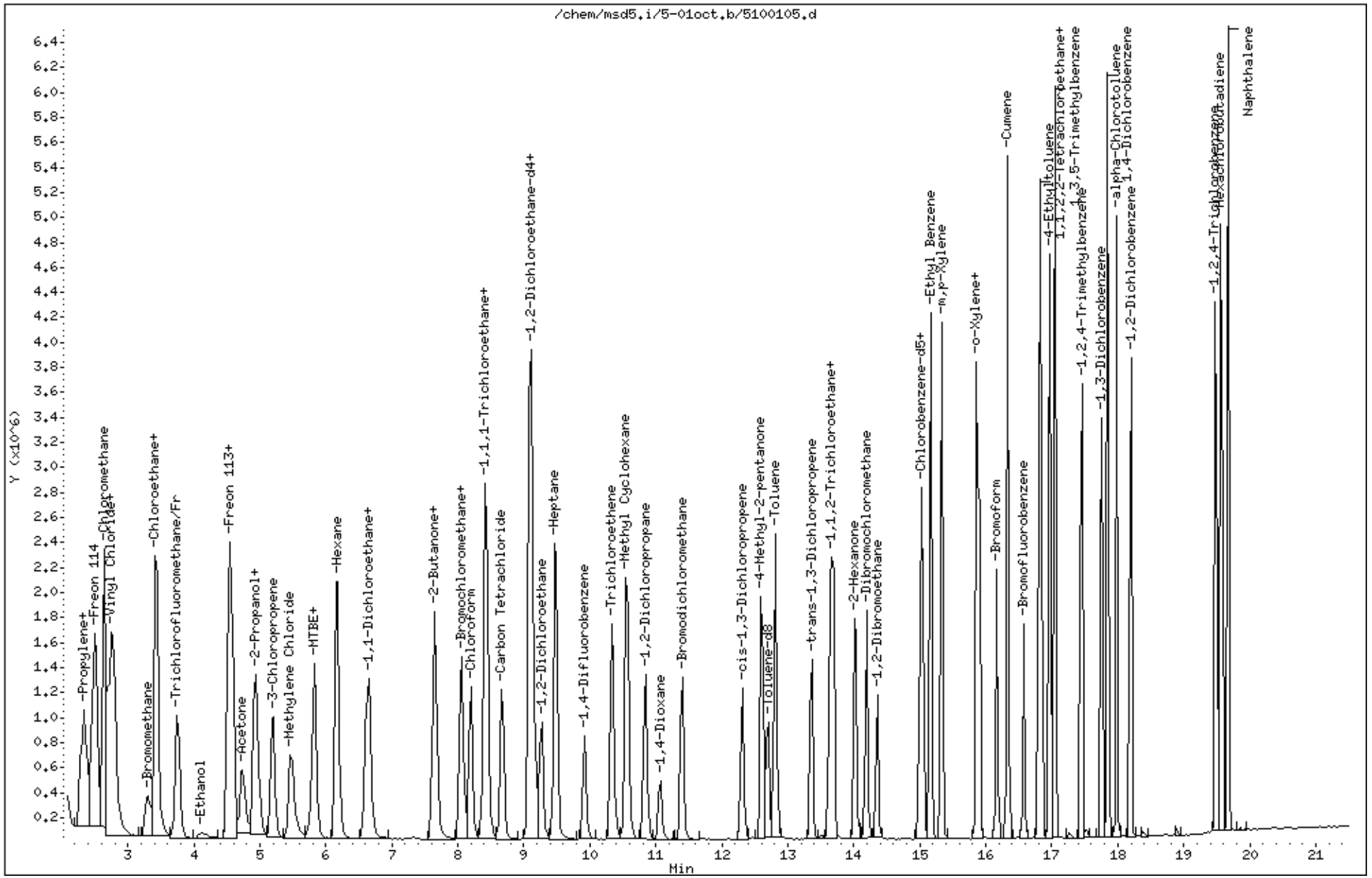
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0167

Data File: /chem/msd5.i/5-01oct.b/5100105.d
Date : 01-OCT-2007 11:35
Client ID: LCS-1
Sample Info: 200mL #1443-295B

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

Column phase: RTx-624



@ Air Toxics Ltd. **MSD-5** Logbook #: 1586

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	28.24
75	30.0 – 60.0% of mass 95	47.29
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.37
173	Less than 2.0% of mass 174	(0.79)[1]
174	Greater than 50.0% of mass 95	67.08
175	5.0 – 9.0% of mass 174	(7.39)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.79)[1] ✓
177	5.0 – 9.0% of mass 176	(6.58)[2]

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

BFB Injection Date: 10/1/07
BFB Injection Time: 0851
BFB File ID: 5100101
Tekmar Purge Flow: 12.5ml/min
Vacuum: 3.20x10-6

IS/S Std.#: 1487-385	Exp. Date: 12/10/07
BCM 3403166	
1,4-DFB 1328794	
CB-d5 1041725	

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

Verify 176/174 m/z Ratio: 1861632/1943552 x100 = 95.78

NOAH Cart #: ~~14~~ 15 (LR 10/1/07) **File #:** ~~F0926-08~~/U092807 (LR 10/1/07)

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1201417)}{(1328794)} \times \frac{(25)}{(0.8825)} = 25.613$

