
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 #: 0803303

	Page Nos.	
	From	To
1. Work Order Cover Page & Laboratory Narrative	1	4
a. Lumen Validation Report	--	--
2. Sample Results and Raw Data (Organized by Sample)	5	32
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results+ Raw Data)	33	40
b. Surrogate Recover Summary Form (If Applicable)	41	41
c. Internal Standard Summary Form (If Applicable)	42	42
d. Duplicate Results Summary Sheet	--	--
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data	--	--
f. Initial Calibration Data (Summary Sheet + Raw Data)	43	148
g. MDL Study (If Applicable)	--	--
h. Continuing Calibration Verification Data (Summary Sheet	149	163
i. Second Source LCS(Summary + Raw Data)	164	177
j. Extraction Logs	--	--
k. Instrument Run Logs/Software Verification	178	179
l. GC/MS Tune (Results + Raw Data)	180	194
4. Shipping/Receiving Documents		
a. Login Receipt Summary Sheet	195	196
b. Chain-of-Custody Records	197	197
c. Sample Log-In Sheet	198	198
d. Misc Shipping/Receiving Records (list of individual records)		
Sample Receipt Discrepancy Report	--	--
5. Other Records (describe or list)		
a. Manual Spectral Defense	--	--
b. Manual Integrations	--	--
c. Manual Calculations	--	--
d. Canister Dilution Factors	199	201
e. Laboratory Corrective Action Request	--	--
f. CAS Number Reference	202	203
g. Variance Table	--	--
h. Canister Certification	--	--
i. Data Review Check Sheet	204	204

Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	3/28/08
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0803303

Work Order Summary

CLIENT:	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746	**BILL TO:**	Ms. Theresa Landgraff GEI Consultants, Inc. 110 Walt Whitman Road Suite 204 Huntington Station, NY 11746
PHONE:	631-760-9300 x 12	**P.O. #**	NR
FAX:		**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitor
DATE RECEIVED:	03/13/2008	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	03/26/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	UW-AMS 5	Modified TO-15	1.0 "Hg	5 psi
02A	DW-AMS 3	Modified TO-15	0.2 psi	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 03/26/08

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# 0803303

Two 6 Liter Summa Canister samples were received on March 13, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW-AMS 5	0803303-01A	3/12/2008	3/13/2008	NA	9	3/21/2008	NA	Good
DW-AMS 3	0803303-02A	3/12/2008	3/13/2008	NA	9	3/21/2008	NA	Good
Lab Blank	0803303-03A	NA	NA	NA	NA	3/20/2008	NA	Good
CCV	0803303-04A	NA	NA	NA	NA	3/20/2008	NA	Good
LCS	0803303-05A	NA	NA	NA	NA	3/20/2008	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: UW-AMS 5

Lab ID#: 0803303-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.70	1.4	2.4	4.7
Toluene	0.70	7.7	2.6	29
Acetone	2.8	3.2	6.6	7.6
Ethanol	2.8	4.1	5.2	7.7

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0803303-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032033**	**Date of Collection: 3/12/08**	
Dil. Factor:	**1.39**	**Date of Analysis: 3/21/08 09:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	Not Detected	3.4	Not Detected
Freon 114	0.70	Not Detected	4.8	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.70	Not Detected	3.9	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Freon 113	0.70	Not Detected	5.3	Not Detected
Methylene Chloride	0.70	1.4	2.4	4.7
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Trichloroethene	0.70	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
Toluene	0.70	7.7	2.6	29
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	Not Detected	4.7	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.3	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.0	Not Detected
m,p-Xylene	0.70	Not Detected	3.0	Not Detected
o-Xylene	0.70	Not Detected	3.0	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,3-Butadiene	0.70	Not Detected	1.5	Not Detected
Hexane	0.70	Not Detected	2.4	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0803303-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032033**	**Date of Collection: 3/12/08**	
Dil. Factor:	**1.39**	**Date of Analysis: 3/21/08 09:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.70	Not Detected	2.8	Not Detected
Bromodichloromethane	0.70	Not Detected	4.6	Not Detected
Dibromochloromethane	0.70	Not Detected	5.9	Not Detected
Cumene	0.70	Not Detected	3.4	Not Detected
Propylbenzene	0.70	Not Detected	3.4	Not Detected
Chloromethane	2.8	Not Detected	5.7	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected
Acetone	2.8	3.2	6.6	7.6
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
2-Propanol	2.8	Not Detected	6.8	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.8	Not Detected
2-Hexanone	2.8	Not Detected	11	Not Detected
Bromoform	0.70	Not Detected	7.2	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.4	Not Detected
Ethanol	2.8	4.1	5.2	7.7
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
3-Chloropropene	2.8	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.2	Not Detected
Naphthalene	2.8	Not Detected	14	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20mar.b/8032033.d
Lab Smp Id: 0803303-01A
Inj Date : 21-MAR-2008 09:30
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #13661
Misc Info : 1.0"Hg-5psi GEI
Comment :
Method : /chem/msd8.i/8-20mar.b/t14q307a.m
Meth Date : 20-Mar-2008 11:39 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1
Dil Factor: 1.39000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane						CAS #: 74-97-5		
7.215	7.242 (1.000)	130	261974	25.0000			80.00- 120.00	100.00
7.215	7.214 (1.000)	128	211222				49.70- 109.70	80.63
7.215	7.214 (1.000)	49	556570				171.27- 231.27	212.45
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1198989	25.0000			80.00- 120.00	100.00
9.095	9.095 (1.000)	88	192518				0.00- 46.36	16.06
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	752066	25.0000			80.00- 120.00	100.00
14.431	14.431 (1.000)	82	456920				0.00- 30.00	60.76
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	452887	24.5300	24.530		80.00- 120.00	100.00
8.293	8.293 (1.149)	67	234213				0.00- 30.00	51.72
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1091249	24.0704	24.070		80.00- 120.00	100.00
11.915	11.915 (1.310)	70	111276				0.00- 30.00	10.20

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	717113			0.00- 30.00	65.71
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	425631	22.5345	22.534	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	608134			95.62- 155.62	142.88
16.090	16.090 (1.115)	176	437206			64.83- 124.83	102.72
23 Ethanol					CAS #: 64-17-5		
3.427	3.426 (0.475)	45	23056	2.92865	4.071	80.00- 120.00	100.00
3.399	3.426 (0.471)	43	5504			0.00- 30.00	23.87
3.427	3.426 (0.475)	46	8291			0.00- 30.00	35.96
30 Acetone					CAS #: 67-64-1		
4.007	3.979 (0.555)	58	21929	2.28936	3.182	80.00- 120.00	100.00
3.980	3.979 (0.552)	43	86488			0.00- 30.00	394.39
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	24684	0.97870	1.360	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	13698			26.18- 86.18	55.49
4.671	4.671 (0.647)	51	9200			0.00- 30.00	37.27
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	298752	5.55811	7.726	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	175986			29.21- 89.21	58.91

Report Date: 26-Mar-2008 10:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032033.d
Lab Smp Id: 0803303-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 1.0"Hg-5psi GEI

Calibration Date: 20-MAR-2008
Calibration Time: 11:17
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	352131	211279	492983	261974	-25.60
88 1,4-Difluorobenze	1656150	993690	2318610	1198989	-27.60
125 Chlorobenzene-d5	997112	598267	1395957	752066	-24.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.21	-0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 26-Mar-2008 10:36

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803303-01A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 1.0"Hg-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	24.530	98.12	70-130
$ 104 Toluene-d8	25.000	24.070	96.28	70-130
$ 140 Bromofluorobenzene	25.000	22.534	90.14	70-130

Data File: /chem/msd8.i/8-20mar.b/8032033.d

Date : 21-MAR-2008 09:30

Client ID:

Sample Info: 200mL #13661

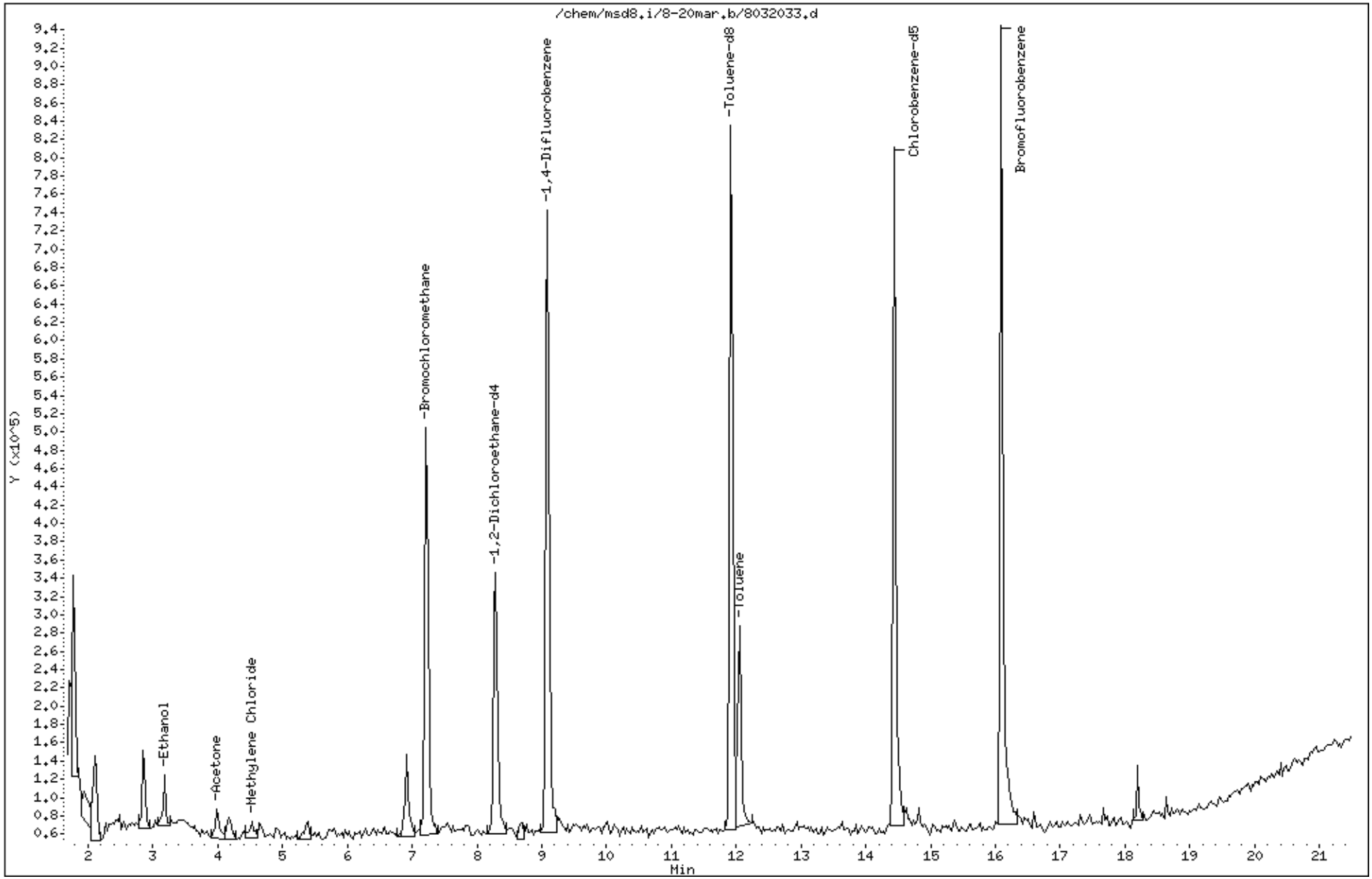
Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53

0013



Data File: /chem/msd8.i/8-20mar.b/8032033.d

Date : 21-MAR-2008 09:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #13661

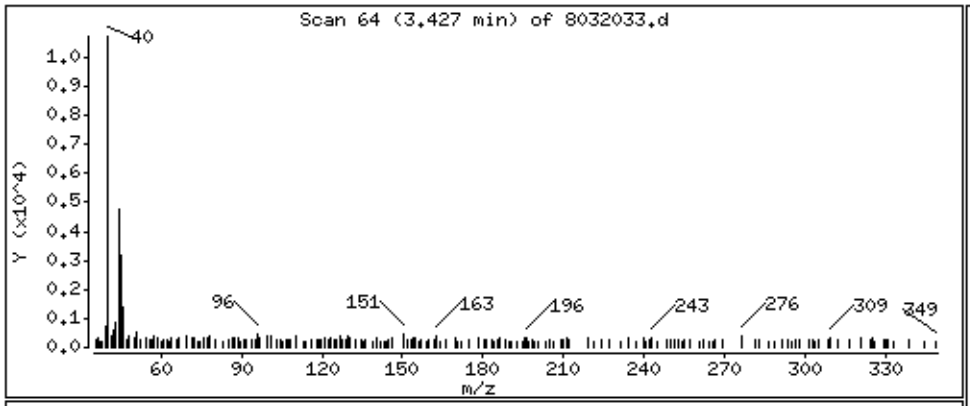
Operator: cb

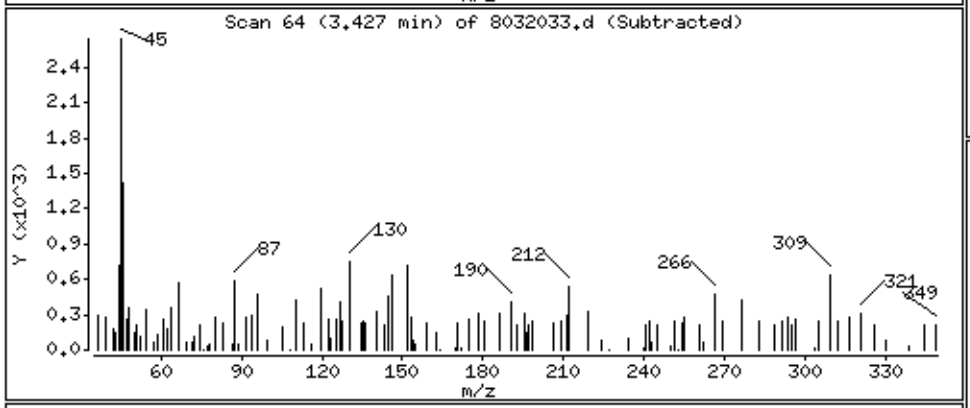
Column phase: RTx-624

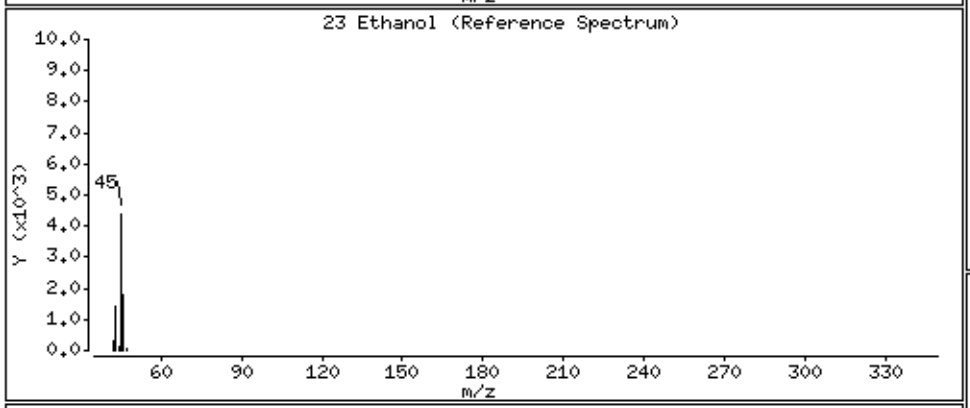
Column diameter: 0.53

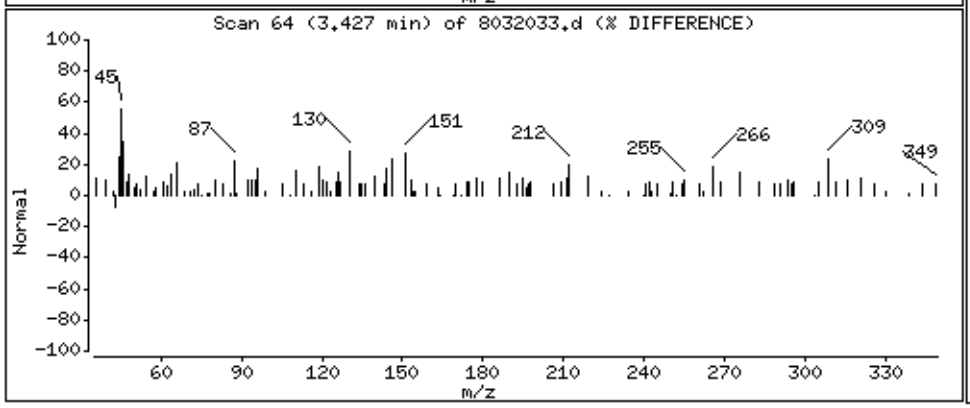
23 Ethanol

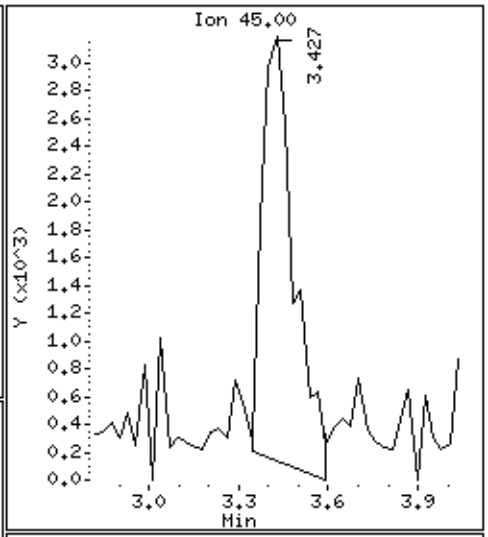
Concentration: 4.071 PPBV

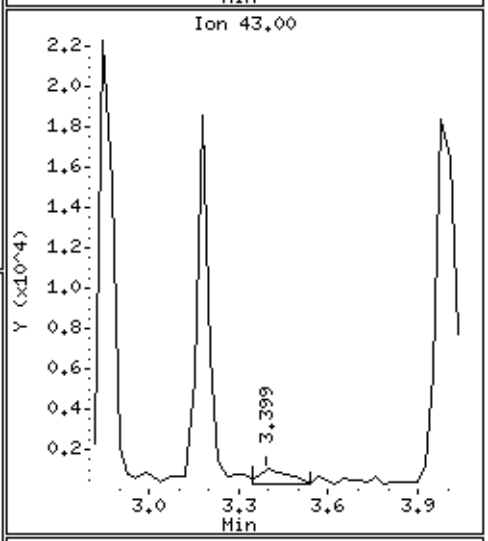


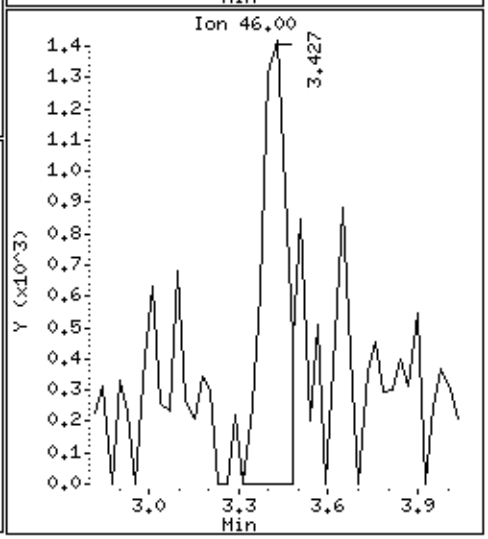












Data File: /chem/msd8.i/8-20mar.b/8032033.d

Date : 21-MAR-2008 09:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #13661

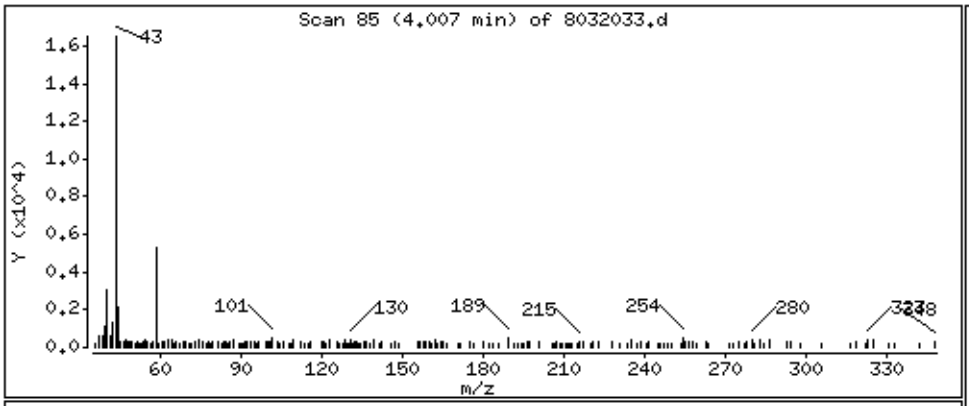
Operator: cb

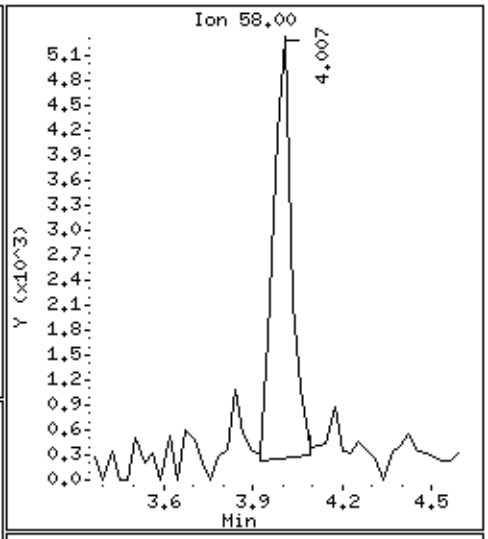
Column phase: RTx-624

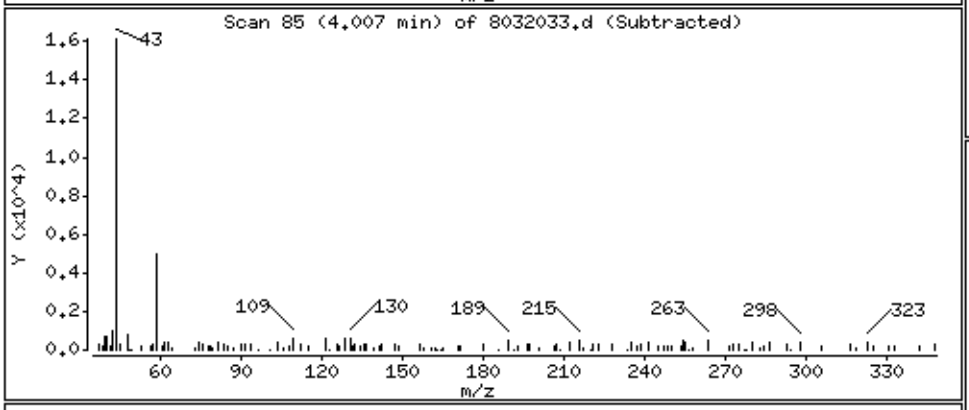
Column diameter: 0.53

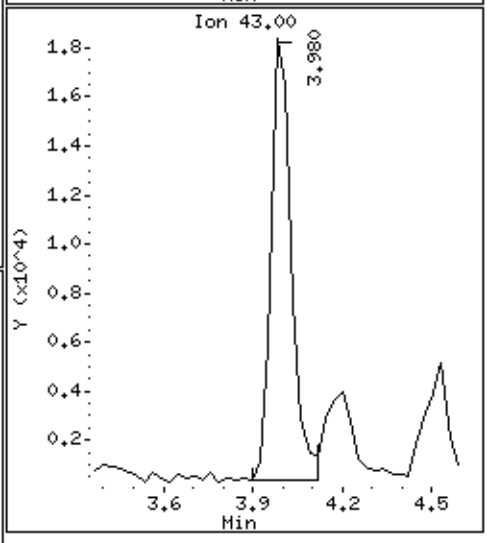
30 Acetone

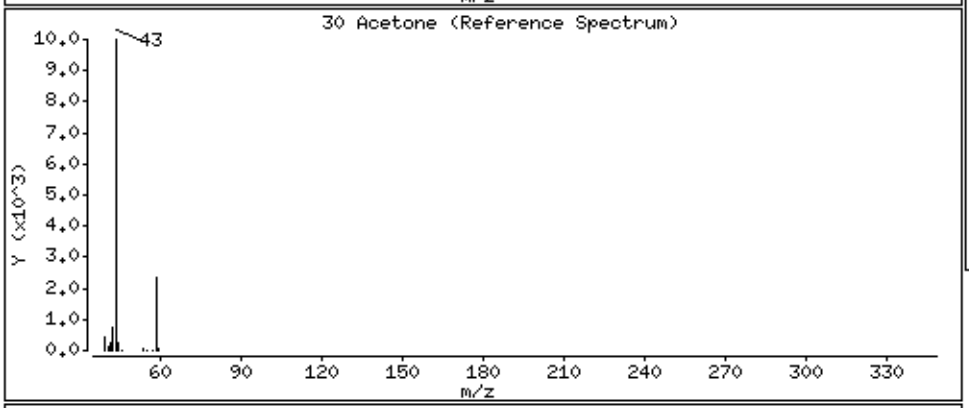
Concentration: 3.182 PPBV

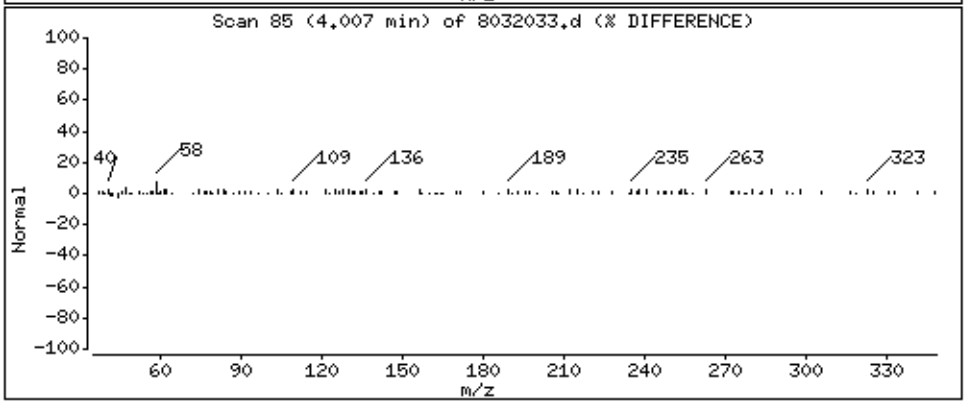












Data File: /chem/msd8.i/8-20mar.b/8032033.d

Date : 21-MAR-2008 09:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #13661

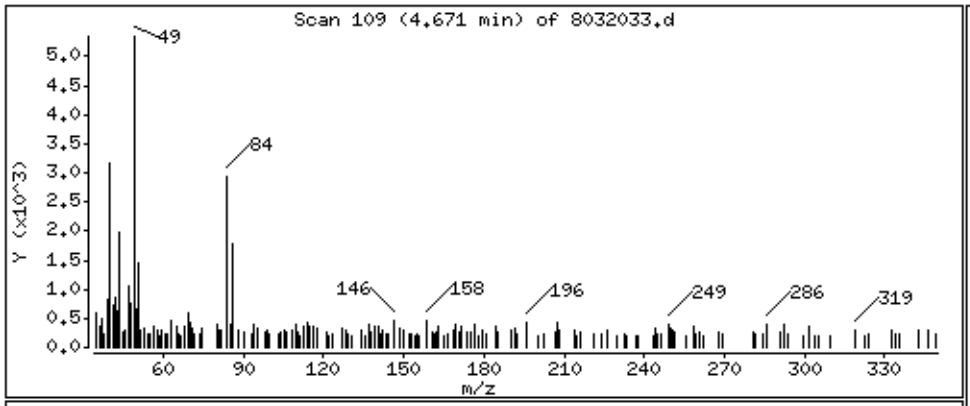
Operator: cb

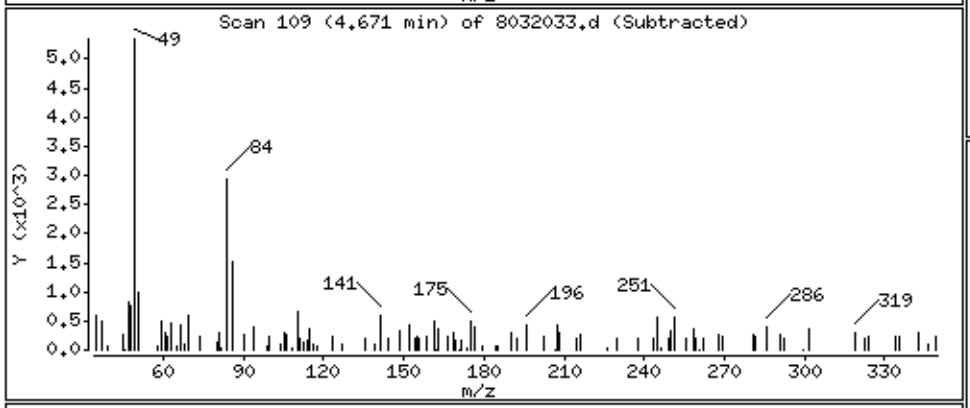
Column phase: RTx-624

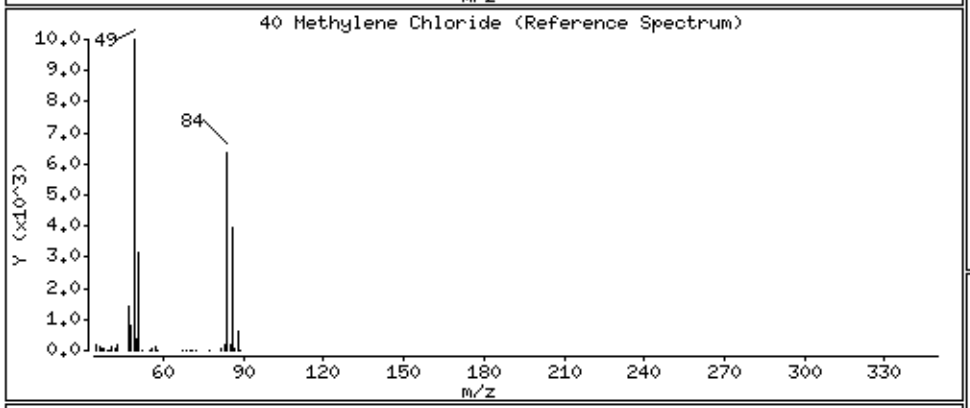
Column diameter: 0.53

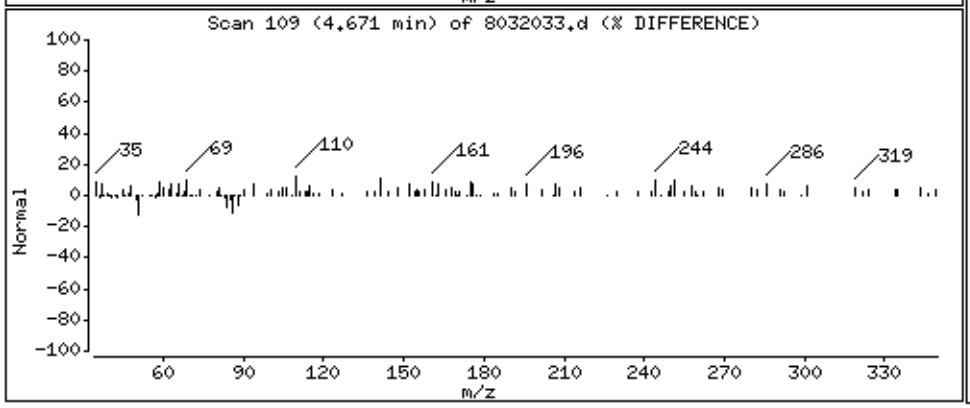
40 Methylene Chloride

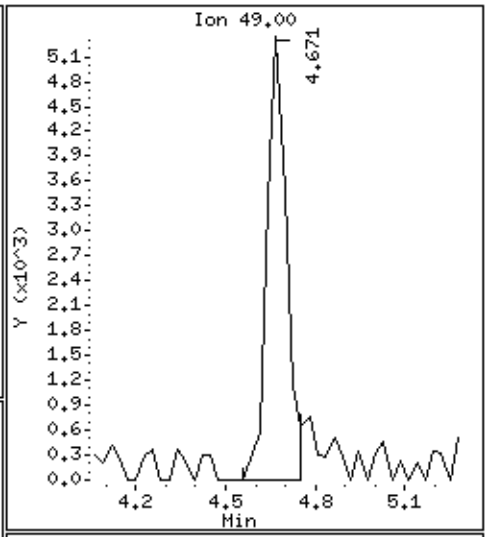
Concentration: 1.360 PPBV

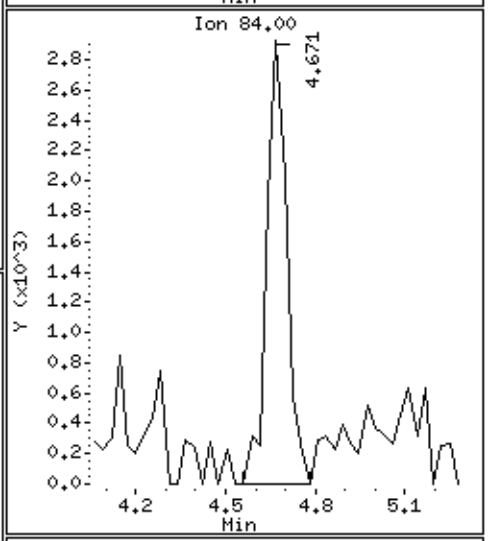


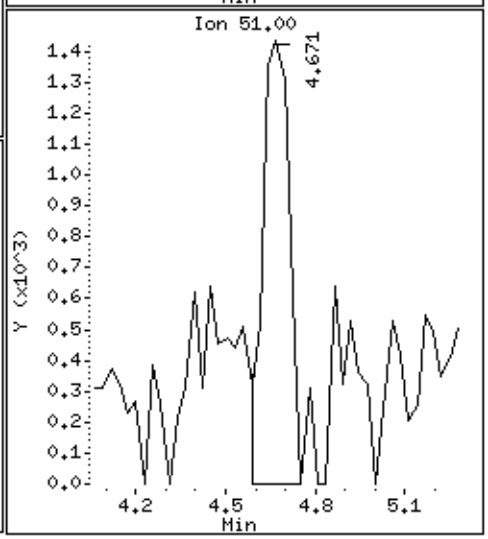












Data File: /chem/msd8.i/8-20mar.b/8032033.d

Date : 21-MAR-2008 09:30

Client ID:

Instrument: msd8.i

Sample Info: 200mL #13661

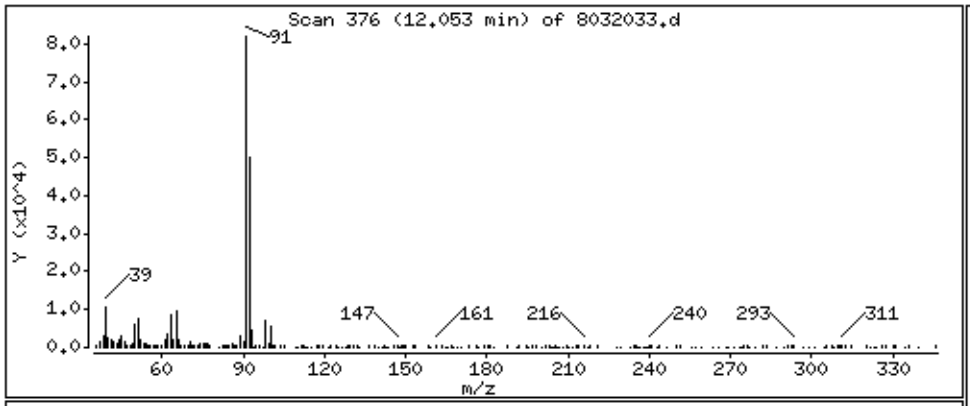
Operator: cb

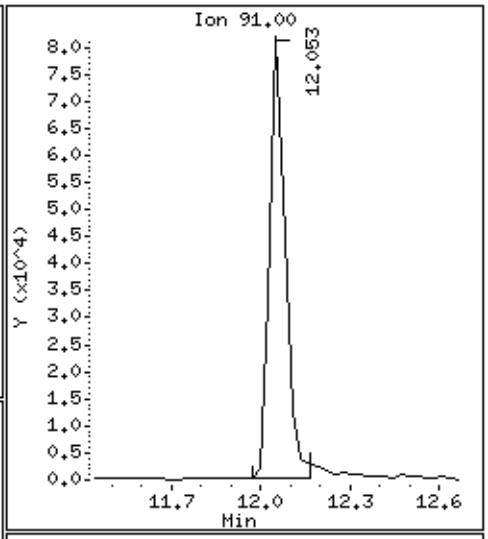
Column phase: RTx-624

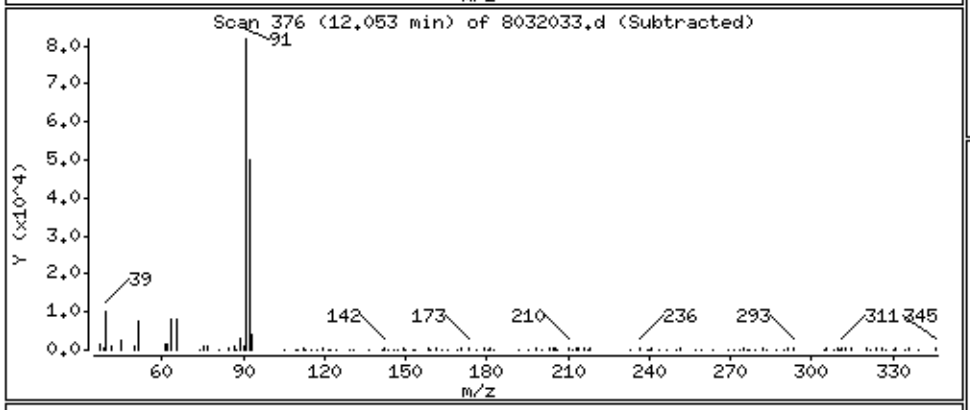
Column diameter: 0.53

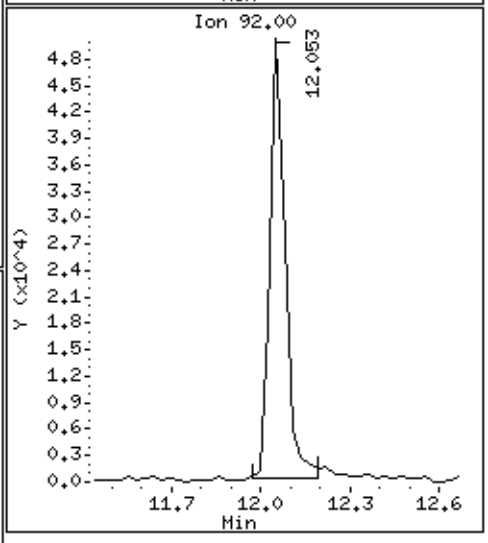
105 Toluene

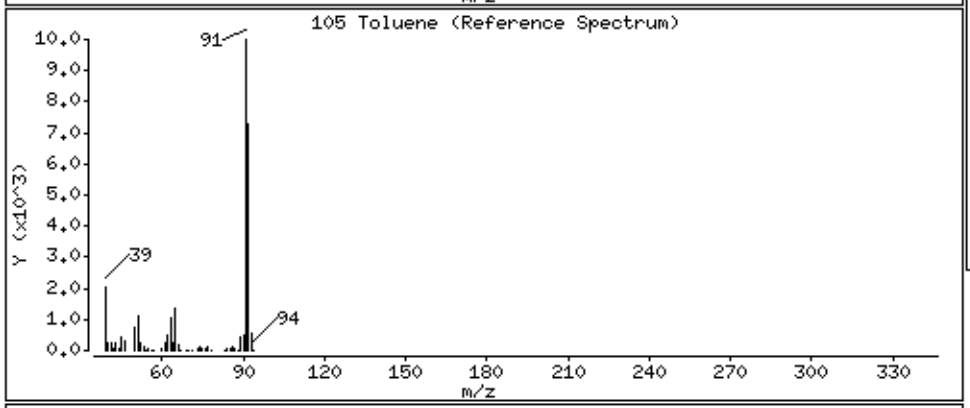
Concentration: 7.726 PPBV

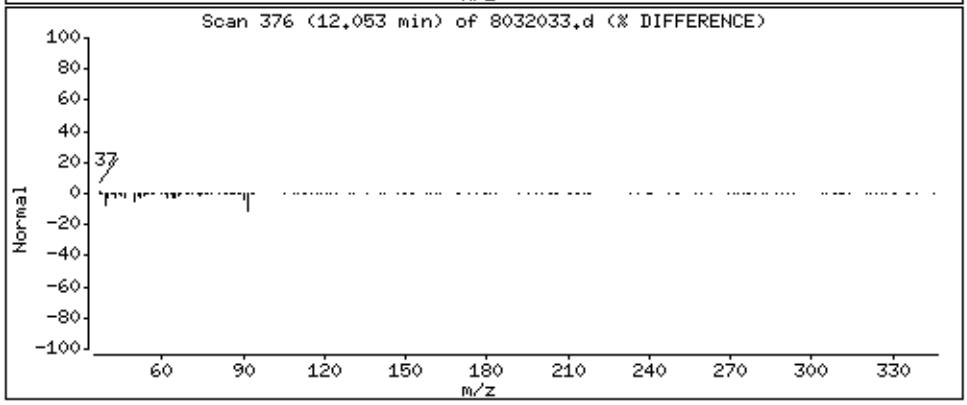












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS 3

Lab ID#: 0803303-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methylene Chloride	0.66	0.93	2.3	3.2
Toluene	0.66	13	2.5	50
m,p-Xylene	0.66	0.97	2.9	4.2
Hexane	0.66	0.78	2.3	2.8
Acetone	2.6	5.6	6.3	13
2-Propanol	2.6	5.8	6.5	14
Ethanol	2.6	6.5	5.0	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 3

Lab ID#: 0803303-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032034**	**Date of Collection: 3/12/08**	
Dil. Factor:	**1.32**	**Date of Analysis: 3/21/08 10:13 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.66	Not Detected	4.6	Not Detected
Vinyl Chloride	0.66	Not Detected	1.7	Not Detected
Bromomethane	0.66	Not Detected	2.6	Not Detected
Chloroethane	0.66	Not Detected	1.7	Not Detected
Freon 11	0.66	Not Detected	3.7	Not Detected
1,1-Dichloroethene	0.66	Not Detected	2.6	Not Detected
Freon 113	0.66	Not Detected	5.0	Not Detected
Methylene Chloride	0.66	0.93	2.3	3.2
1,1-Dichloroethane	0.66	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.66	Not Detected	2.6	Not Detected
Chloroform	0.66	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.66	Not Detected	3.6	Not Detected
Carbon Tetrachloride	0.66	Not Detected	4.2	Not Detected
Benzene	0.66	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.66	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.66	Not Detected	3.0	Not Detected
cis-1,3-Dichloropropene	0.66	Not Detected	3.0	Not Detected
Toluene	0.66	13	2.5	50
trans-1,3-Dichloropropene	0.66	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.66	Not Detected	3.6	Not Detected
Tetrachloroethene	0.66	Not Detected	4.5	Not Detected
1,2-Dibromoethane (EDB)	0.66	Not Detected	5.1	Not Detected
Chlorobenzene	0.66	Not Detected	3.0	Not Detected
Ethyl Benzene	0.66	Not Detected	2.9	Not Detected
m,p-Xylene	0.66	0.97	2.9	4.2
o-Xylene	0.66	Not Detected	2.9	Not Detected
Styrene	0.66	Not Detected	2.8	Not Detected
1,1,2,2-Tetrachloroethane	0.66	Not Detected	4.5	Not Detected
1,3,5-Trimethylbenzene	0.66	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.66	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
1,4-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
alpha-Chlorotoluene	0.66	Not Detected	3.4	Not Detected
1,2-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
1,3-Butadiene	0.66	Not Detected	1.5	Not Detected
Hexane	0.66	0.78	2.3	2.8
Cyclohexane	0.66	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 3

Lab ID#: 0803303-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032034**	**Date of Collection: 3/12/08**	
Dil. Factor:	**1.32**	**Date of Analysis: 3/21/08 10:13 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.66	Not Detected	2.7	Not Detected
Bromodichloromethane	0.66	Not Detected	4.4	Not Detected
Dibromochloromethane	0.66	Not Detected	5.6	Not Detected
Cumene	0.66	Not Detected	3.2	Not Detected
Propylbenzene	0.66	Not Detected	3.2	Not Detected
Chloromethane	2.6	Not Detected	5.4	Not Detected
1,2,4-Trichlorobenzene	2.6	Not Detected	20	Not Detected
Hexachlorobutadiene	2.6	Not Detected	28	Not Detected
Acetone	2.6	5.6	6.3	13
Carbon Disulfide	0.66	Not Detected	2.0	Not Detected
2-Propanol	2.6	5.8	6.5	14
trans-1,2-Dichloroethene	0.66	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.66	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.66	Not Detected	1.9	Not Detected
1,4-Dioxane	2.6	Not Detected	9.5	Not Detected
4-Methyl-2-pentanone	0.66	Not Detected	2.7	Not Detected
2-Hexanone	2.6	Not Detected	11	Not Detected
Bromoform	0.66	Not Detected	6.8	Not Detected
4-Ethyltoluene	0.66	Not Detected	3.2	Not Detected
Ethanol	2.6	6.5	5.0	12
Methyl tert-butyl ether	0.66	Not Detected	2.4	Not Detected
3-Chloropropene	2.6	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Naphthalene	2.6	Not Detected	14	Not Detected

Container Type: 6 Liter Summa Canister

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20mar.b/8032034.d
Lab Smp Id: 0803303-02A
Inj Date : 21-MAR-2008 10:13
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #23923
Misc Info : 0.2psi-5psi GEI
Comment :
Method : /chem/msd8.i/8-20mar.b/t14q307a.m
Meth Date : 20-Mar-2008 11:39 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1
Dil Factor: 1.32000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.242 (1.000)	130	255855	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	191514			49.70- 109.70	74.85
7.214	7.214 (1.000)	49	542803			171.27- 231.27	212.15
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1171722	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	184534			0.00- 46.36	15.75
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	742905	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	465872			0.00- 30.00	62.71
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	431395	23.9247	23.925	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	214281			0.00- 30.00	49.67
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1092073	24.6491	24.649	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	111587			0.00- 30.00	10.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	697508			0.00- 30.00	63.87
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	455808	24.4298	24.430	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	598613			95.62- 155.62	131.33
16.090	16.090 (1.115)	176	443998			64.83- 124.83	97.41
23 Ethanol					CAS #: 64-17-5		
3.399	3.426 (0.471)	45	38102	4.95559	6.541	80.00- 120.00	100.00
3.454	3.426 (0.479)	43	7093			0.00- 30.00	18.62
3.399	3.426 (0.471)	46	13192			0.00- 30.00	34.62
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	39585	4.23146	5.586	80.00- 120.00	100.00
3.979	3.979 (0.552)	43	124210			0.00- 30.00	313.78
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	160742	4.38520	5.788	80.00- 120.00	100.00
4.173	4.173 (0.578)	43	44993			0.00- 30.00	27.99
4.173	4.173 (0.578)	59	6989			0.00- 30.00	4.35
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	17403	0.70652	0.9326	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	11267			26.18- 86.18	64.74
4.671	4.671 (0.647)	51	9633			0.00- 30.00	55.35
46 Hexane					CAS #: 110-54-3		
5.362	5.390 (0.743)	57	20988	0.59221	0.7817	80.00- 120.00	100.00
5.390	5.390 (0.747)	43	18358			0.00- 30.00	87.47
5.390	5.390 (0.747)	86	4529			0.00- 30.00	21.58
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	526979	10.0323	13.243	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	319764			29.21- 89.21	60.68
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	20447	0.73320	0.9678	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	35777			0.00- 30.00	174.97