Reported Result 25.613

File ID:	5100104
Compound:	Tol-d8
Initials:	LR

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	5100101	BFB Tune Check	843-2980	50ng	2µl	1.00	10/1/07	0851	LR	apex+1
2	X	02	CCV-1 (200ppbv)	1576-18	50ppbv	50mL			0927	LR	
3	X	03	LCS-1 (50ppbv)	1443-2958		200mL			0959	LR	
4	✓	04	CCV-1 (50ppbv)	1443-2916					1103	LR	
5	✓	05	LCS-1 (50ppbv	1443-2916	↓	↓			1135	LR	
6		06	TPHg (100ppmv)	1576-14	2500ppmv	5.0mL			1225	LR	
7	✓	07	Lab Blank	12941	humid	200mL			1323	LR	
8	✓	08	cart cert #14, leg1	↓	↓		↓		1420	LR	
9	✓	09	0709~~375~~497-01A	34418	6.5"Hg → 5psi		1.71		1543	KR	
10	✓	↓ 10	↓ -02A	33965	↓	↓	↓	↓	1615	KR	

Air Toxics Ltd.

Data file : /var/chem/msd5.i/5-28sep.b/5092804.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 28-SEP-2007 09:58
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-28sep.b/bfb30.m
Meth Date : 28-Sep-2007 09:50 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		
3.803	3.900	-0.097	95	2293930			100.00- 100.00	100.00
3.803	3.900	-0.097	50	682265			15.00- 40.00	29.74
3.803	3.900	-0.097	75	1129344			30.00- 60.00	49.23
3.803	3.900	-0.097	96	148605			5.00- 9.00	6.48
3.803	3.900	-0.097	173	11143			0.00- 2.00	0.82
3.803	3.900	-0.097	174	1352021			50.00- 100.00	58.94
3.803	3.900	-0.097	175	94903			5.00- 9.00	7.02
3.803	3.900	-0.097	176	1295872			95.00- 101.00	95.85
3.803	3.900	-0.097	177	87544			5.00- 9.00	6.76

Data File: /var/chem/msd5.i/5-28sep.b/5092804.d

Date : 28-SEP-2007 09:58

Client ID: BFB

Instrument: msd5.i

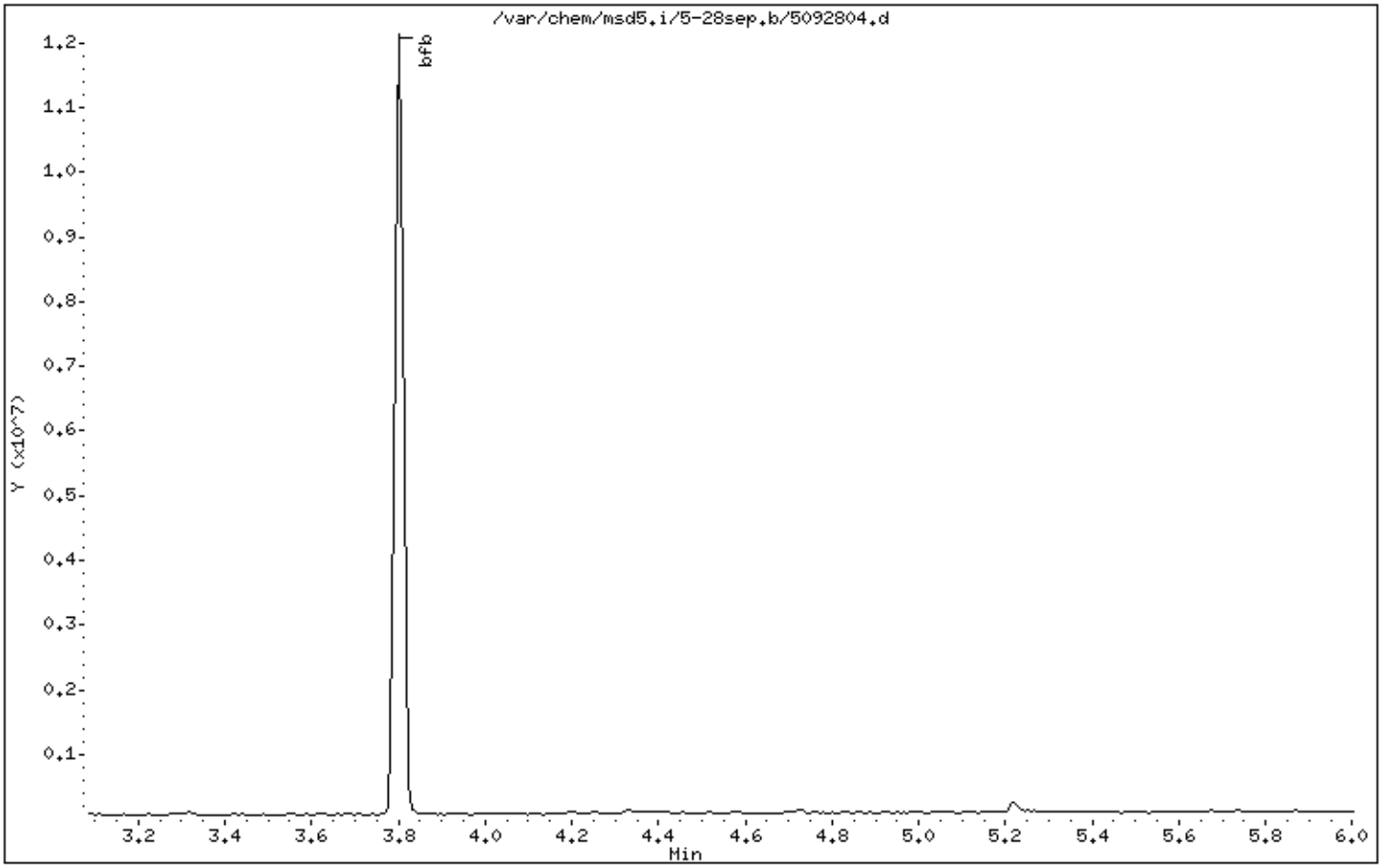
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /var/chem/msd5.i/5-28sep.b/5092804.d

Date : 28-SEP-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

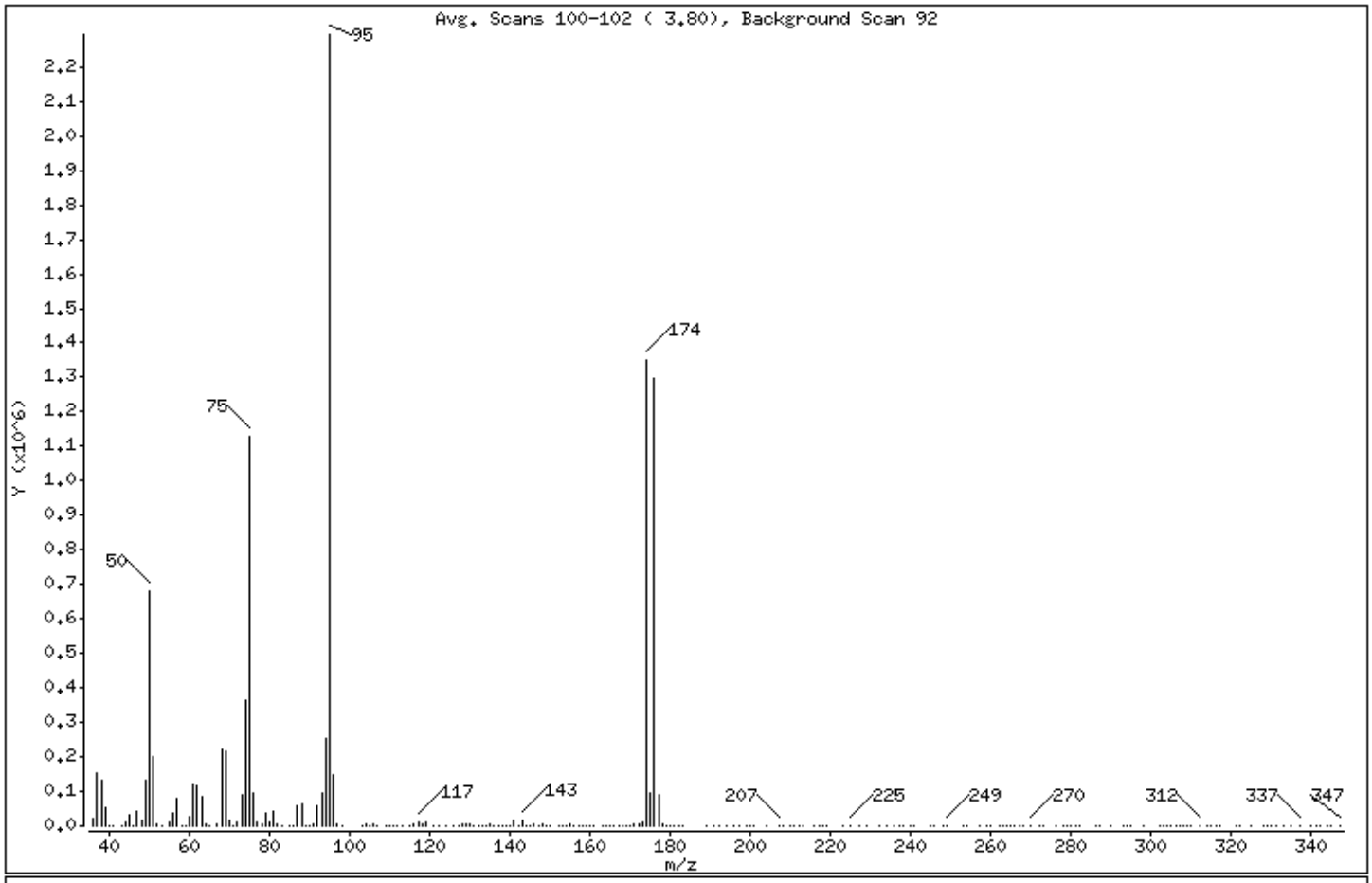
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.74
75	30.00 - 60.00% of mass 95	49.23
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.49 (0.82)
174	50.00 - 100.00% of mass 95	58.94
175	5.00 - 9.00% of mass 174	4.14 (7.02)
176	95.00 - 101.00% of mass 174	56.49 (95.85)
177	5.00 - 9.00% of mass 176	3.82 (6.76)