Report Date: 26-Mar-2008 10:42

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032034.d
Lab Smp Id: 0803303-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 0.2psi-5psi GEI

Calibration Date: 20-MAR-2008
Calibration Time: 11:17

Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	352131	211279	492983	255855	-27.34
88 1,4-Difluorobenze	1656150	993690	2318610	1171722	-29.25
125 Chlorobenzene-d5	997112	598267	1395957	742905	-25.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.21	-0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 26-Mar-2008 10:42

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0803303-02A
Level: LOW Operator: cb
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 0.2psi-5psi GEI

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	23.925	95.70	70-130
$ 104 Toluene-d8	25.000	24.649	98.60	70-130
$ 140 Bromofluorobenzene	25.000	24.430	97.72	70-130

Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Sample Info: 200mL #23923

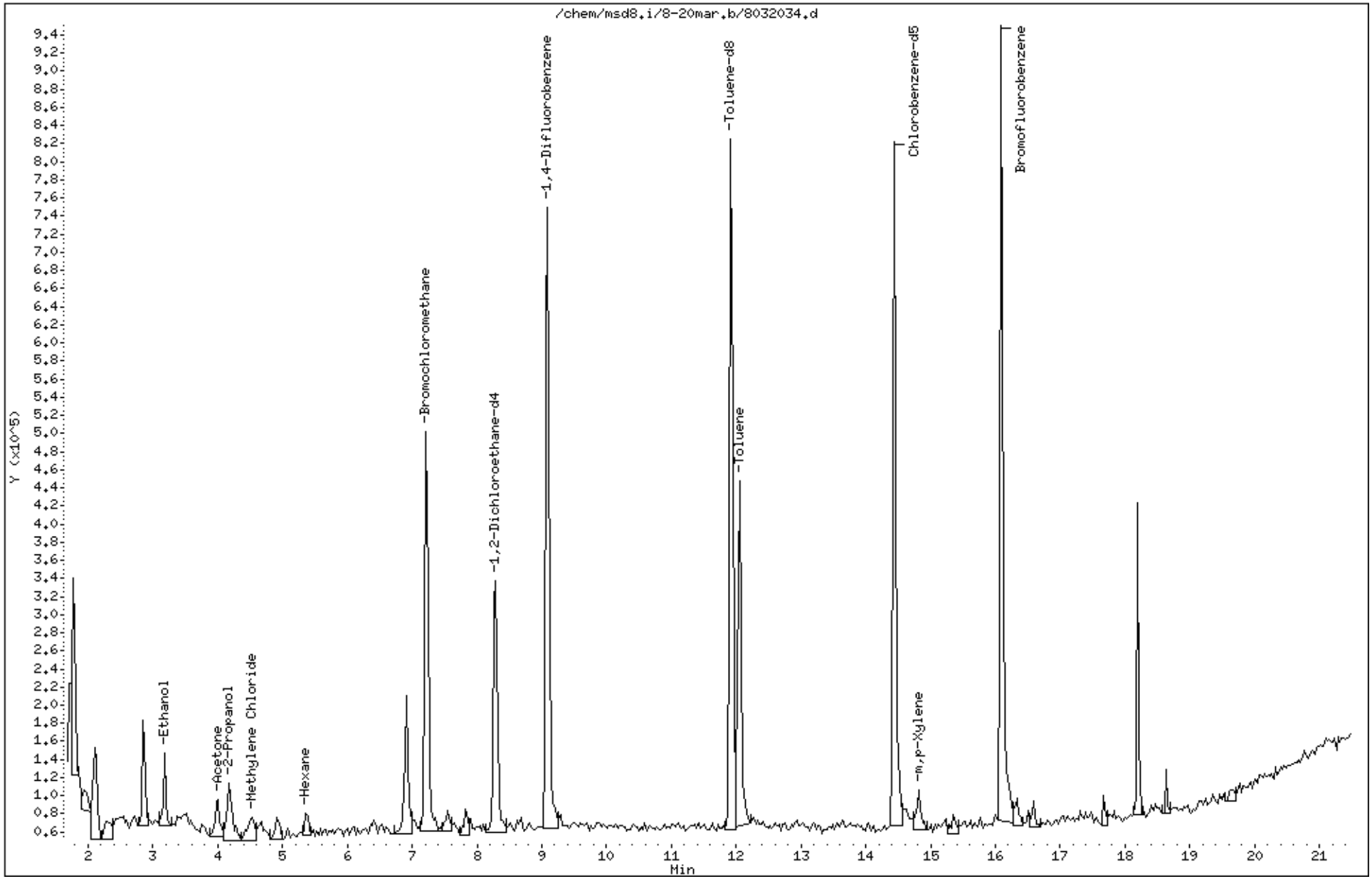
Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53

0025



Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

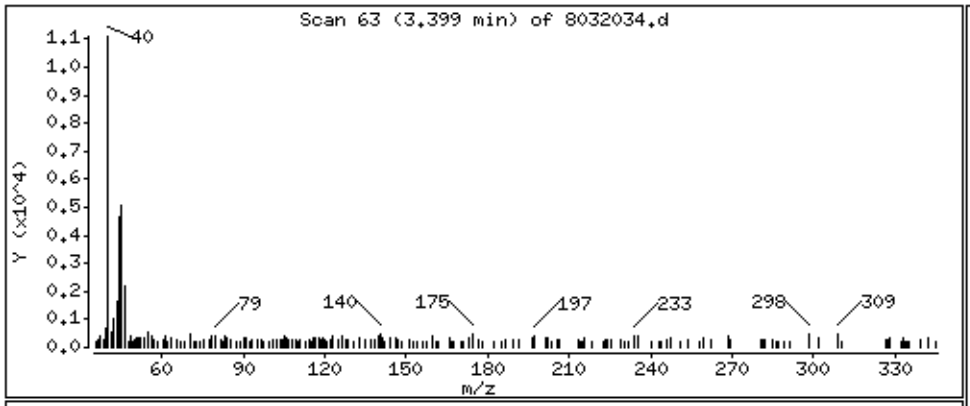
Operator: cb

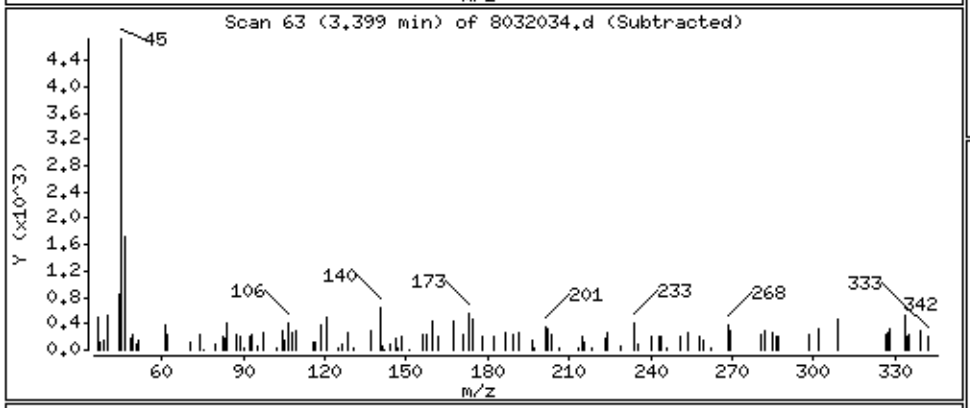
Column phase: RTx-624

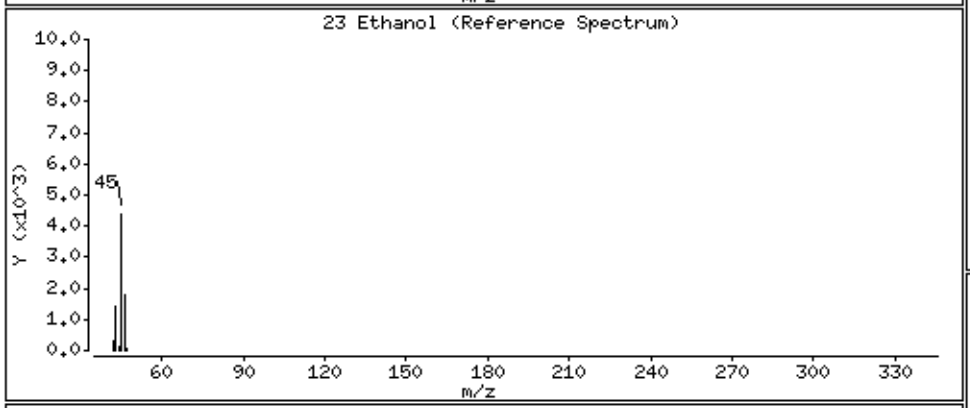
Column diameter: 0.53

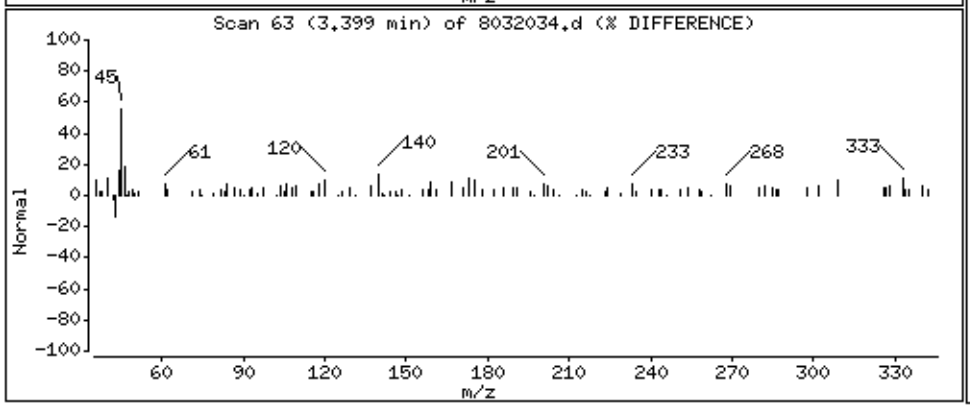
23 Ethanol

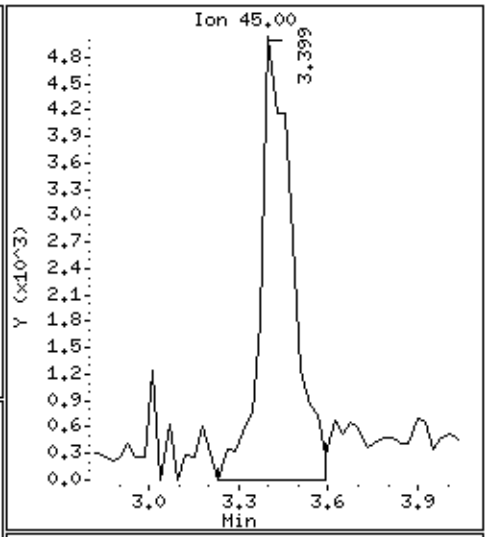
Concentration: 6.541 PPBV

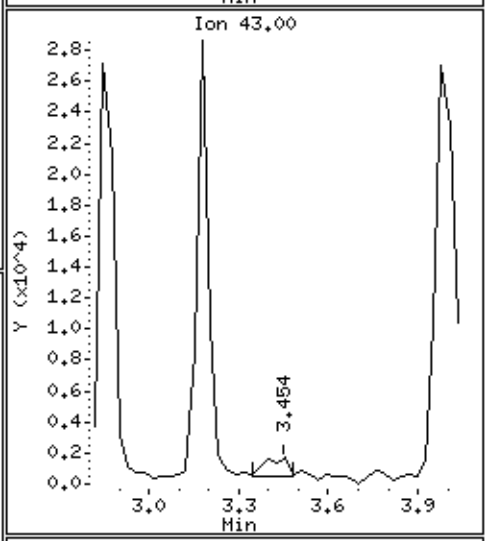


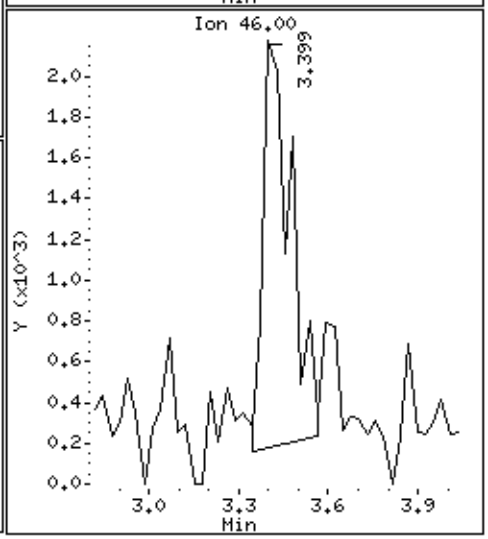












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

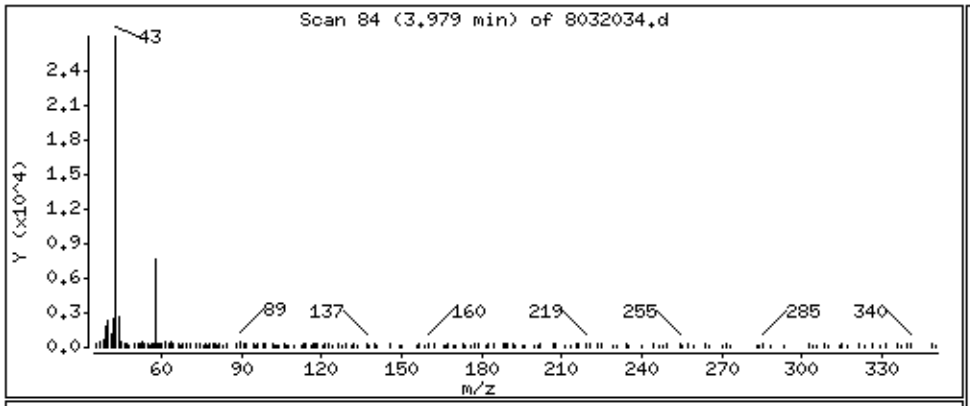
Operator: cb

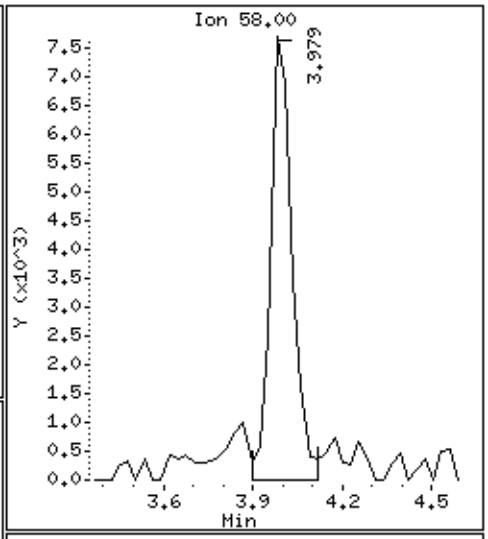
Column phase: RTx-624

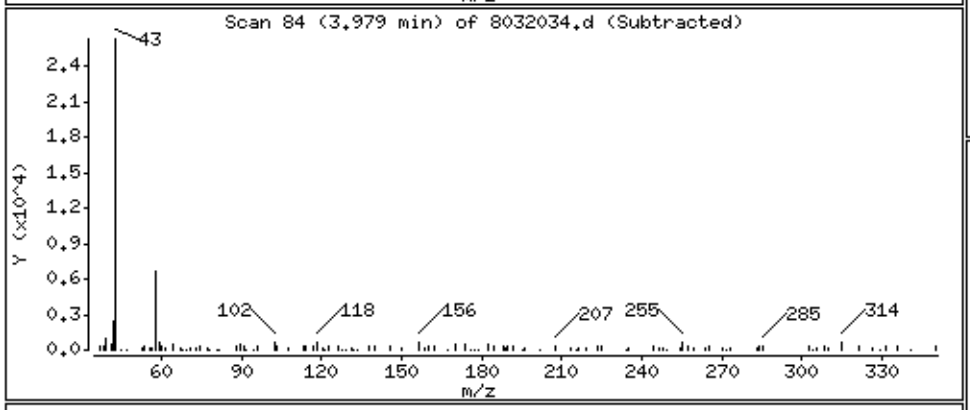
Column diameter: 0.53

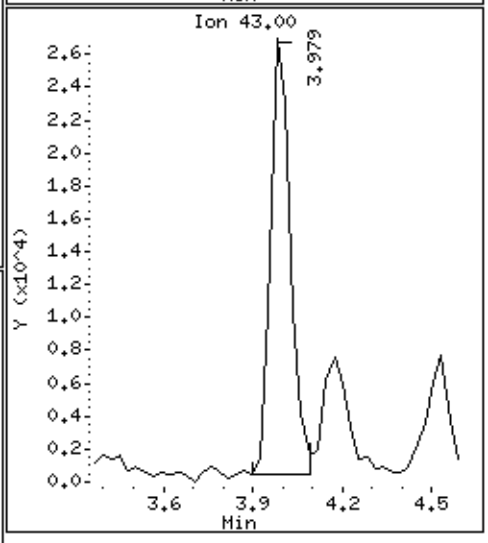
30 Acetone

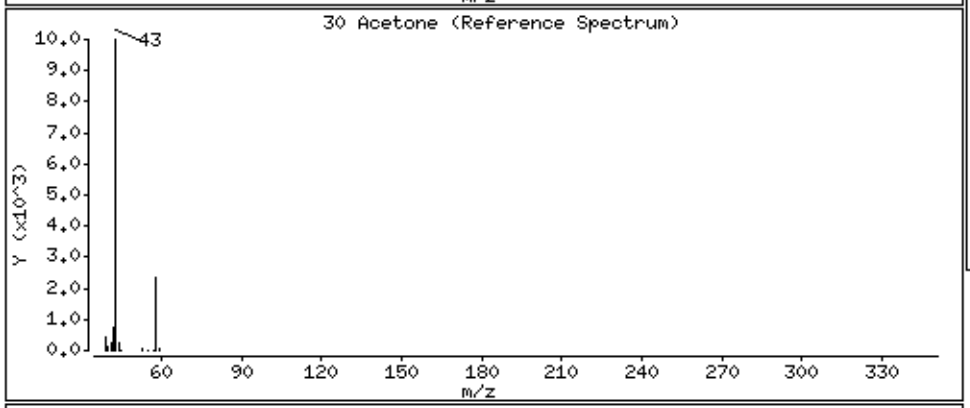
Concentration: 5.586 PPBV

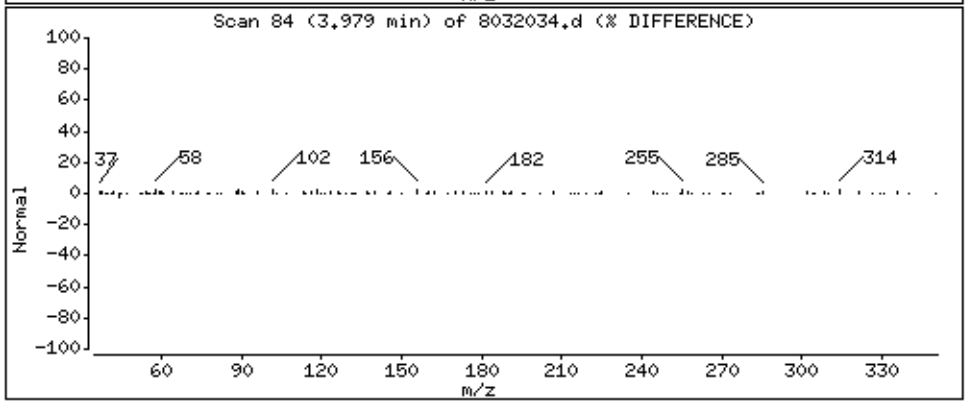












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

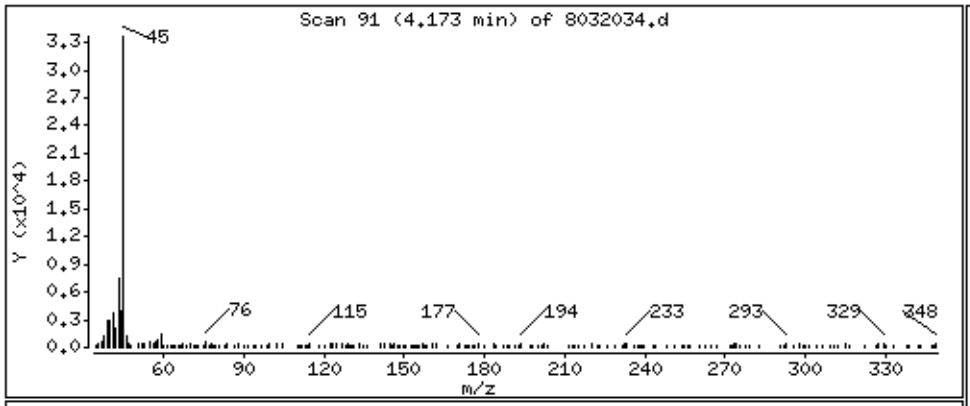
Operator: cb

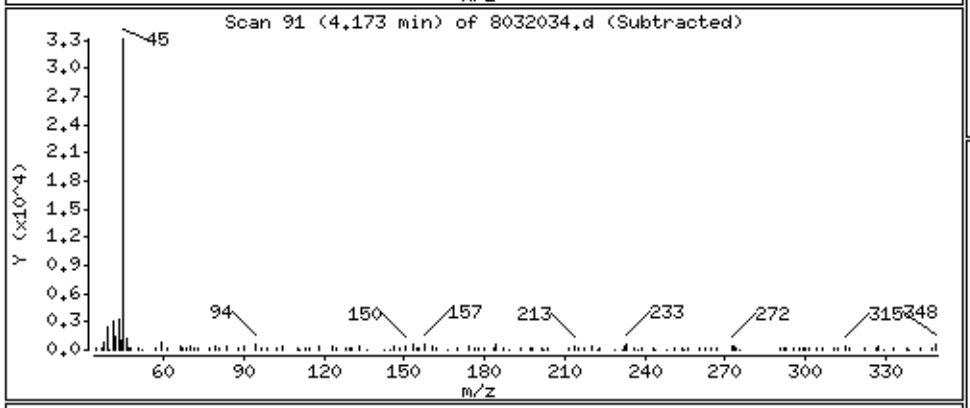
Column phase: RTx-624

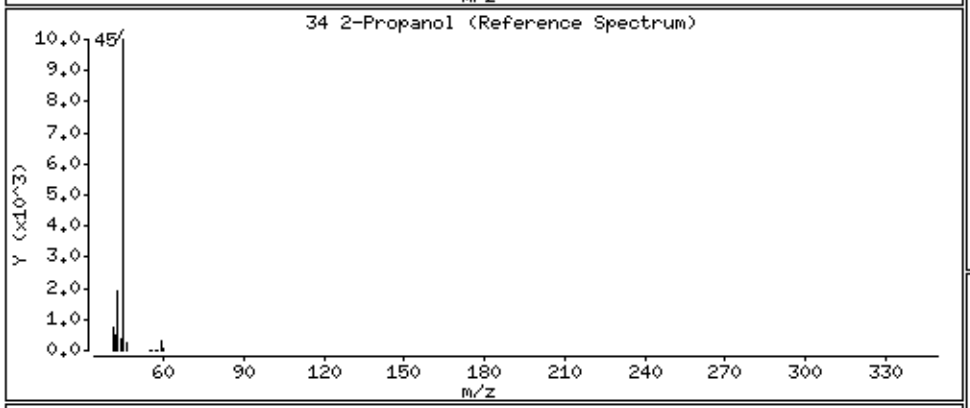
Column diameter: 0.53

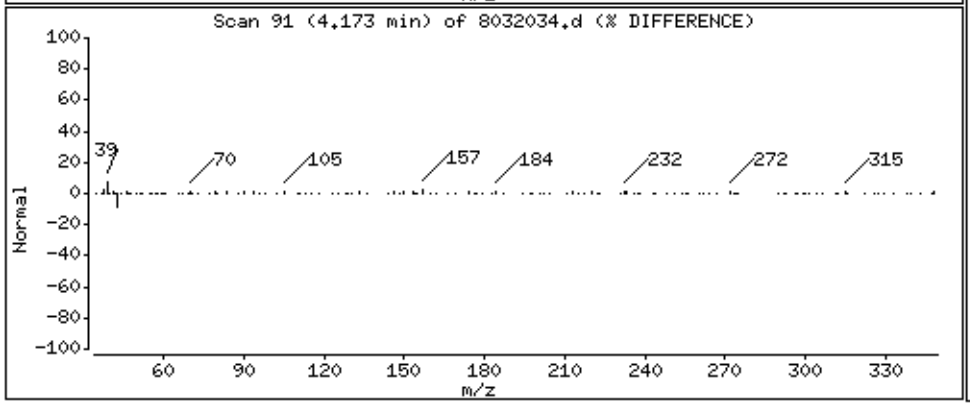
34 2-Propanol

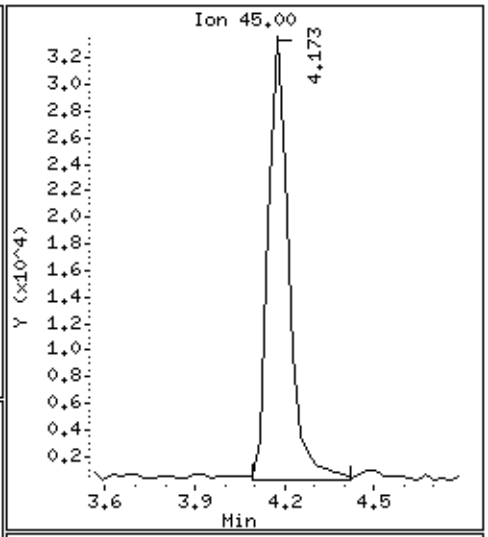
Concentration: 5.788 PPBV

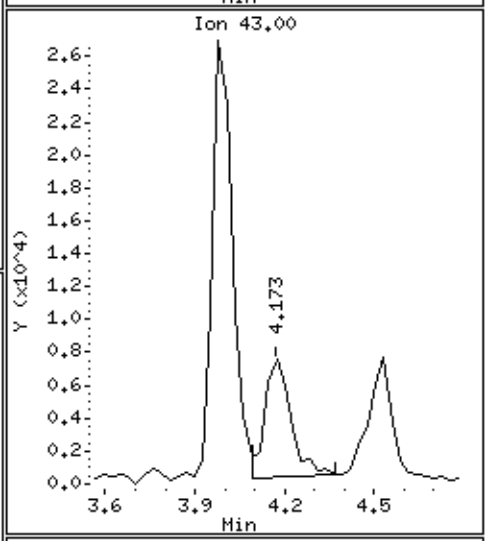


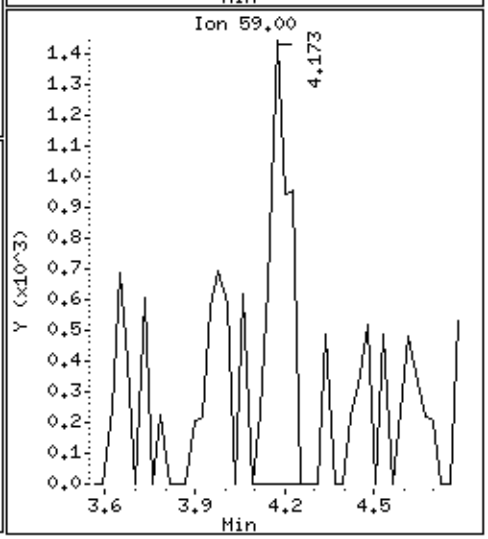












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

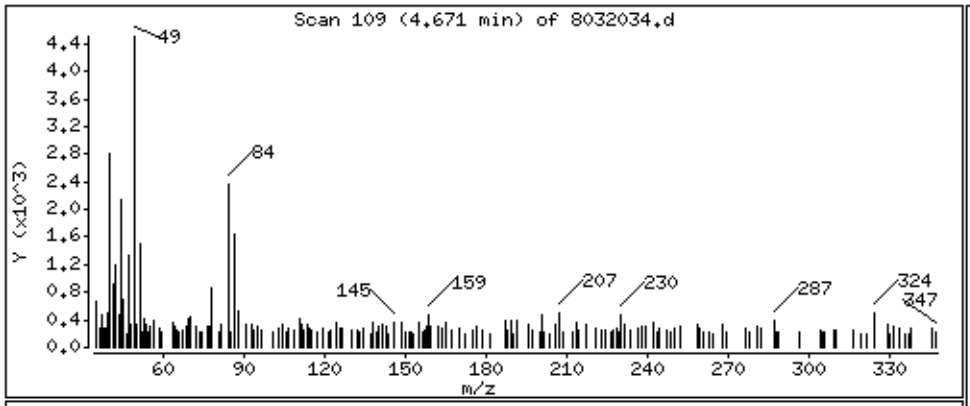
Operator: cb

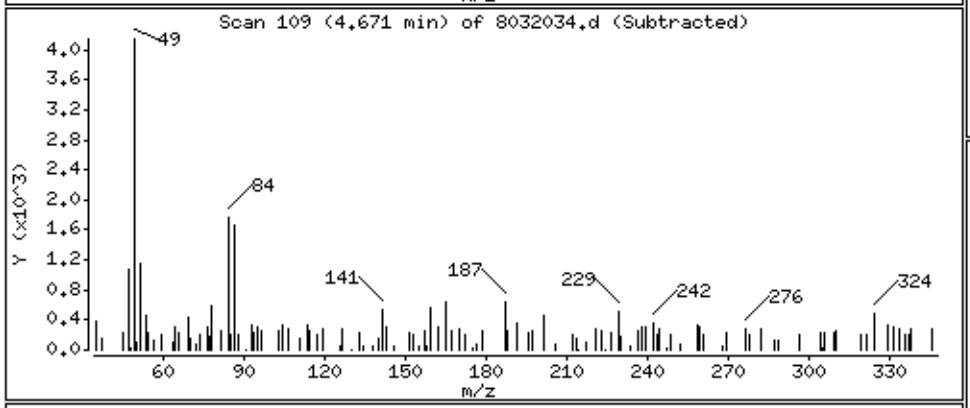
Column phase: RTx-624

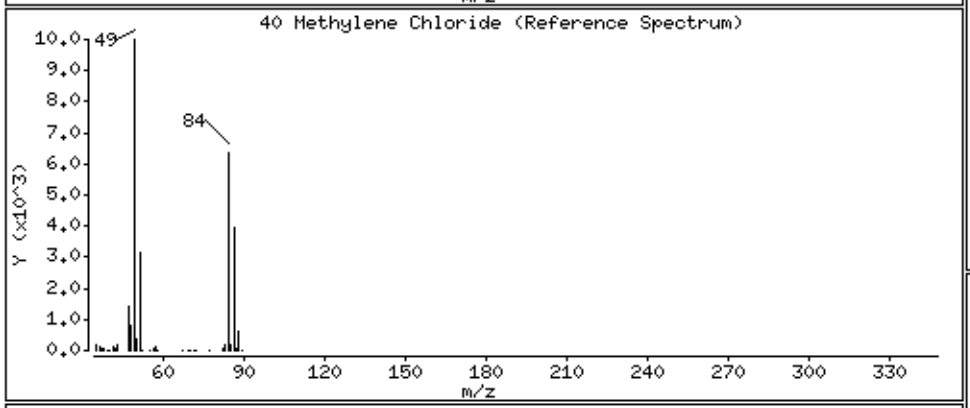
Column diameter: 0.53

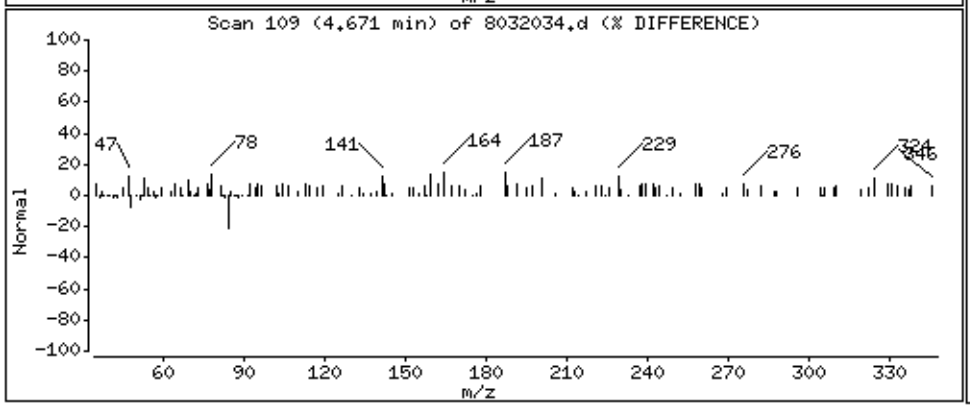
40 Methylene Chloride

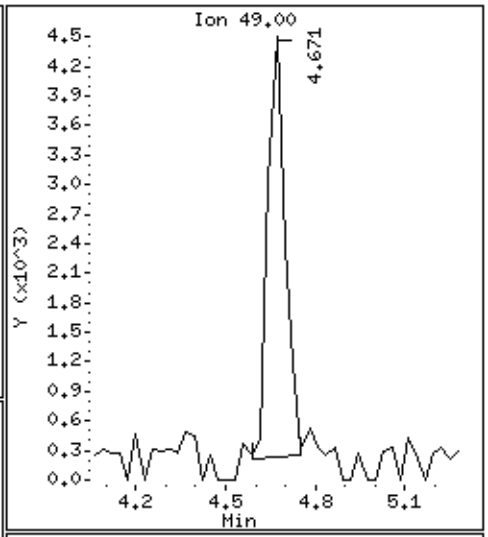
Concentration: 0.9326 PPBV

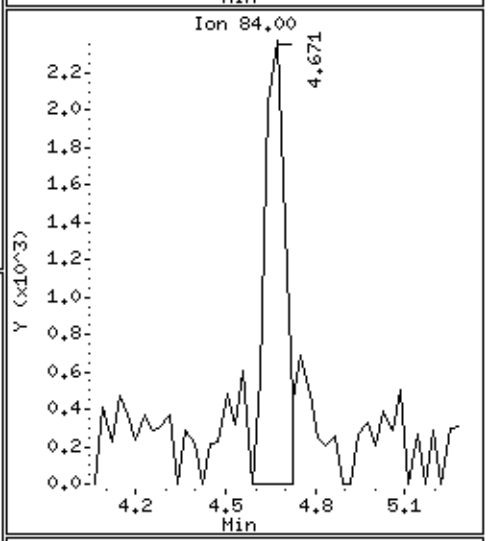


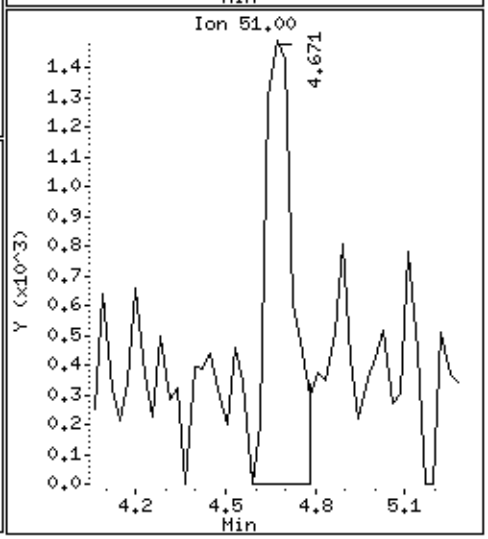












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

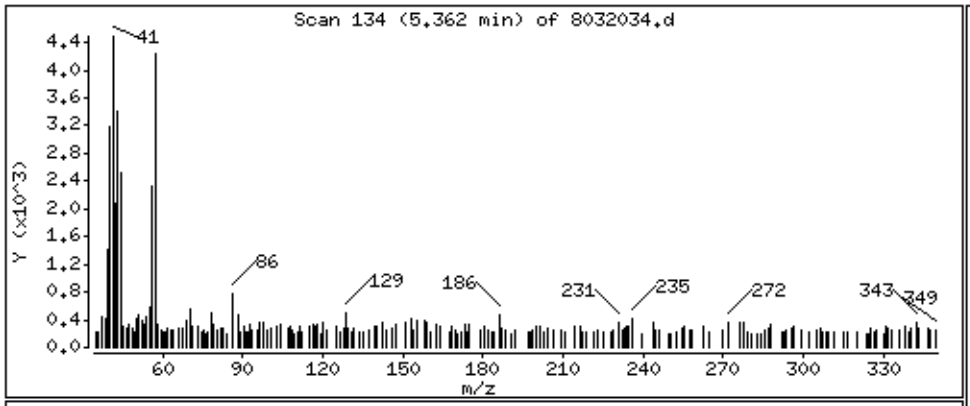
Operator: cb

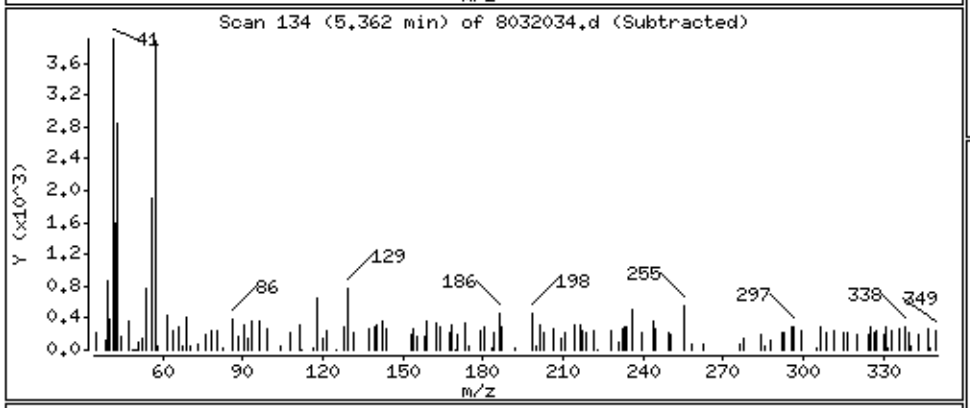
Column phase: RTx-624

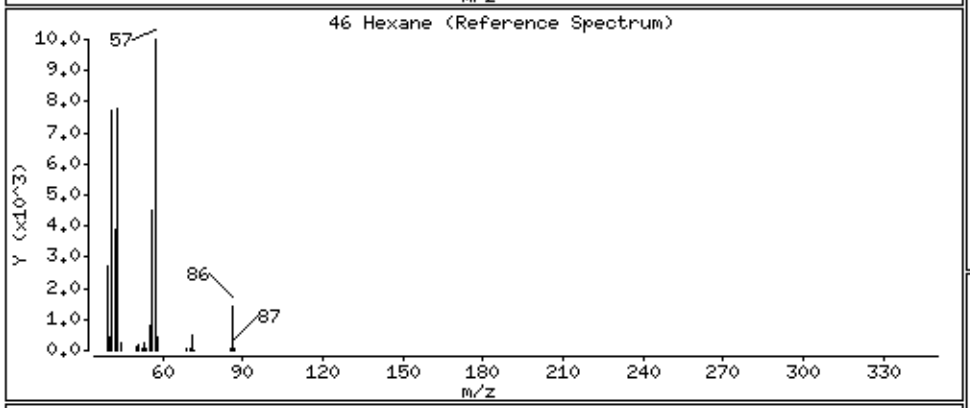
Column diameter: 0.53

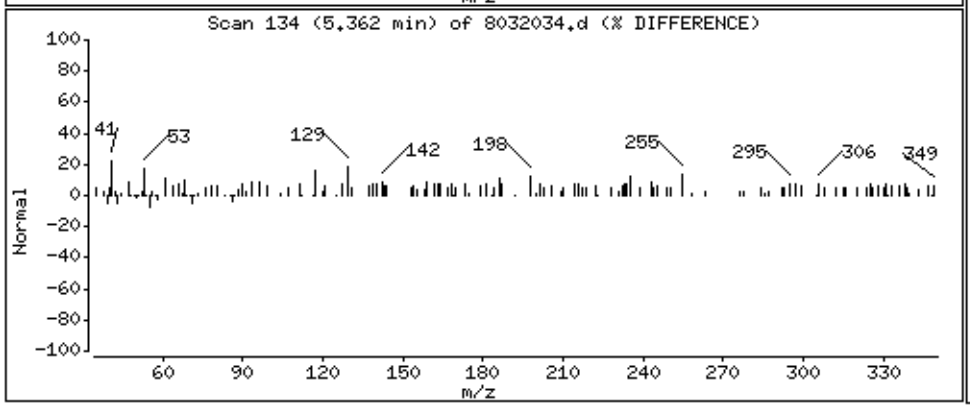
46 Hexane

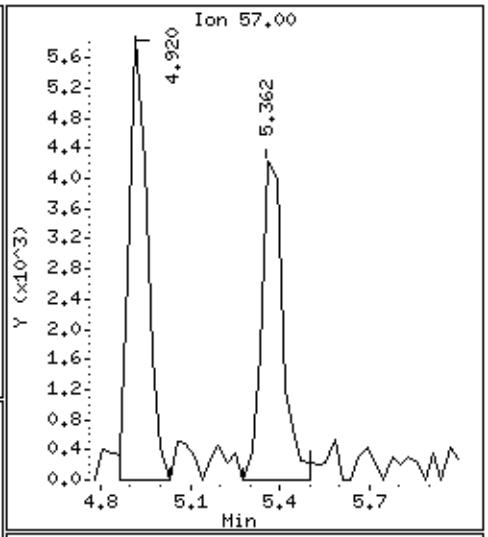
Concentration: 0.7817 PPBV

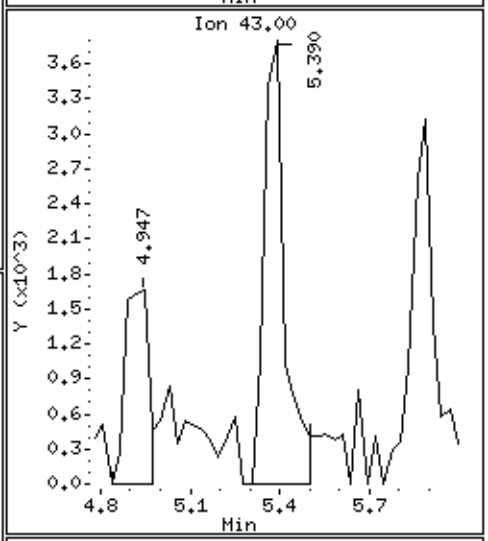


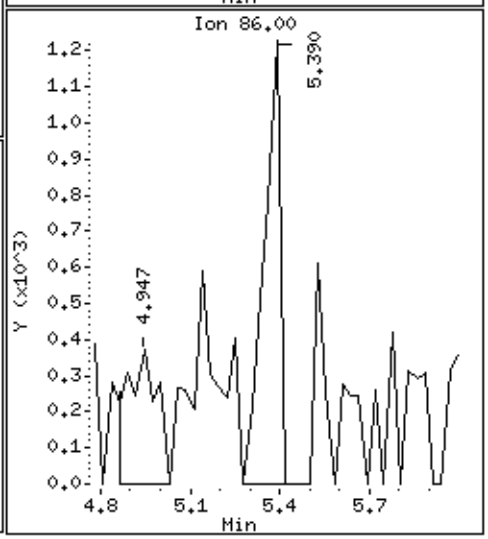












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

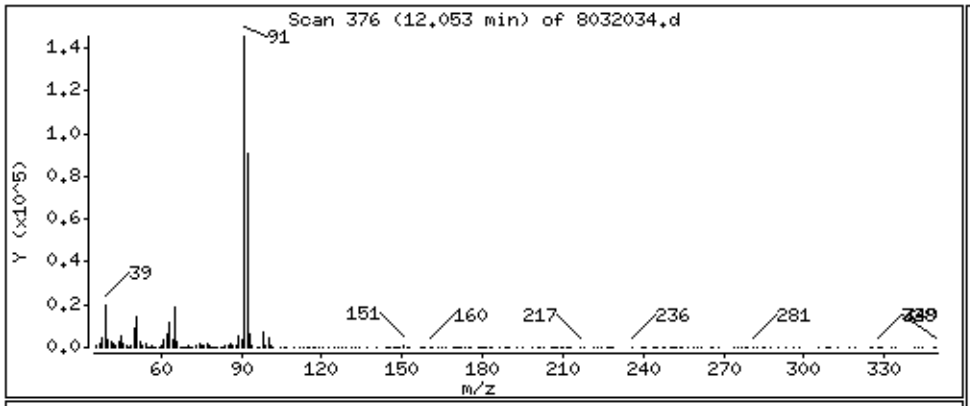
Operator: cb

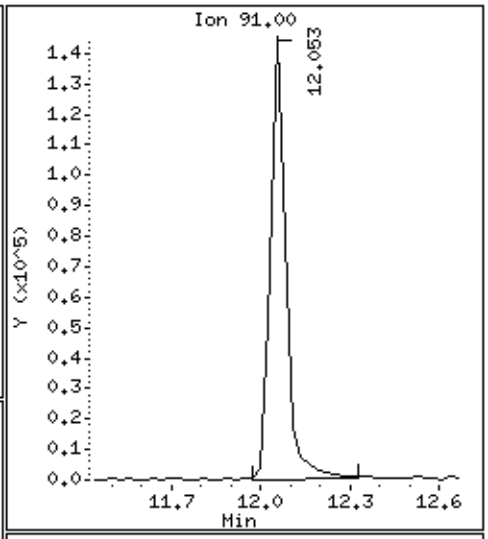
Column phase: RTx-624

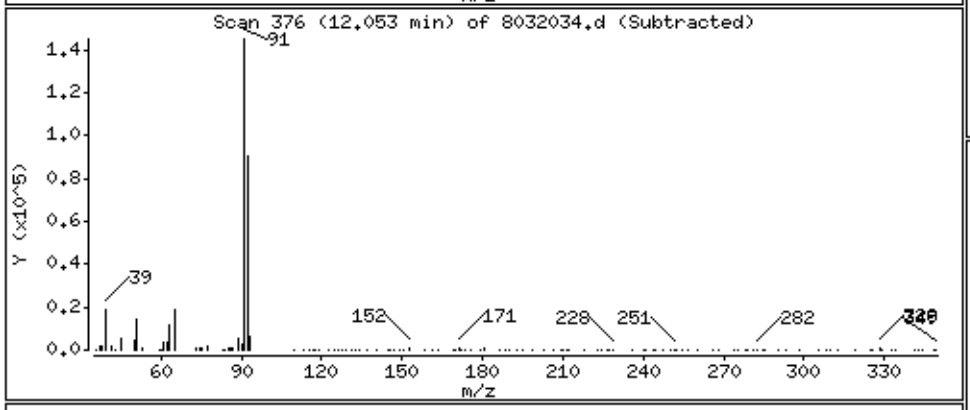
Column diameter: 0.53

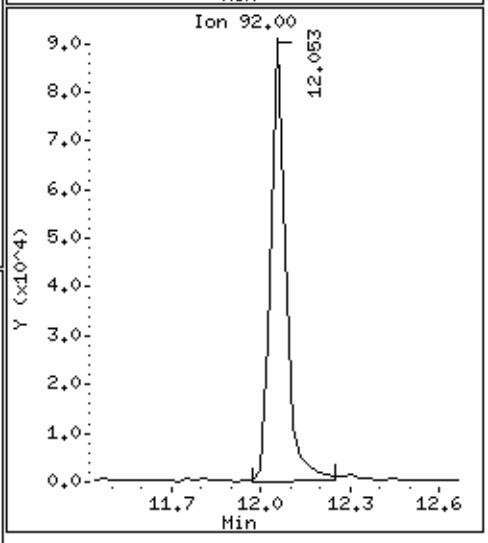
105 Toluene

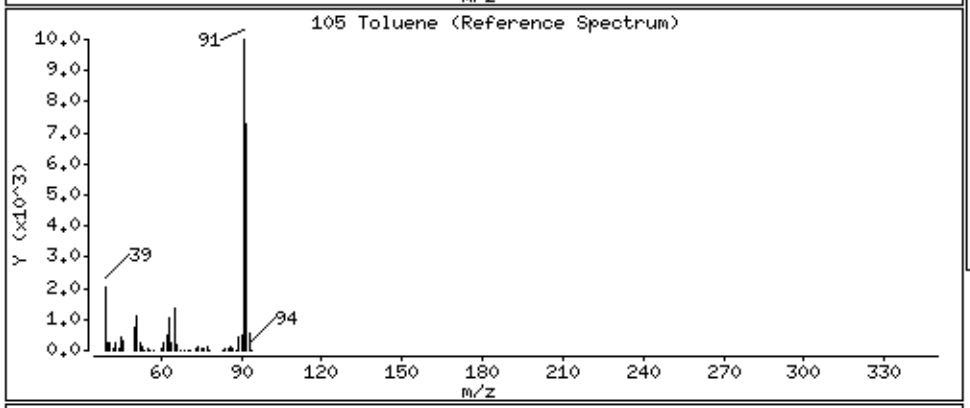
Concentration: 13.243 PPBV

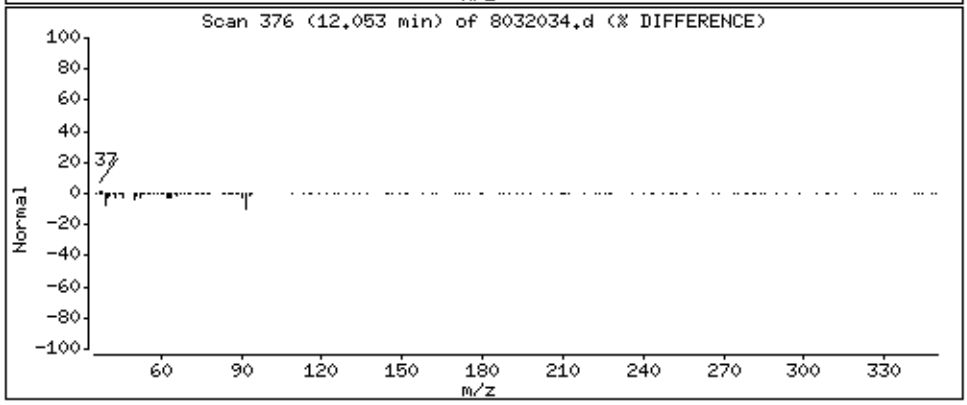












Data File: /chem/msd8.i/8-20mar.b/8032034.d

Date : 21-MAR-2008 10:13

Client ID:

Instrument: msd8.i

Sample Info: 200mL #23923

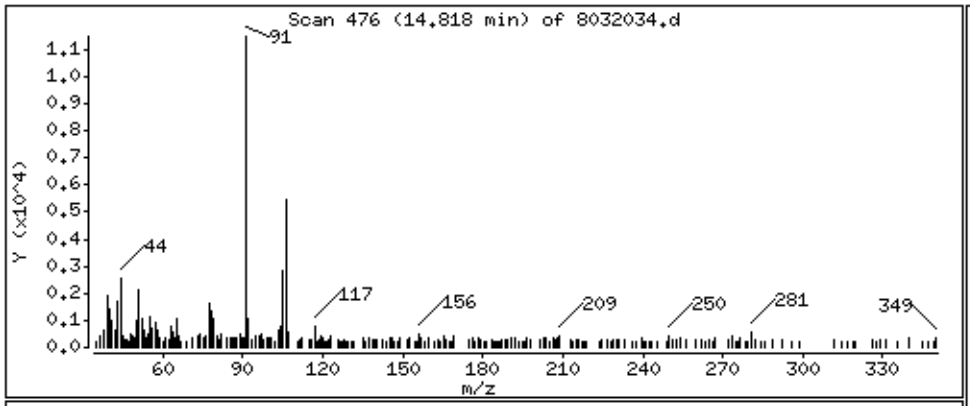
Operator: cb

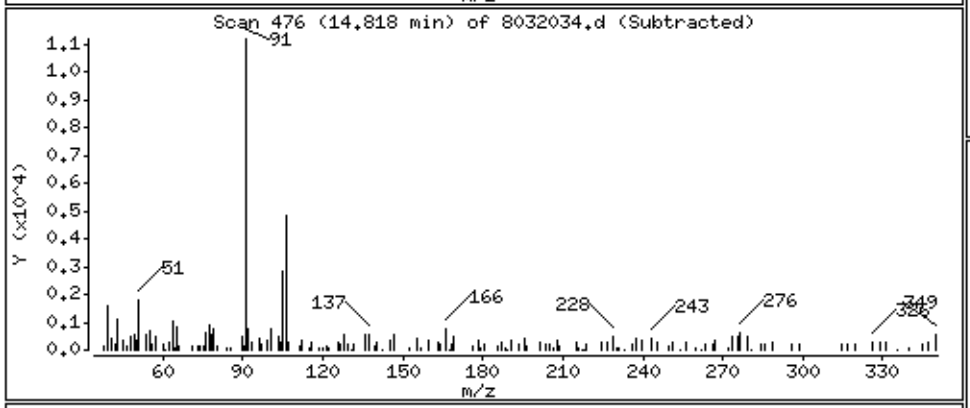
Column phase: RTx-624

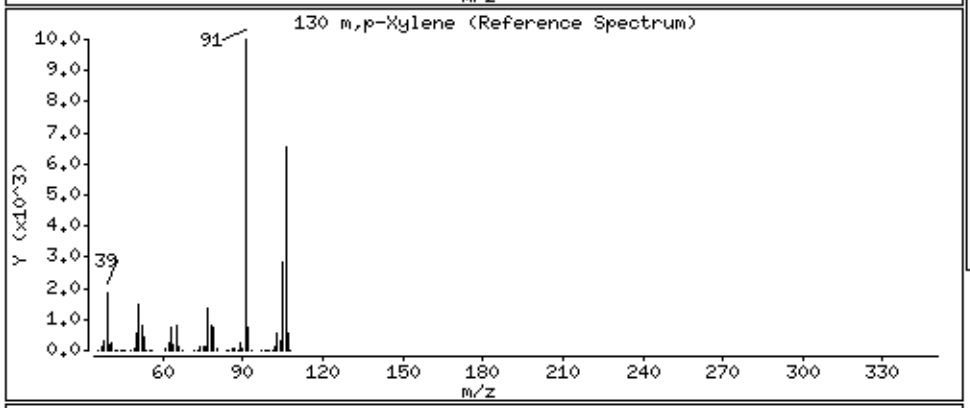
Column diameter: 0.53

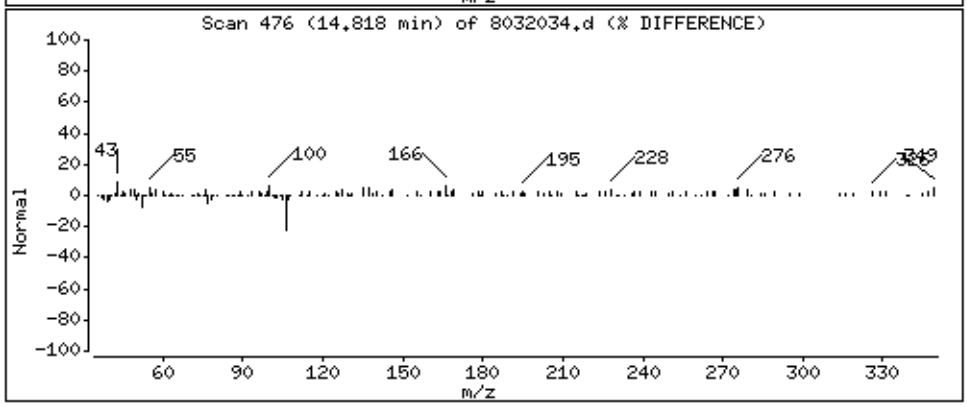
130 m,p-Xylene

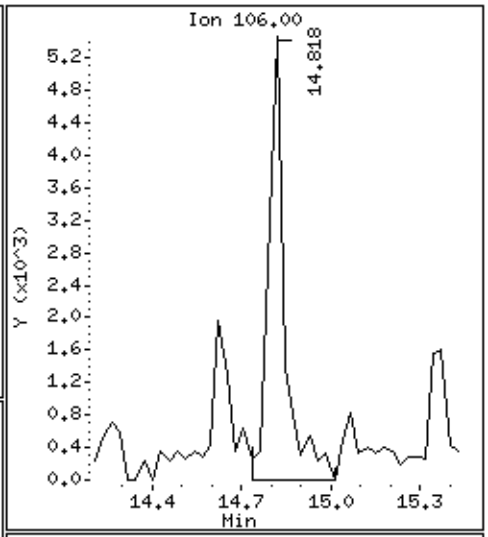
Concentration: 0.9678 PPBV

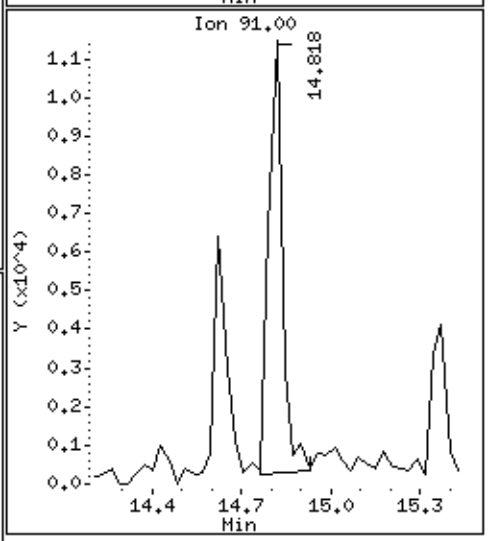












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0803303-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 01:16 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#: 0803303-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032006**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 01:16 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20mar.b/8032006.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-MAR-2008 13:16
Operator : ct Inst ID: msd8.i
Smp Info : 200mL #13673
Misc Info : Humid Cert Cart #11 Leg 4
Comment :
Method : /chem/msd8.i/8-20mar.b/t14q307a.m
Meth Date : 20-Mar-2008 11:39 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.242 (1.000)	130	286831	25.0000		80.00- 120.00	100.00
7.214	7.214 (1.000)	128	221508			49.70- 109.70	77.23
7.214	7.214 (1.000)	49	613718			171.27- 231.27	213.97
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1289960	25.0000		80.00- 120.00	100.00
9.095	9.095 (1.000)	88	206988			0.00- 46.36	16.05
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	795672	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	480808			0.00- 30.00	60.43
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	474762	23.4863	23.486	80.00- 120.00	100.00
8.293	8.293 (1.149)	67	235696			0.00- 30.00	49.65
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1176894	24.1288	24.129	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	121871			0.00- 30.00	10.36

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
11.915	11.915 (1.310)	100	761669			0.00- 30.00	64.72
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	482297	24.1352	24.135	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	627330			95.62- 155.62	130.07
16.090	16.090 (1.115)	176	459204			64.83- 124.83	95.21

Report Date: 20-Mar-2008 13:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032006.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: Humid Cert Cart #11 Leg 4

Calibration Date: 20-MAR-2008
Calibration Time: 11:17
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	352131	211279	492983	286831	-18.54
88 1,4-Difluorobenze	1656150	993690	2318610	1289960	-22.11
125 Chlorobenzene-d5	997112	598267	1395957	795672	-20.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.21	-0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 20-Mar-2008 13:29

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: ct
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: Humid Cert Cart #11 Leg 4

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	23.486	93.95	70-130
$ 104 Toluene-d8	25.000	24.129	96.52	70-130
$ 140 Bromofluorobenzene	25.000	24.135	96.54	70-130

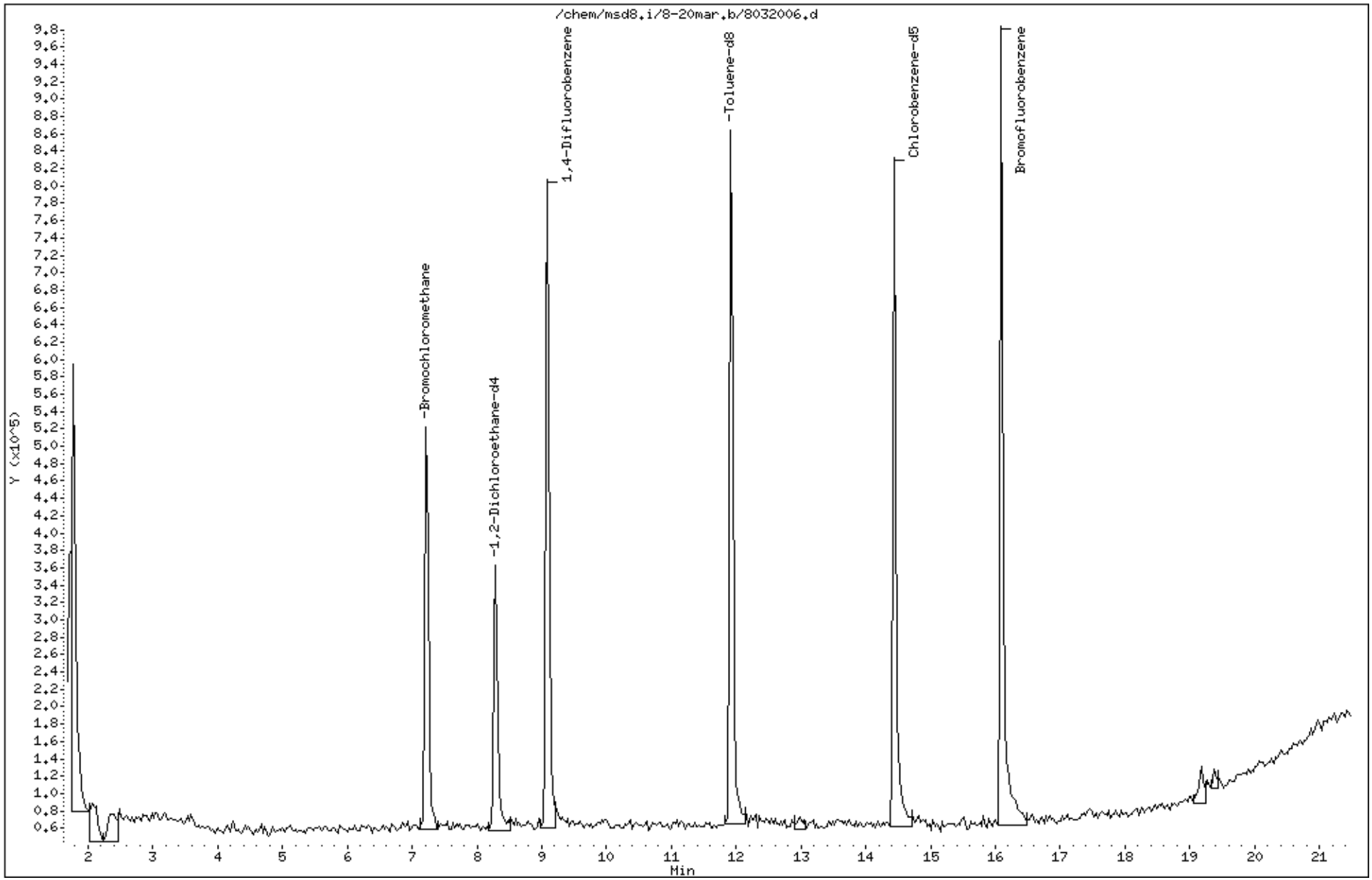
0040

Data File: /chem/msd8.i/8-20mar.b/8032006.d
Date : 20-MAR-2008 13:16
Client ID: Lab Blank
Sample Info: 200mL #13673

Column phase: RTx-624

Instrument: msd8.i

Operator: ct
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.: 0803303

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW-AMS 5	98		96		90				0
02	DW-AMS 3	96		98		98				0
03	Lab Blank	94		96		96				0
04	CCV	96		95		107				0
05	LCS	94		96		108				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: 0803303

Lab File ID: 8032003.d | Date Analyzed: 03/20/2008

Instrument ID: msd8.i | Time Analyzed: 11:17 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	997112		14.43		1656150		9.09		352131		7.24	
	UPPER LIMIT	1395957		14.76		2318610		09.42		492983		07.57	
	LOWER LIMIT	598267		14.10		993690		08.76		211279		06.91	
	CLIENT SAMPLE NO												
01	UW-AMS 5	752066		14.43		1198989		9.09		261974		7.21	
02	DW-AMS 3	742905		14.43		1171722		9.09		255855		7.21	
03	Lab Blank	795672		14.43		1289960		9.09		286831		7.21	
04	CCV	997112		14.43		1656150		9.09		352131		7.24	
05	LCS	822193		14.43		1315038		9.09		290983		7.21	
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 : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-07mar.b/8030711.d
Level 2: /chem/msd8.i/8-07mar.b/8030712.d
Level 3: /chem/msd8.i/8-07mar.b/8030713.d
Level 4: /chem/msd8.i/8-07mar.b/8030714.d
Level 5: /chem/msd8.i/8-07mar.b/8030715.d
Level 6: /chem/msd8.i/8-07mar.b/8030716.d
Level 7: /chem/msd8.i/8-07mar.b/8030717.d

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	RRF	% RSD
1 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Propylene	+++++	+++++	1.61676	1.46597	1.43916	1.42266	1.28001	1.44491	8.312
4 Dichlorodifluoromethane/Fr12	+++++	4.14732	3.87481	3.78738	3.44815	3.33850	2.89231	3.58141	12.489
5 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
6 Freon 114	+++++	3.34647	2.83882	2.27827	2.10611	2.13979	1.90489	2.43572	22.448
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
8 Chloromethane	+++++	+++++	2.31548	1.66002	1.72064	1.70817		
	1.50701						1.78226	17.392
9 Butane	+++++	+++++	0.58725	0.33135	0.33738	0.34506		
	0.32278						0.38477	29.495
10 1,3-Butadiene	+++++	2.05332	1.71862	1.41325	1.41784	1.44137		
	1.29522						1.55660	18.043
11 Vinyl Chloride	+++++	2.72081	1.94679	1.63489	1.60246	1.63546		
	1.49260						1.83883	24.900
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
13 Bromomethane	+++++	1.53691	1.06807	1.02054	1.03699	1.08518		
	0.97646						1.12069	18.508
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
15 Isopentane	+++++	+++++	3.54211	2.69062	2.57805	2.62641		
	2.34769						2.75697	16.596
16 Chloroethane	+++++	1.14502	0.93799	0.83559	0.81001	0.84663		
	0.77237						0.89127	15.253
17 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
18 Trichlorofluoromethane/Fr11	+++++	4.93391	4.37757	3.53429	3.41354	3.49795	3.12118	3.81307	18.133
19 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
21 Freon123	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
23 Ethanol	+++++	+++++	0.89556	0.79054	0.74258	0.71344	0.61426	0.75127	13.743
24 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
27 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
28 Freon 113	+++++	3.08203	1.95817	1.82384	1.76468	1.72734		
	1.55881						1.98581	27.826
29 1,1-Dichloroethene	+++++	4.07810	3.36877	2.62009	2.48699	2.49831		
	2.33000						2.89704	23.628
30 Acetone	+++++	+++++	1.23661	0.85710	0.82170	0.86922		
	0.78580						0.91408	20.044
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
32 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
33 Carbon Disulfide	+++++	5.97000	5.07293	4.15955	4.06987	4.13307		
	3.75742						4.52714	18.406
34 2-Propanol	+++++	+++++	4.09140	3.55484	3.47015	3.59180		
	3.20015						3.58167	9.032
35 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
36 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
37 3-Chloropropene	+++++	+++++	0.79386	0.71405	0.67980	0.71828		
	0.62377						0.70595	8.785

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 tert-Butyl-Alcohol	+++++	+++++	3.55184	2.86307	2.67540	2.29861	1.59746	2.59728	27.743
39 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Methylene Chloride	+++++	3.22786	2.89596	2.13141	2.10408	2.15685	1.92486	2.40684	21.793
41 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 MTBE	+++++	3.90963	2.73363	3.67181	3.59947	3.53803	2.89658	3.39152	13.764
44 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 trans-1,2-Dichloroethene	+++++	2.26149	1.92449	1.47763	1.44371	1.47765	1.31025	1.64921	22.141
46 Hexane	+++++	4.09401	4.04306	3.31745	3.21749	3.22337	2.88218	3.46293	14.211
47 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
48 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 1,1-Dichloroethane	+++++	3.90405	3.70842	3.12863	3.01765	3.15912		
	2.80619						3.28734	12.931
55 Vinyl Acetate	+++++	+++++	0.40258	0.34309	0.35458	0.38281		
	0.35095						0.36680	6.814
56 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
57 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
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Origin : Disabled
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Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
58 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
59 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
62 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
63 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
64 cis-1,2-Dichloroethene	+++++	3.33466	2.96968	2.36136	2.31016	2.35522		
	2.10158						2.57211	18.409
65 2-Butanone	+++++	0.99426	0.81518	0.76635	0.76114	0.76840		
	0.70011						0.80091	12.682
66 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
67 Tetrahydrofuran	+++++	3.71359	3.16730	2.51656	2.47793	2.56923		
	2.33843						2.79718	19.051

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
69 Butanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
70 Chloroform	4.30153	4.17439	3.45811	2.86928	2.75251	2.88261	2.59862	3.29101	21.283
71 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 Cyclohexane	+++++	3.21015	2.77766	2.25644	2.15778	2.20421	1.95613	2.42706	19.406
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 1,1,1-Trichloroethane	+++++	4.46688	3.32449	2.87566	2.77044	2.92510	2.59733	3.15998	21.646
76 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 Carbon Tetrachloride	+++++	2.91028	2.84387	2.43666	2.35941	2.44471	2.23016	2.53751	10.833
78 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD	
	200.000 Level 7								
79 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
80 2,2,4-Trimethylpentane	+++++	11.97199	12.45966	9.87189	9.53612	9.95606			
	9.01918						10.46915	13.382	
81 Benzene	1.51587	1.65173	1.32012	1.03910	0.96821	0.94475			
	0.92522						1.19500	25.067	
83 1,2-Dichloroethane	+++++	0.56599	0.57606	0.49673	0.46526	0.45985			
	0.43770						0.50026	11.604	
84 Thiopene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
85 Heptane	+++++	0.20044	0.12683	0.11419	0.10896	0.10210			
	0.09928						0.12530	30.397	<-
86 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
87 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
89 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
90 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
91 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
92 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
93 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
94 Trichloroethene	+++++	0.66165	0.56938	0.41555	0.37845	0.37342		
	0.36355						0.46033	27.141
95 Methyl Cyclohexane	+++++	3.95818	3.80014	2.98664	2.89675	2.96044		
	2.67843						3.21343	16.472
96 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
97 1,2-Dichloropropane	+++++	0.69712	0.47793	0.40776	0.39037	0.37447		
	0.36593						0.45226	27.956
98 1,4-Dioxane	+++++	+++++	0.25535	0.22458	0.21585	0.21244		
	0.20902						0.22345	8.391
99 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
100 Bromodichloromethane	+++++	0.82147	0.79329	0.62333	0.59167	0.57698		
	0.57351						0.66337	17.076

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
101 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
102 cis-1,3-Dichloropropene	+++++	0.83026	0.53815	0.49571	0.48319	0.47192		
	0.47192						0.54853	25.559
103 4-Methyl-2-pentanone	+++++	0.56493	0.37513	0.35466	0.33930	0.32244		
	0.31575						0.37870	24.758
105 Toluene	+++++	1.41494	1.26205	1.07374	1.00488	0.97910		
	0.98978						1.12075	15.930
106 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
107 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
108 trans-1,3-Dichloropropene	+++++	0.65733	0.81480	0.75980	0.73451	0.75327		
	0.74427						0.74400	6.840
109 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
110 1,1,2-Trichloroethane	+++++	0.66133	0.67418	0.57442	0.54085	0.51728		
	0.49608						0.57736	12.958
111 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
112 Tetrachloroethene	+++++	1.01500	1.04069	0.73914	0.71160	0.68943		
	0.66582						0.81028	21.036
113 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
114 2-Hexanone	+++++	+++++	0.82333	0.71989	0.68140	0.69012		
	0.69007						0.72096	8.191
115 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
116 Dibromochloromethane	+++++	1.20554	0.84932	0.77815	0.76848	0.76923		
	0.75755						0.85471	20.477
117 1,2-Dibromoethane	+++++	1.17848	1.13151	0.88321	0.84875	0.82444		
	0.80118						0.94459	17.562
118 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
120 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
121 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
122 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
123 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Chlorobenzene	+++++	1.89428	1.62935	1.39749	1.29617	1.24981		
	1.21542						1.44709	18.310
127 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
129 Ethyl Benzene	+++++	0.83831	0.79480	0.71843	0.71193	0.68360		
	0.65987						0.73449	9.302
130 m,p-Xylene	+++++	1.03975	1.15053	0.90939	0.85668	0.84645		
	0.82793						0.93845	13.766
131 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
132 o-Xylene	+++++	1.13913	1.04931	0.83789	0.82195	0.79615		
	0.76073						0.90086	17.168

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
133 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
134 Styrene	1.96379	1.72791	1.59232	1.47539	1.34862	1.36957	1.36209	1.54853	14.882
135 Bromoform	+++++	0.81409	0.76511	0.74066	0.75258	0.74521	0.75919	0.76281	3.495
136 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Cumene	3.42755	3.37770	3.23628	2.66207	2.61048	2.51975	2.26633	2.87145	16.213
138 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
143 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 07-MAR-2008 16:29
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
144 1,1,2,2-Tetrachloroethane	+++++	1.52317	1.53537	1.26001	1.23414	1.20147		
	1.18416						1.32305	12.238
145 Propylbenzene	+++++	3.75971	3.61897	3.28059	3.23785	3.29905		
	2.31310						3.25154	15.544
146 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 4-Ethyltoluene	+++++	2.73277	2.78762	2.46074	2.44700	2.40374		
	2.40290						2.53913	6.839
148 1,3,5-Trimethylbenzene	+++++	3.24464	3.08121	2.30417	2.25292	2.16965		
	2.11341						2.52767	19.747
149 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
151 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
152 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
153 1,2,4-Trimethylbenzene	+++++	2.79993	2.47884	2.17474	2.16406	2.15004		
	2.08113						2.30812	12.039

Air Toxics Ltd.

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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
154 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
155 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
156 1,3-Dichlorobenzene	+++++	1.86415	1.43437	1.23569	1.25013	1.20353		
	1.16428						1.35869	19.473
157 1,4-Dichlorobenzene	+++++	2.13397	2.16095	1.60250	1.59167	1.57128		
	1.38650						1.74114	18.641
158 alpha-Chlorotoluene	+++++	1.46580	1.57480	1.66285	1.76652	1.79204		
	1.81331						1.67922	8.211
159 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
160 Indan	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dichlorobenzene	+++++	1.76123	1.93735	1.40796	1.40389	1.35830		
	1.29528						1.52733	16.941
162 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 Indene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 07-MAR-2008 16:29
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
164 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
165 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
166 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
167 1,2,4-Trichlorobenzene	+++++	+++++	1.75415	1.12978	1.06524	1.02944		
	1.04356						1.20443	25.713
168 Hexachlorobutadiene	+++++	+++++	1.52150	1.03125	1.03352	1.02238		
	0.96414						1.11456	20.569
169 Naphthalene	+++++	+++++	3.65700	2.07906	2.12813	2.08800		
	2.11418						2.41328	28.822
170 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
171 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
172 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
198 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 07-MAR-2008 16:29
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-07mar.b/t14q307a.m
Cal Date : 11-Mar-2008 12:38 ctaylor
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	___ RRF	% RSD
	200.000 Level 7							
$ 82 1,2-Dichloroethane-d4	1.68566	1.72529	1.69844	1.70529	1.81752	1.92335		
	1.77758						1.76187	4.849
$ 104 Toluene-d8	0.93095	0.96488	0.94212	0.95922	0.93821	0.93782		
	0.94384						0.94529	1.297
$ 140 Bromofluorobenzene	0.61910	0.59226	0.59664	0.64304	0.64418	0.64588		
	0.65399						0.62787	4.020

Calibration History

Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Start Cal Date: 07-MAR-2008 16:29
End Cal Date : 07-MAR-2008 19:15

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
07-MAR-2008 16:29	AFCEElow	/chem/msd8.i/8-07mar.b/8030711.d
Cal Level: 2 , Cal Amount: 0.50000		
07-MAR-2008 16:56	AT08Low	/chem/msd8.i/8-07mar.b/8030712.d
Cal Level: 3 , Cal Amount: 2.00000		
07-MAR-2008 17:23	AT08mdl	/chem/msd8.i/8-07mar.b/8030713.d
Cal Level: 4 , Cal Amount: 25.00000		
07-MAR-2008 17:51	AT08mdl	/chem/msd8.i/8-07mar.b/8030714.d
Cal Level: 5 , Cal Amount: 50.00000		
07-MAR-2008 18:18	AT08mdl	/chem/msd8.i/8-07mar.b/8030715.d
Cal Level: 6 , Cal Amount: 100.00000		
07-MAR-2008 18:46	AT08mdl	/chem/msd8.i/8-07mar.b/8030716.d
Cal Level: 7 , Cal Amount: 200.00000		
07-MAR-2008 19:15	AT08mdl	/chem/msd8.i/8-07mar.b/8030717.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000
07-MAR-2008 18:18 | AT08mdl | /chem/msd8.i/8-07mar.b/8030715a.d
Ccal Level: 5 , Ccal Amount: 50.000
07-MAR-2008 18:18 | AT08mdl | /chem/msd8.i/8-07mar.b/8030715.d

@ Air Toxics Ltd.

MSD-8

Logbook #: 1647

0063

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.92
75	30.0 – 60.0% of mass 95	48.01
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.32
173	Less than 2.0% of mass 174	(0.28)[1]
174	50.0 – 100% of mass 95	68.35
175	5.0 – 9.0% of mass 174	(7.49)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.63)[1]
177	5.0 – 9.0% of mass 176	(6.47)[2]

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

BFB Injection Date: 3/7/08
BFB Injection Time: 1610
BFB File ID: 8030710
Tekmar Purge Flow: 15.7 ml/min
Vacuum: 9.4×10^{-6} torr

IS/S Std.#:	1541-51	Exp. Date: 5-28-08
BCM	293004	
1,4-DFB	1382376	
CB-d5	855859	

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

Verify 176/174 m/z Ratio: 444889 / 460397 x 100 = 96.63

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 532540\ )}{(\ 293004\ )} \times \frac{(\ 25.0\ )}{(\ 1.76187\ )} =$ 25.790

Reported Result 25.790

File ID:	8030715
Compound:	1,2-DCA-d4
Initials:	CB

Method: tl4g307a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8030710	BFB Tune Check	1476-191	50ng	2mL	1.00	CB	3/7/08	1610	CB	
2	✓	11	ICAL Level 1	1576-271	200ppbv - 0.2ppbv	0.2mL		CB		1629	CB	tl4g307a
3	✓	12	2		~0.5ppbv	0.5mL		CB		1656	CB	
4	✓	13	3		~ 2ppbv	2mL		CB		1723	CB	
5	✓	14	4		~ 25ppbv	25mL		CB		1751	CB	
6	✓	15	5		~ 50ppbv	50mL		CB		1818	CB	CCV
7	✓	16	6		~ 100ppbv	100mL	✓	CB		1846	CB	

Signature

3/7/08
Date

@ Air Toxics Ltd. **MSD-8** Logbook #: 1647

8	✓	8030717	ICAL Level 7	1576-271	200 ml/min	200mL	1.00	CB	3/7/08	1915	CB	E14g307g
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31											CB	3/10/08

0900

Comments: Flow controller S/N # AA9506172 Nominal - 22.4 mL/min

NIST Flow meter S/N # 200-7744 exp 8/31/08 Actual - 24.9 mL/min CB 3/7/08

Signature

3/10/08
Date

0055

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	24.52
75	30.0 – 60.0% of mass 95	48.11
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.50
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	70.20
175	5.0 – 9.0% of mass 174	(7.70)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.39)[1]
177	5.0 – 9.0% of mass 176	(6.32)[2]

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

BFB Injection Date: 3/10/08
BFB Injection Time: 1211
BFB File ID: 8031004
Tekmar Purge Flow: 15.8 mL/min
Vacuum: 1.0×10^{-5} torr

IS/S Std.#:	1541-51	Exp. Date: 5-28-08
BCM	406383	
1,4-DFB	1823270	
CB-d5	1101562	

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

Verify 176/174 m/z Ratio: 560446 / 587522 x 100 = 95.39%

NOAH Cart #: 15 / 7 **File #:** 5031007 / 8031007

Calculation Check:

$$\text{ppbv of compound} = \frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(\ 659896\ )}{(\ 406383\ )} \times \frac{(\ 25.0\ )}{(\ 1.76187\ )} = 23.041$$

Reported Result 23.041

File ID:	8031005
Compound:	1,2-DCA-d4
Initials:	CB

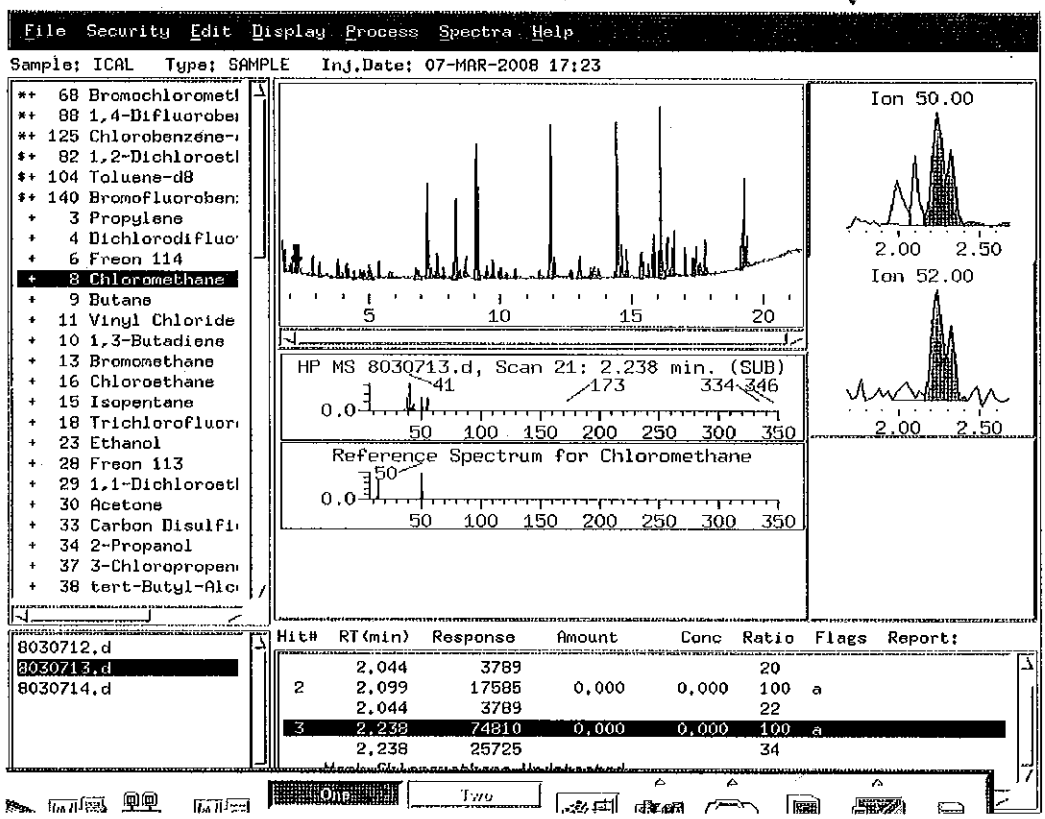
Method: tl4g307a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	✓	8031004	BFB Tune Check	1476-191	50mg	2mL	1.00	CB	3/10/08	1211	CB	
2	✓	05	CCV-1 (100 ppbv) CB 3/10/08	1576-271A	25 CB 3/10/08 ppbv	50mL		CB		1253	CB	~~Bad load - no sample in system~~ CB 3/10/08
3	✓	06	LCS-1 (200 ppbv)	1576-259	50 ppbv	↓		CB		1321	CB	ICAL LCS
4	✓	07	Lab Blank	13673	Humid	200mL		CB		1412	CB	Cert Cart #7 Leg 7
5	✓	08	Cert #14 Leg #7	13673	Humid	200mL	↓	CB		1506	CB	
6		09	08026138 - 31A	12385	30 Hg - 15 psig	200mL	2.24	CB				
7		↓ 10	↓ - 31AA	↓	↓ - ↓	↓	↓	CB	↓			

Signature

3/10/08
Date

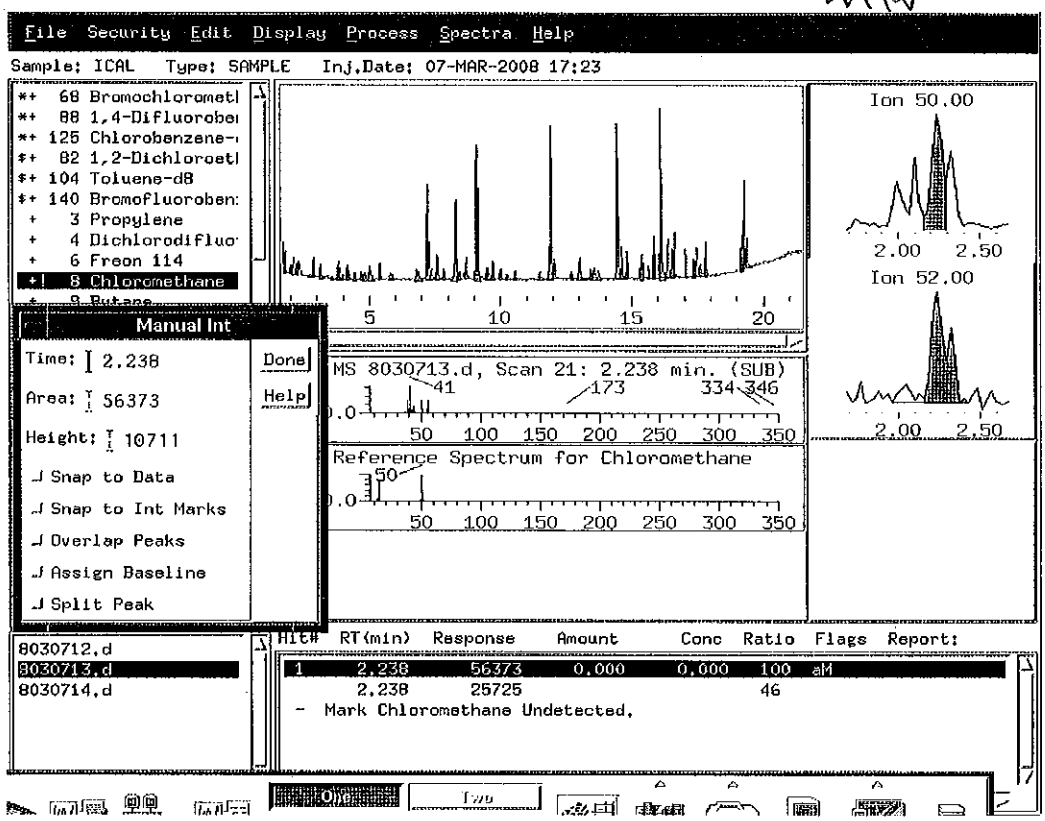
Before


File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 07-MAR-2008 17:23
68 Bromochlorometl
88 1,4-Difluorobe
125 Chlorobenzene-
82 1,2-Dichloroetl
104 Toluene-d8
140 Bromofluoroben
3 Propylene
4 Dichlorodifluo
6 Freon 114
8 Chloromethane
9 Butane
11 Vinyl Chloride
10 1,3-Butadiene
13 Bromomethane
16 Chloroethane
15 Isopentane
18 Trichlorofluor
23 Ethanol
28 Freon 113
29 1,1-Dichloroetl
30 Acetone
33 Carbon Disulfi
34 2-Propanol
37 3-Chloropropen
38 tert-Butyl-Alc
Ion 50.00
Ion 52.00
HP MS 8030713.d, Scan 21: 2.238 min. (SUB)
Reference Spectrum for Chloromethane
8030712.d
8030713.d
8030714.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
2.044 3789 20
2 2.099 17585 0.000 0.000 100 a
2.044 3789 22
3 2.238 74810 0.000 0.000 100 a
2.238 25725 34
One
Two

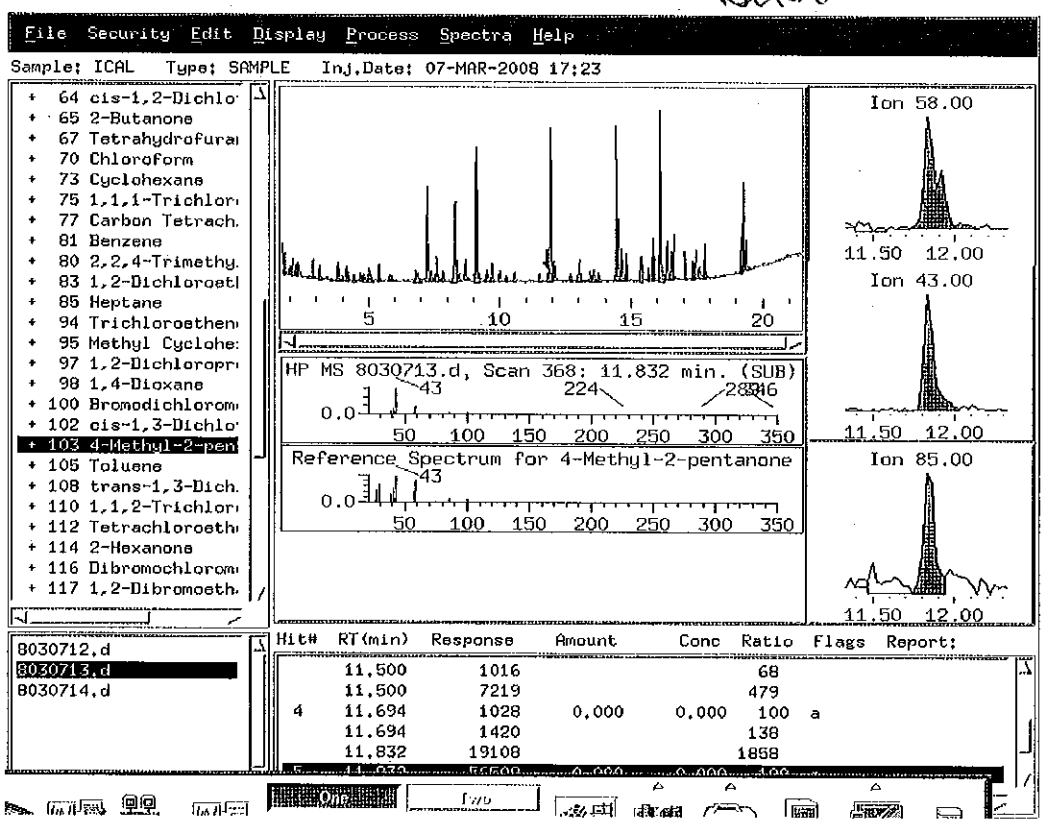
Team VOC

Date / Initial	3/10/08 / CB
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peak	X

after



Before

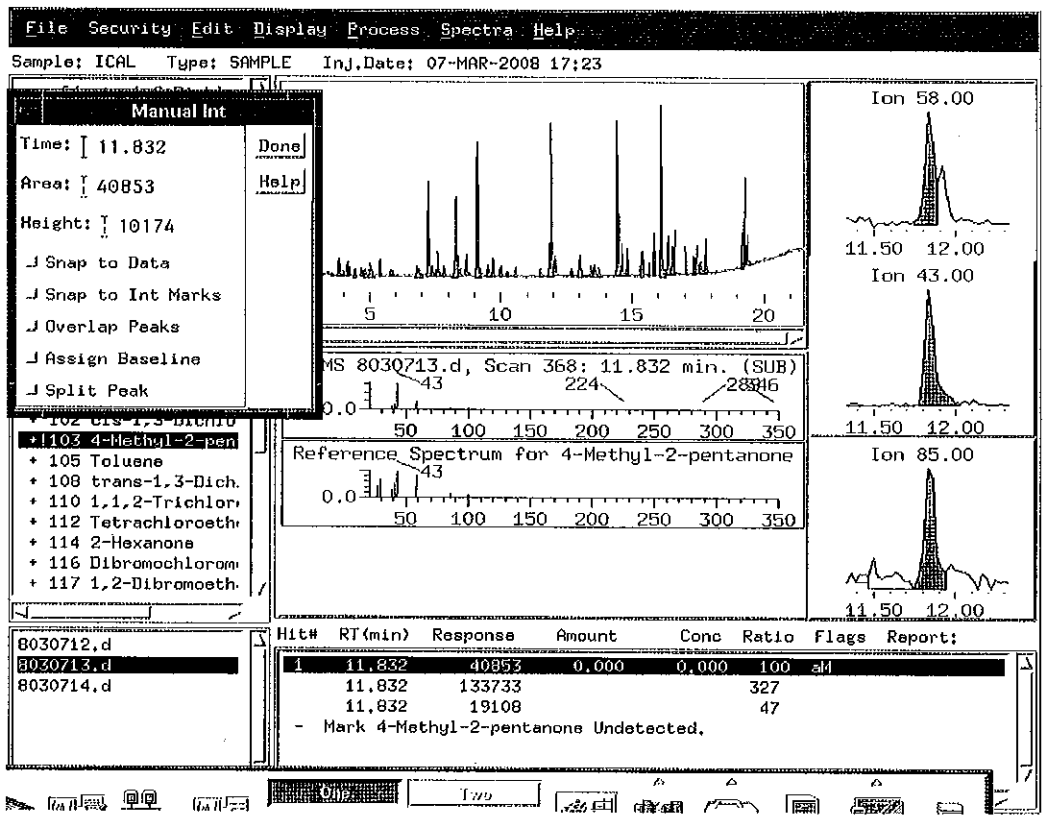

File Security Edit Display Process Spectra Help
Sample: ICAL Type: SAMPLE Inj.Date: 07-MAR-2008 17:23
64 cis-1,2-Dichlo
65 2-Butanone
67 Tetrahydrofura
70 Chloroform
73 Cyclohexane
75 1,1,1-Trichlor
77 Carbon Tetrach.
81 Benzene
80 2,2,4-Trimethy.
83 1,2-Dichloroetl
85 Heptane
94 Trichloroethen
95 Methyl Cyclohe:
97 1,2-Dichloropr
98 1,4-Dioxane
100 Bromodichlorom
102 cis-1,3-Dichlo
103 4-Methyl-2-pen
105 Toluene
108 trans-1,3-Dich.
110 1,1,2-Trichlor
112 Tetrachloroeth
114 2-Hexanone
116 Dibromochlorom
117 1,2-Dibromoeth.
HP MS 8030713.d, Scan 368: 11.832 min. (SUB)
Reference Spectrum for 4-Methyl-2-pentanone
Ion 58.00
11.50 12.00
Ion 43.00
11.50 12.00
Ion 85.00
11.50 12.00
8030712.d
8030713.d
8030714.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
11.500 1016 68
11.500 7219 479
4 11.694 1028 0.000 0.000 100 a
11.694 1420 138
11.832 19108 1858