Data File: /var/chem/msd5.i/5-28sep.b/5092804.d

Date : 28-SEP-2007 09:58

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5092804.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	22440	97.00	3062	165.00	342	259.00	242
37.00	151488	98.00	366	166.00	390	260.00	333
38.00	132288	103.00	457	167.00	400	262.00	135
39.00	51216	104.00	6981	168.00	272	263.00	144
40.00	464	105.00	1741	169.00	1698	264.00	96
41.00	71	106.00	5217	170.00	702	265.00	44
43.00	769	107.00	1567	171.00	3229	266.00	264
44.00	12866	109.00	50	172.00	2679	267.00	38
45.00	29720	110.00	630	173.00	11143	268.00	146
46.00	752	111.00	74	174.00	1351680	270.00	843
47.00	40272	112.00	732	175.00	94896	272.00	161
48.00	16364	113.00	1338	176.00	1295872	273.00	130
49.00	131200	115.00	2126	177.00	87544	276.00	128
50.00	682240	116.00	6185	178.00	3027	278.00	67
51.00	201280	117.00	9248	179.00	302	279.00	223
52.00	7768	118.00	5087	180.00	55	280.00	68
53.00	637	119.00	8962	181.00	285	281.00	15
55.00	8042	121.00	94	182.00	134	282.00	243
56.00	36536	122.00	150	183.00	680	286.00	67
57.00	78528	124.00	1064	189.00	2	287.00	466
58.00	2381	126.00	844	191.00	194	290.00	204
59.00	397	127.00	694	192.00	61	293.00	76
60.00	25368	128.00	5749	194.00	260	294.00	137
61.00	121072	129.00	3059	196.00	94	295.00	53
62.00	116760	130.00	6872	197.00	316	298.00	131
63.00	84992	131.00	2560	199.00	81	302.00	207
64.00	7904	132.00	64	200.00	144	303.00	53
65.00	1258	133.00	229	201.00	221	304.00	202
67.00	4041	134.00	162	204.00	96	305.00	137
68.00	222208	135.00	3596	207.00	832	306.00	67
69.00	214208	136.00	367	208.00	292	307.00	125
70.00	15398	137.00	2180	210.00	211	308.00	188
71.00	976	138.00	61	211.00	172	309.00	149
72.00	11125	139.00	794	212.00	197	310.00	97
73.00	87904	140.00	1119	213.00	71	312.00	337

Date : 28-SEP-2007 09:58

Client ID: BFB Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: 5092804.d
Spectrum: Avg. Scans 100-102 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 226

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	363008	141.00	16362	216.00	223	314.00	124
75.00	1128960	142.00	1569	217.00	103	315.00	144
76.00	96968	143.00	17856	218.00	54	316.00	183
77.00	8818	144.00	442	219.00	220	317.00	56
78.00	6162	145.00	304	223.00	66	321.00	141
79.00	35928	146.00	2749	225.00	278	322.00	53
80.00	12345	147.00	386	227.00	89	325.00	88
81.00	40960	148.00	4156	229.00	106	328.00	89
82.00	7685	149.00	1316	232.00	147	329.00	135
83.00	482	150.00	1991	234.00	163	330.00	125
85.00	574	152.00	1024	236.00	168	331.00	108
86.00	1681	153.00	1070	237.00	261	333.00	165
87.00	56040	154.00	783	238.00	121	335.00	130
88.00	62992	155.00	4757	240.00	118	337.00	323
89.00	1174	156.00	839	241.00	54	340.00	77
90.00	576	157.00	2438	245.00	85	341.00	188
91.00	6231	158.00	413	246.00	179	342.00	33
92.00	57544	159.00	1520	248.00	71	344.00	184
93.00	93216	160.00	116	249.00	360	345.00	51
94.00	254208	161.00	2281	253.00	190	347.00	59
95.00	2293760	163.00	280	254.00	248		
96.00	148544	164.00	203	257.00	198		

Air Toxics Ltd.

Data file : /chem/msd5.i/5-01oct.b/5100101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 01-OCT-2007 08:51
Operator : lmr Inst ID: msd5.i
Smp Info : BFB Tune Check
Misc Info : 2ul #843-2980;50 ng
Comment :
Method : /var/chem/msd5.i/5-01oct.b/bfb30.m
Meth Date : 01-Oct-2007 08:42 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		
3.796	3.900	-0.104	95	2897408			100.00- 100.00	100.00
3.796	3.900	-0.104	50	818304			15.00- 40.00	28.24
3.796	3.900	-0.104	75	1370112			30.00- 60.00	47.29
3.796	3.900	-0.104	96	184512			5.00- 9.00	6.37
3.796	3.900	-0.104	173	15308			0.00- 2.00	0.79
3.796	3.900	-0.104	174	1943552			50.00- 100.00	67.08
3.796	3.900	-0.104	175	143680			5.00- 9.00	7.39
3.796	3.900	-0.104	176	1861632			95.00- 101.00	95.79
3.796	3.900	-0.104	177	122424			5.00- 9.00	6.58

Data File: /chem/msd5.i/5-01oct.b/5100101.d

Date : 01-OCT-2007 08:51

Client ID: BFB

Instrument: msd5.i

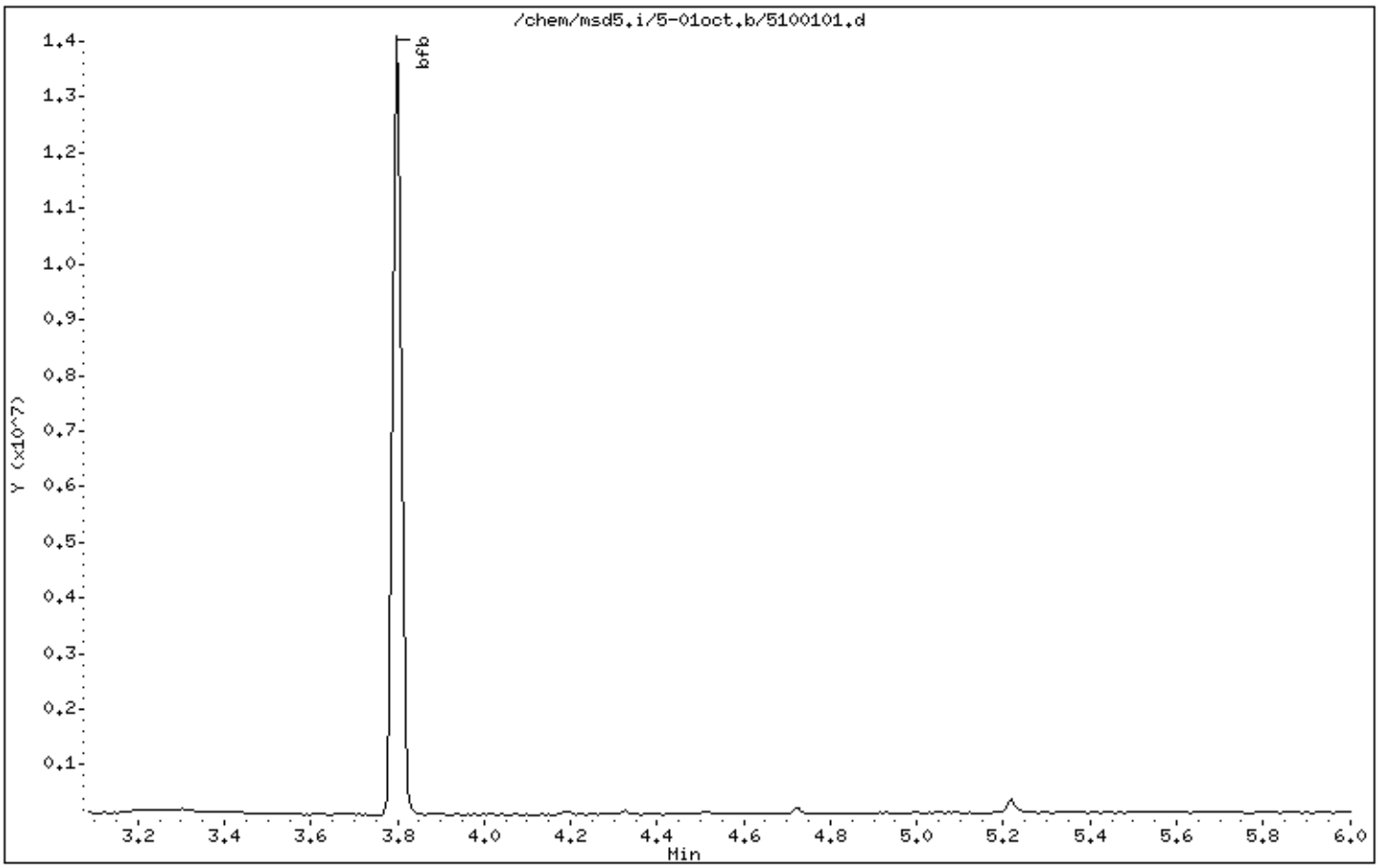
Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00