Team VOC

Date / Initial	3/10/08 / CB
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

VMC

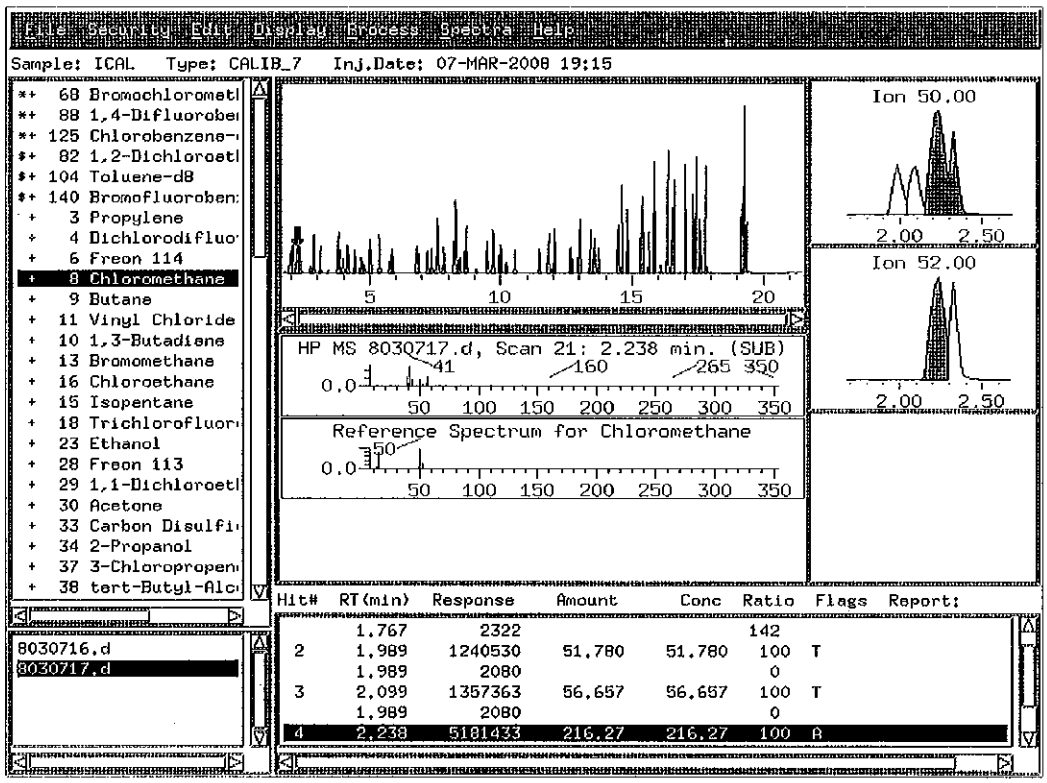
aftr



Team A

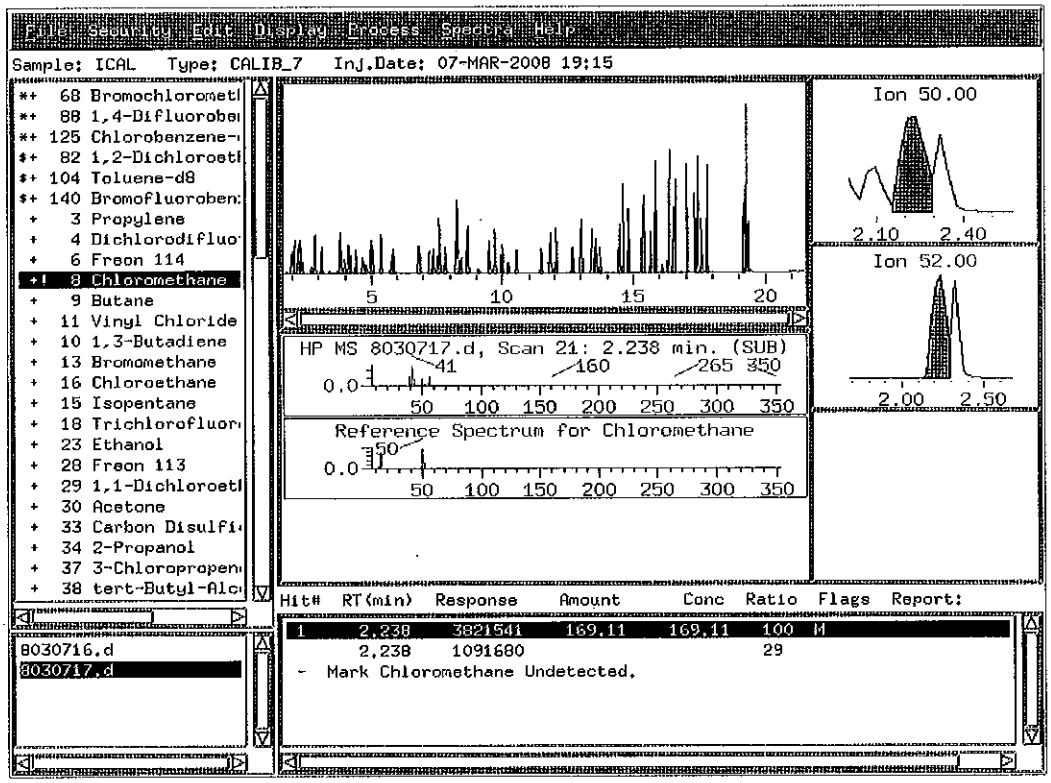
Date/Initial	3-11-08 GR.
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	
Merged Peaks	X

Before



Team A	
Date/Initial	3-11-08 CP.
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	X
Missed Peak	
Merged Peaks	

a. ftw



Initial Calibration Narrative

A seven point initial calibration was analyzed on MSD-8 on 3-07-2008. The following compounds used either 0.2 or 0.25 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/msd8.i/8-10mar.b/8031006.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 10-MAR-2008 13:21
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1576-259
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-10mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:46 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.215	7.242 (1.000)	130	335406	25.0000		80.00- 120.00	100.00
	7.215	7.215 (1.000)	128	260756			47.65- 107.65	77.74
	7.215	7.215 (1.000)	49	703584			180.08- 240.08	209.77
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.095	9.095 (1.000)	114	1531784	25.0000		80.00- 120.00	100.00
	9.095	9.095 (1.000)	88	250621			0.00- 46.29	16.36
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.431	14.431 (1.000)	117	937283	25.0000		80.00- 120.00	100.00
	14.431	14.431 (1.000)	82	595561			0.00- 30.00	63.54
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.293	8.293 (1.149)	65	565798	23.9362	23.936	80.00- 120.00	100.00
	8.293	8.293 (1.149)	67	320527			0.00- 30.00	56.65
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.915	11.915 (1.310)	98	1418108	24.4842	24.484	80.00- 120.00	100.00
	11.915	11.915 (1.310)	70	151994			0.00- 30.00	10.72

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	1050404			0.00- 30.00	74.07
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	606449	25.7629	25.763	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	806904			104.01- 164.01	133.05
16.090	16.090 (1.115)	176	585420			68.28- 128.28	96.53
3 Propylene					CAS #: 115-07-1		
1.933	1.961 (0.268)	41	980734	50.5917	50.592	80.00- 120.00	100.00
1.933	1.961 (0.268)	42	647487			0.00- 30.00	66.02
1.933	1.961 (0.268)	39	691157			0.00- 30.00	70.47
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	2.016 (0.276)	85	2139952	44.5368	44.537	80.00- 120.00	100.00
1.989	2.016 (0.276)	87	697045			0.00- 30.00	32.57
6 Freon 114					CAS #: 76-14-2		
2.072	2.099 (0.287)	135	1429046	43.7308	43.731	80.00- 120.00	100.00
2.072	2.099 (0.287)	137	447641			1.90- 61.90	31.32
8 Chloromethane					CAS #: 74-87-3		
2.182	2.210 (0.302)	50	1073761	44.9060	44.906	80.00- 120.00	100.00
2.210	2.210 (0.306)	52	328707			0.00- 30.00	30.61
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.348 (0.322)	62	1059948	42.9646	42.965	80.00- 120.00	100.00
2.321	2.348 (0.322)	64	315003			0.00- 30.00	29.72
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.348 (0.322)	54	916443	43.8831	43.883	80.00- 120.00	100.00
2.321	2.348 (0.322)	39	1067875			0.00- 30.00	116.52
13 Bromomethane					CAS #: 74-83-9		
2.735	2.763 (0.379)	94	721860	48.0105	48.010	80.00- 120.00	100.00
2.735	2.763 (0.379)	96	682817			65.12- 125.12	94.59
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	560984	46.9149	46.915	80.00- 120.00	100.00
2.846	2.846 (0.394)	49	161236			0.00- 30.00	28.74
2.846	2.846 (0.394)	66	167086			0.00- 30.00	29.78
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	2288273	44.7303	44.730	80.00- 120.00	100.00
3.122	3.122 (0.433)	103	1468416			37.53- 97.53	64.17

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	498916	49.4992	49.499	80.00- 120.00	100.00
3.399	3.399 (0.471)	43	103003			0.00- 30.00	20.65
3.399	3.427 (0.471)	46	191100			0.00- 30.00	38.30
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	1317156	49.4388	49.439	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	836122			33.07- 93.07	63.48
3.814	3.814 (0.529)	101	1823554			106.33- 166.33	138.45
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1833053	47.1617	47.162	80.00- 120.00	100.00
3.841	3.841 (0.532)	96	890806			19.60- 79.60	48.60
3.841	3.841 (0.532)	98	571550			2.38- 62.38	31.18
30 Acetone					CAS #: 67-64-1		
3.980	3.980 (0.552)	58	568013	46.3171	46.317	80.00- 120.00	100.00
3.980	3.980 (0.552)	43	2111600			0.00- 30.00	371.75
34 2-Propanol					CAS #: 67-63-0		
4.145	4.173 (0.575)	45	2391284	49.7639	49.764	80.00- 120.00	100.00
4.145	4.173 (0.575)	43	482156			0.00- 30.00	20.16
4.145	4.173 (0.575)	59	86466			0.00- 30.00	3.62
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.173 (0.575)	76	2767219	45.5605	45.560	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.450 (0.613)	76	496866	52.4607	52.461	80.00- 120.00	100.00
4.422	4.450 (0.613)	41	1847920			0.00- 30.00	371.92
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	1515878	46.9447	46.945	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	835842			26.65- 86.65	55.14
4.671	4.671 (0.647)	51	439814			0.00- 30.00	29.01
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	2425817	53.3129	53.313	80.00- 120.00	100.00
5.003	5.003 (0.693)	57	676143			0.00- 58.89	27.87
5.003	5.003 (0.693)	41	761072			0.00- 30.00	31.37
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.058 (0.697)	96	996577	45.0407	45.041	80.00- 120.00	100.00
5.030	5.058 (0.697)	61	1741192			146.82- 206.82	174.72
5.030	5.058 (0.697)	98	627848			0.00- 30.00	63.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.362	5.390 (0.743)	57	2154052	46.3641	46.364	80.00- 120.00	100.00
5.362	5.390 (0.743)	43	1504623			0.00- 30.00	69.85
5.390	5.390 (0.747)	86	285397			0.00- 30.00	13.25
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.804 (0.801)	63	2153537	48.8288	48.829	80.00- 120.00	100.00
5.777	5.804 (0.801)	65	659573			1.59- 61.59	30.63
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.887 (0.812)	86	243967	49.5759	49.576	80.00- 120.00	100.00
5.860	5.887 (0.812)	43	3587705			0.00- 30.00	1470.57
5.860	5.887 (0.812)	42	284221			0.00- 30.00	116.50
65 2-Butanone					CAS #: 78-93-3		
6.827	6.855 (0.946)	72	505512	47.0456	47.046	80.00- 120.00	100.00
6.827	6.855 (0.946)	43	2774267			524.04- 584.04	548.80
6.827	6.855 (0.946)	57	192334			0.00- 30.00	38.05
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	1588200	46.0240	46.024	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	976052			31.25- 91.25	61.46
6.800	6.800 (0.942)	98	622023			9.83- 69.83	39.17
67 Tetrahydrofuran					CAS #: 109-99-9		
7.215	7.215 (1.000)	42	1626928	43.3529	43.353	80.00- 120.00	100.00
7.215	7.215 (1.000)	71	455341			0.00- 57.84	27.99
7.215	7.215 (1.000)	72	519482			0.00- 30.00	31.93
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1939384	43.9242	43.924	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	1201570			32.34- 92.34	61.96
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	1924562	45.3959	45.396	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	1217893			33.37- 93.37	63.28
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	1478364	45.4015	45.401	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	2074778			113.79- 173.79	140.34
7.574	7.574 (1.050)	41	1246937			56.45- 116.45	84.35
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1691456	49.6846	49.684	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1726552			73.53- 133.53	102.07

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	6374374	45.3832	45.383	80.00- 120.00	100.00
8.293	8.293 (1.149)	56	2006120			0.00- 30.00	31.47
8.265	8.293 (1.146)	41	1782778			0.00- 30.00	27.97
81 Benzene					CAS #: 71-43-2		
8.238	8.265 (0.906)	78	3100131	42.3404	42.340	80.00- 120.00	100.00
8.238	8.265 (0.906)	77	718395			0.00- 30.00	23.17
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1473488	48.0718	48.072	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	476340			0.00- 30.00	32.33
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	330597	43.0609	43.061	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	2604172			0.00- 30.00	787.72
8.680	8.680 (0.954)	71	1134154			0.00- 30.00	343.06
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.509 (1.043)	95	1204900	42.7190	42.719	80.00- 120.00	100.00
9.482	9.509 (1.043)	130	1157044			61.04- 121.04	96.03
9.482	9.509 (1.043)	97	761575			34.04- 94.04	63.21
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	10.007 (1.097)	63	1191120	42.9839	42.984	80.00- 120.00	100.00
9.979	10.007 (1.097)	62	815411			38.63- 98.63	68.46
9.979	10.007 (1.097)	41	843754			40.61- 100.61	70.84
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	665113	48.5807	48.581	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	570185			56.66- 116.66	85.73
10.228	10.228 (1.125)	57	184737			0.00- 30.00	27.78
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	1889626	46.4900	46.490	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	1168555			31.31- 91.31	61.84
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.473	11.500 (1.261)	75	1504792	44.7736	44.774	80.00- 120.00	100.00
11.473	11.500 (1.261)	77	465999			0.00- 59.87	30.97
11.473	11.500 (1.261)	39	1048124			39.72- 99.72	69.65
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	1031712	44.4636	44.464	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	2969245			0.00- 30.00	287.80
11.832	11.832 (1.301)	85	389934			0.00- 30.00	37.79

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	3335117	48.5675	48.567	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1957944			29.53- 89.53	58.71
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	1480551	53.0789	53.079	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	468314			1.18- 61.18	31.63
12.689	12.689 (0.879)	39	1012369			36.80- 96.80	68.38
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	1053321	48.6616	48.662	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	636445			31.59- 91.59	60.42
12.966	12.993 (0.898)	83	928352			58.56- 118.56	88.14
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	1428189	47.0131	47.013	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	1003354			41.98- 101.98	70.25
13.021	13.021 (0.902)	131	969469			38.71- 98.71	67.88
114 2-Hexanone					CAS #: 591-78-6		
13.408	13.436 (0.929)	58	1352536	50.0387	50.039	80.00- 120.00	100.00
13.408	13.436 (0.929)	43	2751703			179.15- 239.15	203.45
13.436	13.436 (0.931)	100	226629			0.00- 30.00	16.76
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	1586193	49.5000	49.500	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	1242054			0.00- 30.00	78.30
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1600498	45.1938	45.194	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	1475293			63.77- 123.77	92.18
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	2473811	45.5975	45.598	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	779316			3.02- 63.02	31.50
14.486	14.486 (1.004)	77	1550468			33.09- 93.09	62.68
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	1341287	48.7085	48.708	80.00- 120.00	100.00
14.625	14.625 (1.013)	91	4433308			0.00- 30.00	330.53
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1623382	46.1399	46.140	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	3591069			0.00- 30.00	221.21
132 o-Xylene					CAS #: 95-47-6		
15.343	15.371 (1.063)	106	1585512	46.9441	46.944	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)							
15.343	15.343 (1.063)	91	3508853			185.59- 245.59	221.31
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	2733346	47.0809	47.081	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	1389906			24.42- 84.42	50.85
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	1613802	56.4294	56.429	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	832393			22.63- 82.63	51.58
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	2371610	47.8118	47.812	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	1435522			31.68- 91.68	60.53
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	4677059	49.1312	49.131	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	1339657			0.07- 60.07	28.64
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	4236221	44.7021	44.702	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	2009018			0.00- 30.00	47.42
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	4103840	47.4243	47.424	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1732036			11.23- 71.23	42.21
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.362 (1.201)	146	2432447	47.7520	47.752	80.00- 120.00	100.00
17.334	17.362 (1.201)	148	1522908			0.00- 30.00	62.61
17.334	17.334 (1.201)	111	1106073			0.00- 30.00	45.47
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	3049682	46.7186	46.718	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	1938648			0.00- 30.00	63.57
17.445	17.445 (1.209)	111	1284065			0.00- 30.00	42.10
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.583	17.611 (1.218)	91	3653894	58.0387	58.039	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	686863			0.00- 30.00	18.80
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	2695887	47.0801	47.080	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	1666529			32.65- 92.65	61.82
17.804	17.804 (1.234)	111	1208417			17.73- 77.73	44.82

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	2029837	44.9518	44.952	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1964780			65.55- 125.55	96.79
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	1977685	47.3286	47.328	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	1265251			33.67- 93.67	63.98
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	6390408	52.4214	52.421	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	1346407			0.00- 30.00	21.07
16.366	16.366 (1.134)	105	222136			0.00- 30.00	3.48
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	5146473	47.8055	47.805	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	1260743			0.00- 30.00	24.50
15.841	15.841 (1.098)	51	641663			0.00- 30.00	12.47
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	4307109	47.6045	47.604	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	547348			0.00- 30.00	12.71
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	1607254	46.1249	46.125	80.00- 120.00	100.00
4.809	4.809 (0.667)	41	416032			0.00- 30.00	25.88
4.809	4.809 (0.667)	57	171330			0.00- 30.00	10.66
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	230493	44.6510	44.651	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1987690			0.00- 30.00	862.36
15 Isopentane					CAS #: 78-78-4		
2.846	2.874 (0.394)	43	1678592	45.3818	45.382	80.00- 120.00	100.00
2.846	2.874 (0.394)	57	1012860			0.00- 30.00	60.34
2.874	2.874 (0.398)	72	101184			0.00- 30.00	6.03
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.731 (1.345)	83	1921228	44.5635	44.564	80.00- 120.00	100.00
9.703	9.731 (1.345)	98	866600			0.00- 30.00	45.11
9.703	9.731 (1.345)	55	1921532			0.00- 30.00	100.02

Report Date: 11-Mar-2008 12:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8031006.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-10mar.b/t14q307a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 10-MAR-2008
Calibration Time: 12:53
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	406383	243830	568936	335406	-17.47
88 1,4-Difluorobenze	1823270	1093962	2552578	1531784	-15.99
125 Chlorobenzene-d5	1101562	660937	1542187	937283	-14.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.21	-0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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: 11-Mar-2008 12:47

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-10mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: cb
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-10mar.b/t14q307a.m
Misc Info: 50ppbv (200ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	47.081	94.16	70-130
108 trans-1,3-Dichloro	50.000	53.079	106.16	70-130
3 Propylene	50.000	50.592	101.18	60-140
4 Dichlorodifluorome	50.000	44.537	89.07	70-130
6 Freon 114	50.000	43.731	87.46	70-130
8 Chloromethane	50.000	44.906	89.81	70-130
11 Vinyl Chloride	50.000	42.965	85.93	70-130
10 1,3-Butadiene	50.000	43.883	87.77	60-140
13 Bromomethane	50.000	48.010	96.02	70-130
16 Chloroethane	50.000	46.915	93.83	70-130
18 Trichlorofluoromet	50.000	44.730	89.46	70-130
23 Ethanol	50.000	49.499	99.00	60-140
28 Freon 113	50.000	49.439	98.88	70-130
29 1,1-Dichloroethene	50.000	47.162	94.32	70-130
30 Acetone	50.000	46.317	92.63	60-140
33 Carbon Disulfide	50.000	45.560	91.12	60-140
34 2-Propanol	50.000	49.764	99.53	60-140
40 Methylene Chloride	50.000	46.945	93.89	70-130
43 MTBE	50.000	53.313	106.63	60-140
45 trans-1,2-Dichloro	50.000	45.041	90.08	60-140
46 Hexane	50.000	46.364	92.73	60-140
54 1,1-Dichloroethane	50.000	48.829	97.66	70-130
55 Vinyl Acetate	50.000	49.576	99.15	60-140
64 cis-1,2-Dichloroet	50.000	46.024	92.05	70-130
65 2-Butanone	50.000	47.046	94.09	60-140
67 Tetrahydrofuran	50.000	43.353	86.71	60-140
70 Chloroform	50.000	43.924	87.85	70-130
73 Cyclohexane	50.000	45.401	90.80	60-140
75 1,1,1-Trichloroeth	50.000	45.396	90.79	70-130
77 Carbon Tetrachlori	50.000	49.684	99.37	70-130
81 Benzene	50.000	42.340	84.68	70-130
83 1,2-Dichloroethane	50.000	48.072	96.14	70-130
85 Heptane	50.000	43.061	86.12	60-140

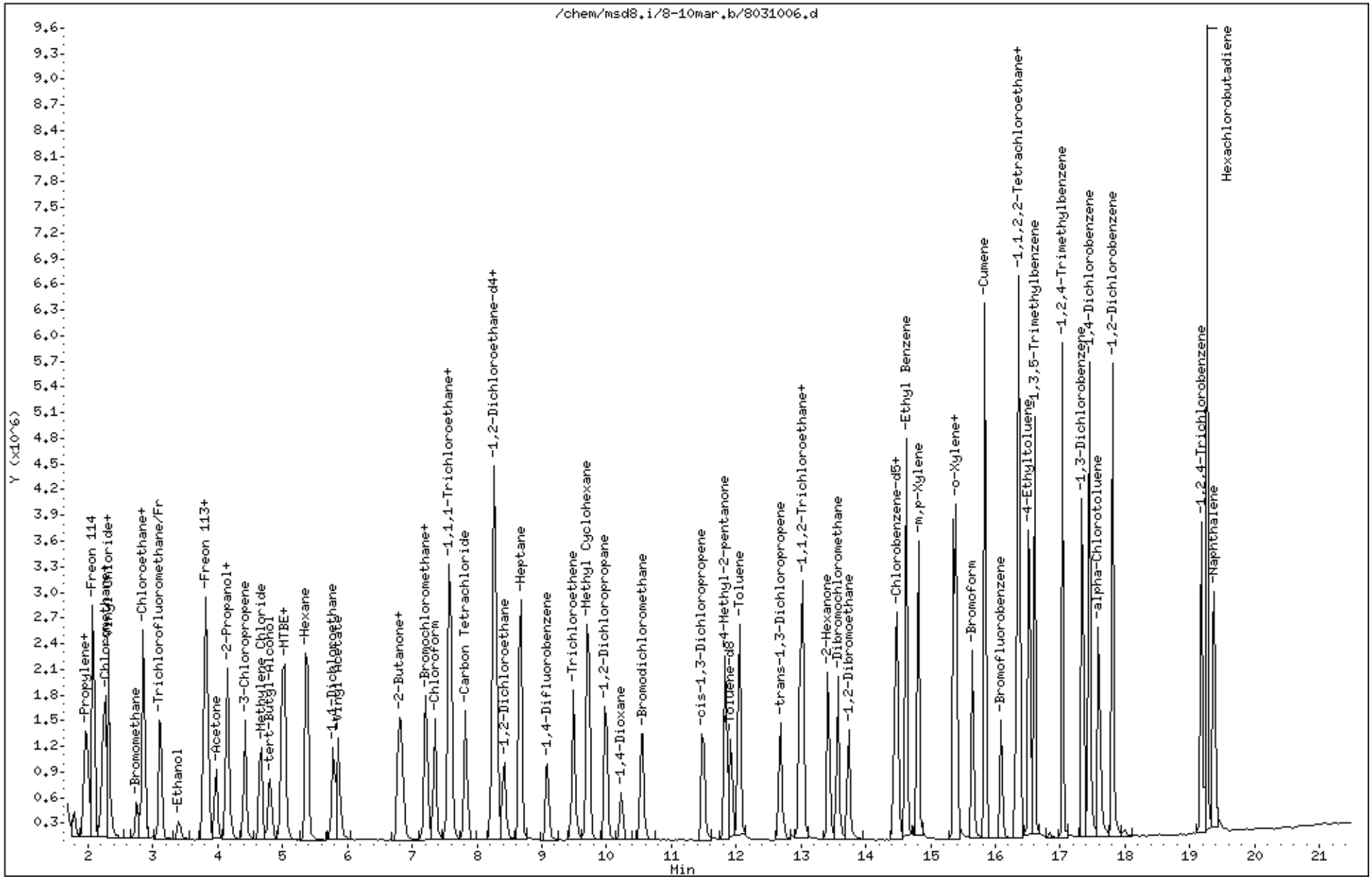
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	42.719	85.44	70-130
97 1,2-Dichloropropan	50.000	42.984	85.97	70-130
98 1,4-Dioxane	50.000	48.581	97.16	60-140
100 Bromodichlorometha	50.000	46.490	92.98	60-140
102 cis-1,3-Dichloropr	50.000	44.774	89.55	70-130
103 4-Methyl-2-pentano	50.000	44.464	88.93	60-140
105 Toluene	50.000	48.567	97.13	70-130
110 1,1,2-Trichloroeth	50.000	48.662	97.32	70-130
112 Tetrachloroethene	50.000	47.013	94.03	70-130
114 2-Hexanone	50.000	50.039	100.08	60-140
116 Dibromochlorometha	50.000	49.500	99.00	60-140
117 1,2-Dibromoethane	50.000	45.194	90.39	70-130
126 Chlorobenzene	50.000	45.598	91.20	70-130
129 Ethyl Benzene	50.000	48.708	97.42	70-130
130 m,p-Xylene	50.000	46.140	92.28	70-130
132 o-Xylene	50.000	46.944	93.89	70-130
135 Bromoform	50.000	56.429	112.86	60-140
144 1,1,2,2-Tetrachlor	50.000	47.812	95.62	70-130
147 4-Ethyltoluene	50.000	49.131	98.26	60-140
148 1,3,5-Trimethylben	50.000	44.702	89.40	70-130
153 1,2,4-Trimethylben	50.000	47.424	94.85	70-130
156 1,3-Dichlorobenzen	50.000	47.752	95.50	70-130
157 1,4-Dichlorobenzen	50.000	46.718	93.44	70-130
158 alpha-Chlorotoluen	50.000	58.039	116.08	70-130
161 1,2-Dichlorobenzen	50.000	47.080	94.16	70-130
167 1,2,4-Trichloroben	50.000	44.952	89.90	70-130
168 Hexachlorobutadien	50.000	47.328	94.66	70-130
137 Cumene	50.000	47.805	95.61	60-140
145 Propylbenzene	50.000	52.421	104.84	60-140
37 3-Chloropropene	50.000	52.461	104.92	60-140
80 2,2,4-Trimethylpen	50.000	45.383	90.77	60-140
169 Naphthalene	50.000	47.604	95.21	60-140
9 Butane	50.000	44.651	89.30	70-130
15 Isopentane	50.000	45.382	90.76	70-130
95 Methyl Cyclohexane	50.000	44.564	89.13	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	23.936	95.74	70-130
$ 104 Toluene-d8	25.000	24.484	97.94	70-130
$ 140 Bromofluorobenzene	25.000	25.763	103.05	70-130

Data File: /chem/msd8.i/8-10mar.b/8031006.d
Date : 10-MAR-2008 13:21
Client ID: LCS-1
Sample Info: 50mL #1576-259

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030711.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 07-MAR-2008 16:29
Operator : cb Inst ID: msd8.i
Smp Info : 0.2mL #1576-271
Misc Info : 0.2ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:25 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 16:29 Cal File: 8030711.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
* 68 Bromochloromethane						CAS #: 74-97-5		
7.242	7.242 (1.000)	130	376174	25.0000		70.00- 130.00		100.00
7.242	7.242 (1.000)	128	288439			51.10- 111.10		76.68
7.215	7.215 (1.000)	49	812633			190.11- 250.11		216.03
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1637174	25.0000		70.00- 130.00		100.00
9.095	9.095 (1.000)	88	280740			0.00- 46.84		17.15
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	980439	25.0000		70.00- 130.00		100.00
14.431	14.431 (1.000)	82	646995			0.00- 30.00		65.99
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.293	8.293 (1.145)	65	634101	25.0000	25.000	70.00- 130.00		100.00
8.293	8.293 (1.145)	67	317182			0.00- 30.00		50.02
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1524123	25.0000	25.000	70.00- 130.00		100.00
11.915	11.915 (1.310)	70	168970			0.00- 30.00		11.09

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	1013561			0.00- 30.00	66.50
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	606986	25.0000	25.000	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	857966			98.22- 158.22	141.35
16.090	16.090 (1.115)	176	583199			66.33- 126.33	96.08
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.015)	83	12945	0.20000	0.2000	70.00- 130.00	100.00(a)
7.380	7.380 (1.019)	85	8836			31.36- 91.36	68.26
81 Benzene					CAS #: 71-43-2		
8.265	8.265 (0.909)	78	19854	0.20000	0.2000	70.00- 130.00	100.00(a)
8.265	8.265 (0.909)	77	6633			0.00- 30.00	33.41
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	15403	0.20000	0.2000	70.00- 130.00	100.00(a)
15.399	15.399 (1.067)	78	8588			24.12- 84.12	55.76
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	26884	0.20000	0.2000	70.00- 130.00	100.00(a)
15.841	15.841 (1.098)	120	13215			0.00- 30.00	49.16
15.841	15.841 (1.098)	51	5896			0.00- 30.00	21.93

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030711.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 0.2ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	376174	28.39
88 1,4-Difluorobenze	1382376	829426	1935326	1637174	18.43
125 Chlorobenzene-d5	855859	513515	1198203	980439	14.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.24	0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

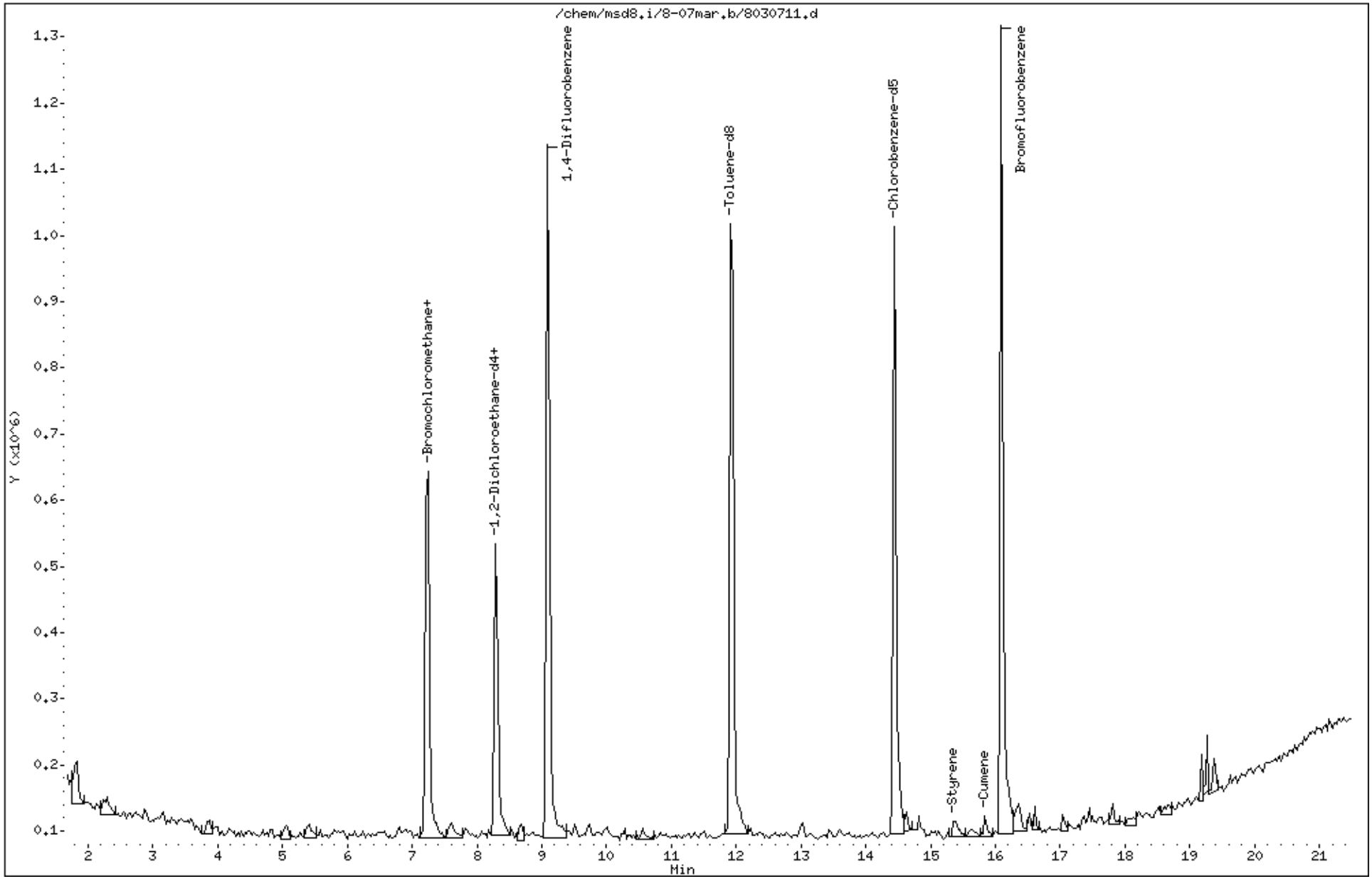
0089

Data File: /chem/msd8.i/8-07mar.b/8030711.d
Date : 07-MAR-2008 16:29
Client ID: Level 1
Sample Info: 0.2mL #1576-271

Column phase: RTx-624

Instrument: msd8.i

Operator: cb
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030712.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 07-MAR-2008 16:56
Operator : cb Inst ID: msd8.i
Smp Info : 0.5mL #1576-271
Misc Info : 0.5ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:25 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 16:56 Cal File: 8030712.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08Low.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	304799	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	226013			51.10- 111.10	74.15
7.214	7.214 (1.000)	49	661386			190.11- 250.11	216.99
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1369987	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	221874			0.00- 46.84	16.20
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	862807	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	548145			0.00- 30.00	63.53
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	525867	25.0000	25.290	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	260808			0.00- 30.00	49.60
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1321876	25.0000	25.447	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	144330			0.00- 30.00	10.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	827112			0.00- 30.00	62.57
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	511006	25.0000	24.446	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	707744			98.22- 158.22	138.50
16.090	16.090 (1.115)	176	498162			66.33- 126.33	97.49
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	25282	0.50000	0.5000	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	5792			0.00- 30.00	22.91
6 Freon 114					CAS #: 76-14-2		
2.127	2.127 (0.295)	135	20400	0.50000	0.5000	70.00- 130.00	100.00
2.127	2.127 (0.295)	137	7930			0.77- 60.77	38.87
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.325)	62	16586	0.50000	0.5000	70.00- 130.00	100.00
2.348	2.348 (0.325)	64	4852			0.00- 30.00	29.25
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	12517	0.50000	0.5000	70.00- 130.00	100.00
2.321	2.321 (0.322)	39	26067			0.00- 30.00	208.25
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	9369	0.50000	0.5000	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	7903			62.53- 122.53	84.35
16 Chloroethane					CAS #: 75-00-3		
2.874	2.874 (0.398)	64	6980	0.50000	0.5000	70.00- 130.00	100.00
2.874	2.874 (0.398)	49	1965			0.00- 30.00	28.15
2.846	2.846 (0.394)	66	1216			0.00- 30.00	17.42
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	30077	0.50000	0.5000	70.00- 130.00	100.00
3.122	3.122 (0.433)	103	18801			33.78- 93.78	62.51
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	18788	0.50000	0.5000	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	10866			31.42- 91.42	57.83
3.814	3.814 (0.529)	101	23035			106.14- 166.14	122.60
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	24860	0.50000	0.5000	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	13368			18.83- 78.83	53.77
3.841	3.841 (0.532)	98	13441			1.92- 61.92	54.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.578)	76	36393	0.50000	0.5000	70.00- 130.00	100.00
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	19677	0.50000	0.5000	70.00- 130.00	100.00
4.671	4.671 (0.647)	84	10128			24.35- 84.35	51.47
4.698	4.698 (0.651)	51	8295			0.00- 30.00	42.16
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	23833	0.50000	0.5000	70.00- 130.00	100.00
5.003	5.003 (0.693)	57	8475			0.00- 57.94	35.56
5.003	5.003 (0.693)	41	11428			0.00- 30.00	47.95
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	13786	0.50000	0.5000	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	25463			150.61- 210.61	184.70
5.030	5.030 (0.697)	98	15305			0.00- 30.00	111.02
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	24957	0.50000	0.5000	70.00- 130.00	100.00
5.390	5.390 (0.747)	43	20364			0.00- 30.00	81.60
5.362	5.362 (0.743)	86	5877			0.00- 30.00	23.55
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.805)	63	23799	0.50000	0.5000	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	8913			0.89- 60.89	37.45
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	6061	0.50000	0.5000	70.00- 130.00	100.00
6.883	6.883 (0.954)	43	35880			517.48- 577.48	591.98
6.744	6.744 (0.935)	57	2700			0.00- 30.00	44.55
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	20328	0.50000	0.5000	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	12898			31.12- 91.12	63.45
6.800	6.800 (0.942)	98	7361			8.63- 68.63	36.21
67 Tetrahydrofuran					CAS #: 109-99-9		
7.242	7.242 (1.004)	42	22638	0.50000	0.5000	70.00- 130.00	100.00
7.242	7.242 (1.004)	71	10824			0.00- 57.82	47.81
7.214	7.214 (1.000)	72	6974			0.00- 30.00	30.81
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	25447	0.50000	0.4925	70.00- 130.00	100.00(a)
7.353	7.353 (1.019)	85	13013			31.36- 91.36	51.14

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		
7.602	7.602 (1.054)	97	27230	0.50000	0.5000	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	15996			34.31- 94.31	58.74
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	19569	0.50000	0.5000	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	27813			115.63- 175.63	142.13
7.574	7.574 (1.050)	41	18763			59.16- 119.16	95.88
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	17741	0.50000	0.5000	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	17218			74.65- 134.65	97.05
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	45257	0.50000	0.5214	70.00- 130.00	100.00
8.265	8.265 (0.909)	77	9114			0.00- 30.00	20.14
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	15508	0.50000	0.5000	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	11107			0.00- 30.00	71.62
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	5492	0.50000	0.5000	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	32338			0.00- 30.00	588.82
8.680	8.680 (0.954)	71	13905			0.00- 30.00	253.19
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	18129	0.50000	0.5000	70.00- 130.00	100.00
9.509	9.509 (1.046)	130	15156			61.96- 121.96	83.60
9.482	9.482 (1.043)	97	10816			34.32- 94.32	59.66
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	19101	0.50000	0.5000	70.00- 130.00	100.00
9.979	9.979 (1.097)	62	11316			38.59- 98.59	59.24
9.979	9.979 (1.097)	41	14411			38.06- 98.06	75.45
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	22508	0.50000	0.5000	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	16505			30.64- 90.64	73.33
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	22749	0.50000	0.5000	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	6252			1.21- 61.21	27.48
11.500	11.500 (1.264)	39	12967			40.75- 100.75	57.00
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	15479	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
103 4-Methyl-2-pentanone (continued)							
11.832	11.832 (1.301)	43	53590			0.00- 30.00	346.21
11.832	11.832 (1.301)	85	5927			0.00- 30.00	38.29
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	38769	0.50000	0.5000	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	19815			30.45- 90.45	51.11
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	11343	0.50000	0.5000	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	4227			2.64- 62.64	37.27
12.689	12.689 (0.879)	39	10221			39.55- 99.55	90.11
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	11412	0.50000	0.5000	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	7956			32.84- 92.84	69.72
12.966	12.966 (0.898)	83	14906			56.96- 116.96	130.62
112 Tetrachloroethene					CAS #: 127-18-4		
13.049	13.049 (0.904)	166	17515	0.50000	0.5000	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	14536			40.72- 100.72	82.99
13.021	13.021 (0.902)	131	13456			38.04- 98.04	76.83
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	11917	0.50000		70.00- 130.00	100.00(a)
13.436	13.436 (0.931)	43	27119			197.39- 257.39	227.57
13.408	13.408 (0.929)	100	2644			0.00- 30.00	22.19
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	20803	0.50000	0.5000	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	13683			0.00- 30.00	65.77
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	20336	0.50000	0.5000	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	17314			63.74- 123.74	85.14
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	32688	0.50000	0.5000	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	11890			1.99- 61.99	36.37
14.486	14.486 (1.004)	77	30721			33.13- 93.13	93.98
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	14466	0.50000	0.5000	70.00- 130.00	100.00
14.625	14.625 (1.013)	91	48857			0.00- 30.00	337.74
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	17942	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 m,p-Xylene (continued)							
14.818	14.818 (1.027)	91	41582			0.00- 30.00	231.76
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	19657	0.50000	0.5000	70.00- 130.00	100.00
15.343	15.343 (1.063)	91	38472			194.61- 254.61	195.72
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	29817	0.50000	0.4680	70.00- 130.00	100.00(a)
15.399	15.399 (1.067)	78	14977			24.12- 84.12	50.23
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	14048	0.50000	0.5000	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	9783			20.77- 80.77	69.64
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	26284	0.50000	0.5000	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	18121			30.78- 90.78	68.94
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	47157	0.50000	0.5000	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	14562			0.00- 58.20	30.88
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	55990	0.50000	0.5000	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	28906			0.00- 30.00	51.63
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	48316	0.50000	0.5000	70.00- 130.00	100.00
17.058	17.058 (1.182)	120	19966			12.59- 72.59	41.32
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	32168	0.50000	0.5000	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	16873			0.00- 30.00	52.45
17.362	17.362 (1.203)	111	10954			0.00- 30.00	34.05
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	36824	0.50000	0.5000	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	21638			0.00- 30.00	58.76
17.445	17.445 (1.209)	111	16607			0.00- 30.00	45.10
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	25294	0.50000	0.5000	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	8486			0.00- 30.00	33.55
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	30392	0.50000	0.5000	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
161 1,2-Dichlorobenzene (continued)							
17.804	17.804 (1.234)	148	24281			32.70- 92.70	79.89
17.804	17.804 (1.234)	111	16478			16.47- 76.47	54.22
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	58286	0.50000	0.4963	70.00- 130.00	100.00(a)
15.841	15.841 (1.098)	120	17586			0.00- 30.00	30.17
15.841	15.841 (1.098)	51	6170			0.00- 30.00	10.59
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	64878	0.50000	0.5000	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	12920			0.00- 30.00	19.91
16.366	16.366 (1.134)	105	3060			0.00- 30.00	4.72
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	72981	0.50000	0.5000	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	24480			0.00- 30.00	33.54
8.265	8.265 (1.146)	41	22987			0.00- 30.00	31.50
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	24129	0.50000	0.5000	70.00- 130.00	100.00
9.703	9.703 (1.345)	98	10191			0.00- 30.00	42.24
9.703	9.703 (1.345)	55	27466			0.00- 30.00	113.83

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030712.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 0.5ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	304799	4.03
88 1,4-Difluorobenze	1382376	829426	1935326	1369987	-0.90
125 Chlorobenzene-d5	855859	513515	1198203	862807	0.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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.