Data File: /chem/msd5.i/5-01oct.b/5100101.d

Date : 01-OCT-2007 08:51

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

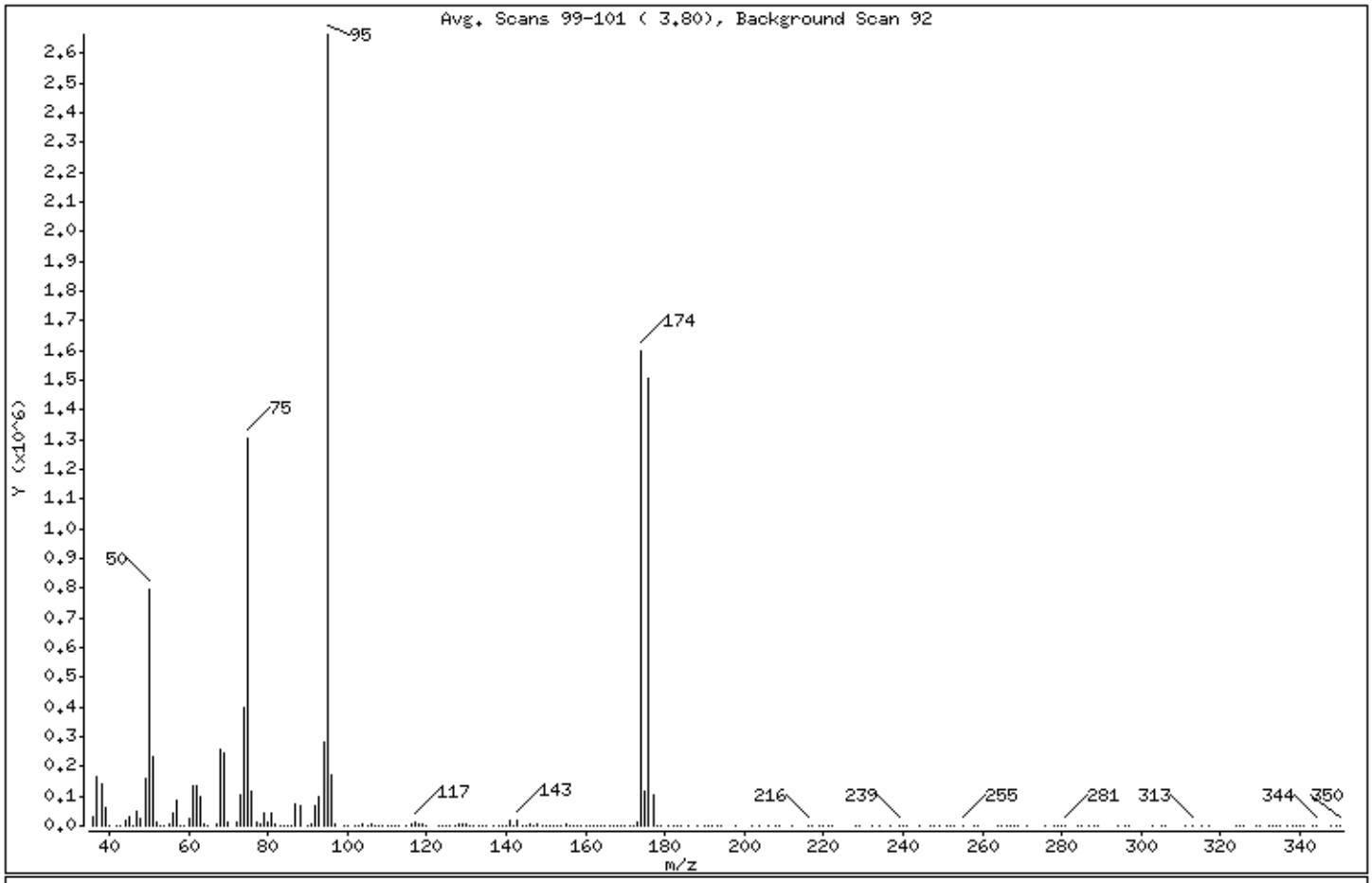
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.24
75	30.00 - 60.00% of mass 95	47.29
96	5.00 - 9.00% of mass 95	6.37
173	Less than 2.00% of mass 174	0.53 (0.79)
174	50.00 - 100.00% of mass 95	67.08
175	5.00 - 9.00% of mass 174	4.96 (7.39)
176	95.00 - 101.00% of mass 174	64.25 (95.79)
177	5.00 - 9.00% of mass 176	4.23 (6.58)

Data File: /chem/msd5.i/5-01oct.b/5100101.d

Date : 01-OCT-2007 08:51

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5100101.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	28000	96.00	172800	158.00	656	248.00	54
37.00	162560	97.00	4420	159.00	2099	249.00	72
38.00	142976	99.00	195	160.00	22	251.00	385
39.00	60128	100.00	5	161.00	1835	252.00	105
40.00	1475	102.00	140	162.00	694	253.00	166
42.00	216	103.00	597	163.00	177	255.00	399
43.00	1567	104.00	7860	164.00	281	258.00	181
44.00	15462	105.00	2040	165.00	121	259.00	64
45.00	31512	106.00	7493	166.00	141	264.00	285
46.00	2186	107.00	1600	167.00	582	265.00	283
47.00	47488	108.00	145	168.00	992	266.00	371
48.00	22400	109.00	274	169.00	897	267.00	54
49.00	157120	110.00	483	170.00	780	268.00	48
50.00	797952	111.00	736	171.00	2496	269.00	183
51.00	233664	112.00	237	172.00	2107	271.00	167
52.00	11003	113.00	592	173.00	10578	276.00	149
53.00	340	115.00	2206	174.00	1597440	278.00	322
54.00	230	116.00	6620	175.00	114648	279.00	50
55.00	6967	117.00	11397	176.00	1506816	280.00	233
56.00	45720	118.00	6956	177.00	101416	281.00	481
57.00	87376	119.00	8343	178.00	2897	284.00	186
58.00	2630	120.00	415	179.00	479	285.00	399
59.00	1115	123.00	1097	181.00	134	287.00	240
60.00	24712	124.00	482	182.00	102	288.00	12
61.00	137152	125.00	785	183.00	119	289.00	245
62.00	137408	126.00	212	184.00	107	294.00	181
63.00	95768	127.00	371	186.00	142	296.00	69
64.00	7501	128.00	6096	188.00	190	297.00	150
65.00	1308	129.00	4201	190.00	560	303.00	88
67.00	5775	130.00	6823	191.00	246	305.00	111
68.00	256256	131.00	2878	192.00	131	306.00	134
69.00	245184	132.00	731	193.00	72	311.00	60
70.00	14526	133.00	269	194.00	289	313.00	242
72.00	9328	134.00	974	198.00	197	315.00	90
73.00	102624	135.00	2534	202.00	304	317.00	63

Data File: /chem/msd5.i/5-01oct.b/5100101.d

Date : 01-OCT-2007 08:51

Client ID: BFB

Instrument: msd5.i

Sample Info: BFB Tune Check

Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

Data File: 5100101.d
Spectrum: Avg. Scans 99-101 (3.80), Background Scan 92
Location of Maximum: 95.00
Number of points: 222