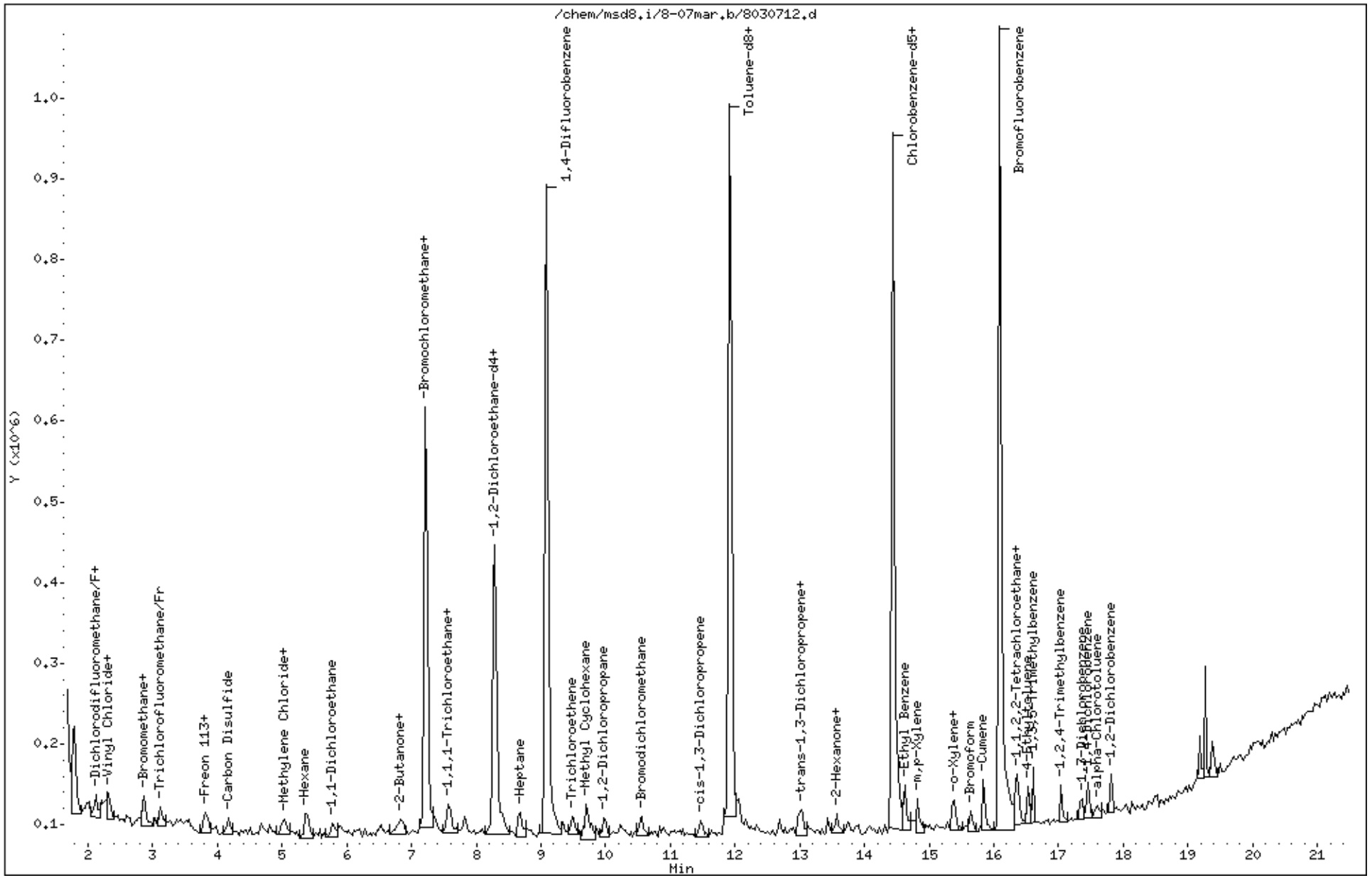
0098

Data File: /chem/msd8.i/8-07mar.b/8030712.d
Date : 07-MAR-2008 16:56
Client ID: Level 2
Sample Info: 0.5mL #1576-271

Instrument: msd8.i

Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030713.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 07-MAR-2008 17:23
Operator : cb Inst ID: msd8.i
Smp Info : 2mL #1576-271
Misc Info : 2ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:25 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 17:23 Cal File: 8030713.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.215 (1.000)	130	304321	25.0000		70.00- 130.00	100.00
7.215	7.215 (1.000)	128	228084			51.10- 111.10	74.95
7.215	7.215 (1.000)	49	677427			190.11- 250.11	222.60
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1361262	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	228442			0.00- 46.84	16.78
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	876230	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	561273			0.00- 30.00	64.06
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	516871	25.0000	24.931	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	263126			0.00- 30.00	50.91
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1282468	25.0000	24.898	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	141788			0.00- 30.00	11.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	828446			0.00- 30.00	64.60
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	522795	25.0000	24.750	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	731494			98.22- 158.22	139.92
16.090	16.090 (1.115)	176	508950			66.33- 126.33	97.35
3 Propylene					CAS #: 115-07-1		
1.961	1.961 (0.272)	41	39361	2.00000	2.000	70.00- 130.00	100.00
1.961	1.961 (0.272)	42	30940			0.00- 30.00	78.61
1.961	1.961 (0.272)	39	30422			0.00- 30.00	77.29
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	94335	2.00000	1.932	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	32539			0.00- 30.00	34.49
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	69113	2.00000	1.836	70.00- 130.00	100.00
2.127	2.127 (0.295)	137	18930			0.77- 60.77	27.39
8 Chloromethane					CAS #: 74-87-3		
2.238	2.238 (0.310)	50	56372	2.00000	2.000	70.00- 130.00	100.00(M)
2.238	2.238 (0.310)	52	25725			0.00- 30.00	45.63
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	14297	2.00000	2.000	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	107180			0.00- 30.00	749.67
11 Vinyl Chloride					CAS #: 75-01-4		
2.348	2.348 (0.325)	62	47396	2.00000	1.668	70.00- 130.00	100.00
2.348	2.348 (0.325)	64	16177			0.00- 30.00	34.13
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	41841	2.00000	1.822	70.00- 130.00	100.00
2.321	2.321 (0.322)	39	53811			0.00- 30.00	128.61
13 Bromomethane					CAS #: 74-83-9		
2.763	2.763 (0.383)	94	26003	2.00000	1.640	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	27769			62.53- 122.53	106.79
16 Chloroethane					CAS #: 75-00-3		
2.874	2.874 (0.398)	64	22836	2.00000	1.801	70.00- 130.00	100.00
2.874	2.874 (0.398)	49	6266			0.00- 30.00	27.44
2.874	2.874 (0.398)	66	9277			0.00- 30.00	40.62

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.874	2.874 (0.398)	43	86235	2.00000	2.000	70.00- 130.00	100.00
2.874	2.874 (0.398)	57	47966			0.00- 30.00	55.62
2.874	2.874 (0.398)	72	6898			0.00- 30.00	8.00
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	106575	2.00000	1.880	70.00- 130.00	100.00
3.122	3.122 (0.433)	103	74371			33.78- 93.78	69.78
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	21803	2.00000	2.000	70.00- 130.00	100.00
3.371	3.371 (0.467)	43	2695			0.00- 30.00	12.36
3.399	3.399 (0.471)	46	9910			0.00- 30.00	45.45
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	47673	2.00000	1.554	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	31896			31.42- 91.42	66.91
3.814	3.814 (0.529)	101	79358			106.14- 166.14	166.46
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	82015	2.00000	1.809	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	39306			18.83- 78.83	47.93
3.841	3.841 (0.532)	98	26769			1.92- 61.92	32.64
30 Acetone					CAS #: 67-64-1		
3.980	3.980 (0.552)	58	30106	2.00000	2.000	70.00- 130.00	100.00
3.980	3.980 (0.552)	43	90246			0.00- 30.00	299.76
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.578)	76	123504	2.00000	1.838	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	99608	2.00000	2.000	70.00- 130.00	100.00
4.173	4.173 (0.578)	43	26271			0.00- 30.00	26.37
4.173	4.173 (0.578)	59	4659			0.00- 30.00	4.68
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	19327	2.00000	2.000	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	65153			0.00- 30.00	337.11
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	86472	2.00000	2.000	70.00- 130.00	100.00
4.809	4.809 (0.667)	41	25002			0.00- 30.00	28.91
4.809	4.809 (0.667)	57	11647			0.00- 30.00	13.47
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	70504	2.00000	1.892	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.671	4.671 (0.647)	84	37669			24.35- 84.35	53.43
4.671	4.671 (0.647)	51	25787			0.00- 30.00	36.58
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	66552	2.00000	1.646	70.00- 130.00	100.00
5.003	5.003 (0.693)	57	22904			0.00- 57.94	34.42
5.003	5.003 (0.693)	41	31481			0.00- 30.00	47.30
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	46853	2.00000	1.839	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	82541			150.61- 210.61	176.17
5.030	5.030 (0.697)	98	34140			0.00- 30.00	72.87
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.747)	57	98431	2.00000	1.987	70.00- 130.00	100.00
5.390	5.390 (0.747)	43	73961			0.00- 30.00	75.14
5.390	5.390 (0.747)	86	15599			0.00- 30.00	15.85
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.805)	63	90284	2.00000	1.949	70.00- 130.00	100.00
5.804	5.804 (0.805)	65	27592			0.89- 60.89	30.56
55 Vinyl Acetate					CAS #: 108-05-4		
5.887	5.887 (0.816)	86	9801	2.00000	2.000	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	124645			0.00- 30.00	1271.76
5.887	5.887 (0.816)	42	9922			0.00- 30.00	101.23
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	72299	2.00000	1.884	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	46661			31.12- 91.12	64.54
6.800	6.800 (0.942)	98	29647			8.63- 68.63	41.01
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	19846	2.00000	1.802	70.00- 130.00	100.00
6.855	6.855 (0.950)	43	118153			517.48- 577.48	595.35
6.855	6.855 (0.950)	57	12210			0.00- 30.00	61.52
67 Tetrahydrofuran					CAS #: 109-99-9		
7.215	7.215 (1.000)	42	77110	2.00000	1.841	70.00- 130.00	100.00
7.215	7.215 (1.000)	71	22447			0.00- 57.82	29.11
7.215	7.215 (1.000)	72	24959			0.00- 30.00	32.37
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	84190	2.00000	1.739	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	55479			31.36- 91.36	65.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	67624	2.00000	1.856	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	105449			115.63- 175.63	155.93
7.574	7.574 (1.050)	41	64624			59.16- 119.16	95.56
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	80937	2.00000	1.707	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	58441			34.31- 94.31	72.21
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	69236	2.00000	1.977	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	67590			74.65- 134.65	97.62
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	143762	2.00000	1.765	70.00- 130.00	100.00
8.238	8.238 (0.906)	77	33594			0.00- 30.00	23.37
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	303339	2.00000	2.040	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	85849			0.00- 30.00	28.30
8.293	8.293 (1.149)	41	82684			0.00- 30.00	27.26
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	62733	2.00000	2.018	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	26150			0.00- 30.00	41.68
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	13812	2.00000	1.550	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	115532			0.00- 30.00	836.46
8.680	8.680 (0.954)	71	49290			0.00- 30.00	356.86
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	62006	2.00000	1.850	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	49378			61.96- 121.96	79.63
9.482	9.482 (1.043)	97	35722			34.32- 94.32	57.61
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	92517	2.00000	1.959	70.00- 130.00	100.00
9.731	9.731 (1.349)	98	42299			0.00- 30.00	45.72
9.703	9.703 (1.345)	55	91077			0.00- 30.00	98.44
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	52047	2.00000	1.627	70.00- 130.00	100.00
9.979	9.979 (1.097)	62	32464			38.59- 98.59	62.37
9.979	9.979 (1.097)	41	43711			38.06- 98.06	83.98

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	27808	2.00000	2.000	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	26593			56.45- 116.45	95.63
10.228	10.228 (1.125)	57	14156			0.00- 30.00	50.91
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	86390	2.00000	1.965	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	49179			30.64- 90.64	56.93
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	58605	2.00000	1.573	70.00- 130.00	100.00
11.473	11.473 (1.261)	77	23946			1.21- 61.21	40.86
11.500	11.500 (1.264)	39	52010			40.75- 100.75	88.75
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	40852	2.00000	1.596	70.00- 130.00	100.00(M)
11.832	11.832 (1.301)	43	133733			0.00- 30.00	327.36
11.832	11.832 (1.301)	85	19108			0.00- 30.00	46.77
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	137439	2.00000	1.886	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	79237			30.45- 90.45	57.65
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	57116	2.00000	2.214	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	15252			2.64- 62.64	26.70
12.689	12.689 (0.879)	39	40917			39.55- 99.55	71.64
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	47259	2.00000	2.019	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	34934			32.84- 92.84	73.92
12.993	12.993 (0.900)	83	46719			56.96- 116.96	98.86
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	72951	2.00000	2.025	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	48108			40.72- 100.72	65.95
13.021	13.021 (0.902)	131	44621			38.04- 98.04	61.17
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	57714	2.00000	2.000	70.00- 130.00	100.00
13.436	13.436 (0.931)	43	101625			197.39- 257.39	176.08
13.436	13.436 (0.931)	100	7895			0.00- 30.00	13.68
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	59536	2.00000	1.653	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	47482			0.00- 30.00	79.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	79317	2.00000	1.959	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	75150			63.74- 123.74	94.75
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	114215	2.00000	1.850	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	34664			1.99- 61.99	30.35
14.486	14.486 (1.004)	77	82460			33.13- 93.13	72.20
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	55714	2.00000	1.947	70.00- 130.00	100.00
14.625	14.625 (1.013)	91	203490			0.00- 30.00	365.24
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	80650	2.00000	2.101	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	166162			0.00- 30.00	206.03
132 o-Xylene					CAS #: 95-47-6		
15.371	15.371 (1.065)	106	73555	2.00000	1.918	70.00- 130.00	100.00
15.343	15.343 (1.063)	91	154238			194.61- 254.61	209.69
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	111619	2.00000	1.808	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	60957			24.12- 84.12	54.61
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	53633	2.00000	1.938	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	28705			20.77- 80.77	53.52
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	226858	2.00000	1.934	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	55951			0.00- 30.00	24.66
15.841	15.841 (1.098)	51	32924			0.00- 30.00	14.51
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	107627	2.00000	2.008	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	64176			30.78- 90.78	59.63
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	253684	2.00000	1.962	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	53690			0.00- 30.00	21.16
16.366	16.366 (1.134)	105	9175			0.00- 30.00	3.62
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	195408	2.00000	2.020	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	52885			0.00- 58.20	27.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	215988	2.00000	1.948	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	100883			0.00- 30.00	46.71
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	173763	2.00000	1.878	70.00- 130.00	100.00
17.058	17.058 (1.182)	120	77032			12.59- 72.59	44.33
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	100547	2.00000	1.739	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	62874			0.00- 30.00	62.53
17.334	17.334 (1.201)	111	42433			0.00- 30.00	42.20
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	151479	2.00000	2.012	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	86224			0.00- 30.00	56.92
17.445	17.445 (1.209)	111	64423			0.00- 30.00	42.53
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	110391	2.00000	2.072	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	18864			0.00- 30.00	17.09
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	135805	2.00000	2.095	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	80839			32.70- 92.70	59.53
17.804	17.804 (1.234)	111	64142			16.47- 76.47	47.23
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	122963	2.00000	2.000	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	125334			67.03- 127.03	101.93
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	106655	2.00000	2.000	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	69600			34.11- 94.11	65.26
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	256350	2.00000	2.000	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	36069			0.00- 30.00	14.07

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030713.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 2ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	304321	3.86
88 1,4-Difluorobenze	1382376	829426	1935326	1361262	-1.53
125 Chlorobenzene-d5	855859	513515	1198203	876230	2.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	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/msd8.i/8-07mar.b/8030713.d

Date : 07-MAR-2008 17:23

Client ID: Level 3

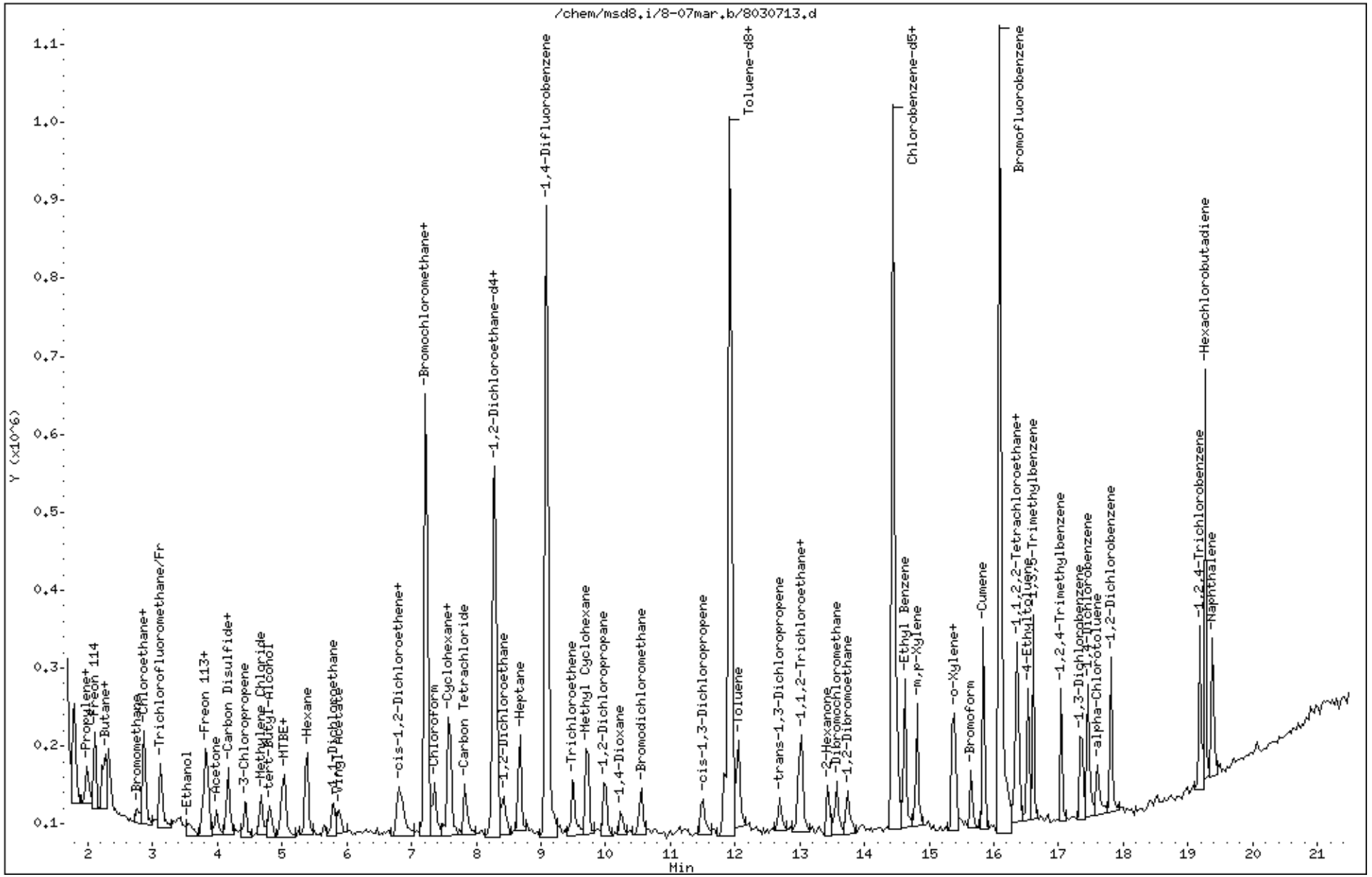
Sample Info: 2mL #1576-271

Column phase: RTx-624

Instrument: msd8.i

Operator: cb

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030714.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 07-MAR-2008 17:51
Operator : cb Inst ID: msd8.i
Smp Info : 25mL #1576-271
Misc Info : 25ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:25 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 17:51 Cal File: 8030714.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane					CAS #: 74-97-5			
7.214	7.214 (1.000)	130	302566	25.0000		70.00- 130.00		100.00
7.214	7.214 (1.000)	128	220336			51.10- 111.10		72.82
7.214	7.214 (1.000)	49	671991			190.11- 250.11		222.10
* 88 1,4-Difluorobenzene					CAS #: 540-36-3			
9.095	9.095 (1.000)	114	1368507	25.0000		70.00- 130.00		100.00
9.095	9.095 (1.000)	88	234371			0.00- 46.84		17.13
* 125 Chlorobenzene-d5					CAS #: 3114-55-4			
14.431	14.431 (1.000)	117	876601	25.0000		70.00- 130.00		100.00
14.431	14.431 (1.000)	82	548146			0.00- 30.00		62.53
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
8.265	8.265 (1.146)	65	515962	25.0000	25.024	70.00- 130.00		100.00
8.293	8.293 (1.149)	67	284424			0.00- 30.00		55.12
$ 104 Toluene-d8					CAS #: 2037-26-5			
11.915	11.915 (1.310)	98	1312705	25.0000	25.262	70.00- 130.00		100.00
11.915	11.915 (1.310)	70	148497			0.00- 30.00		11.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	989517			0.00- 30.00	75.38
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	563690	25.0000	26.235	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	728118			98.22- 158.22	129.17
16.090	16.090 (1.115)	176	531361			66.33- 126.33	94.26
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	443552	25.0000	23.777	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	291554			0.00- 30.00	65.73
1.933	1.933 (0.268)	39	331174			0.00- 30.00	74.66
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.961	1.961 (0.272)	85	1145932	25.0000	24.053	70.00- 130.00	100.00
1.961	1.961 (0.272)	87	323356			0.00- 30.00	28.22
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.287)	135	689326	25.0000	20.189	70.00- 130.00	100.00
2.072	2.072 (0.287)	137	215351			0.77- 60.77	31.24
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.302)	50	502265	25.0000	20.878	70.00- 130.00	100.00
2.182	2.182 (0.302)	52	147149			0.00- 30.00	29.30
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	100256	25.0000	18.036	70.00- 130.00	100.00
2.238	2.238 (0.310)	43	939010			0.00- 30.00	936.61
11 Vinyl Chloride					CAS #: 75-01-4		
2.320	2.320 (0.322)	62	494662	25.0000	19.455	70.00- 130.00	100.00
2.320	2.320 (0.322)	64	157612			0.00- 30.00	31.86
10 1,3-Butadiene					CAS #: 106-99-0		
2.320	2.320 (0.322)	54	427600	25.0000	20.442	70.00- 130.00	100.00
2.320	2.320 (0.322)	39	573814			0.00- 30.00	134.19
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.379)	94	308781	25.0000	21.112	70.00- 130.00	100.00
2.735	2.735 (0.379)	96	303981			62.53- 122.53	98.45
16 Chloroethane					CAS #: 75-00-3		
2.818	2.818 (0.391)	64	252822	25.0000	21.472	70.00- 130.00	100.00
2.818	2.818 (0.391)	49	87165			0.00- 30.00	34.48
2.818	2.818 (0.391)	66	79614			0.00- 30.00	31.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	814089	25.0000	21.584	70.00- 130.00	100.00
2.846	2.846 (0.394)	57	504631			0.00- 30.00	61.99
2.846	2.846 (0.394)	72	47631			0.00- 30.00	5.85
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.429)	101	1069357	25.0000	20.635	70.00- 130.00	100.00
3.095	3.095 (0.429)	103	684065			33.78- 93.78	63.97
23 Ethanol					CAS #: 64-17-5		
3.371	3.371 (0.467)	45	239190	25.0000	23.443	70.00- 130.00	100.00
3.399	3.399 (0.471)	43	46850			0.00- 30.00	19.59
3.371	3.371 (0.467)	46	86012			0.00- 30.00	35.96
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	551831	25.0000	19.928	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	342439			31.42- 91.42	62.06
3.786	3.786 (0.525)	101	780479			106.14- 166.14	141.43
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	792749	25.0000	19.520	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	377313			18.83- 78.83	47.60
3.841	3.841 (0.532)	98	233809			1.92- 61.92	29.49
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	259330	25.0000	20.468	70.00- 130.00	100.00
3.979	3.979 (0.552)	43	958064			0.00- 30.00	369.44
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	1258538	25.0000	20.521	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.145	4.145 (0.575)	45	1075575	25.0000	23.246	70.00- 130.00	100.00
4.145	4.145 (0.575)	43	245039			0.00- 30.00	22.78
4.145	4.145 (0.575)	59	36492			0.00- 30.00	3.39
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	216048	25.0000	23.677	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	854500			0.00- 30.00	395.51
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	866268	25.0000	22.316	70.00- 130.00	100.00
4.809	4.809 (0.667)	41	247083			0.00- 30.00	28.52
4.809	4.809 (0.667)	57	91916			0.00- 30.00	10.61
40 Methylene Chloride					CAS #: 75-09-2		
4.643	4.643 (0.644)	49	644893	25.0000	19.364	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.671	4.671 (0.647)	84	365063			24.35- 84.35	56.61
4.643	4.643 (0.644)	51	189051			0.00- 30.00	29.32
43 MTBE					CAS #: 1634-04-4		
5.002	5.002 (0.693)	73	1110966	25.0000	26.697	70.00- 130.00	100.00
5.002	5.002 (0.693)	57	319727			0.00- 57.94	28.78
4.975	4.975 (0.690)	41	350058			0.00- 30.00	31.51
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	447082	25.0000	19.567	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	814727			150.61- 210.61	182.23
5.030	5.030 (0.697)	98	294265			0.00- 30.00	65.82
46 Hexane					CAS #: 110-54-3		
5.362	5.362 (0.743)	57	1003749	25.0000	21.721	70.00- 130.00	100.00
5.362	5.362 (0.743)	43	693991			0.00- 30.00	69.14
5.362	5.362 (0.743)	86	120214			0.00- 30.00	11.98
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	946617	25.0000	21.846	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	284644			0.89- 60.89	30.07
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	103806	25.0000	23.005	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	1551954			0.00- 30.00	1495.05
5.860	5.860 (0.812)	42	125700			0.00- 30.00	121.09
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	714466	25.0000	20.437	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	446304			31.12- 91.12	62.47
6.800	6.800 (0.942)	98	275234			8.63- 68.63	38.52
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.950)	72	231872	25.0000	22.314	70.00- 130.00	100.00
6.827	6.827 (0.946)	43	1276825			517.48- 577.48	550.66
6.855	6.855 (0.950)	57	90043			0.00- 30.00	38.83
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	761426	25.0000	20.084	70.00- 130.00	100.00
7.214	7.214 (1.000)	71	206465			0.00- 57.82	27.12
7.214	7.214 (1.000)	72	224822			0.00- 30.00	29.53
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	868148	25.0000	19.383	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	524950			31.36- 91.36	60.47

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	682721	25.0000	20.527	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	981620			115.63- 175.63	143.78
7.574	7.574 (1.050)	41	618309			59.16- 119.16	90.57
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	870077	25.0000	20.219	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	579652			34.31- 94.31	66.62
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	737249	25.0000	22.311	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	727187			74.65- 134.65	98.64
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	1422014	25.0000	18.801	70.00- 130.00	100.00
8.237	8.237 (0.906)	77	320143			0.00- 30.00	22.51
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.265	8.265 (1.146)	57	2986899	25.0000	21.584	70.00- 130.00	100.00
8.265	8.265 (1.146)	56	958859			0.00- 30.00	32.10
8.265	8.265 (1.146)	41	864284			0.00- 30.00	28.94
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	679775	25.0000	22.733	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	201983			0.00- 30.00	29.71
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	156276	25.0000	19.400	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	1199558			0.00- 30.00	767.59
8.680	8.680 (0.954)	71	522284			0.00- 30.00	334.21
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	568688	25.0000	18.928	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	512081			61.96- 121.96	90.05
9.482	9.482 (1.043)	97	380373			34.32- 94.32	66.89
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	903657	25.0000	20.847	70.00- 130.00	100.00
9.703	9.703 (1.345)	98	395903			0.00- 30.00	43.81
9.703	9.703 (1.345)	55	904904			0.00- 30.00	100.14
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	9.979 (1.097)	63	558026	25.0000	19.321	70.00- 130.00	100.00
9.979	9.979 (1.097)	62	375020			38.59- 98.59	67.20
9.979	9.979 (1.097)	41	390353			38.06- 98.06	69.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	307334	25.0000	23.397	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	263623			56.45- 116.45	85.78
10.228	10.228 (1.125)	57	80239			0.00- 30.00	26.11
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	853026	25.0000	20.888	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	507420			30.64- 90.64	59.48
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.472	11.472 (1.261)	75	678381	25.0000	19.944	70.00- 130.00	100.00
11.500	11.500 (1.264)	77	212169			1.21- 61.21	31.28
11.472	11.472 (1.261)	39	488781			40.75- 100.75	72.05
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	485349	25.0000	20.544	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	1398469			0.00- 30.00	288.14
11.832	11.832 (1.301)	85	182179			0.00- 30.00	37.54
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	1469416	25.0000	21.470	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	888834			30.45- 90.45	60.49
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	666038	25.0000	25.532	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	211077			2.64- 62.64	31.69
12.689	12.689 (0.879)	39	451729			39.55- 99.55	67.82
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	503534	25.0000	22.556	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	320070			32.84- 92.84	63.56
12.993	12.993 (0.900)	83	429048			56.96- 116.96	85.21
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	647935	25.0000	19.835	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	451853			40.72- 100.72	69.74
13.021	13.021 (0.902)	131	431771			38.04- 98.04	66.64
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	631055	25.0000	23.324	70.00- 130.00	100.00
13.408	13.408 (0.929)	43	1338467			197.39- 257.39	212.10
13.436	13.436 (0.931)	100	103510			0.00- 30.00	16.40
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	682127	25.0000	20.600	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	529624			0.00- 30.00	77.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	774222	25.0000	20.744	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	729030			63.74- 123.74	94.16
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	1225039	25.0000	21.298	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	389415			1.99- 61.99	31.79
14.486	14.486 (1.004)	77	765011			33.13- 93.13	62.45
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	629779	25.0000	22.914	70.00- 130.00	100.00
14.624	14.624 (1.013)	91	2093317			0.00- 30.00	332.39
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	797174	25.0000	22.004	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	1618732			0.00- 30.00	203.06
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	734499	25.0000	20.765	70.00- 130.00	100.00
15.343	15.343 (1.063)	91	1599863			194.61- 254.61	217.82
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	1293329	25.0000	21.827	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	669054			24.12- 84.12	51.73
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	649259	25.0000	23.945	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	333888			20.77- 80.77	51.43
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	2333569	25.0000	20.955	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	602112			0.00- 30.00	25.80
15.841	15.841 (1.098)	51	300264			0.00- 30.00	12.87
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	1104529	25.0000	21.882	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	671863			30.78- 90.78	60.83
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	2875765	25.0000	23.083	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	584528			0.00- 30.00	20.33
16.366	16.366 (1.134)	105	95515			0.00- 30.00	3.32
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	2157089	25.0000	23.124	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	613722			0.00- 58.20	28.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	2019835	25.0000	20.024	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	956896			0.00- 30.00	47.37
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	1906376	25.0000	21.883	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	794422			12.59- 72.59	41.67
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.334 (1.201)	146	1083210	25.0000	20.439	70.00- 130.00	100.00
17.362	17.362 (1.203)	148	679227			0.00- 30.00	62.71
17.334	17.334 (1.201)	111	513638			0.00- 30.00	47.42
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	1404754	25.0000	20.380	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	894477			0.00- 30.00	63.67
17.445	17.445 (1.209)	111	613579			0.00- 30.00	43.68
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	1457652	25.0000	26.515	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	253719			0.00- 30.00	17.41
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	1234218	25.0000	20.679	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	770658			32.70- 92.70	62.44
17.804	17.804 (1.234)	111	576746			16.47- 76.47	46.73
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	990369	25.0000	19.588	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	928851			67.03- 127.03	93.79
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	903995	25.0000	20.199	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	594174			34.11- 94.11	65.73
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	1822509	25.0000	18.123	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	229920			0.00- 30.00	12.62

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030714.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 25ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	302566	3.26
88 1,4-Difluorobenze	1382376	829426	1935326	1368507	-1.00
125 Chlorobenzene-d5	855859	513515	1198203	876601	2.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

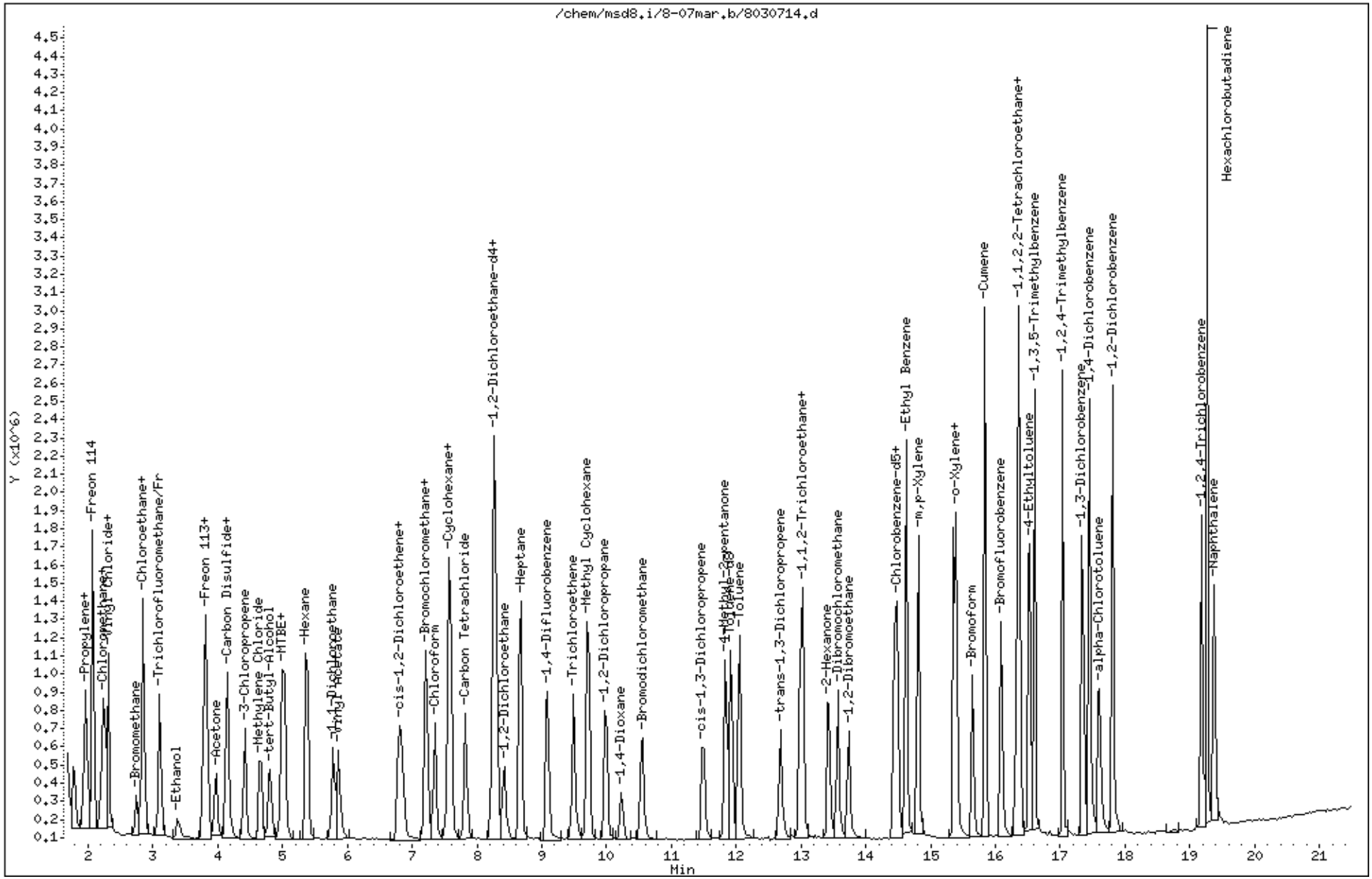
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd8.i/8-07mar.b/8030714.d
Date : 07-MAR-2008 17:51
Client ID: Level 4
Sample Info: 25mL #1576-271

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624

0118



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030715.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 07-MAR-2008 18:18
Operator : cb Inst ID: msd8.i
Smp Info : 50mL #1576-271
Misc Info : 50ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:26 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 18:18 Cal File: 8030715.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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
==	====== ========	====	========	=======	=======	==========		=====
* 68 Bromochloromethane						CAS #: 74-97-5		
7.214	7.214 (1.000)	130	293004	25.0000		80.00- 120.00		100.00
7.214	7.214 (1.000)	128	237625			51.10- 111.10		81.10
7.214	7.214 (1.000)	49	644927			190.11- 250.11		220.11
* 88 1,4-Difluorobenzene						CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1382376	25.0000		80.00- 120.00		100.00
9.095	9.095 (1.000)	88	232812			0.00- 46.84		16.84
* 125 Chlorobenzene-d5						CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	855859	25.0000		80.00- 120.00		100.00
14.431	14.431 (1.000)	82	555947			34.96- 94.96		64.96
$ 82 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
8.265	8.265 (1.146)	65	532540	25.0000	26.319	80.00- 120.00		100.00
8.265	8.265 (1.146)	67	296046			25.59- 85.59		55.59
$ 104 Toluene-d8						CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1296964	25.0000	24.766	80.00- 120.00		100.00
11.915	11.915 (1.310)	70	141565			0.00- 40.92		10.92

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	940372			42.51- 102.51	72.51
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	551325	25.0000	26.015	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	706936			98.22- 158.22	128.22
16.090	16.090 (1.115)	176	531069			66.33- 126.33	96.33
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	843359	50.0000	47.740	80.00- 120.00	100.00
1.933	1.933 (0.268)	42	534616			33.39- 93.39	63.39
1.933	1.933 (0.268)	39	605685			41.82- 101.82	71.82
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	2020642	50.0000	45.199	80.00- 120.00	100.00
1.989	1.989 (0.276)	87	632745			1.31- 61.31	31.31
6 Freon 114					CAS #: 76-14-2		
2.072	2.072 (0.287)	135	1234198	50.0000	39.852	80.00- 120.00	100.00
2.072	2.072 (0.287)	137	379819			0.77- 60.77	30.77
8 Chloromethane					CAS #: 74-87-3		
2.182	2.182 (0.302)	50	1008309	50.0000	45.311	80.00- 120.00	100.00
2.182	2.182 (0.302)	52	269181			0.00- 56.70	26.70
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	197708	50.0000	40.293	80.00- 120.00	100.00
2.265	2.265 (0.314)	43	1703066			831.40- 891.40	861.40
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.321 (0.322)	62	939055	50.0000	40.543	80.00- 120.00	100.00
2.321	2.321 (0.322)	64	288797			0.75- 60.75	30.75
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	830865	50.0000	42.945	80.00- 120.00	100.00
2.321	2.321 (0.322)	39	1049855			96.36- 156.36	126.36
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.379)	94	607686	50.0000	44.482	80.00- 120.00	100.00
2.735	2.735 (0.379)	96	562275			62.53- 122.53	92.53
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	474673	50.0000	43.448	80.00- 120.00	100.00
2.846	2.846 (0.394)	49	155521			2.76- 62.76	32.76
2.846	2.846 (0.394)	66	144361			0.41- 60.41	30.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	1510755	50.0000	43.890	80.00- 120.00	100.00
2.846	2.846 (0.394)	57	935521			31.92- 91.92	61.92
2.846	2.846 (0.394)	72	84349			0.00- 35.58	5.58
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.429)	101	2000364	50.0000	41.989	80.00- 120.00	100.00
3.095	3.095 (0.429)	103	1275751			33.78- 93.78	63.78
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	435157	50.0000	45.863	80.00- 120.00	100.00
3.399	3.399 (0.471)	43	97034			0.00- 52.30	22.30
3.399	3.399 (0.471)	46	168046			8.62- 68.62	38.62
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	1034117	50.0000	40.902	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	635178			31.42- 91.42	61.42
3.786	3.786 (0.525)	101	1407824			106.14- 166.14	136.14
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1457396	50.0000	39.621	80.00- 120.00	100.00
3.841	3.841 (0.532)	96	711666			18.83- 78.83	48.83
3.841	3.841 (0.532)	98	465183			1.92- 61.92	31.92
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	481522	50.0000	42.277	80.00- 120.00	100.00
3.979	3.979 (0.552)	43	1836758			351.45- 411.45	381.45
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	2384975	50.0000	42.235	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.145	4.145 (0.575)	45	2033535	50.0000	46.825	80.00- 120.00	100.00
4.145	4.145 (0.575)	43	409439			0.00- 50.13	20.13
4.145	4.145 (0.575)	59	73068			0.00- 33.59	3.59
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	398366	50.0000	46.610	80.00- 120.00	100.00
4.422	4.422 (0.613)	41	1623401			377.51- 437.51	407.51
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	1567803	50.0000	44.147	80.00- 120.00	100.00
4.781	4.781 (0.663)	41	432123			0.00- 57.56	27.56
4.809	4.809 (0.667)	57	159886			0.00- 40.20	10.20
40 Methylene Chloride					CAS #: 75-09-2		
4.643	4.643 (0.644)	49	1233008	50.0000	40.622	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.671	4.671 (0.647)	84	670187			24.35- 84.35	54.35
4.643	4.643 (0.644)	51	366819			0.00- 59.75	29.75
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	2109318	50.0000	51.737	80.00- 120.00	100.00
5.003	5.003 (0.693)	57	589300			0.00- 57.94	27.94
5.003	5.003 (0.693)	41	668277			1.68- 61.68	31.68
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	846028	50.0000	40.626	80.00- 120.00	100.00
5.030	5.030 (0.697)	61	1528015			150.61- 210.61	180.61
5.030	5.030 (0.697)	98	537652			33.55- 93.55	63.55
46 Hexane					CAS #: 110-54-3		
5.362	5.362 (0.743)	57	1885473	50.0000	43.859	80.00- 120.00	100.00
5.362	5.362 (0.743)	43	1338436			40.99- 100.99	70.99
5.362	5.362 (0.743)	86	237455			0.00- 42.59	12.59
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	1768369	50.0000	43.865	80.00- 120.00	100.00
5.777	5.777 (0.801)	65	546229			0.89- 60.89	30.89
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	207786	50.0000	48.341	80.00- 120.00	100.00
5.860	5.860 (0.812)	43	3064532			1444.85-1504.85	1474.85
5.860	5.860 (0.812)	42	252564			91.55- 151.55	121.55
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	1353775	50.0000	42.095	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	827412			31.12- 91.12	61.12
6.800	6.800 (0.942)	98	522984			8.63- 68.63	38.63
65 2-Butanone					CAS #: 78-93-3		
6.827	6.827 (0.946)	72	446032	50.0000	45.619	80.00- 120.00	100.00
6.827	6.827 (0.946)	43	2441924			517.48- 577.48	547.48
6.827	6.827 (0.946)	57	170361			8.19- 68.19	38.19
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (1.000)	42	1452088	50.0000	41.732	80.00- 120.00	100.00
7.214	7.214 (1.000)	71	403993			0.00- 57.82	27.82
7.214	7.214 (1.000)	72	439067			0.24- 60.24	30.24
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1612992	50.0000	39.196	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	989784			31.36- 91.36	61.36

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	1264476	50.0000	41.488	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	1841503			115.63- 175.63	145.63
7.574	7.574 (1.050)	41	1127457			59.16- 119.16	89.16
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	1623501	50.0000	41.234	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	1044104			34.31- 94.31	64.31
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1382633	50.0000	44.727	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1446862			74.65- 134.65	104.65
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	2676849	50.0000	37.267	80.00- 120.00	100.00
8.238	8.238 (0.906)	77	638411			0.00- 53.85	23.85
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.265	8.265 (1.146)	57	5588243	50.0000	43.504	80.00- 120.00	100.00
8.265	8.265 (1.146)	56	1767526			1.63- 61.63	31.63
8.265	8.265 (1.146)	41	1601727			0.00- 58.66	28.66
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1286329	50.0000	44.226	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	375339			0.00- 59.18	29.18
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	301259	50.0000	39.592	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	2305392			735.25- 795.25	765.25
8.680	8.680 (0.954)	71	999210			301.68- 361.68	331.68
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	1046330	50.0000	37.377	80.00- 120.00	100.00
9.482	9.482 (1.043)	130	962244			61.96- 121.96	91.96
9.482	9.482 (1.043)	97	672988			34.32- 94.32	64.32
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	1697517	50.0000	42.469	80.00- 120.00	100.00
9.703	9.703 (1.345)	98	780197			15.96- 75.96	45.96
9.703	9.703 (1.345)	55	1702590			70.30- 130.30	100.30
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	9.979 (1.097)	63	1079266	50.0000	39.567	80.00- 120.00	100.00
9.979	9.979 (1.097)	62	740233			38.59- 98.59	68.59
9.979	9.979 (1.097)	41	734576			38.06- 98.06	68.06

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	596767	50.0000	46.534	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	515904			56.45- 116.45	86.45
10.228	10.228 (1.125)	57	167192			0.00- 58.02	28.02
100 Bromodichloromethane					CAS #: 75-27-4		
10.532	10.532 (1.158)	83	1635825	50.0000	41.818	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	992043			30.64- 90.64	60.64
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.473	11.473 (1.261)	75	1335908	50.0000	41.170	80.00- 120.00	100.00
11.473	11.473 (1.261)	77	416999			1.21- 61.21	31.21
11.473	11.473 (1.261)	39	945107			40.75- 100.75	70.75
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	938081	50.0000	41.530	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	2711647			259.06- 319.06	289.06
11.832	11.832 (1.301)	85	333964			5.60- 65.60	35.60
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	2778247	50.0000	42.261	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1679316			30.45- 90.45	60.45
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	1257274	50.0000	49.521	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	410360			2.64- 62.64	32.64
12.689	12.689 (0.879)	39	874392			39.55- 99.55	69.55
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.966	12.966 (0.898)	97	925786	50.0000	44.137	80.00- 120.00	100.00
12.966	12.966 (0.898)	99	581804			32.84- 92.84	62.84
12.966	12.966 (0.898)	83	805055			56.96- 116.96	86.96
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	1218056	50.0000	40.588	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	861393			40.72- 100.72	70.72
13.021	13.021 (0.902)	131	828713			38.04- 98.04	68.04
114 2-Hexanone					CAS #: 591-78-6		
13.408	13.408 (0.929)	58	1166363	50.0000	45.945	80.00- 120.00	100.00
13.408	13.408 (0.929)	43	2652197			197.39- 257.39	227.39
13.436	13.436 (0.931)	100	194358			0.00- 46.66	16.66
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	1315419	50.0000	42.676	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	1020382			47.57- 107.57	77.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1452813	50.0000	41.997	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	1361801			63.74- 123.74	93.74
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	2218680	50.0000	41.696	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	709831			1.99- 61.99	31.99
14.486	14.486 (1.004)	77	1400675			33.13- 93.13	63.13
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	1218626	50.0000	46.479	80.00- 120.00	100.00
14.625	14.625 (1.013)	91	3982683			296.82- 356.82	326.82
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1466396	50.0000	43.307	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	3070614			179.40- 239.40	209.40
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	1406949	50.0000	42.718	80.00- 120.00	100.00
15.343	15.343 (1.063)	91	3160121			194.61- 254.61	224.61
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	2308455	50.0000	41.583	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	1249329			24.12- 84.12	54.12
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	1288208	50.0000	48.989	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	653989			20.77- 80.77	50.77
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	4468410	50.0000	42.616	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	1117938			0.00- 55.02	25.02
15.841	15.841 (1.098)	51	567679			0.00- 42.70	12.70
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	2112505	50.0000	44.452	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	1283986			30.78- 90.78	60.78
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	5542287	50.0000	46.597	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	1150441			0.00- 50.76	20.76
16.366	16.366 (1.134)	105	186405			0.00- 33.36	3.36
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	4188570	50.0000	46.931	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	1181043			0.00- 58.20	28.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	3856361	50.0000	41.403	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	1795845			16.57- 76.57	46.57
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	3704262	50.0000	45.002	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1577728			12.59- 72.59	42.59
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.334 (1.201)	146	2139869	50.0000	43.225	80.00- 120.00	100.00
17.334	17.334 (1.201)	148	1336029			32.44- 92.44	62.44
17.334	17.334 (1.201)	111	987476			16.15- 76.15	46.15
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	2724487	50.0000	42.506	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	1696191			32.26- 92.26	62.26
17.445	17.445 (1.209)	111	1193364			13.80- 73.80	43.80
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.583	17.583 (1.218)	91	3023792	50.0000	54.607	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	534912			0.00- 47.69	17.69
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	2403063	50.0000	43.127	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	1506739			32.70- 92.70	62.70
17.804	17.804 (1.234)	111	1116769			16.47- 76.47	46.47
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	1823396	50.0000	40.461	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1769158			67.03- 127.03	97.03
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	1769096	50.0000	43.228	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	1134162			34.11- 94.11	64.11
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	3642764	50.0000	40.592	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	467008			0.00- 42.82	12.82

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030715.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 50ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	293004	0.00
88 1,4-Difluorobenze	1382376	829426	1935326	1382376	0.00
125 Chlorobenzene-d5	855859	513515	1198203	855859	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