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	400128	137.00	2438	204.00	161	324.00	320
75.00	1300992	138.00	438	206.00	195	325.00	88
76.00	115912	139.00	1086	208.00	130	326.00	217
77.00	13090	140.00	2302	209.00	107	329.00	64
78.00	8389	141.00	16223	212.00	194	330.00	53
79.00	42592	142.00	1882	216.00	335	332.00	179
80.00	11823	143.00	17200	217.00	203	333.00	64
81.00	43064	144.00	952	219.00	306	334.00	404
82.00	7503	145.00	1820	220.00	72	335.00	371
83.00	190	146.00	3098	221.00	153	337.00	324
84.00	183	147.00	1868	222.00	259	338.00	87
85.00	1364	148.00	4635	228.00	61	339.00	214
86.00	491	149.00	1764	229.00	51	340.00	113
87.00	76424	150.00	2142	232.00	375	341.00	197
88.00	69616	151.00	597	234.00	73	343.00	38
90.00	317	152.00	782	237.00	100	344.00	423
91.00	6555	153.00	1376	239.00	515	348.00	80
92.00	69552	154.00	989	240.00	302	349.00	57
93.00	100744	155.00	6314	241.00	235	350.00	132
94.00	282048	156.00	630	244.00	140		
95.00	2662400	157.00	2957	247.00	63		

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 #: 0709497
# of pages (Including Cover): 1

10/12/2007

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

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

Page ____ of ____

Project Manager: Scott Aldridge
Collected by: (Print and Sign) Thomas Tompkins
Company: GEI Consultants Inc Email: ____
Address: 455 Winding Brook City: Glastonbury State: CT Zip: 06033
Phone: 860-368-5300 Fax: 860-368-5307

Project Info:
P.O. #: ____
Project #: 061140-*-1303
Project Name: Bay Shore OU3 ...

Turn Around Time: ☑ Normal ☐ Rush ____ specify

Lab Use Only — Pressurized by: VFR Date: 9/29/07 Pressurization Gas: (N2) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	AMS 5 DW	1938	9/19/07	0715-1515	TO-15 + Naphthalene	-30	-6	6.5"Hg	5.0psi
02A	AMS 1 UW	1883	9/19/07	0715-1515	TO-15 + Naphthalene	-30	-8	6.5"Hg	✓

Relinquished by: (signature) Date/Time: Thomas T... 9/19/07 1530
Received by: (signature) Date/Time: [signature] ATL 9/24/07 0830
Notes:
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8612 8341 85768	NA	good	Yes No (None)	0709497

Form 1293 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0709497

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 10/08/07
Date Completed: 10/5/07
Date Received: 9/24/07
PO#: NR
Project#: 061140-8-1703 Bay Shore OU2 Air Monitoring
Total $: $ 554.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	AMS5 DW	Modified TO-15	9/19/2007	6.5 "Hg	$225.00
02A	AMS1 UW	Modified TO-15	9/19/2007	6.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges 6 Liter Summa Canister (2) @ $50.00 each. $100.00
Fuel Surcharge (2) @ $2.00 each. $4.00

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

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

Analysis Code: TO-14A

TERMS:

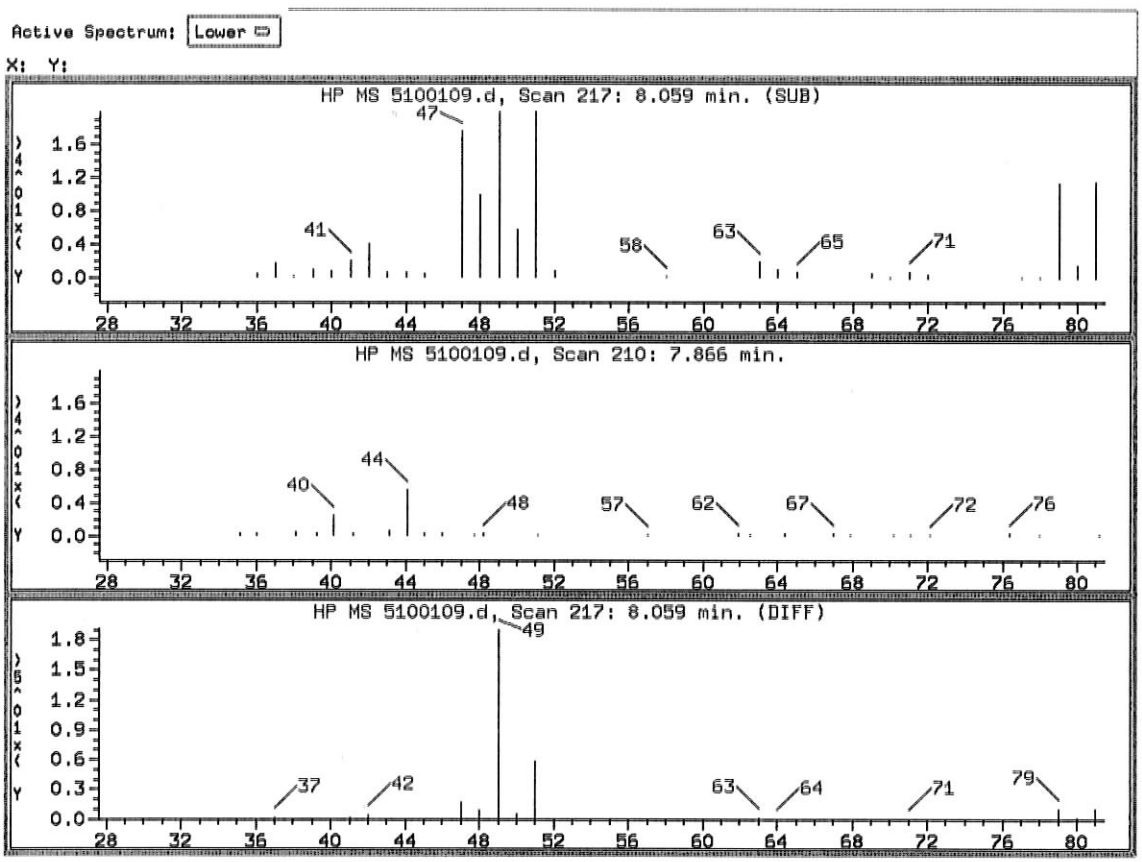
Reporting Method: Modified TO-15 + Naph

Other Records

...get compound ion ratios do n...
...match the Spectral Library due to the...
...presence of common ions from a co-...
...eluting non-target compound. In the...
...judgment of the reviewing scientist this...
...ompound is present in the associated...

Team A	
Date / Initial	10-5-07 CT
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	X
Zoom In	
Missed Peak	
Merged Peaks	

-01A THF



DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-71-8	Freon 12	0.50	
76-14-2	Freon 114	0.50	
108-38-3	m,p-Xylene	0.50	
95-47-6	o-Xylene	0.50	
100-42-5	Styrene	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	
108-67-8	1,3,5-Trimethylbenzene	0.50	
95-63-6	1,2,4-Trimethylbenzene	0.50	
541-73-1	1,3-Dichlorobenzene	0.50	
106-46-7	1,4-Dichlorobenzene	0.50	
100-44-7	alpha-Chlorotoluene	0.50	
95-50-1	1,2-Dichlorobenzene	0.50	
106-99-0	1,3-Butadiene	0.50	
110-54-3	Hexane	0.50	
110-82-7	Cyclohexane	0.50	
142-82-5	Heptane	0.50	
75-27-4	Bromodichloromethane	0.50	
124-48-1	Dibromochloromethane	0.50	
98-82-8	Cumene	0.50	
103-65-1	Propylbenzene	0.50	
74-87-3	Chloromethane	2.0	
120-82-1	1,2,4-Trichlorobenzene	2.0	
87-68-3	Hexachlorobutadiene	2.0	
67-64-1	Acetone	2.0	
75-15-0	Carbon Disulfide	0.50	
67-63-0	2-Propanol	2.0	
156-60-5	trans-1,2-Dichloroethene	0.50	
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50	
109-99-9	Tetrahydrofuran	0.50	
123-91-1	1,4-Dioxane	2.0	
108-10-1	4-Methyl-2-pentanone	0.50	
591-78-6	2-Hexanone	2.0	
75-25-2	Bromoform	0.50	
622-96-8	4-Ethyltoluene	0.50	
64-17-5	Ethanol	2.0	
1634-04-4	Methyl tert-butyl ether	0.50	
91-20-3	Naphthalene	2.0	
107-05-1	3-Chloropropene	2.0	
540-84-1	2,2,4-Trimethylpentane	0.50	
2037-26-5	Toluene-d8		
17060-07-0	1,2-Dichloroethane-d4		
460-00-4	4-Bromofluorobenzene		
75-01-4	Vinyl Chloride	0.50	
74-83-9	Bromomethane	0.50	
75-00-3	Chloroethane	0.50	
75-69-4	Freon 11	0.50	

Compound Listing

Modified TO-15 + Naph

CAS Number	Compound	Detection Limit ppbv	Type
75-35-4	1,1-Dichloroethene	0.50	
76-13-1	Freon 113	0.50	
75-09-2	Methylene Chloride	0.50	
75-34-3	1,1-Dichloroethane	0.50	
156-59-2	cis-1,2-Dichloroethene	0.50	
67-66-3	Chloroform	0.50	
71-55-6	1,1,1-Trichloroethane	0.50	
56-23-5	Carbon Tetrachloride	0.50	
71-43-2	Benzene	0.50	
107-06-2	1,2-Dichloroethane	0.50	
79-01-6	Trichloroethene	0.50	
78-87-5	1,2-Dichloropropane	0.50	
10061-01-5	cis-1,3-Dichloropropene	0.50	
108-88-3	Toluene	0.50	
10061-02-6	trans-1,3-Dichloropropene	0.50	
79-00-5	1,1,2-Trichloroethane	0.50	
127-18-4	Tetrachloroethene	0.50	
106-93-4	1,2-Dibromoethane (EDB)	0.50	
108-90-7	Chlorobenzene	0.50	
100-41-4	Ethyl Benzene	0.50	

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0709497

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

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

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

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

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

A/R: 1 out in CCV (MTBE)/ 1 out in LCS (MTBE)

M/Q: _____

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
LR 10/2/07	R: C Taylor 10-5-07	[signature] 10/5/07	
	T: _____		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev: 08/29/05

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

Not Applicable