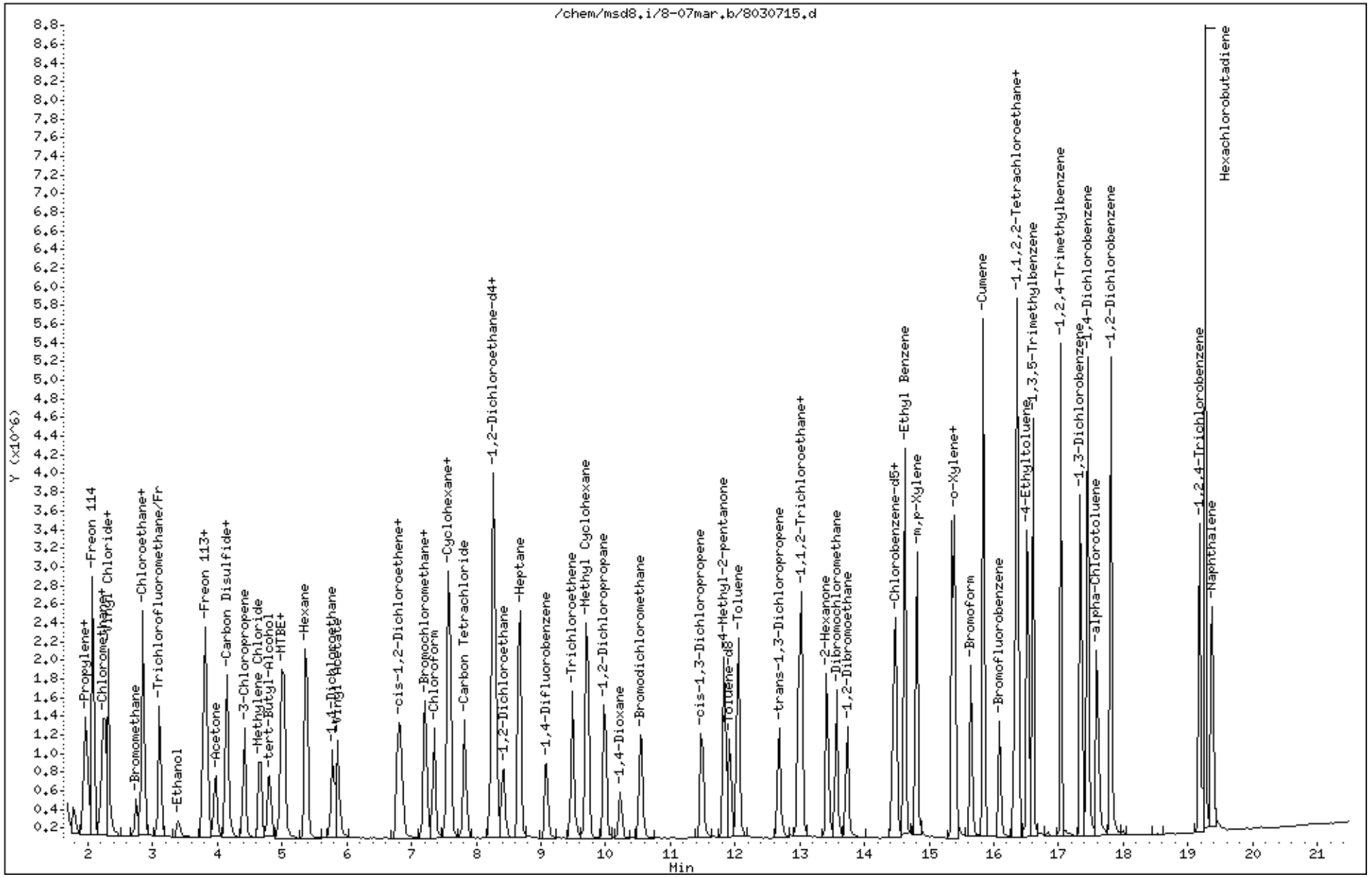
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0128

Data File: /chem/msd8.i/8-07mar.b/8030715.d
Date : 07-MAR-2008 18:18
Client ID: Level 5
Sample Info: 50mL #1576-271

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030716.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 07-MAR-2008 18:46
Operator : cb Inst ID: msd8.i
Smp Info : 100mL #1576-271
Misc Info : 100ppbv (200ppbv)
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:26 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 18:46 Cal File: 8030716.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	281293	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	221099			51.10- 111.10	78.60
7.214	7.214 (1.000)	49	681860			190.11- 250.11	242.40
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1400592	25.0000		70.00- 130.00	100.00
9.067	9.067 (1.000)	88	237107			0.00- 46.84	16.93
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	871748	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	552226			0.00- 30.00	63.35
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.265	8.265 (1.146)	65	541024	25.0000	27.332	70.00- 130.00	100.00
8.265	8.265 (1.146)	67	328126			0.00- 30.00	60.65
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1313502	25.0000	24.796	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	150374			0.00- 30.00	11.45

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	1045965			0.00- 30.00	79.63
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	563048	25.0000	25.897	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	758199			98.22- 158.22	134.66
16.090	16.090 (1.115)	176	527435			66.33- 126.33	93.67
3 Propylene					CAS #: 115-07-1		
1.933	1.933 (0.268)	41	1600738	100.000	95.729	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	1037305			0.00- 30.00	64.80
1.933	1.933 (0.268)	39	1178311			0.00- 30.00	73.61
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	1.989 (0.276)	85	3756390	100.000	89.763	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	1205657			0.00- 30.00	32.10
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	2407637	100.000	84.181	70.00- 130.00	100.00
2.099	2.099 (0.291)	137	743508			0.77- 60.77	30.88
8 Chloromethane					CAS #: 74-87-3		
2.210	2.210 (0.306)	50	1921990	100.000	92.280	70.00- 130.00	100.00
2.210	2.210 (0.306)	52	572945			0.00- 30.00	29.81
9 Butane					CAS #: 106-97-8		
2.265	2.265 (0.314)	58	388254	100.000	86.209	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	3409606			0.00- 30.00	878.19
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.321 (0.322)	62	1840172	100.000	85.712	70.00- 130.00	100.00
2.321	2.321 (0.322)	64	558022			0.00- 30.00	30.32
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.321 (0.322)	54	1621786	100.000	89.588	70.00- 130.00	100.00
2.321	2.321 (0.322)	39	1881469			0.00- 30.00	116.01
13 Bromomethane					CAS #: 74-83-9		
2.735	2.735 (0.379)	94	1221009	100.000	94.401	70.00- 130.00	100.00
2.735	2.735 (0.379)	96	1118821			62.53- 122.53	91.63
16 Chloroethane					CAS #: 75-00-3		
2.846	2.846 (0.394)	64	952609	100.000	92.523	70.00- 130.00	100.00
2.846	2.846 (0.394)	49	297812			0.00- 30.00	31.26
2.846	2.846 (0.394)	66	297006			0.00- 30.00	31.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.846	2.846 (0.394)	43	2955166	100.000	91.855	70.00- 130.00	100.00
2.846	2.846 (0.394)	57	1807280			0.00- 30.00	61.16
2.846	2.846 (0.394)	72	165501			0.00- 30.00	5.60
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.095	3.095 (0.429)	101	3935793	100.000	88.523	70.00- 130.00	100.00
3.095	3.095 (0.429)	103	2502936			33.78- 93.78	63.59
23 Ethanol					CAS #: 64-17-5		
3.399	3.399 (0.471)	45	802740	100.000	90.823	70.00- 130.00	100.00
3.399	3.399 (0.471)	43	157226			0.00- 30.00	19.59
3.426	3.426 (0.475)	46	319531			0.00- 30.00	39.81
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	1943559	100.000	83.398	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	1245466			31.42- 91.42	64.08
3.814	3.814 (0.529)	101	2747008			106.14- 166.14	141.34
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	2811032	100.000	82.988	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	1365688			18.83- 78.83	48.58
3.841	3.841 (0.532)	98	866847			1.92- 61.92	30.84
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	978019	100.000	91.868	70.00- 130.00	100.00
3.979	3.979 (0.552)	43	3608719			0.00- 30.00	368.98
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	4650415	100.000	88.293	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.145	4.145 (0.575)	45	4041393	100.000	97.682	70.00- 130.00	100.00
4.145	4.145 (0.575)	43	823968			0.00- 30.00	20.39
4.145	4.145 (0.575)	59	138161			0.00- 30.00	3.42
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	808194	100.000	98.870	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	3177491			0.00- 30.00	393.16
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.781	4.781 (0.663)	59	2586327	100.000	80.731	70.00- 130.00	100.00
4.781	4.781 (0.663)	41	692279			0.00- 30.00	26.77
4.781	4.781 (0.663)	57	262835			0.00- 30.00	10.16
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	2426826	100.000	86.162	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.671	4.671 (0.647)	84	1340115			24.35- 84.35	55.22
4.671	4.671 (0.647)	51	732078			0.00- 30.00	30.17
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	3980887	100.000	101.36	70.00- 130.00	100.00(A)
5.003	5.003 (0.693)	57	1133657			0.00- 57.94	28.48
5.003	5.003 (0.693)	41	1253999			0.00- 30.00	31.50
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	1662611	100.000	86.060	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	3013549			150.61- 210.61	181.25
5.030	5.030 (0.697)	98	1047318			0.00- 30.00	62.99
46 Hexane					CAS #: 110-54-3		
5.362	5.362 (0.743)	57	3626850	100.000	90.062	70.00- 130.00	100.00
5.362	5.362 (0.743)	43	2614375			0.00- 30.00	72.08
5.390	5.390 (0.747)	86	494619			0.00- 30.00	13.64
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	3554556	100.000	93.366	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	1066808			0.89- 60.89	30.01
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	430722	100.000	103.25	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	6309119			0.00- 30.00	1464.78
5.860	5.860 (0.812)	42	513105			0.00- 30.00	119.13
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	2650027	100.000	88.336	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	1651181			31.12- 91.12	62.31
6.800	6.800 (0.942)	98	1054937			8.63- 68.63	39.81
65 2-Butanone					CAS #: 78-93-3		
6.827	6.827 (0.946)	72	864580	100.000	93.586	70.00- 130.00	100.00
6.827	6.827 (0.946)	43	4869916			517.48- 577.48	563.27
6.827	6.827 (0.946)	57	311044			0.00- 30.00	35.98
67 Tetrahydrofuran					CAS #: 109-99-9		
7.187	7.187 (0.996)	42	2890829	100.000	88.934	70.00- 130.00	100.00
7.214	7.214 (1.000)	71	799311			0.00- 57.82	27.65
7.214	7.214 (1.000)	72	841263			0.00- 30.00	29.10
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	3243436	100.000	84.623	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	1987168			31.36- 91.36	61.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	2480115	100.000	87.425	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	3624410			115.63- 175.63	146.14
7.574	7.574 (1.050)	41	2172035			59.16- 119.16	87.58
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	3291235	100.000	89.384	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	2076261			34.31- 94.31	63.08
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	2750718	100.000	94.064	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	2897262			74.65- 134.65	105.33
81 Benzene					CAS #: 71-43-2		
8.238	8.238 (0.906)	78	5292833	100.000	76.192	70.00- 130.00	100.00
8.238	8.238 (0.906)	77	1229416			0.00- 30.00	23.23
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	11202279	100.000	92.536	70.00- 130.00	100.00
8.265	8.265 (1.146)	56	3515080			0.00- 30.00	31.38
8.265	8.265 (1.146)	41	3176797			0.00- 30.00	28.36
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	2576230	100.000	89.678	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	781886			0.00- 30.00	30.35
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	572008	100.000	78.235	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	4592829			0.00- 30.00	802.93
8.680	8.680 (0.954)	71	1975970			0.00- 30.00	345.44
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	2092020	100.000	77.845	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	1904486			61.96- 121.96	91.04
9.482	9.482 (1.043)	97	1312985			34.32- 94.32	62.76
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	3331001	100.000	89.158	70.00- 130.00	100.00
9.703	9.703 (1.345)	98	1504203			0.00- 30.00	45.16
9.703	9.703 (1.345)	55	3379641			0.00- 30.00	101.46
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	9.979 (1.097)	63	2097933	100.000	79.755	70.00- 130.00	100.00
9.979	9.979 (1.097)	62	1432163			38.59- 98.59	68.27
9.979	9.979 (1.097)	41	1451535			38.06- 98.06	69.19

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	1190159	100.000	93.563	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	1022032			56.45- 116.45	85.87
10.228	10.228 (1.125)	57	324314			0.00- 30.00	27.25
100 Bromodichloromethane					CAS #: 75-27-4		
10.532	10.532 (1.158)	83	3232478	100.000	84.683	70.00- 130.00	100.00
10.532	10.532 (1.158)	85	1975983			30.64- 90.64	61.13
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.472	11.472 (1.261)	75	2643885	100.000	83.697	70.00- 130.00	100.00
11.472	11.472 (1.261)	77	842529			1.21- 61.21	31.87
11.472	11.472 (1.261)	39	1840995			40.75- 100.75	69.63
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	1806421	100.000	82.404	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	5338971			0.00- 30.00	295.56
11.832	11.832 (1.301)	85	663459			0.00- 30.00	36.73
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	5485287	100.000	85.366	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	3296657			30.45- 90.45	60.10
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	2626642	100.000	101.25	70.00- 130.00	100.00
12.689	12.689 (0.879)	77	835235			2.64- 62.64	31.80
12.661	12.661 (0.877)	39	1764037			39.55- 99.55	67.16
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.966	12.966 (0.898)	97	1803739	100.000	87.141	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	1125460			32.84- 92.84	62.40
12.966	12.966 (0.898)	83	1620151			56.96- 116.96	89.82
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	2404040	100.000	82.156	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	1720092			40.72- 100.72	71.55
13.021	13.021 (0.902)	131	1677363			38.04- 98.04	69.77
114 2-Hexanone					CAS #: 591-78-6		
13.408	13.408 (0.929)	58	2406452	100.000	94.708	70.00- 130.00	100.00
13.408	13.408 (0.929)	43	5154874			197.39- 257.39	214.21
13.436	13.436 (0.931)	100	394473			0.00- 30.00	16.39
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	2682285	100.000	87.998	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	2094119			0.00- 30.00	78.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	2874819	100.000	84.708	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	2702171			63.74- 123.74	93.99
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	4358075	100.000	83.688	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	1350120			1.99- 61.99	30.98
14.486	14.486 (1.004)	77	2731180			33.13- 93.13	62.67
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.625 (1.013)	106	2383722	100.000	91.218	70.00- 130.00	100.00
14.625	14.625 (1.013)	91	7981035			0.00- 30.00	334.81
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	2951578	100.000	88.121	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	6146356			0.00- 30.00	208.24
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	2776165	100.000	85.710	70.00- 130.00	100.00
15.343	15.343 (1.063)	91	6205199			194.61- 254.61	223.52
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	4775675	100.000	86.704	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	2492406			24.12- 84.12	52.19
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	2598548	100.000	97.601	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	1345044			20.77- 80.77	51.76
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	8786355	100.000	84.774	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	2188685			0.00- 30.00	24.91
15.841	15.841 (1.098)	51	1090334			0.00- 30.00	12.41
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	4189507	100.000	88.943	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	2551862			30.78- 90.78	60.91
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	11503751	100.000	95.924	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	2292628			0.00- 30.00	19.93
16.366	16.366 (1.134)	105	391281			0.00- 30.00	3.40
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	8381832	100.000	93.663	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	2328920			0.00- 58.20	27.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	7565543	100.000	83.112	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	3547125			0.00- 30.00	46.89
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	7497162	100.000	91.354	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	3085315			12.59- 72.59	41.15
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.334 (1.201)	146	4196707	100.000	86.116	70.00- 130.00	100.00
17.334	17.334 (1.201)	148	2630379			0.00- 30.00	62.68
17.334	17.334 (1.201)	111	1937851			0.00- 30.00	46.18
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	5479035	100.000	86.712	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	3423140			0.00- 30.00	62.48
17.445	17.445 (1.209)	111	1967494			0.00- 30.00	35.91
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.583	17.583 (1.218)	91	6248831	100.000	108.45	70.00- 130.00	100.00
17.611	17.611 (1.220)	126	1088111			0.00- 30.00	17.41
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	4736386	100.000	86.310	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	2914184			32.70- 92.70	61.53
17.804	17.804 (1.234)	111	2163092			16.47- 76.47	45.67
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	3589647	100.000	82.709	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	3416109			67.03- 127.03	95.17
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	3565041	100.000	88.736	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	2279631			34.11- 94.11	63.94
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	7280835	100.000	83.921	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	907783			0.00- 30.00	12.47

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030716.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 100ppbv (200ppbv)

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	281293	-4.00
88 1,4-Difluorobenze	1382376	829426	1935326	1400592	1.32
125 Chlorobenzene-d5	855859	513515	1198203	871748	1.86

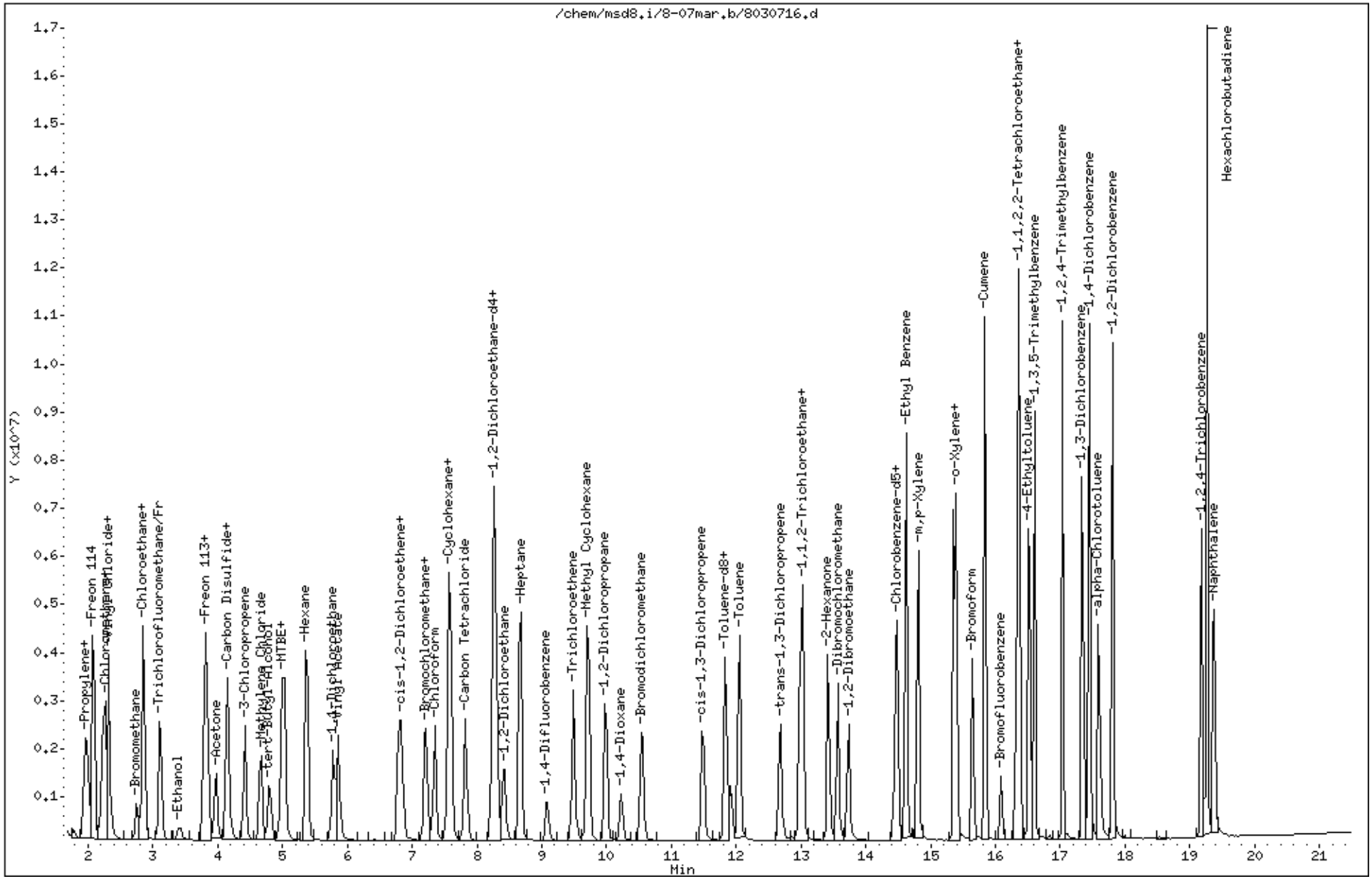
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

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/msd8.i/8-07mar.b/8030716.d
Date : 07-MAR-2008 18:46
Client ID: Level 6
Sample Info: 100mL #1576-271

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



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Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-07mar.b/8030717.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 07-MAR-2008 19:15
Operator : cb Inst ID: msd8.i
Smp Info : 200mL #1576-271
Misc Info : 200ppbv
Comment :
Method : /chem/msd8.i/8-07mar.b/t14q307a.m
Meth Date : 11-Mar-2008 12:26 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08mdl.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
==	====== ========	====	========	=======	=======	==========	=====
* 68 Bromochloromethane					CAS #: 74-97-5		
7.214	7.214 (1.000)	130	316981	25.0000		70.00- 130.00	100.00
7.214	7.214 (1.000)	128	243700			51.10- 111.10	76.88
7.214	7.214 (1.000)	49	675778			190.11- 250.11	213.19
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1447782	25.0000		70.00- 130.00	100.00
9.095	9.095 (1.000)	88	246505			0.00- 46.84	17.03
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	924112	25.0000		70.00- 130.00	100.00
14.431	14.431 (1.000)	82	587702			0.00- 30.00	63.60
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.293	8.293 (1.149)	65	563459	25.0000	25.223	70.00- 130.00	100.00
8.293	8.293 (1.149)	67	420460			0.00- 30.00	74.62
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1366481	25.0000	24.962	70.00- 130.00	100.00
11.915	11.915 (1.310)	70	152316			0.00- 30.00	11.15

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	955062			0.00- 30.00	69.89
$ 140 Bromofluorobenzene						CAS #: 460-00-4	
16.090	16.090 (1.115)	174	604357	25.0000	26.040	70.00- 130.00	100.00
16.090	16.090 (1.115)	95	783494			98.22- 158.22	129.64
16.090	16.090 (1.115)	176	570838			66.33- 126.33	94.45
3 Propylene						CAS #: 115-07-1	
1.933	1.933 (0.268)	41	3245920	200.000	177.18	70.00- 130.00	100.00
1.933	1.933 (0.268)	42	2137634			0.00- 30.00	65.86
1.933	1.933 (0.268)	39	2377605			0.00- 30.00	73.25
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
1.989	1.989 (0.276)	85	7334467	200.000	161.52	70.00- 130.00	100.00
1.989	1.989 (0.276)	87	2317171			0.00- 30.00	31.59
6 Freon 114						CAS #: 76-14-2	
2.099	2.099 (0.291)	135	4830510	200.000	156.41	70.00- 130.00	100.00
2.099	2.099 (0.291)	137	1502581			0.77- 60.77	31.11
8 Chloromethane						CAS #: 74-87-3	
2.238	2.238 (0.310)	50	3821541	200.000	169.11	70.00- 130.00	100.00(M)
2.238	2.238 (0.310)	52	1091680			0.00- 30.00	28.57
9 Butane						CAS #: 106-97-8	
2.265	2.265 (0.314)	58	818524	200.000	167.78	70.00- 130.00	100.00
2.265	2.265 (0.314)	43	7025641			0.00- 30.00	858.33
11 Vinyl Chloride						CAS #: 75-01-4	
2.320	2.320 (0.322)	62	3784998	200.000	162.34	70.00- 130.00	100.00
2.320	2.320 (0.322)	64	1126861			0.00- 30.00	29.77
10 1,3-Butadiene						CAS #: 106-99-0	
2.320	2.320 (0.322)	54	3284476	200.000	166.42	70.00- 130.00	100.00
2.320	2.320 (0.322)	39	3954940			0.00- 30.00	120.41
13 Bromomethane						CAS #: 74-83-9	
2.763	2.763 (0.383)	94	2476143	200.000	174.26	70.00- 130.00	100.00
2.763	2.763 (0.383)	96	2320732			62.53- 122.53	93.72
16 Chloroethane						CAS #: 75-00-3	
2.873	2.873 (0.398)	64	1958603	200.000	173.32	70.00- 130.00	100.00
2.873	2.873 (0.398)	49	620107			0.00- 30.00	31.66
2.873	2.873 (0.398)	66	597312			0.00- 30.00	30.50

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
15 Isopentane					CAS #: 78-78-4		
2.873	2.873 (0.398)	43	5953394	200.000	170.31	70.00- 130.00	100.00
2.873	2.873 (0.398)	57	3604388			0.00- 30.00	60.54
2.873	2.873 (0.398)	72	344668			0.00- 30.00	5.79
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	7914828	200.000	163.71	70.00- 130.00	100.00
3.122	3.122 (0.433)	103	5073331			33.78- 93.78	64.10
23 Ethanol					CAS #: 64-17-5		
3.426	3.426 (0.475)	45	1557667	200.000	163.52	70.00- 130.00	100.00
3.426	3.426 (0.475)	43	321377			0.00- 30.00	20.63
3.426	3.426 (0.475)	46	605381			0.00- 30.00	38.86
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	3952901	200.000	156.99	70.00- 130.00	100.00
3.814	3.814 (0.529)	153	2461668			31.42- 91.42	62.27
3.814	3.814 (0.529)	101	5536436			106.14- 166.14	140.06
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	5908516	200.000	160.85	70.00- 130.00	100.00
3.841	3.841 (0.532)	96	2771364			18.83- 78.83	46.90
3.841	3.841 (0.532)	98	1788803			1.92- 61.92	30.27
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.552)	58	1992664	200.000	171.93	70.00- 130.00	100.00
3.979	3.979 (0.552)	43	7382319			0.00- 30.00	370.47
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.145 (0.575)	76	9528243	200.000	166.00	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.578)	45	8115104	200.000	178.70	70.00- 130.00	100.00
4.173	4.173 (0.578)	43	1670800			0.00- 30.00	20.59
4.173	4.173 (0.578)	59	280164			0.00- 30.00	3.45
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.422 (0.613)	76	1581775	200.000	176.72	70.00- 130.00	100.00
4.422	4.422 (0.613)	41	6319943			0.00- 30.00	399.55
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.781	4.781 (0.663)	59	4050924	200.000	123.01	70.00- 130.00	100.00
4.781	4.781 (0.663)	41	1072693			0.00- 30.00	26.48
4.781	4.781 (0.663)	57	428521			0.00- 30.00	10.58
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	4881163	200.000	159.95	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
40 Methylene Chloride (continued)							
4.671	4.671 (0.647)	84	2745804			24.35- 84.35	56.25
4.671	4.671 (0.647)	51	1470481			0.00- 30.00	30.13
43 MTBE					CAS #: 1634-04-4		
5.002	5.002 (0.693)	73	7345293	200.000	170.81	70.00- 130.00	100.00(A)
5.002	5.002 (0.693)	57	2026639			0.00- 57.94	27.59
5.002	5.002 (0.693)	41	2265257			0.00- 30.00	30.84
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.030 (0.697)	96	3322604	200.000	158.90	70.00- 130.00	100.00
5.030	5.030 (0.697)	61	5986967			150.61- 210.61	180.19
5.030	5.030 (0.697)	98	2113592			0.00- 30.00	63.61
46 Hexane					CAS #: 110-54-3		
5.362	5.362 (0.743)	57	7308762	200.000	166.46	70.00- 130.00	100.00
5.362	5.362 (0.743)	43	5213770			0.00- 30.00	71.34
5.390	5.390 (0.747)	86	966047			0.00- 30.00	13.22
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.777 (0.801)	63	7116064	200.000	170.73	70.00- 130.00	100.00
5.777	5.777 (0.801)	65	2124257			0.89- 60.89	29.85
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.860 (0.812)	86	889967	200.000	191.36	70.00- 130.00	100.00
5.860	5.860 (0.812)	43	13211000			0.00- 30.00	1484.44
5.860	5.860 (0.812)	42	1057653			0.00- 30.00	118.84
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	5329284	200.000	163.41	70.00- 130.00	100.00
6.800	6.800 (0.942)	96	3291154			31.12- 91.12	61.76
6.800	6.800 (0.942)	98	2102196			8.63- 68.63	39.45
65 2-Butanone					CAS #: 78-93-3		
6.827	6.827 (0.946)	72	1775372	200.000	174.83	70.00- 130.00	100.00
6.827	6.827 (0.946)	43	9966342			517.48- 577.48	561.37
6.827	6.827 (0.946)	57	683549			0.00- 30.00	38.50
67 Tetrahydrofuran					CAS #: 109-99-9		
7.187	7.187 (0.996)	42	5929908	200.000	167.20	70.00- 130.00	100.00
7.214	7.214 (1.000)	71	1611876			0.00- 57.82	27.18
7.214	7.214 (1.000)	72	1709513			0.00- 30.00	28.83
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	6589710	200.000	157.92	70.00- 130.00	100.00
7.353	7.353 (1.019)	85	4034130			31.36- 91.36	61.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	4960450	200.000	161.19	70.00- 130.00	100.00
7.574	7.574 (1.050)	56	7208743			115.63- 175.63	145.32
7.574	7.574 (1.050)	41	4378665			59.16- 119.16	88.27
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	6586437	200.000	164.39	70.00- 130.00	100.00
7.602	7.602 (1.054)	99	4136980			34.31- 94.31	62.81
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	5655335	200.000	175.77	70.00- 130.00	100.00
7.823	7.823 (1.084)	117	5819163			74.65- 134.65	102.90
81 Benzene					CAS #: 71-43-2		
8.237	8.237 (0.906)	78	10716147	200.000	154.85	70.00- 130.00	100.00
8.237	8.237 (0.906)	77	2427692			0.00- 30.00	22.65
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	22871259	200.000	172.30	70.00- 130.00	100.00
8.293	8.293 (1.149)	56	7035006			0.00- 30.00	30.76
8.293	8.293 (1.149)	41	6362249			0.00- 30.00	27.82
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	5069548	200.000	174.99	70.00- 130.00	100.00
8.431	8.431 (0.927)	64	1580945			0.00- 30.00	31.19
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	1149902	200.000	158.47	70.00- 130.00	100.00
8.680	8.680 (0.954)	43	9246013			0.00- 30.00	804.07
8.680	8.680 (0.954)	71	3940879			0.00- 30.00	342.71
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	4210717	200.000	157.95	70.00- 130.00	100.00
9.482	9.482 (1.043)	130	3831651			61.96- 121.96	91.00
9.482	9.482 (1.043)	97	2694751			34.32- 94.32	64.00
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.703 (1.345)	83	6792083	200.000	166.70	70.00- 130.00	100.00
9.731	9.731 (1.349)	98	3030487			0.00- 30.00	44.62
9.703	9.703 (1.345)	55	6725964			0.00- 30.00	99.03
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	9.979 (1.097)	63	4238295	200.000	161.82	70.00- 130.00	100.00
9.979	9.979 (1.097)	62	2948557			38.59- 98.59	69.57
9.979	9.979 (1.097)	41	2899564			38.06- 98.06	68.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	2420923	200.000	187.09	70.00- 130.00	100.00
10.228	10.228 (1.125)	58	2088282			56.45- 116.45	86.26
10.228	10.228 (1.125)	57	686847			0.00- 30.00	28.37
100 Bromodichloromethane					CAS #: 75-27-4		
10.532	10.532 (1.158)	83	6642529	200.000	172.91	70.00- 130.00	100.00
10.560	10.560 (1.161)	85	4025231			30.64- 90.64	60.60
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.472	11.472 (1.261)	75	5465896	200.000	172.07	70.00- 130.00	100.00
11.472	11.472 (1.261)	77	1690218			1.21- 61.21	30.92
11.472	11.472 (1.261)	39	3736108			40.75- 100.75	68.35
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	3657106	200.000	166.75	70.00- 130.00	100.00
11.832	11.832 (1.301)	43	10890538			0.00- 30.00	297.79
11.832	11.832 (1.301)	85	1349015			0.00- 30.00	36.89
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	11463842	200.000	176.63	70.00- 130.00	100.00
12.053	12.053 (1.325)	92	6685766			30.45- 90.45	58.32
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	5502335	200.000	200.07	70.00- 130.00	100.00(A)
12.689	12.689 (0.879)	77	1704562			2.64- 62.64	30.98
12.661	12.661 (0.877)	39	3630840			39.55- 99.55	65.99
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.966	12.966 (0.898)	97	3667460	200.000	171.84	70.00- 130.00	100.00
12.993	12.993 (0.900)	99	2252902			32.84- 92.84	61.43
12.966	12.966 (0.898)	83	3248124			56.96- 116.96	88.57
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	4922342	200.000	164.34	70.00- 130.00	100.00
13.021	13.021 (0.902)	129	3526010			40.72- 100.72	71.63
13.021	13.021 (0.902)	131	3345220			38.04- 98.04	67.96
114 2-Hexanone					CAS #: 591-78-6		
13.408	13.408 (0.929)	58	5101629	200.000	191.43	70.00- 130.00	100.00
13.408	13.408 (0.929)	43	10878940			197.39- 257.39	213.24
13.436	13.436 (0.931)	100	828735			0.00- 30.00	16.24
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	5600515	200.000	177.26	70.00- 130.00	100.00
13.574	13.574 (0.941)	127	4339321			0.00- 30.00	77.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	5923031	200.000	169.63	70.00- 130.00	100.00
13.740	13.740 (0.952)	109	5598272			63.74- 123.74	94.52
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	8985449	200.000	167.98	70.00- 130.00	100.00
14.486	14.486 (1.004)	114	2758492			1.99- 61.99	30.70
14.486	14.486 (1.004)	77	5648450			33.13- 93.13	62.86
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	4878319	200.000	179.68	70.00- 130.00	100.00
14.624	14.624 (1.013)	91	16546811			0.00- 30.00	339.19
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	6120771	200.000	176.44	70.00- 130.00	100.00
14.818	14.818 (1.027)	91	12966614			0.00- 30.00	211.85
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	5624028	200.000	168.89	70.00- 130.00	100.00
15.343	15.343 (1.063)	91	12581466			194.61- 254.61	223.71
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	10069821	200.000	175.92	70.00- 130.00	100.00
15.399	15.399 (1.067)	78	5145484			24.12- 84.12	51.10
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	5612592	200.000	199.05	70.00- 130.00	100.00
15.648	15.648 (1.084)	171	2870845			20.77- 80.77	51.15
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	16754758	200.000	157.85	70.00- 130.00	100.00
15.841	15.841 (1.098)	120	4333818			0.00- 30.00	25.87
15.841	15.841 (1.098)	51	2175660			0.00- 30.00	12.99
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	8754398	200.000	179.00	70.00- 130.00	100.00
16.339	16.339 (1.132)	85	5275036			30.78- 90.78	60.26
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	17100507	200.000	142.28	70.00- 130.00	100.00
16.366	16.366 (1.134)	120	4727627			0.00- 30.00	27.65
16.366	16.366 (1.134)	105	751931			0.00- 30.00	4.40
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	17764389	200.000	189.27	70.00- 130.00	100.00
16.532	16.532 (1.146)	120	4835933			0.00- 58.20	27.22

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	15624209	200.000	167.22	70.00- 130.00	100.00
16.615	16.615 (1.151)	120	7164972			0.00- 30.00	45.86
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	15385602	200.000	180.33	70.00- 130.00	100.00
17.030	17.030 (1.180)	120	6194345			12.59- 72.59	40.26
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.334 (1.201)	146	8607412	200.000	171.38	70.00- 130.00	100.00
17.334	17.334 (1.201)	148	5353695			0.00- 30.00	62.20
17.334	17.334 (1.201)	111	3798841			0.00- 30.00	44.13
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	10250227	200.000	159.26	70.00- 130.00	100.00
17.445	17.445 (1.209)	148	6284915			0.00- 30.00	61.31
17.445	17.445 (1.209)	111	4244743			0.00- 30.00	41.41
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.583	17.583 (1.218)	91	13405647	200.000	215.97	70.00- 130.00	100.00(A)
17.611	17.611 (1.220)	126	2356418			0.00- 30.00	17.58
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	9575844	200.000	169.61	70.00- 130.00	100.00
17.804	17.804 (1.234)	148	5817723			32.70- 92.70	60.75
17.804	17.804 (1.234)	111	4388333			16.47- 76.47	45.83
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	7714902	200.000	173.28	70.00- 130.00	100.00
19.187	19.187 (1.330)	182	7379434			67.03- 127.03	95.65
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	7127755	200.000	173.01	70.00- 130.00	100.00
19.270	19.270 (1.335)	223	4525591			34.11- 94.11	63.49
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	15629900	200.000	175.21	70.00- 130.00	100.00
19.380	19.380 (1.343)	127	1877737			0.00- 30.00	12.01

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8030717.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cb
Method File: /chem/msd8.i/8-07mar.b/t14q307a.m
Misc Info: 200ppbv

Calibration Date: 07-MAR-2008
Calibration Time: 18:18
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	293004	175802	410206	316981	8.18
88 1,4-Difluorobenze	1382376	829426	1935326	1447782	4.73
125 Chlorobenzene-d5	855859	513515	1198203	924112	7.97

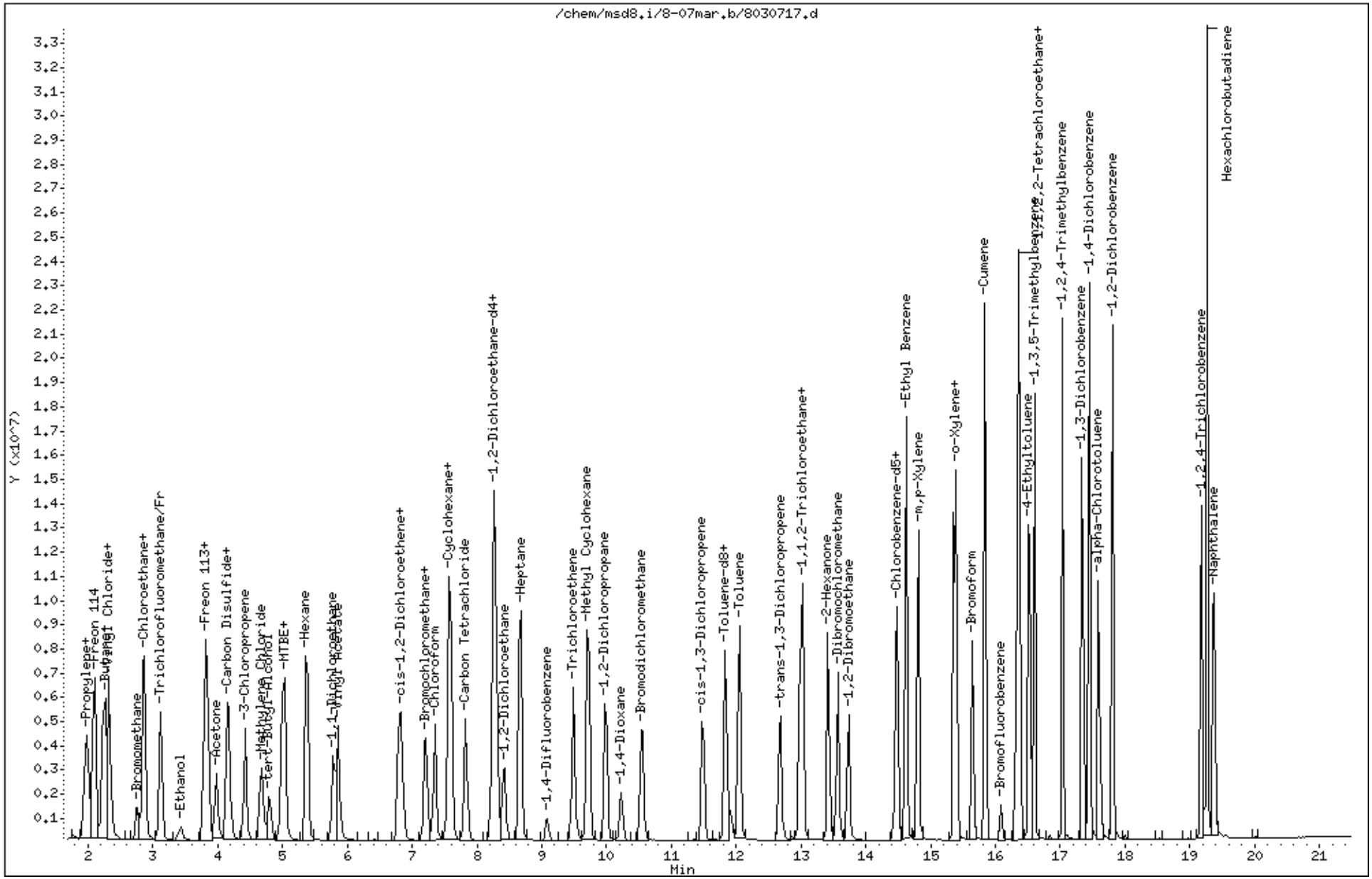
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.21	6.88	7.54	7.21	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

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/msd8.i/8-07mar.b/8030717.d
Date : 07-MAR-2008 19:15
Client ID: Level 7
Sample Info: 200mL #1576-271

Instrument: msd8.i
Operator: cb
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803303-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032003**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 11:17 AM**

Compound	%Recovery
Freon 12	92
Freon 114	92
Vinyl Chloride	82
Bromomethane	94
Chloroethane	84
Freon 11	87
1,1-Dichloroethene	81
Freon 113	91
Methylene Chloride	82
1,1-Dichloroethane	84
cis-1,2-Dichloroethene	82
Chloroform	78
1,1,1-Trichloroethane	84
Carbon Tetrachloride	89
Benzene	75
1,2-Dichloroethane	85
Trichloroethene	77
1,2-Dichloropropane	74
cis-1,3-Dichloropropene	78
Toluene	84
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	90
Tetrachloroethene	88
1,2-Dibromoethane (EDB)	85
Chlorobenzene	86
Ethyl Benzene	90
m,p-Xylene	88
o-Xylene	86
Styrene	83
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	85
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	85
1,3-Butadiene	87
Hexane	85
Cyclohexane	82

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0803303-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 11:17 AM**	

Compound	%Recovery
Heptane	77
Bromodichloromethane	81
Dibromochloromethane	91
Cumene	86
Propylbenzene	93
Chloromethane	81
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	91
Acetone	85
Carbon Disulfide	84
2-Propanol	88
trans-1,2-Dichloroethene	85
2-Butanone (Methyl Ethyl Ketone)	83
Tetrahydrofuran	80
1,4-Dioxane	88
4-Methyl-2-pentanone	76
2-Hexanone	87
Bromoform	103
4-Ethyltoluene	91
Ethanol	88
Methyl tert-butyl ether	97
3-Chloropropene	92
2,2,4-Trimethylpentane	82
Naphthalene	83

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 20-MAR-2008 11:17
Lab File ID: 8032003.d Init. Cal. Date(s): 07-MAR-2008 07-MAR-2008
Analysis Type: AIR Init. Cal. Times: 16:29 19:15
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-20mar.b/t14q307a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 82 1,2-Dichloroethane-d4	1.76187	1.68555	0.010	4.33223	30.00000	Averaged
$ 104 Toluene-d8	0.94529	0.90023	0.010	4.76704	30.00000	Averaged
$ 140 Bromofluorobenzene	0.62787	0.66976	0.010	-6.67143	30.00000	Averaged
3 Propylene	1.44491	1.39127	0.010	3.71219	30.00000	Averaged
4 Dichlorodifluoromethane/Fr1	3.58141	3.29474	0.010	8.00456	30.00000	Averaged
6 Freon 114	2.43572	2.23457	0.010	8.25839	30.00000	Averaged
8 Chloromethane	1.78226	1.43730	0.010	19.35547	30.00000	Averaged
11 Vinyl Chloride	1.83883	1.51805	0.010	17.44492	30.00000	Averaged
10 1,3-Butadiene	1.55660	1.35073	0.010	13.22552	30.00000	Averaged
13 Bromomethane	1.12069	1.05363	0.010	5.98382	30.00000	Averaged
16 Chloroethane	0.89127	0.74675	0.010	16.21518	30.00000	Averaged
18 Trichlorofluoromethane/Fr11	3.81307	3.31270	0.010	13.12268	30.00000	Averaged
23 Ethanol	0.75127	0.65763	0.010	12.46510	30.00000	Averaged
28 Freon 113	1.98581	1.80445	0.010	9.13307	30.00000	Averaged
29 1,1-Dichloroethene	2.89704	2.34960	0.010	18.89654	30.00000	Averaged
30 Acetone	0.91408	0.77483	0.010	15.23419	30.00000	Averaged
34 2-Propanol	3.58167	3.16048	0.010	11.75952	30.00000	Averaged
33 Carbon Disulfide	4.52714	3.82635	0.010	15.47965	30.00000	Averaged
37 3-Chloropropene	0.70595	0.64867	0.010	8.11399	30.00000	Averaged
40 Methylene Chloride	2.40684	1.96235	0.010	18.46756	30.00000	Averaged
43 MTBE	3.39152	3.29978	0.010	2.70504	30.00000	Averaged
45 trans-1,2-Dichloroethene	1.64921	1.39733	0.010	15.27274	30.00000	Averaged
46 Hexane	3.46293	2.93152	0.010	15.34548	30.00000	Averaged
54 1,1-Dichloroethane	3.28734	2.74977	0.010	16.35289	30.00000	Averaged
55 Vinyl Acetate	0.36680	0.31144	0.010	15.09248	30.00000	Averaged
65 2-Butanone	0.80091	0.66837	0.010	16.54832	30.00000	Averaged
64 cis-1,2-Dichloroethene	2.57211	2.11384	0.010	17.81701	30.00000	Averaged
67 Tetrahydrofuran	2.79718	2.25399	0.010	19.41919	30.00000	Averaged
70 Chloroform	3.29101	2.57859	0.010	21.64729	30.00000	Averaged
75 1,1,1-Trichloroethane	3.15998	2.64671	0.010	16.24300	30.00000	Averaged
73 Cyclohexane	2.42706	1.99198	0.010	17.92617	30.00000	Averaged
77 Carbon Tetrachloride	2.53751	2.26831	0.010	10.60880	30.00000	Averaged
80 2,2,4-Trimethylpentane	10.46915	8.58163	0.010	18.02938	30.00000	Averaged
81 Benzene	1.19500	0.89305	0.010	25.26800	30.00000	Averaged
83 1,2-Dichloroethane	0.50026	0.42609	0.010	14.82740	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 20-MAR-2008 11:17
Lab File ID: 8032003.d Init. Cal. Date(s): 07-MAR-2008 07-MAR-2008
Analysis Type: AIR Init. Cal. Times: 16:29 19:15
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-20mar.b/t14q307a.m

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
85 Heptane	0.12530	0.09621	0.010	23.21373	30.00000	Averaged
94 Trichloroethene	0.46033	0.35637	0.010	22.58449	30.00000	Averaged
97 1,2-Dichloropropane	0.45226	0.33509	0.010	25.90864	30.00000	Averaged
98 1,4-Dioxane	0.22345	0.19696	0.010	11.85276	30.00000	Averaged
100 Bromodichloromethane	0.66337	0.53933	0.010	18.69921	30.00000	Averaged
102 cis-1,3-Dichloropropene	0.54853	0.42645	0.010	22.25488	30.00000	Averaged
103 4-Methyl-2-pentanone	0.37870	0.28877	0.010	23.74832	30.00000	Averaged
105 Toluene	1.12075	0.94519	0.010	15.66453	30.00000	Averaged
108 trans-1,3-Dichloropropene	0.74400	0.71743	0.010	3.57041	30.00000	Averaged
110 1,1,2-Trichloroethane	0.57736	0.51792	0.010	10.29408	30.00000	Averaged
112 Tetrachloroethene	0.81028	0.71119	0.010	12.22930	30.00000	Averaged
114 2-Hexanone	0.72096	0.62605	0.010	13.16450	30.00000	Averaged
116 Dibromochloromethane	0.85471	0.78088	0.010	8.63830	30.00000	Averaged
117 1,2-Dibromoethane	0.94459	0.80519	0.010	14.75766	30.00000	Averaged
126 Chlorobenzene	1.44709	1.24362	0.010	14.06015	30.00000	Averaged
129 Ethyl Benzene	0.73449	0.66111	0.010	9.99128	30.00000	Averaged
130 m,p-Xylene	0.93845	0.82584	0.010	12.00027	30.00000	Averaged
132 o-Xylene	0.90086	0.77821	0.010	13.61443	30.00000	Averaged
134 Styrene	1.54853	1.29066	0.010	16.65268	30.00000	Averaged
135 Bromoform	0.76281	0.78896	0.010	-3.42905	30.00000	Averaged
144 1,1,2,2-Tetrachloroethane	1.32305	1.11882	0.010	15.43641	30.00000	Averaged
147 4-Ethyltoluene	2.53913	2.30651	0.010	9.16152	30.00000	Averaged
148 1,3,5-Trimethylbenzene	2.52767	2.15009	0.010	14.93761	30.00000	Averaged
153 1,2,4-Trimethylbenzene	2.30812	1.97344	0.010	14.50009	30.00000	Averaged
156 1,3-Dichlorobenzene	1.35869	1.18380	0.010	12.87179	30.00000	Averaged
157 1,4-Dichlorobenzene	1.74114	1.52749	0.010	12.27071	30.00000	Averaged
158 alpha-Chlorotoluene	1.67922	1.62365	0.010	3.30957	30.00000	Averaged
161 1,2-Dichlorobenzene	1.52733	1.30145	0.010	14.78911	30.00000	Averaged
167 1,2,4-Trichlorobenzene	1.20443	1.04617	0.010	13.13992	30.00000	Averaged
168 Hexachlorobutadiene	1.11456	1.01115	0.010	9.27784	30.00000	Averaged
145 Propylbenzene	3.25154	3.02977	0.010	6.82069	30.00000	Averaged
137 Cumene	2.87145	2.48221	0.010	13.55545	30.00000	Averaged
169 Naphthalene	2.41328	2.00436	0.010	16.94444	30.00000	Averaged
38 tert-Butyl-Alcohol	2.59728	2.12724	0.010	18.09732	40.00000	Averaged
9 Butane	0.38477	0.32368	0.010	15.87693	30.00000	Averaged

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 20-MAR-2008 11:17
Lab File ID: 8032003.d Init. Cal. Date(s): 07-MAR-2008 07-MAR-2008
Analysis Type: AIR Init. Cal. Times: 16:29 19:15
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msd8.i/8-20mar.b/t14q307a.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
15 Isopentane	2.75697	2.43542	0.010	11.66341	30.00000	Averaged
95 Methyl Cyclohexane	3.21343	2.65347	0.010	17.42552	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20mar.b/8032003.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 20-MAR-2008 11:17
Operator : ct Inst ID: msd8.i
Smp Info : 100mL #1576-271A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /chem/msd8.i/8-20mar.b/t14q307a.m
Meth Date : 20-Mar-2008 11:39 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
*	68 Bromochloromethane					CAS #: 74-97-5		
	7.242	7.242 (1.000)	130	352131	25.0000		80.00- 120.00	100.00
	7.214	7.214 (1.000)	128	280641			49.70- 109.70	79.70
	7.214	7.214 (1.000)	49	708741			171.27- 231.27	201.27
*	88 1,4-Difluorobenzene					CAS #: 540-36-3		
	9.095	9.095 (1.000)	114	1656150	25.0000		80.00- 120.00	100.00
	9.095	9.095 (1.000)	88	271015			0.00- 46.36	16.36
*	125 Chlorobenzene-d5					CAS #: 3114-55-4		
	14.431	14.431 (1.000)	117	997112	25.0000		80.00- 120.00	100.00
	14.431	14.431 (1.000)	82	619736			0.00- 30.00	62.15
$	82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
	8.293	8.293 (1.145)	65	593533	25.0000	23.917	80.00- 120.00	100.00
	8.293	8.293 (1.145)	67	327012			0.00- 30.00	55.10
$	104 Toluene-d8					CAS #: 2037-26-5		
	11.915	11.915 (1.310)	98	1490916	25.0000	23.808	80.00- 120.00	100.00
	11.915	11.915 (1.310)	70	157639			0.00- 30.00	10.57

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	1090913			0.00- 30.00	73.17
$ 140 Bromofluorobenzene						CAS #: 460-00-4	
16.090	16.090 (1.115)	174	667823	25.0000	26.668	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	838934			95.62- 155.62	125.62
16.090	16.090 (1.115)	176	633266			64.83- 124.83	94.83
3 Propylene						CAS #: 115-07-1	
1.961	1.961 (0.271)	41	979821	50.0000	48.144	80.00- 120.00	100.00
1.961	1.961 (0.271)	42	652687			0.00- 30.00	66.61
1.961	1.961 (0.271)	39	703034			0.00- 30.00	71.75
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.016	2.016 (0.278)	85	2320358	50.0000	45.998	80.00- 120.00	100.00
2.016	2.016 (0.278)	87	742356			0.00- 30.00	31.99
6 Freon 114						CAS #: 76-14-2	
2.099	2.099 (0.290)	135	1573725	50.0000	45.871	80.00- 120.00	100.00
2.099	2.099 (0.290)	137	497087			1.59- 61.59	31.59
8 Chloromethane						CAS #: 74-87-3	
2.238	2.238 (0.309)	50	1012235	50.0000	40.322	80.00- 120.00	100.00
2.238	2.238 (0.309)	52	285392			0.00- 30.00	28.19
11 Vinyl Chloride						CAS #: 75-01-4	
2.348	2.348 (0.324)	62	1069106	50.0000	41.278	80.00- 120.00	100.00
2.348	2.348 (0.324)	64	325328			0.00- 30.00	30.43
10 1,3-Butadiene						CAS #: 106-99-0	
2.348	2.348 (0.324)	54	951270	50.0000	43.387	80.00- 120.00	100.00
2.348	2.348 (0.324)	39	1173908			0.00- 30.00	123.40
13 Bromomethane						CAS #: 74-83-9	
2.763	2.763 (0.382)	94	742033	50.0000	47.008	80.00- 120.00	100.00
2.763	2.763 (0.382)	96	695227			63.69- 123.69	93.69
16 Chloroethane						CAS #: 75-00-3	
2.873	2.873 (0.397)	64	525906	50.0000	41.892	80.00- 120.00	100.00
2.873	2.873 (0.397)	49	166555			0.00- 30.00	31.67
2.873	2.873 (0.397)	66	165972			0.00- 30.00	31.56
18 Trichlorofluoromethane/Fr11						CAS #: 75-69-4	
3.122	3.122 (0.431)	101	2333006	50.0000	43.439	80.00- 120.00	100.00
3.122	3.122 (0.431)	103	1500389			34.31- 94.31	64.31

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.426	3.426 (0.473)	45	463142	50.0000	43.767	80.00- 120.00	100.00
3.426	3.426 (0.473)	43	95201			0.00- 30.00	20.56
3.426	3.426 (0.473)	46	186921			0.00- 30.00	40.36
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.527)	151	1270803	50.0000	45.433	80.00- 120.00	100.00
3.814	3.814 (0.527)	153	812115			33.91- 93.91	63.91
3.814	3.814 (0.527)	101	1659952			100.62- 160.62	130.62
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.530)	61	1654735	50.0000	40.552	80.00- 120.00	100.00
3.869	3.869 (0.534)	96	831071			20.22- 80.22	50.22
3.869	3.869 (0.534)	98	528515			1.94- 61.94	31.94
30 Acetone					CAS #: 67-64-1		
3.979	3.979 (0.549)	58	545684	50.0000	42.383	80.00- 120.00	100.00
3.979	3.979 (0.549)	43	2004440			0.00- 30.00	367.33
34 2-Propanol					CAS #: 67-63-0		
4.173	4.173 (0.576)	45	2225808	50.0000	44.120	80.00- 120.00	100.00
4.173	4.173 (0.576)	43	464463			0.00- 30.00	20.87
4.173	4.173 (0.576)	59	75316			0.00- 30.00	3.38
33 Carbon Disulfide					CAS #: 75-15-0		
4.173	4.173 (0.576)	76	2694756	50.0000	42.260	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.449	4.449 (0.614)	76	456834	50.0000	45.943	80.00- 120.00	100.00
4.449	4.449 (0.614)	41	1776214			0.00- 30.00	388.81
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.645)	49	1382011	50.0000	40.766	80.00- 120.00	100.00
4.671	4.671 (0.645)	84	776382			26.18- 86.18	56.18
4.671	4.671 (0.645)	51	414604			0.00- 30.00	30.00
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.691)	73	2323911	50.0000	48.647	80.00- 120.00	100.00
5.003	5.003 (0.691)	57	635997			0.00- 57.37	27.37
5.003	5.003 (0.691)	41	731861			0.00- 30.00	31.49
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.058	5.058 (0.698)	96	984084	50.0000	42.364	80.00- 120.00	100.00
5.058	5.058 (0.698)	61	1670427			139.74- 199.74	169.74
5.058	5.058 (0.698)	98	618780			0.00- 30.00	62.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.390	5.390 (0.744)	57	2064561	50.0000	42.327	80.00- 120.00	100.00
5.390	5.390 (0.744)	43	1491744			0.00- 30.00	72.25
5.390	5.390 (0.744)	86	277339			0.00- 30.00	13.43
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.804	5.804 (0.801)	63	1936557	50.0000	41.824	80.00- 120.00	100.00
5.804	5.804 (0.801)	65	582778			0.09- 60.09	30.09
55 Vinyl Acetate					CAS #: 108-05-4		
5.887	5.887 (0.813)	86	219336	50.0000	42.454	80.00- 120.00	100.00
5.887	5.887 (0.813)	43	3288464			0.00- 30.00	1499.28
5.860	5.860 (0.809)	42	278421			0.00- 30.00	126.94
65 2-Butanone					CAS #: 78-93-3		
6.855	6.855 (0.947)	72	470707	50.0000	41.726	80.00- 120.00	100.00
6.855	6.855 (0.947)	43	2567863			515.53- 575.53	545.53
6.855	6.855 (0.947)	57	175931			0.00- 30.00	37.38
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.939)	61	1488695	50.0000	41.091	80.00- 120.00	100.00
6.800	6.800 (0.939)	96	949760			33.80- 93.80	63.80
6.800	6.800 (0.939)	98	605095			10.65- 70.65	40.65
67 Tetrahydrofuran					CAS #: 109-99-9		
7.214	7.214 (0.996)	42	1587397	50.0000	40.290	80.00- 120.00	100.00
7.214	7.214 (0.996)	71	458827			0.00- 58.90	28.90
7.214	7.214 (0.996)	72	453298			0.00- 30.00	28.56
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.015)	83	1816006	50.0000	39.176	80.00- 120.00	100.00
7.353	7.353 (1.015)	85	1134039			32.45- 92.45	62.45
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.050)	97	1863975	50.0000	41.878	80.00- 120.00	100.00
7.602	7.602 (1.050)	99	1182949			33.46- 93.46	63.46
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.046)	84	1402877	50.0000	41.037	80.00- 120.00	100.00
7.574	7.574 (1.046)	56	1984305			111.45- 171.45	141.45
7.574	7.574 (1.046)	41	1241456			58.49- 118.49	88.49
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.080)	119	1597487	50.0000	44.696	80.00- 120.00	100.00
7.823	7.823 (1.080)	117	1648679			73.20- 133.20	103.20

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		
8.293	8.293 (1.145)	57	6043714	50.0000	40.985	80.00- 120.00	100.00
8.293	8.293 (1.145)	56	1943753			0.00- 30.00	32.16
8.293	8.293 (1.145)	41	1752860			0.00- 30.00	29.00
81 Benzene					CAS #: 71-43-2		
8.265	8.265 (0.909)	78	2958040	50.0000	37.366	80.00- 120.00	100.00
8.265	8.265 (0.909)	77	684465			0.00- 30.00	23.14
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1411329	50.0000	42.586	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	430770			0.00- 30.00	30.52
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	318692	50.0000	38.393	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	2517575			0.00- 30.00	789.97
8.680	8.680 (0.954)	71	1063545			0.00- 30.00	333.72
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	1180403	50.0000	38.708	80.00- 120.00	100.00
9.509	9.509 (1.046)	130	1116281			64.57- 124.57	94.57
9.509	9.509 (1.046)	97	759384			34.33- 94.33	64.33
97 1,2-Dichloropropane					CAS #: 78-87-5		
10.007	10.007 (1.100)	63	1109914	50.0000	37.046	80.00- 120.00	100.00
10.007	10.007 (1.100)	62	796991			41.81- 101.81	71.81
10.007	10.007 (1.100)	41	803285			42.37- 102.37	72.37
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	652398	50.0000	44.074	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	547665			53.95- 113.95	83.95
10.228	10.228 (1.125)	57	184139			0.00- 30.00	28.22
100 Bromodichloromethane					CAS #: 75-27-4		
10.560	10.560 (1.161)	83	1786419	50.0000	40.650	80.00- 120.00	100.00
10.560	10.560 (1.161)	85	1080220			30.47- 90.47	60.47
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.500	11.500 (1.264)	75	1412538	50.0000	38.872	80.00- 120.00	100.00
11.500	11.500 (1.264)	77	446823			1.63- 61.63	31.63
11.500	11.500 (1.264)	39	1005199			41.16- 101.16	71.16
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	956480	50.0000	38.126	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	2772774			0.00- 30.00	289.89
11.832	11.832 (1.301)	85	354096			0.00- 30.00	37.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	3130748	50.0000	42.168	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1853866			29.21- 89.21	59.21
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	1430721	50.0000	48.215	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	447619			1.29- 61.29	31.29
12.689	12.689 (0.879)	39	945751			36.10- 96.10	66.10
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.993	12.993 (0.900)	97	1032853	50.0000	44.853	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	635997			31.58- 91.58	61.58
12.993	12.993 (0.900)	83	870845			54.31- 114.31	84.31
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	1418272	50.0000	43.885	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	991942			39.94- 99.94	69.94
13.021	13.021 (0.902)	131	981542			39.21- 99.21	69.21
114 2-Hexanone					CAS #: 591-78-6		
13.436	13.436 (0.931)	58	1248486	50.0000	43.418	80.00- 120.00	100.00
13.408	13.408 (0.929)	43	2735002			189.07- 249.07	219.07
13.436	13.436 (0.931)	100	222295			0.00- 30.00	17.81
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	1557248	50.0000	45.681	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	1162375			0.00- 30.00	74.64
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1605737	50.0000	42.621	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	1549565			66.50- 126.50	96.50
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	2480065	50.0000	42.970	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	782104			1.54- 61.54	31.54
14.486	14.486 (1.004)	77	1475383			29.49- 89.49	59.49
129 Ethyl Benzene					CAS #: 100-41-4		
14.624	14.624 (1.013)	106	1318392	50.0000	45.004	80.00- 120.00	100.00
14.624	14.624 (1.013)	91	4360074			0.00- 30.00	330.71
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1646904	50.0000	44.000	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	3346320			0.00- 30.00	203.19
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	1551934	50.0000	43.193	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)							
15.343	15.343 (1.063)	91	3377441			187.63- 247.63	217.63
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	2573856	50.0000	41.674	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	1306749			20.77- 80.77	50.77
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	1573368	50.0000	51.714	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	826218			22.51- 82.51	52.51
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	2231182	50.0000	42.282	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	1386215			32.13- 92.13	62.13
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	4599690	50.0000	45.419	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	1301220			0.00- 58.29	28.29
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	4287767	50.0000	42.531	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	2020715			0.00- 30.00	47.13
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	3935489	50.0000	42.750	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1648264			11.88- 71.88	41.88
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.362	17.362 (1.203)	146	2360771	50.0000	43.564	80.00- 120.00	100.00
17.362	17.362 (1.203)	148	1480181			0.00- 30.00	62.70
17.334	17.334 (1.201)	111	1044848			0.00- 30.00	44.26
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	3046162	50.0000	43.865	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	1912584			0.00- 30.00	62.79
17.445	17.445 (1.209)	111	1258952			0.00- 30.00	41.33
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.611	17.611 (1.220)	91	3237913	50.0000	48.345	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	619376			0.00- 30.00	19.13
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	2595392	50.0000	42.605	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	1608677			31.98- 91.98	61.98
17.804	17.804 (1.234)	111	1201691			16.30- 76.30	46.30

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	2086302	50.0000	43.430	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1990227			65.39- 125.39	95.39
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	2016463	50.0000	45.361	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	1273323			33.15- 93.15	63.15
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	6042031	50.0000	46.590	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	1270648			0.00- 30.00	21.03
16.366	16.366 (1.134)	105	202003			0.00- 30.00	3.34
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	4950088	50.0000	43.222	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	1246491			0.00- 30.00	25.18
15.841	15.841 (1.098)	51	605860			0.00- 30.00	12.24
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	3997141	50.0000	41.528	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	499825			0.00- 30.00	12.50
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.664)	59	1498133	50.0000	40.951	80.00- 120.00	100.00
4.809	4.809 (0.664)	41	423111			0.00- 30.00	28.24
4.809	4.809 (0.664)	57	154194			0.00- 30.00	10.29
9 Butane					CAS #: 106-97-8		
2.293	2.293 (0.317)	58	227953	50.0000	42.062	80.00- 120.00	100.00
2.293	2.293 (0.317)	43	1943158			0.00- 30.00	852.44
15 Isopentane					CAS #: 78-78-4		
2.873	2.873 (0.397)	43	1715172	50.0000	44.168	80.00- 120.00	100.00
2.873	2.873 (0.397)	57	1043232			0.00- 30.00	60.82
2.873	2.873 (0.397)	72	102794			0.00- 30.00	5.99
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.731	9.731 (1.344)	83	1868740	50.0000	41.287	80.00- 120.00	100.00
9.731	9.731 (1.344)	98	855000			0.00- 30.00	45.75
9.731	9.731 (1.344)	55	1813087			0.00- 30.00	97.02

Report Date: 20-Mar-2008 11:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032003.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 20-MAR-2008
Calibration Time: 11:17
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	352131	211279	492983	352131	0.00
88 1,4-Difluorobenze	1656150	993690	2318610	1656150	0.00
125 Chlorobenzene-d5	997112	598267	1395957	997112	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.24	0.00
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

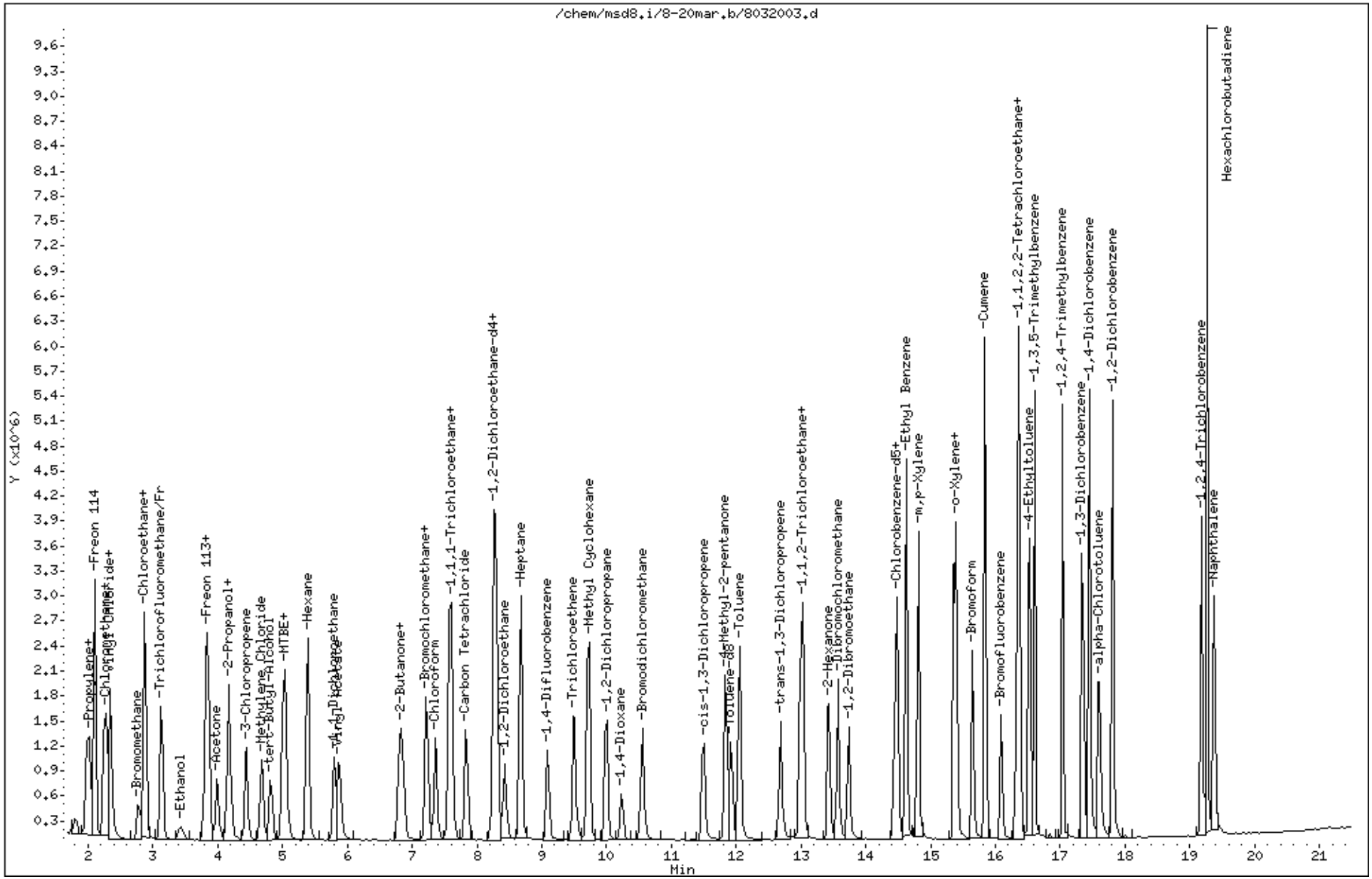
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0163

Data File: /chem/msd8.i/8-20mar.b/8032003.d
Date : 20-MAR-2008 11:17
Client ID: CCV-1
Sample Info: 100mL #1576-271A

Instrument: msd8.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803303-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032004**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 11:45 AM**

Compound	%Recovery
Freon 12	87
Freon 114	90
Vinyl Chloride	84
Bromomethane	93
Chloroethane	85
Freon 11	86
1,1-Dichloroethene	90
Freon 113	101
Methylene Chloride	88
1,1-Dichloroethane	88
cis-1,2-Dichloroethene	86
Chloroform	80
1,1,1-Trichloroethane	86
Carbon Tetrachloride	95
Benzene	80
1,2-Dichloroethane	91
Trichloroethene	82
1,2-Dichloropropane	78
cis-1,3-Dichloropropene	83
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	92
Tetrachloroethene	93
1,2-Dibromoethane (EDB)	86
Chlorobenzene	88
Ethyl Benzene	95
m,p-Xylene	89
o-Xylene	90
Styrene	85
1,1,2,2-Tetrachloroethane	89
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	90
1,3-Butadiene	84
Hexane	86
Cyclohexane	84

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0803303-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8032004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/20/08 11:45 AM**	

Compound	%Recovery
Heptane	86
Bromodichloromethane	87
Dibromochloromethane	93
Cumene	92
Propylbenzene	98
Chloromethane	88
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	98
Acetone	85
Carbon Disulfide	85
2-Propanol	92
trans-1,2-Dichloroethene	85
2-Butanone (Methyl Ethyl Ketone)	86
Tetrahydrofuran	80
1,4-Dioxane	92
4-Methyl-2-pentanone	80
2-Hexanone	89
Bromoform	108
4-Ethyltoluene	95
Ethanol	90
Methyl tert-butyl ether	98
3-Chloropropene	89
2,2,4-Trimethylpentane	84
Naphthalene	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	108	70-130

Report Date: 20-Mar-2008 11:51

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ct
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT08.sub
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 50ppbv (100ppbv)

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
134 Styrene	50.000	42.489	84.98	70-130
108 trans-1,3-Dichloro	50.000	49.474	98.95	70-130
3 Propylene	50.000	49.952	99.91	60-140
4 Dichlorodifluorome	50.000	43.727	87.45	70-130
6 Freon 114	50.000	45.165	90.33	70-130
8 Chloromethane	50.000	43.750	87.50	70-130
11 Vinyl Chloride	50.000	41.784	83.57	70-130
10 1,3-Butadiene	50.000	41.877	83.75	60-140
13 Bromomethane	50.000	46.311	92.62	70-130
16 Chloroethane	50.000	42.482	84.96	70-130
18 Trichlorofluoromet	50.000	42.844	85.69	70-130
23 Ethanol	50.000	45.283	90.57	60-140
28 Freon 113	50.000	50.431	100.86	70-130
29 1,1-Dichloroethene	50.000	44.957	89.91	70-130
30 Acetone	50.000	42.496	84.99	60-140
33 Carbon Disulfide	50.000	42.655	85.31	60-140
34 2-Propanol	50.000	46.065	92.13	60-140
40 Methylene Chloride	50.000	44.153	88.31	70-130
43 MTBE	50.000	49.228	98.46	60-140
45 trans-1,2-Dichloro	50.000	42.428	84.86	60-140
46 Hexane	50.000	42.799	85.60	60-140
54 1,1-Dichloroethane	50.000	43.785	87.57	70-130
55 Vinyl Acetate	50.000	43.260	86.52	60-140
64 cis-1,2-Dichloroet	50.000	42.782	85.56	70-130
65 2-Butanone	50.000	43.089	86.18	60-140
67 Tetrahydrofuran	50.000	40.285	80.57	60-140
70 Chloroform	50.000	40.075	80.15	70-130
73 Cyclohexane	50.000	41.844	83.69	60-140
75 1,1,1-Trichloroeth	50.000	43.002	86.00	70-130
77 Carbon Tetrachlori	50.000	47.312	94.62	70-130
81 Benzene	50.000	39.966	79.93	70-130
83 1,2-Dichloroethane	50.000	45.493	90.99	70-130
85 Heptane	50.000	43.241	86.48	60-140

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
94 Trichloroethene	50.000	41.139	82.28	70-130
97 1,2-Dichloropropan	50.000	39.255	78.51	70-130
98 1,4-Dioxane	50.000	46.282	92.56	60-140
100 Bromodichlorometha	50.000	43.464	86.93	60-140
102 cis-1,3-Dichloropr	50.000	41.547	83.09	70-130
103 4-Methyl-2-pentano	50.000	40.174	80.35	60-140
105 Toluene	50.000	47.802	95.60	70-130
110 1,1,2-Trichloroeth	50.000	46.007	92.01	70-130
112 Tetrachloroethene	50.000	46.703	93.41	70-130
114 2-Hexanone	50.000	44.517	89.03	60-140
116 Dibromochlorometha	50.000	46.438	92.88	60-140
117 1,2-Dibromoethane	50.000	42.762	85.52	70-130
126 Chlorobenzene	50.000	44.087	88.17	70-130
129 Ethyl Benzene	50.000	47.420	94.84	70-130
130 m,p-Xylene	50.000	44.516	89.03	70-130
132 o-Xylene	50.000	44.834	89.67	70-130
135 Bromoform	50.000	54.286	108.57	60-140
144 1,1,2,2-Tetrachlor	50.000	44.530	89.06	70-130
147 4-Ethyltoluene	50.000	47.524	95.05	60-140
148 1,3,5-Trimethylben	50.000	43.356	86.71	70-130
153 1,2,4-Trimethylben	50.000	44.574	89.15	70-130
156 1,3-Dichlorobenzen	50.000	46.568	93.14	70-130
157 1,4-Dichlorobenzen	50.000	46.309	92.62	70-130
158 alpha-Chlorotoluen	50.000	52.930	105.86	70-130
161 1,2-Dichlorobenzen	50.000	45.174	90.35	70-130
167 1,2,4-Trichloroben	50.000	47.353	94.71	70-130
168 Hexachlorobutadien	50.000	48.851	97.70	70-130
137 Cumene	50.000	45.953	91.91	60-140
145 Propylbenzene	50.000	49.274	98.55	60-140
37 3-Chloropropene	50.000	44.548	89.10	60-140
80 2,2,4-Trimethylpen	50.000	42.238	84.48	60-140
169 Naphthalene	50.000	45.955	91.91	60-140
9 Butane	50.000	43.171	86.34	70-130
15 Isopentane	50.000	43.509	87.02	70-130
95 Methyl Cyclohexane	50.000	42.507	85.01	70-130

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 82 1,2-Dichloroethane	25.000	23.422	93.69	70-130
$ 104 Toluene-d8	25.000	23.929	95.72	70-130
$ 140 Bromofluorobenzene	25.000	27.040	108.16	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20mar.b/8032004.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 20-MAR-2008 11:45
Operator : ct Inst ID: msd8.i
Smp Info : 100mL #1576-259A
Misc Info : 50ppbv (100ppbv)
Comment :
Method : /chem/msd8.i/8-20mar.b/t14q307a.m
Meth Date : 20-Mar-2008 11:39 ctaylor Quant Type: ISTD
Cal Date : 07-MAR-2008 19:15 Cal File: 8030717.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT08.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 68 Bromochloromethane					CAS #: 74-97-5		
7.215	7.242 (1.000)	130	290983	25.0000		80.00- 120.00	100.00
7.215	7.214 (1.000)	128	224434			49.70- 109.70	77.13
7.215	7.214 (1.000)	49	587257			171.27- 231.27	201.82
* 88 1,4-Difluorobenzene					CAS #: 540-36-3		
9.095	9.095 (1.000)	114	1315038	25.0000		80.00- 120.00	100.00
9.067	9.095 (1.000)	88	209749			0.00- 46.36	15.95
* 125 Chlorobenzene-d5					CAS #: 3114-55-4		
14.431	14.431 (1.000)	117	822193	25.0000		80.00- 120.00	100.00
14.431	14.431 (1.000)	82	492067			0.00- 30.00	59.85
$ 82 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
8.265	8.293 (1.146)	65	480316	23.4220	23.422	80.00- 120.00	100.00
8.265	8.293 (1.146)	67	274518			0.00- 30.00	57.15
$ 104 Toluene-d8					CAS #: 2037-26-5		
11.915	11.915 (1.310)	98	1189851	23.9292	23.929	80.00- 120.00	100.00
11.915	11.915 (1.310)	70	124281			0.00- 30.00	10.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 104 Toluene-d8 (continued)							
11.915	11.915 (1.310)	100	864060			0.00- 30.00	72.62
$ 140 Bromofluorobenzene					CAS #: 460-00-4		
16.090	16.090 (1.115)	174	558362	27.0404	27.040	80.00- 120.00	100.00
16.090	16.090 (1.115)	95	683220			95.62- 155.62	122.36
16.090	16.090 (1.115)	176	515814			64.83- 124.83	92.38
3 Propylene					CAS #: 115-07-1		
1.933	1.961 (0.268)	41	840091	49.9525	49.952	80.00- 120.00	100.00
1.933	1.961 (0.268)	42	553081			0.00- 30.00	65.84
1.933	1.961 (0.268)	39	616015			0.00- 30.00	73.33
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
1.989	2.016 (0.276)	85	1822783	43.7273	43.727	80.00- 120.00	100.00
1.989	2.016 (0.276)	87	584904			0.00- 30.00	32.09
6 Freon 114					CAS #: 76-14-2		
2.099	2.099 (0.291)	135	1280444	45.1653	45.165	80.00- 120.00	100.00
2.099	2.099 (0.291)	137	392602			1.59- 61.59	30.66
8 Chloromethane					CAS #: 74-87-3		
2.210	2.238 (0.306)	50	907562	43.7498	43.750	80.00- 120.00	100.00
2.210	2.238 (0.306)	52	261630			0.00- 30.00	28.83
11 Vinyl Chloride					CAS #: 75-01-4		
2.321	2.348 (0.322)	62	894293	41.7840	41.784	80.00- 120.00	100.00
2.321	2.348 (0.322)	64	263523			0.00- 30.00	29.47
10 1,3-Butadiene					CAS #: 106-99-0		
2.321	2.348 (0.322)	54	758713	41.8767	41.877	80.00- 120.00	100.00
2.321	2.348 (0.322)	39	870319			0.00- 30.00	114.71
13 Bromomethane					CAS #: 74-83-9		
2.735	2.763 (0.379)	94	604086	46.3111	46.311	80.00- 120.00	100.00
2.735	2.763 (0.379)	96	578806			63.69- 123.69	95.82
16 Chloroethane					CAS #: 75-00-3		
2.846	2.873 (0.394)	64	440701	42.4823	42.482	80.00- 120.00	100.00
2.846	2.873 (0.394)	49	137383			0.00- 30.00	31.17
2.846	2.873 (0.394)	66	137416			0.00- 30.00	31.18
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.122	3.122 (0.433)	101	1901496	42.8443	42.844	80.00- 120.00	100.00
3.122	3.122 (0.433)	103	1221214			34.31- 94.31	64.22

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
23 Ethanol					CAS #: 64-17-5		
3.399	3.426 (0.471)	45	395968	45.2829	45.283	80.00- 120.00	100.00
3.399	3.426 (0.471)	43	77651			0.00- 30.00	19.61
3.399	3.426 (0.471)	46	157172			0.00- 30.00	39.69
28 Freon 113					CAS #: 76-13-1		
3.814	3.814 (0.529)	151	1165636	50.4310	50.431	80.00- 120.00	100.00
3.814	3.814 (0.529)	153	740562			33.91- 93.91	63.53
3.814	3.814 (0.529)	101	1498043			100.62- 160.62	128.52
29 1,1-Dichloroethene					CAS #: 75-35-4		
3.841	3.841 (0.532)	61	1515934	44.9571	44.957	80.00- 120.00	100.00
3.841	3.869 (0.532)	96	748479			20.22- 80.22	49.37
3.841	3.869 (0.532)	98	477732			1.94- 61.94	31.51
30 Acetone					CAS #: 67-64-1		
3.980	3.979 (0.552)	58	452127	42.4959	42.496	80.00- 120.00	100.00
3.980	3.979 (0.552)	43	1706021			0.00- 30.00	377.33
34 2-Propanol					CAS #: 67-63-0		
4.145	4.173 (0.575)	45	1920366	46.0650	46.065	80.00- 120.00	100.00
4.145	4.173 (0.575)	43	399569			0.00- 30.00	20.81
4.145	4.173 (0.575)	59	59514			0.00- 30.00	3.10
33 Carbon Disulfide					CAS #: 75-15-0		
4.145	4.173 (0.575)	76	2247594	42.6546	42.655	80.00- 120.00	100.00
37 3-Chloropropene					CAS #: 107-05-1		
4.422	4.449 (0.613)	76	366042	44.5480	44.548	80.00- 120.00	100.00
4.422	4.449 (0.613)	41	1499990			0.00- 30.00	409.79
40 Methylene Chloride					CAS #: 75-09-2		
4.671	4.671 (0.647)	49	1236907	44.1532	44.153	80.00- 120.00	100.00
4.671	4.671 (0.647)	84	727310			26.18- 86.18	58.80
4.671	4.671 (0.647)	51	351636			0.00- 30.00	28.43
43 MTBE					CAS #: 1634-04-4		
5.003	5.003 (0.693)	73	1943297	49.2285	49.228	80.00- 120.00	100.00
5.003	5.003 (0.693)	57	543014			0.00- 57.37	27.94
5.003	5.003 (0.693)	41	628564			0.00- 30.00	32.35
45 trans-1,2-Dichloroethene					CAS #: 156-60-5		
5.030	5.058 (0.697)	96	814443	42.4286	42.428	80.00- 120.00	100.00
5.030	5.058 (0.697)	61	1405594			139.74- 199.74	172.58
5.030	5.058 (0.697)	98	539092			0.00- 30.00	66.19

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
46 Hexane					CAS #: 110-54-3		
5.362	5.390 (0.743)	57	1725056	42.7989	42.799	80.00- 120.00	100.00
5.362	5.390 (0.743)	43	1229061			0.00- 30.00	71.25
5.362	5.390 (0.743)	86	238323			0.00- 30.00	13.82
54 1,1-Dichloroethane					CAS #: 75-34-3		
5.777	5.804 (0.801)	63	1675312	43.7848	43.785	80.00- 120.00	100.00
5.777	5.804 (0.801)	65	522900			0.09- 60.09	31.21
55 Vinyl Acetate					CAS #: 108-05-4		
5.860	5.887 (0.812)	86	184688	43.2595	43.260	80.00- 120.00	100.00
5.860	5.887 (0.812)	43	2797600			0.00- 30.00	1514.77
5.860	5.860 (0.812)	42	232011			0.00- 30.00	125.62
65 2-Butanone					CAS #: 78-93-3		
6.827	6.855 (0.946)	72	401678	43.0893	43.089	80.00- 120.00	100.00
6.827	6.855 (0.946)	43	2215470			515.53- 575.53	551.55
6.827	6.855 (0.946)	57	150733			0.00- 30.00	37.53
64 cis-1,2-Dichloroethene					CAS #: 156-59-2		
6.800	6.800 (0.942)	61	1280785	42.7818	42.782	80.00- 120.00	100.00
6.800	6.800 (0.942)	96	805501			33.80- 93.80	62.89
6.800	6.800 (0.942)	98	519124			10.65- 70.65	40.53
67 Tetrahydrofuran					CAS #: 109-99-9		
7.215	7.214 (1.000)	42	1311582	40.2854	40.285	80.00- 120.00	100.00
7.215	7.214 (1.000)	71	374323			0.00- 58.90	28.54
7.215	7.214 (1.000)	72	382061			0.00- 30.00	29.13
70 Chloroform					CAS #: 67-66-3		
7.353	7.353 (1.019)	83	1535074	40.0749	40.075	80.00- 120.00	100.00
7.353	7.353 (1.019)	85	977773			32.45- 92.45	63.70
75 1,1,1-Trichloroethane					CAS #: 71-55-6		
7.602	7.602 (1.054)	97	1581611	43.0019	43.002	80.00- 120.00	100.00
7.602	7.602 (1.054)	99	1011862			33.46- 93.46	63.98
73 Cyclohexane					CAS #: 110-82-7		
7.574	7.574 (1.050)	84	1182052	41.8435	41.844	80.00- 120.00	100.00
7.574	7.574 (1.050)	56	1685313			111.45- 171.45	142.58
7.574	7.574 (1.050)	41	1030992			58.49- 118.49	87.22
77 Carbon Tetrachloride					CAS #: 56-23-5		
7.823	7.823 (1.084)	119	1397362	47.3122	47.312	80.00- 120.00	100.00
7.823	7.823 (1.084)	117	1450108			73.20- 133.20	103.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
80 2,2,4-Trimethylpentane					CAS #: 540-84-1		
8.293	8.293 (1.149)	57	5146875	42.2381	42.238	80.00- 120.00	100.00
8.265	8.293 (1.146)	56	1629522			0.00- 30.00	31.66
8.265	8.293 (1.146)	41	1475160			0.00- 30.00	28.66
81 Benzene					CAS #: 71-43-2		
8.238	8.265 (0.906)	78	2512245	39.9665	39.966	80.00- 120.00	100.00
8.238	8.265 (0.906)	77	575668			0.00- 30.00	22.91
83 1,2-Dichloroethane					CAS #: 107-06-2		
8.431	8.431 (0.927)	62	1197129	45.4929	45.493	80.00- 120.00	100.00
8.431	8.431 (0.927)	64	386658			0.00- 30.00	32.30
85 Heptane					CAS #: 142-82-5		
8.680	8.680 (0.954)	100	285007	43.2414	43.241	80.00- 120.00	100.00
8.680	8.680 (0.954)	43	2127010			0.00- 30.00	746.30
8.680	8.680 (0.954)	71	911200			0.00- 30.00	319.71
94 Trichloroethene					CAS #: 79-01-6		
9.482	9.482 (1.043)	95	996149	41.1390	41.139	80.00- 120.00	100.00
9.482	9.509 (1.043)	130	978410			64.57- 124.57	98.22
9.482	9.509 (1.043)	97	654505			34.33- 94.33	65.70
97 1,2-Dichloropropane					CAS #: 78-87-5		
9.979	10.007 (1.097)	63	933877	39.2554	39.255	80.00- 120.00	100.00
9.979	10.007 (1.097)	62	663010			41.81- 101.81	71.00
9.979	10.007 (1.097)	41	666573			42.37- 102.37	71.38
98 1,4-Dioxane					CAS #: 123-91-1		
10.228	10.228 (1.125)	88	543979	46.2817	46.282	80.00- 120.00	100.00
10.228	10.228 (1.125)	58	453813			53.95- 113.95	83.42
10.228	10.228 (1.125)	57	151591			0.00- 30.00	27.87
100 Bromodichloromethane					CAS #: 75-27-4		
10.532	10.560 (1.158)	83	1516652	43.4639	43.464	80.00- 120.00	100.00
10.532	10.560 (1.158)	85	941502			30.47- 90.47	62.08
102 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
11.473	11.500 (1.261)	75	1198757	41.5466	41.547	80.00- 120.00	100.00
11.473	11.500 (1.261)	77	377913			1.63- 61.63	31.53
11.473	11.500 (1.261)	39	854784			41.16- 101.16	71.31
103 4-Methyl-2-pentanone					CAS #: 108-10-1		
11.832	11.832 (1.301)	58	800279	40.1741	40.174	80.00- 120.00	100.00
11.832	11.832 (1.301)	43	2345381			0.00- 30.00	293.07
11.832	11.832 (1.301)	85	294310			0.00- 30.00	36.78

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
105 Toluene					CAS #: 108-88-3		
12.053	12.053 (1.325)	91	2818063	47.8018	47.802	80.00- 120.00	100.00
12.053	12.053 (1.325)	92	1629023			29.21- 89.21	57.81
108 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
12.689	12.689 (0.879)	75	1210552	49.4742	49.474	80.00- 120.00	100.00
12.689	12.689 (0.879)	77	369381			1.29- 61.29	30.51
12.689	12.689 (0.879)	39	801031			36.10- 96.10	66.17
110 1,1,2-Trichloroethane					CAS #: 79-00-5		
12.966	12.993 (0.898)	97	873586	46.0075	46.007	80.00- 120.00	100.00
12.993	12.993 (0.900)	99	530811			31.58- 91.58	60.76
12.966	12.993 (0.898)	83	759103			54.31- 114.31	86.90
112 Tetrachloroethene					CAS #: 127-18-4		
13.021	13.021 (0.902)	166	1244561	46.7032	46.703	80.00- 120.00	100.00
13.021	13.021 (0.902)	129	854474			39.94- 99.94	68.66
13.021	13.021 (0.902)	131	817006			39.21- 99.21	65.65
114 2-Hexanone					CAS #: 591-78-6		
13.408	13.436 (0.929)	58	1055529	44.5168	44.517	80.00- 120.00	100.00
13.408	13.408 (0.929)	43	2265858			189.07- 249.07	214.67
13.436	13.436 (0.931)	100	181643			0.00- 30.00	17.21
116 Dibromochloromethane					CAS #: 124-48-1		
13.574	13.574 (0.941)	129	1305347	46.4379	46.438	80.00- 120.00	100.00
13.574	13.574 (0.941)	127	983431			0.00- 30.00	75.34
117 1,2-Dibromoethane					CAS #: 106-93-4		
13.740	13.740 (0.952)	107	1328430	42.7622	42.762	80.00- 120.00	100.00
13.740	13.740 (0.952)	109	1280514			66.50- 126.50	96.39
126 Chlorobenzene					CAS #: 108-90-7		
14.486	14.486 (1.004)	112	2098150	44.0868	44.087	80.00- 120.00	100.00
14.486	14.486 (1.004)	114	665617			1.54- 61.54	31.72
14.486	14.486 (1.004)	77	1278060			29.49- 89.49	60.91
129 Ethyl Benzene					CAS #: 100-41-4		
14.625	14.624 (1.013)	106	1145476	47.4205	47.420	80.00- 120.00	100.00
14.625	14.624 (1.013)	91	3708492			0.00- 30.00	323.75
130 m,p-Xylene					CAS #: 108-38-3		
14.818	14.818 (1.027)	106	1373930	44.5162	44.516	80.00- 120.00	100.00
14.818	14.818 (1.027)	91	2823178			0.00- 30.00	205.48
132 o-Xylene					CAS #: 95-47-6		
15.343	15.343 (1.063)	106	1328303	44.8338	44.834	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)							
15.343	15.343 (1.063)	91	2883932			187.63- 247.63	217.11
134 Styrene					CAS #: 100-42-5		
15.399	15.399 (1.067)	104	2163845	42.4887	42.489	80.00- 120.00	100.00
15.399	15.399 (1.067)	78	1105331			20.77- 80.77	51.08
135 Bromoform					CAS #: 75-25-2		
15.648	15.648 (1.084)	173	1361879	54.2864	54.286	80.00- 120.00	100.00
15.648	15.648 (1.084)	171	683597			22.51- 82.51	50.20
144 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.339	16.339 (1.132)	83	1937604	44.5301	44.530	80.00- 120.00	100.00
16.339	16.339 (1.132)	85	1177151			32.13- 92.13	60.75
147 4-Ethyltoluene					CAS #: 622-96-8		
16.532	16.532 (1.146)	105	3968573	47.5243	47.524	80.00- 120.00	100.00
16.532	16.532 (1.146)	120	1108890			0.00- 58.29	27.94
148 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
16.615	16.615 (1.151)	105	3604121	43.3557	43.356	80.00- 120.00	100.00
16.615	16.615 (1.151)	120	1706016			0.00- 30.00	47.34
153 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.030	17.030 (1.180)	105	3383575	44.5741	44.574	80.00- 120.00	100.00
17.030	17.030 (1.180)	120	1460661			11.88- 71.88	43.17
156 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.334	17.362 (1.201)	146	2080878	46.5684	46.568	80.00- 120.00	100.00
17.334	17.362 (1.201)	148	1309647			0.00- 30.00	62.94
17.334	17.334 (1.201)	111	919465			0.00- 30.00	44.19
157 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.445	17.445 (1.209)	146	2651740	46.3087	46.309	80.00- 120.00	100.00
17.445	17.445 (1.209)	148	1666829			0.00- 30.00	62.86
17.445	17.445 (1.209)	111	1108390			0.00- 30.00	41.80
158 alpha-Chlorotoluene					CAS #: 100-44-7		
17.583	17.611 (1.218)	91	2923114	52.9303	52.930	80.00- 120.00	100.00
17.611	17.611 (1.220)	126	564449			0.00- 30.00	19.31
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
17.804	17.804 (1.234)	146	2269112	45.1740	45.174	80.00- 120.00	100.00
17.804	17.804 (1.234)	148	1459030			31.98- 91.98	64.30
17.804	17.804 (1.234)	111	1015973			16.30- 76.30	44.77

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
167 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.187	19.187 (1.330)	180	1875722	47.3535	47.353	80.00- 120.00	100.00
19.187	19.187 (1.330)	182	1822596			65.39- 125.39	97.17
168 Hexachlorobutadiene					CAS #: 87-68-3		
19.270	19.270 (1.335)	225	1790659	48.8513	48.851	80.00- 120.00	100.00
19.270	19.270 (1.335)	223	1130175			33.15- 93.15	63.12
145 Propylbenzene					CAS #: 103-65-1		
16.366	16.366 (1.134)	91	5269159	49.2740	49.274	80.00- 120.00	100.00
16.366	16.366 (1.134)	120	1121080			0.00- 30.00	21.28
16.366	16.366 (1.134)	105	182672			0.00- 30.00	3.47
137 Cumene					CAS #: 98-82-8		
15.841	15.841 (1.098)	105	4339589	45.9530	45.953	80.00- 120.00	100.00
15.841	15.841 (1.098)	120	1088260			0.00- 30.00	25.08
15.841	15.841 (1.098)	51	524628			0.00- 30.00	12.09
169 Naphthalene					CAS #: 91-20-3		
19.380	19.380 (1.343)	128	3647321	45.9551	45.955	80.00- 120.00	100.00
19.380	19.380 (1.343)	127	456268			0.00- 30.00	12.51
38 tert-Butyl-Alcohol					CAS #: 75-65-0		
4.809	4.809 (0.667)	59	1182020	39.1002	39.100	80.00- 120.00	100.00
4.809	4.809 (0.667)	41	325511			0.00- 30.00	27.54
4.809	4.809 (0.667)	57	116599			0.00- 30.00	9.86
9 Butane					CAS #: 106-97-8		
2.265	2.293 (0.314)	58	193338	43.1712	43.171	80.00- 120.00	100.00
2.265	2.293 (0.314)	43	1669579			0.00- 30.00	863.55
15 Isopentane					CAS #: 78-78-4		
2.846	2.873 (0.394)	43	1396162	43.5086	43.509	80.00- 120.00	100.00
2.846	2.873 (0.394)	57	844724			0.00- 30.00	60.50
2.846	2.873 (0.394)	72	78908			0.00- 30.00	5.65
95 Methyl Cyclohexane					CAS #: 108-87-2		
9.703	9.731 (1.345)	83	1589851	42.5070	42.507	80.00- 120.00	100.00
9.703	9.731 (1.345)	98	730558			0.00- 30.00	45.95
9.703	9.731 (1.345)	55	1565480			0.00- 30.00	98.47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032004.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ct
Method File: /chem/msd8.i/8-20mar.b/t14q307a.m
Misc Info: 50ppbv (100ppbv)

Calibration Date: 20-MAR-2008
Calibration Time: 11:17
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	352131	211279	492983	290983	-17.37
88 1,4-Difluorobenze	1656150	993690	2318610	1315038	-20.60
125 Chlorobenzene-d5	997112	598267	1395957	822193	-17.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
68 Bromochloromethan	7.24	6.91	7.57	7.21	-0.38
88 1,4-Difluorobenze	9.09	8.76	9.42	9.09	0.00
125 Chlorobenzene-d5	14.43	14.10	14.76	14.43	0.00

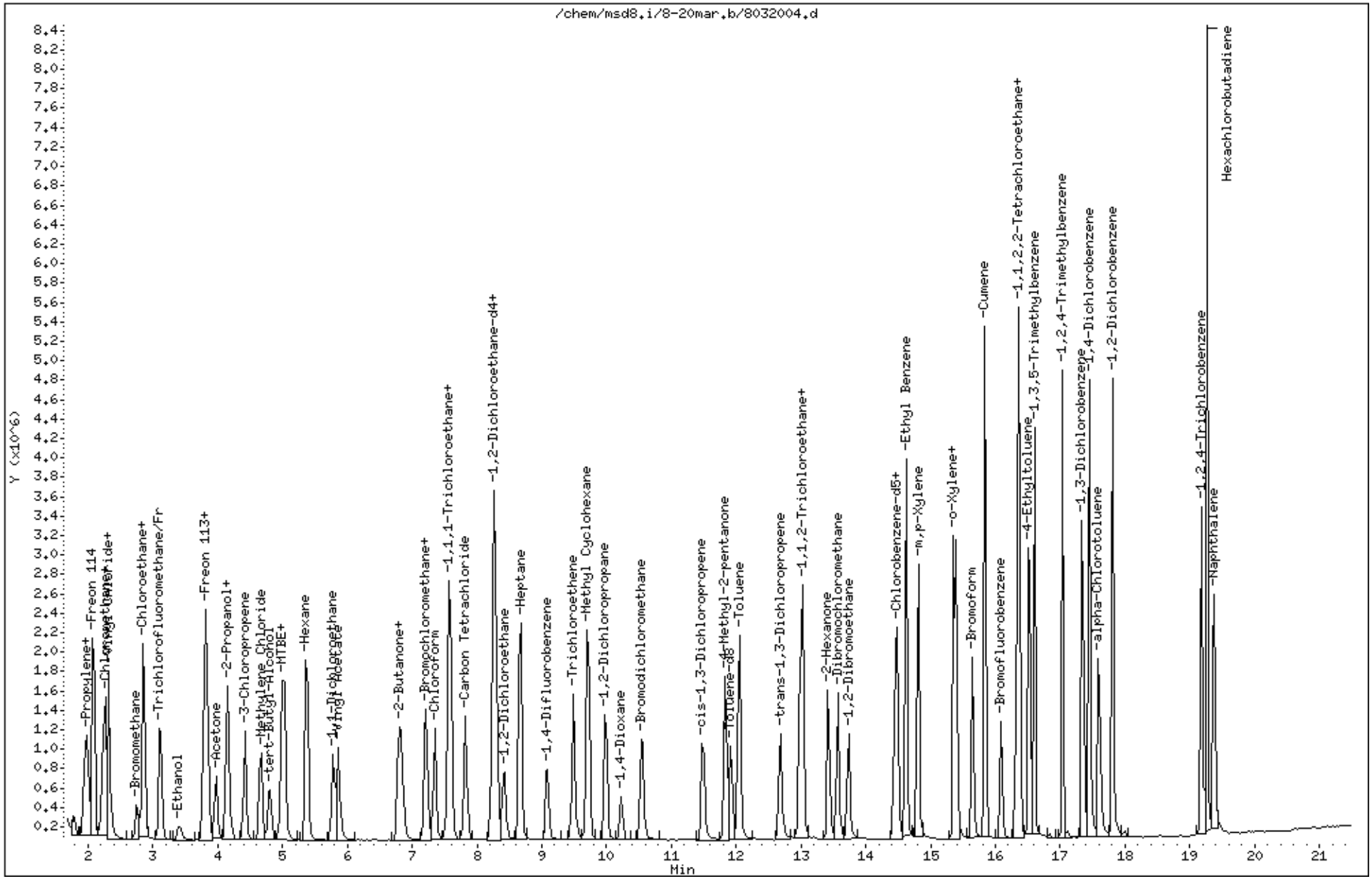
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msd8.i/8-20mar.b/8032004.d
Date : 20-MAR-2008 11:45
Client ID: LCS-1
Sample Info: 100mL #1576-259A

Instrument: msd8.i
Operator: ct
Column diameter: 0.53

Column phase: RTx-624

0177



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MSD-8

Logbook #: 1647

0178

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	20.38
75	30.0 – 60.0% of mass 95	44.65
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.81
173	Less than 2.0% of mass 174	(0.00)[1]
174	50.0 – 100% of mass 95	93.43
175	5.0 – 9.0% of mass 174	(7.37)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(97.45)[1]
177	5.0 – 9.0% of mass 176	(6.55)[2]

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

BFB Injection Date: 3-20-08
BFB Injection Time: 1028
BFB File ID: 8032002
Tekmar Purge Flow: 16.0 mL/min
Vacuum: 8.4×10^{-6}

IS/S Std.#: 1541-51	Exp. Date: 5/28/08
BCM	352131
1,4-DFB	1656150
CB-d5	997112

Verified CCV IS vs ICAL mid-point (- 40%D) CT initials 8031904

Verify 176/174 m/z Ratio: 119296 / 122492 × 100 = 97.45

NOAH Cart #: 7 **File #:**

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(593533)}{(352131)} \times \frac{(25)}{(1.76187)} = 23.917$

Reported Result 23.917

File ID: 8032003
Compound: 1,2-DCA-d4
Initials: CT

Method: T149307a

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loaded by Init.	Date Analyzed	Time Analyzed	Reviewed by Init.	Comments
1	X	8032001	BFB Tune Check	1476278	50ng	2mL	1.00	CT	3-20-08	1016	CT	
2	↓	02	BFB Tune Check	↓	↓	↓				1028	CT	Single scan 2nd Injection
3	↓	03	CCV-1 (100ppbv)	1516271A	50ppbv	100mL				1117	CT	
4	↓	04	LCS-1 (100ppbv)	1516259A	50ppbv	100mL	↓			1145	CT	
5	X	05	Lab Blank	13673	Humid	200mL	1.00			1231	CT	Cart Cart 14 Leg3
6	↓	06	Lab Blank	↓	↓	↓	1.00			1316	CT	Cart Cart 11 Leg4
7	↓	07	Lab Blank	↓	↓	↓	1.00	↓	↓	1403	CT	Cart Cart 8 Leg8

C Taylor
Signature

3-20-08
Date

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MSD-8

Logbook #: 1647

8	✓	8032008	0803170B-02AA	5747	6.5"Hg→5psi	8.0mL	42.8	CP	3-20-08	1456	CP	d.f due to Matrix
9	X	09	0803163-04A	33735	10"Hg→15psi	1.0mL	606	↓	↓	1556	CP	RR @ 1mL of 200X
10	✓	10	↓ -08A	1419	5.5"Hg→15psi 6.8psi→15psi	4.0mL	197			1623	CJ	Sport matrix d.f due to non-Target
11	✓	11	↓ -08AA	↓	↓	4.0mL	↓	↓	↓	1651	CP	↓
12	X	12	System Blank	13673	Humid	200mL	1.00	KR		1744	KR	
13	X	13	System Blank	↓	↓	↓	↓	KR		1840	KR	low pressure in can
14	✓	14	System Blank	12941	Humid	200mL	1.00	KR		1936	KR	
15	✓	15	0803163-09A	25206	5.5"Hg-15psi	50mL	2260	KR		2029	KR	200X Hexane, Butane Isopentane 5400
16	✓	16	↓ -01A	97102	16.5"Hg-15psi	20mL	6220	KR		2104	KR	200X Dil for NT
17	✓	17	0803357B-02A	36048	3.0"Hg-5psi	200mL	1.49	KR		2205	KR	Hexane ND
18	✓	18	↓ -04A	33993	3.5"Hg		1.52	↓		2300	CB	
19	✓	19	↓ -06A	4243	3.0"Hg	↓	1.49		↓	2343	CB	
20	✓	20	0803235A-01A	10978	2.0"Hg	200mL	1.44		3/21/08	0025	CB	
21	X	21	↓ -02A	4200	1.5"Hg	5mL	564	↓		0104	CB	RR @ 100mL
22	✓	22	-02A	↓	↓	100mL	2.82	CB		0146	CB	D.f for NT
23	✓	23	↓ -02AA	↓	↓ ↓	↓	↓	↓		0225	CB	↓
24	✓	24	0803198A-01A	34370	0.0"Hg-5psi	1.5mL	179	↓		0302	CB	E flag EtOH
25	✓	25	↓ -01AA	↓	↓	↓	↓	CB		0340	CB	↓
26	✓	26	0803208A-01A	3733	7.0"Hg-5psi	200mL	1.75	↓		0433	CB	
27	✓	27	↓ -02A	13676	5.5"Hg	↓	1.64			0516	CB	
28	✓	28	-02AA	↓	↓		↓			0558	CB	
29	✓	29	-03A	33893	4.5"Hg		1.58			0641	LO	
30	✓	30	-04A	30836	6.0"Hg		1.68			0723	LO	
31	✓	31	↓ -05A	419	1.0"Hg	↓	1.39	↓	↓	0805	SM	
	✓	32	0803212-01A	56310	0.6psi-15psi	200mL	1.94			0848	SM	
	✓	33	0803303-01A	13661	10"Hg-5psi		1.39			0930	SM	
	✓	34	-02A	23923	0.2psi-5psi		1.32			1013	SM	
	X	35	↓ -02AA	↓	↓	↓	↓	↓	↓	1055	SM	clock out

Comments:

Signature

3/21/08
Date

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-07mar.b/8030710.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 07-MAR-2008 16:10
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-191
Comment :
Method : /var/chem/msd8.i/8-07mar.b/bfb30.m
Meth Date : 07-Mar-2008 16:00 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	2.00000	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		
3.610	3.748	-0.138	95	673585			100.00- 100.00	100.00
3.610	3.748	-0.138	50	167889			15.00- 40.00	24.92
3.610	3.748	-0.138	75	323396			30.00- 60.00	48.01
3.610	3.748	-0.138	96	42565			5.00- 9.00	6.32
3.610	3.748	-0.138	173	1280			0.00- 2.00	0.28
3.610	3.748	-0.138	174	460397			50.00- 100.00	68.35
3.610	3.748	-0.138	175	34500			5.00- 9.00	7.49
3.610	3.748	-0.138	176	444889			95.00- 101.00	96.63
3.610	3.748	-0.138	177	28799			5.00- 9.00	6.47

Data File: /var/chem/msd8.i/8-07mar.b/8030710.d

Date : 07-MAR-2008 16:10

Client ID: BFB

Instrument: msd8.i

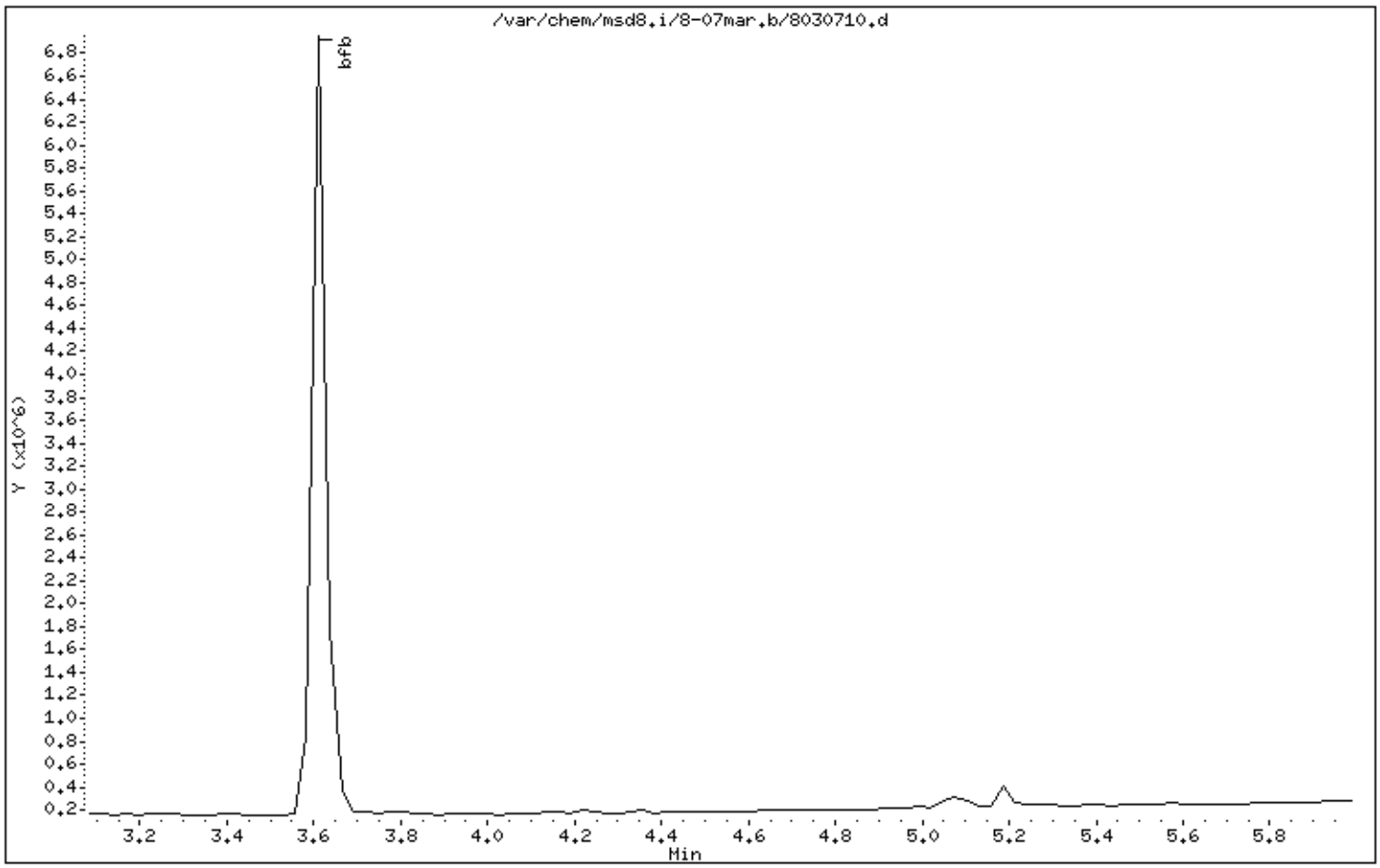
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-07mar.b/8030710.d

Date : 07-MAR-2008 16:10

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

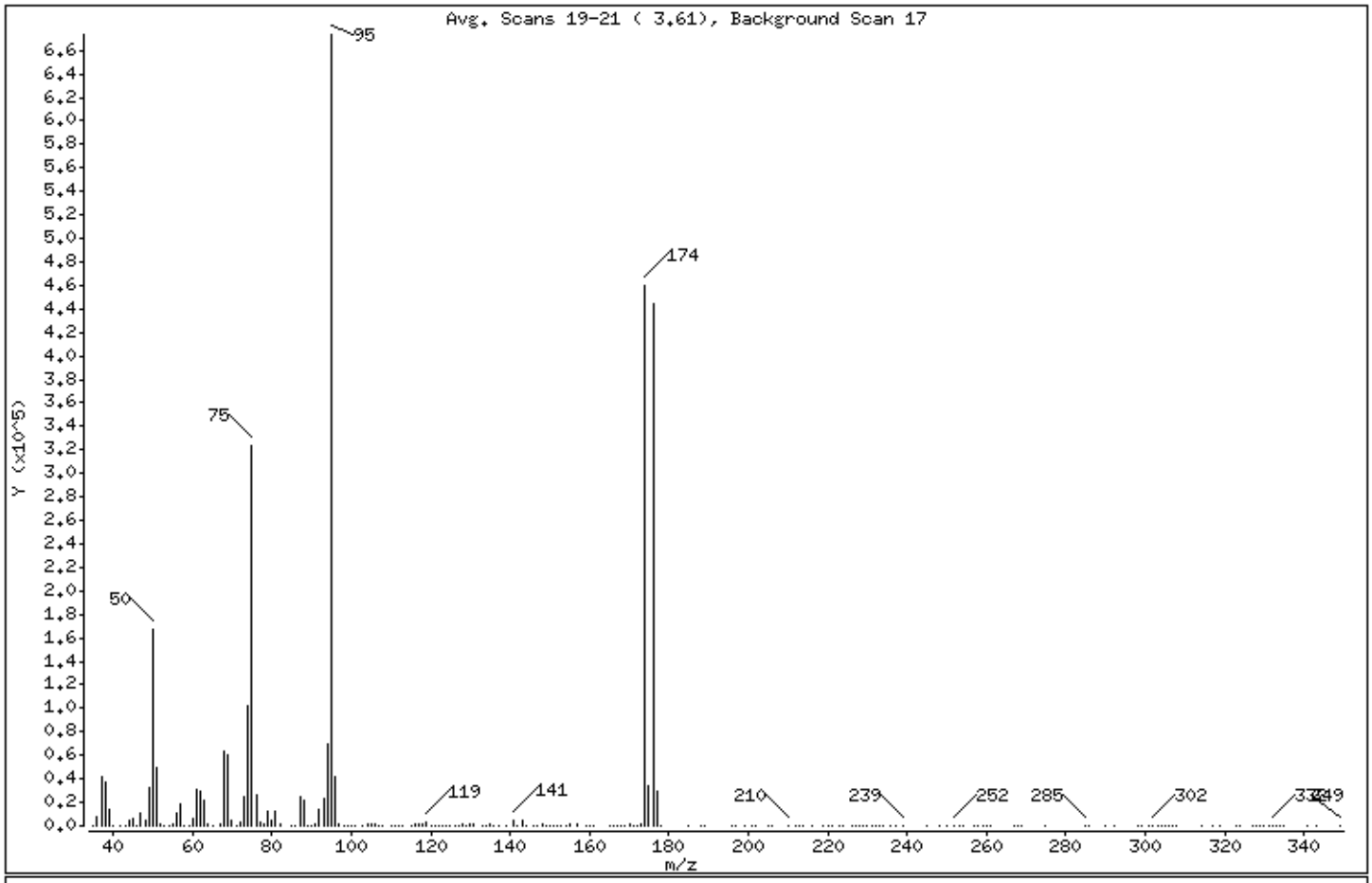
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	24.92
75	30.00 - 60.00% of mass 95	48.01
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.19 (0.28)
174	50.00 - 100.00% of mass 95	68.35
175	5.00 - 9.00% of mass 174	5.12 (7.49)
176	95.00 - 101.00% of mass 174	66.05 (96.63)
177	5.00 - 9.00% of mass 176	4.28 (6.47)

Data File: /var/chem/msd8.i/8-07mar.b/8030710.d

Date : 07-MAR-2008 16:10

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

Data File: 8030710.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	228	91.00	1823	150.00	555	234.00	143
36.00	7636	92.00	14471	151.00	332	236.00	285
37.00	42464	93.00	23904	152.00	177	237.00	20
38.00	37512	94.00	69144	153.00	358	239.00	376
39.00	13591	95.00	673536	154.00	351	245.00	176
40.00	22	96.00	42560	155.00	1242	248.00	193
42.00	240	97.00	1158	157.00	1150	250.00	135
43.00	298	98.00	212	159.00	368	252.00	586
44.00	4672	99.00	23	160.00	126	253.00	303
45.00	6801	100.00	31	161.00	126	254.00	365
46.00	509	101.00	22	165.00	250	257.00	272
47.00	10441	103.00	225	166.00	31	258.00	33
48.00	4515	104.00	1573	167.00	200	259.00	138
49.00	33256	105.00	817	168.00	22	260.00	59
50.00	167872	106.00	1702	169.00	662	261.00	239
51.00	49304	107.00	575	170.00	979	267.00	210
52.00	1757	108.00	274	171.00	173	268.00	234
53.00	162	110.00	668	172.00	735	269.00	488
54.00	27	111.00	640	173.00	1280	275.00	172
55.00	839	112.00	552	174.00	460352	285.00	276
56.00	10284	113.00	182	175.00	34496	286.00	242
57.00	18768	115.00	573	176.00	444864	290.00	199
58.00	700	116.00	1723	177.00	28792	292.00	132
59.00	212	117.00	2164	178.00	599	298.00	78
60.00	5667	118.00	1095	185.00	135	299.00	162
61.00	31216	119.00	2422	188.00	229	301.00	247
62.00	29744	120.00	246	189.00	298	302.00	272
63.00	22200	121.00	182	196.00	147	303.00	180
64.00	1830	122.00	102	197.00	5	304.00	202
65.00	296	123.00	304	199.00	319	305.00	81
67.00	1522	124.00	180	201.00	228	306.00	25
68.00	63144	125.00	5	202.00	132	307.00	155
69.00	60528	126.00	149	205.00	462	308.00	181
70.00	4469	127.00	140	206.00	325	314.00	182
71.00	68	128.00	1586	210.00	488	317.00	247

Date : 07-MAR-2008 16:10

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8030710.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 206

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	2897	129.00	369	212.00	479	319.00	271
73.00	25544	130.00	2207	213.00	139	323.00	155
74.00	102296	131.00	1005	214.00	87	324.00	75
75.00	323392	133.00	582	216.00	330	327.00	97
76.00	26528	134.00	21	219.00	48	328.00	59
77.00	3110	135.00	1195	220.00	194	329.00	109
78.00	2181	136.00	8	221.00	87	330.00	41
79.00	11866	137.00	699	223.00	97	331.00	177
80.00	3959	139.00	478	224.00	144	332.00	249
81.00	12782	141.00	4457	226.00	19	333.00	123
82.00	1928	142.00	515	227.00	119	334.00	105
85.00	95	143.00	4224	228.00	40	335.00	91
86.00	358	144.00	727	229.00	104	341.00	230
87.00	24264	146.00	665	230.00	9	343.00	215
88.00	21664	147.00	341	231.00	17	349.00	162
89.00	32	148.00	1149	232.00	55		
90.00	247	149.00	419	233.00	13		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-10mar.b/8031004.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-MAR-2008 12:11
Operator : cb Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-191
Comment :
Method : /var/chem/msd8.i/8-10mar.b/bfb30.m
Meth Date : 10-Mar-2008 12:00 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	2.00000	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		
3.610	3.748	-0.138	95	836898			100.00- 100.00	100.00
3.610	3.748	-0.138	50	205213			15.00- 40.00	24.52
3.610	3.748	-0.138	75	402632			30.00- 60.00	48.11
3.610	3.748	-0.138	96	54402			5.00- 9.00	6.50
3.610	3.748	-0.138	173	0			0.00- 2.00	0.00
3.610	3.748	-0.138	174	587522			50.00- 100.00	70.20
3.610	3.748	-0.138	175	45229			5.00- 9.00	7.70
3.610	3.748	-0.138	176	560446			95.00- 101.00	95.39
3.610	3.748	-0.138	177	35412			5.00- 9.00	6.32

Data File: /var/chem/msd8.i/8-10mar.b/8031004.d

Date : 10-MAR-2008 12:11

Client ID: BFB

Instrument: msd8.i

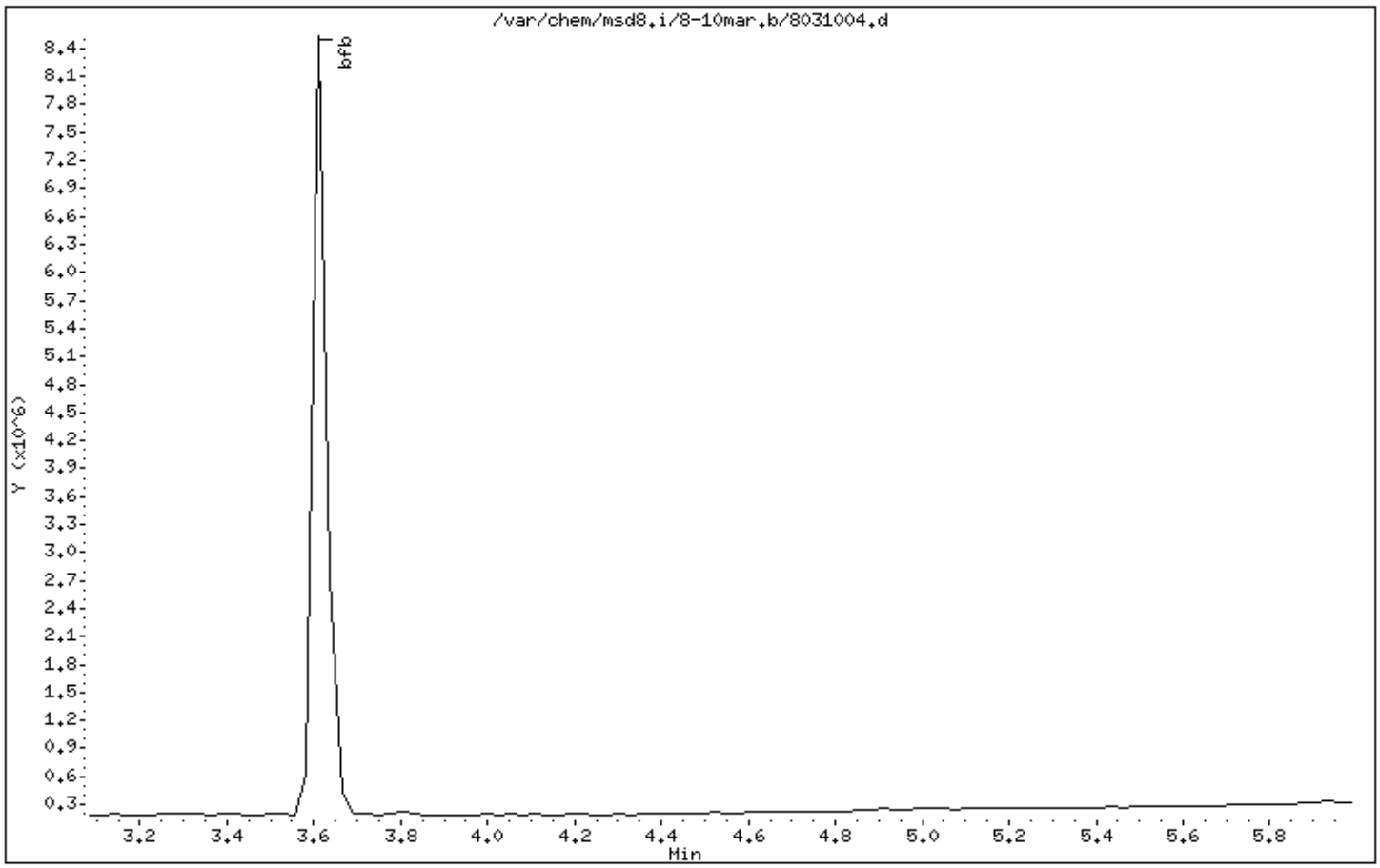
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-10mar.b/8031004.d

Date : 10-MAR-2008 12:11

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

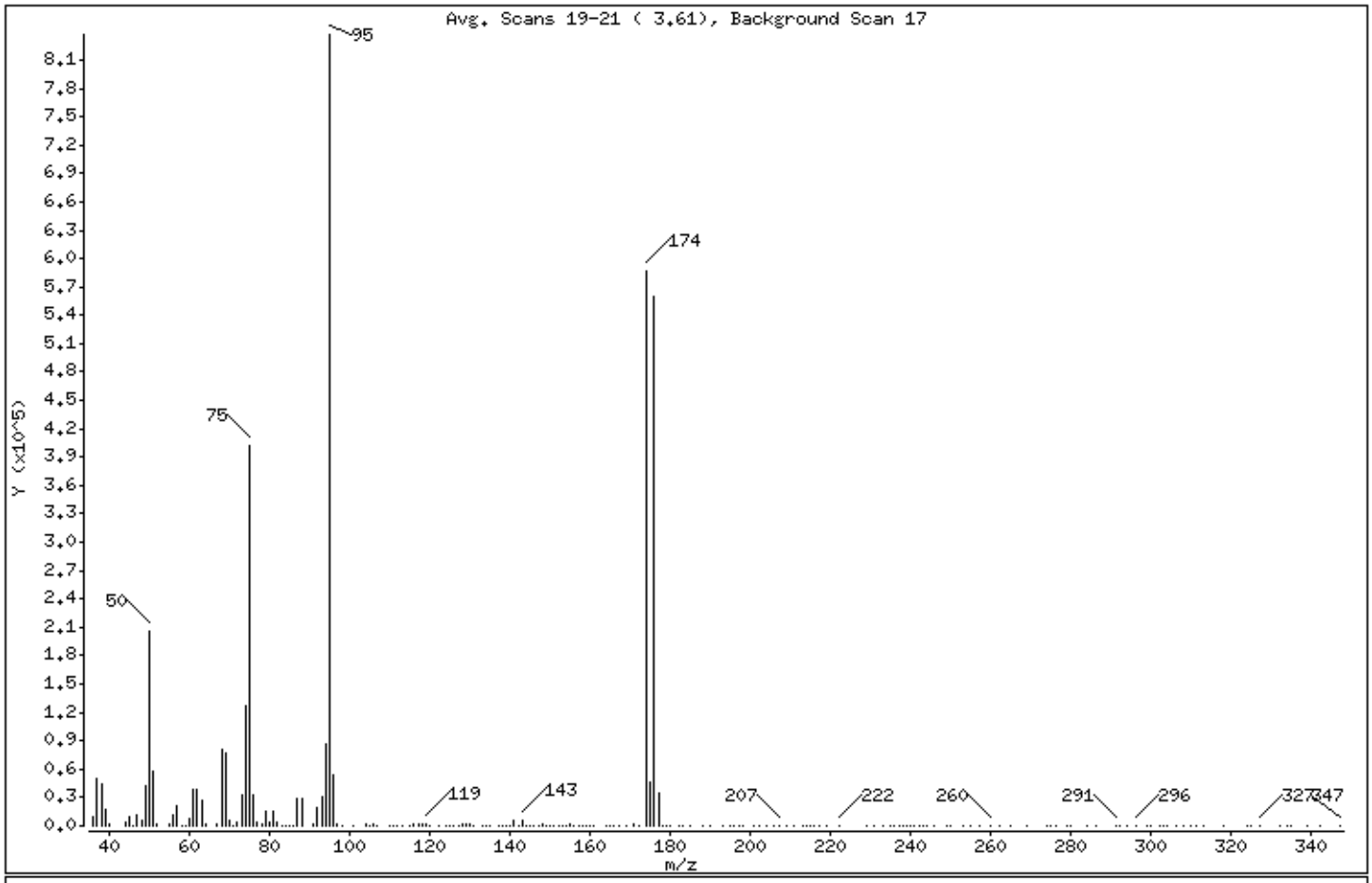
Volume Injected (uL): 2.0

Operator: cb

Column phase:

Column diameter: 0.53

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	24.52
75	30.00 - 60.00% of mass 95	48.11
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	70.20
175	5.00 - 9.00% of mass 174	5.40 (7.70)
176	95.00 - 101.00% of mass 174	66.97 (95.39)
177	5.00 - 9.00% of mass 176	4.23 (6.32)

Date : 10-MAR-2008 12:11

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8031004.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8720	95.00	836864	156.00	512	238.00	9
37.00	49952	96.00	54400	157.00	894	239.00	358
38.00	43592	97.00	1660	158.00	113	240.00	65
39.00	17480	98.00	69	159.00	390	241.00	220
40.00	1121	101.00	312	160.00	118	242.00	78
44.00	4579	104.00	2439	161.00	375	243.00	13
45.00	8797	105.00	604	164.00	464	244.00	116
46.00	237	106.00	2249	165.00	355	246.00	246
47.00	12291	107.00	352	166.00	156	249.00	124
48.00	5425	110.00	99	167.00	119	250.00	60
49.00	41440	111.00	367	169.00	668	253.00	321
50.00	205184	112.00	284	171.00	1592	255.00	35
51.00	58632	113.00	243	172.00	266	257.00	137
52.00	2481	115.00	630	174.00	587520	260.00	347
55.00	1731	116.00	2373	175.00	45224	262.00	308
56.00	11758	117.00	2045	176.00	560384	265.00	31
57.00	21944	118.00	1469	177.00	35408	269.00	98
58.00	738	119.00	2635	178.00	706	274.00	187
59.00	70	120.00	76	179.00	151	275.00	96
60.00	7291	122.00	140	180.00	47	276.00	72
61.00	38640	124.00	381	182.00	124	279.00	300
62.00	37960	125.00	535	183.00	51	280.00	226
63.00	27128	126.00	355	185.00	223	284.00	36
64.00	2206	127.00	366	188.00	42	286.00	186
67.00	1969	128.00	1519	190.00	263	291.00	378
68.00	80272	129.00	1236	193.00	206	292.00	189
69.00	77776	130.00	1520	195.00	9	294.00	79
70.00	5012	131.00	898	196.00	105	296.00	441
71.00	238	133.00	319	197.00	159	299.00	426
72.00	3122	134.00	449	198.00	172	300.00	90
73.00	32464	135.00	551	201.00	208	302.00	77
74.00	126816	137.00	824	202.00	98	303.00	81
75.00	402624	138.00	93	204.00	219	304.00	99
76.00	32640	139.00	524	206.00	512	306.00	405
77.00	4128	140.00	455	207.00	818	308.00	30

Date : 10-MAR-2008 12:11

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: cb

Column phase: Column diameter: 0.53

Data File: 8031004.d
Spectrum: Avg. Scans 19-21 (3.61), Background Scan 17
Location of Maximum: 95.00
Number of points: 198

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	2584	141.00	5373	209.00	271	310.00	8
79.00	15098	142.00	859	211.00	162	311.00	108
80.00	4360	143.00	6126	213.00	396	313.00	79
81.00	14710	144.00	446	214.00	231	318.00	138
82.00	3152	145.00	325	215.00	298	324.00	151
83.00	52	146.00	456	216.00	61	325.00	20
84.00	403	147.00	178	217.00	267	327.00	261
85.00	370	148.00	1104	219.00	13	332.00	209
86.00	306	149.00	602	222.00	489	334.00	85
87.00	28424	150.00	657	229.00	305	335.00	237
88.00	28968	151.00	172	231.00	295	339.00	93
91.00	2296	152.00	404	233.00	17	342.00	15
92.00	18496	153.00	436	235.00	65	347.00	147
93.00	30296	154.00	563	236.00	97		
94.00	86432	155.00	1616	237.00	455		

Air Toxics Ltd.

Data file : /chem/msd8.i/8-20mar.b/8032002.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-MAR-2008 10:28
Operator : ct Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #1476-278
Comment :
Method : /var/chem/msd8.i/8-20mar.b/bfb30.m
Meth Date : 20-Mar-2008 10:05 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	ng unit correction factor
Vf	1.00000	Volumetric correction factor
Vi	2.00000	Injection Volume

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
3.610	3.748	-0.138	95	1310208			100.00- 100.00	100.00
3.610	3.748	-0.138	50	267072			15.00- 40.00	20.38
3.610	3.748	-0.138	75	584960			30.00- 60.00	44.65
3.610	3.748	-0.138	96	89232			5.00- 9.00	6.81
3.610	3.748	-0.138	173	0			0.00- 2.00	0.00
3.610	3.748	-0.138	174	1224192			50.00- 100.00	93.43
3.610	3.748	-0.138	175	90264			5.00- 9.00	7.37
3.610	3.748	-0.138	176	1192960			95.00- 101.00	97.45
3.610	3.748	-0.138	177	78184			5.00- 9.00	6.55

Data File: /chem/msd8.i/8-20mar.b/8032002.d

Date : 20-MAR-2008 10:28

Client ID: BFB

Instrument: msd8.i

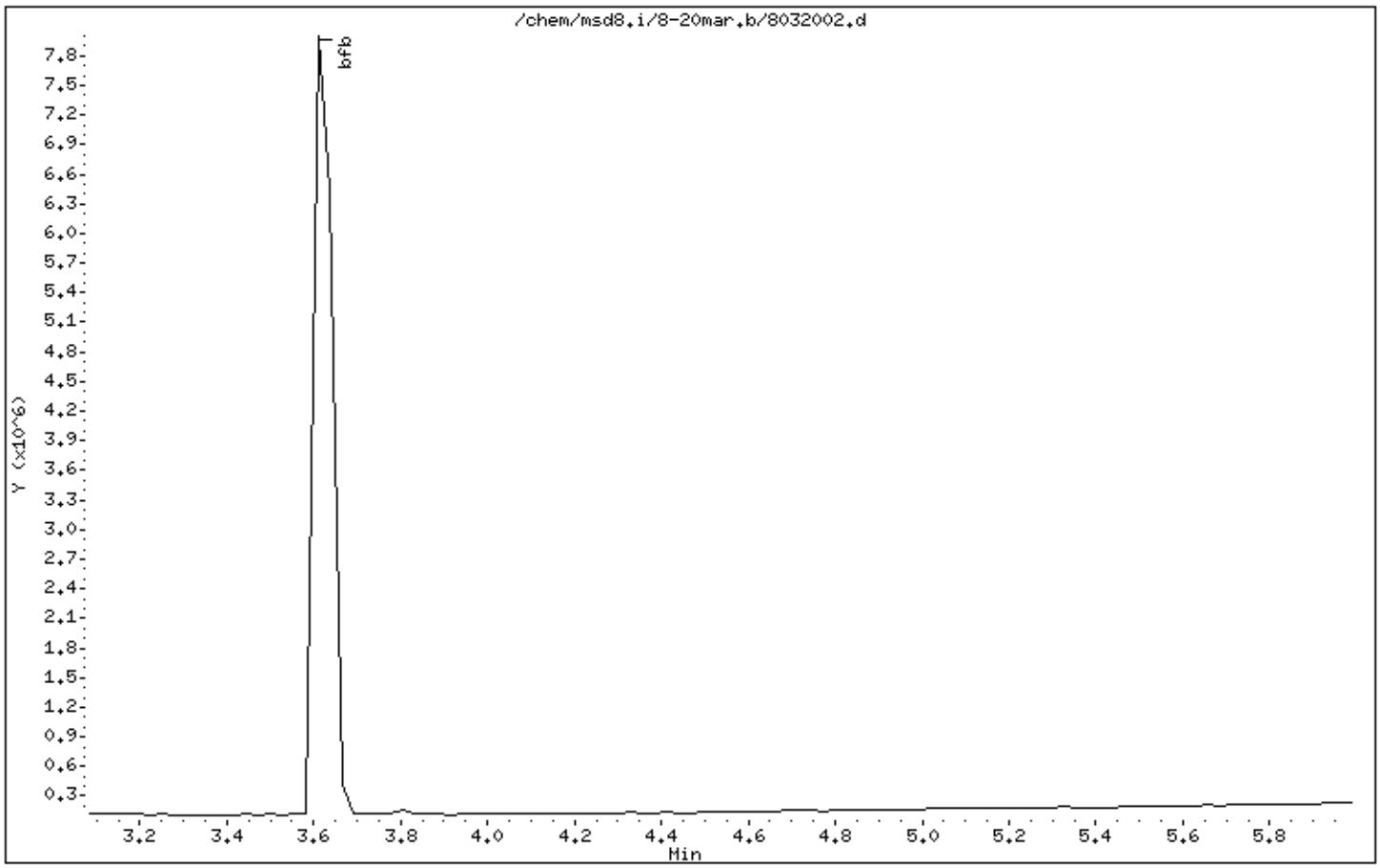
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: ct

Column phase:

Column diameter: 0.53



Data File: /chem/msd8.i/8-20mar.b/8032002.d

Date : 20-MAR-2008 10:28

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

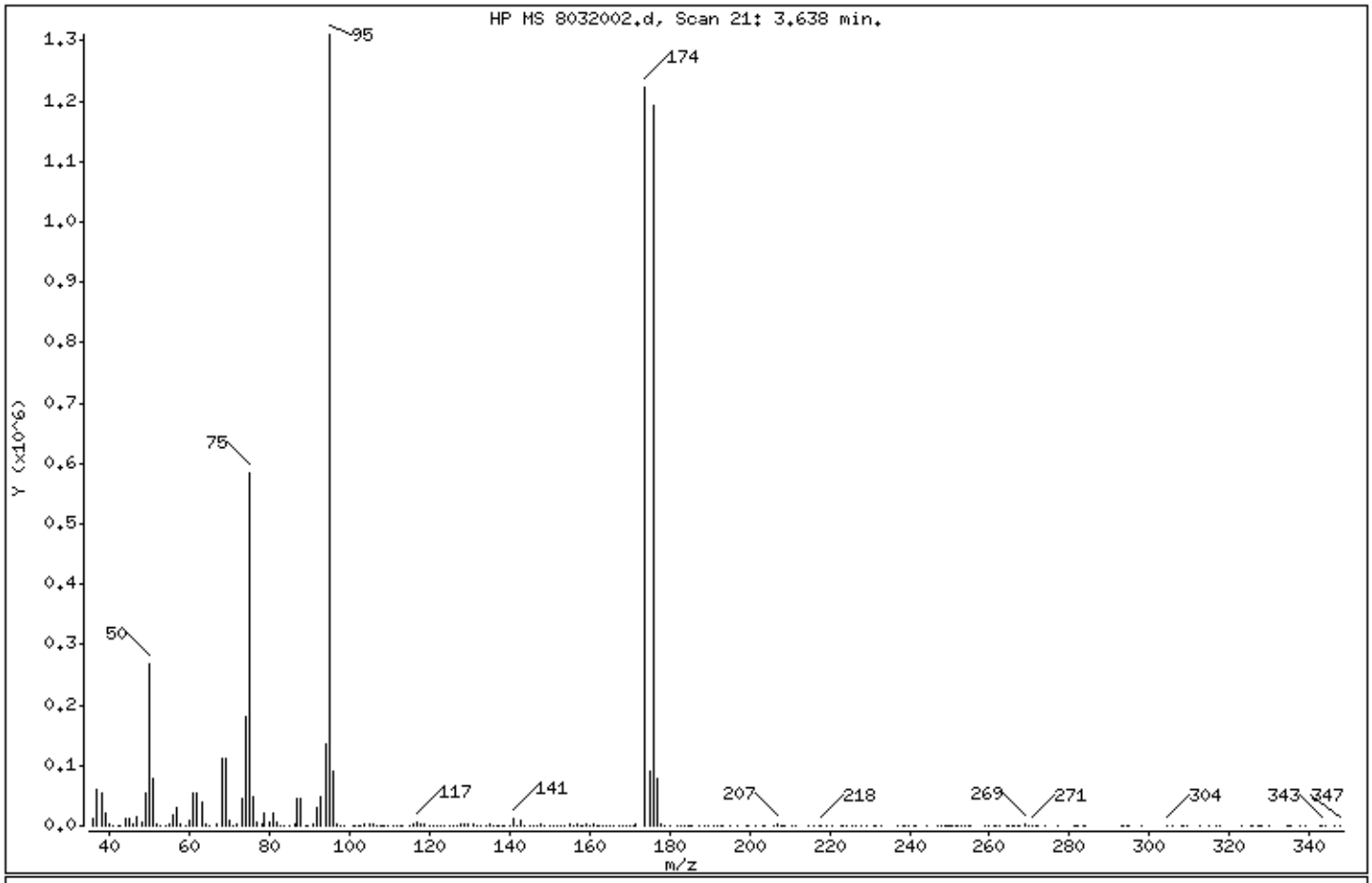
Volume Injected (uL): 2.0

Operator: ct

Column phase:

Column diameter: 0.53

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	20.38
75	30.00 - 60.00% of mass 95	44.65
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	93.43
175	5.00 - 9.00% of mass 174	6.89 (7.37)
176	95.00 - 101.00% of mass 174	91.05 (97.45)
177	5.00 - 9.00% of mass 176	5.97 (6.55)

Date : 20-MAR-2008 10:28

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ct

Column phase: Column diameter: 0.53

Data File: 8032002.d
Spectrum: HP MS 8032002.d, Scan 21: 3.638 min.
Location of Maximum: 95.00
Number of points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	12082	103.90	4331	167.20	495	249.40	201
37.00	59680	105.00	2290	168.40	371	249.80	232
38.00	55264	105.90	3345	169.30	750	250.30	219
39.00	20136	106.90	1141	170.10	794	250.90	232
40.00	2344	107.90	374	171.10	913	251.70	232
41.00	759	108.20	401	171.70	2407	252.20	265
42.10	687	108.90	652	173.90	1224192	253.00	1313
42.90	1320	109.70	644	175.00	90264	254.00	738
44.00	11644	110.80	878	175.90	1192960	254.80	312
45.00	11689	111.90	1021	176.90	78184	255.20	228
46.00	1594	112.70	707	178.00	2151	258.90	490
47.00	15679	113.10	611	179.00	453	259.80	1215
48.00	7158	114.90	1365	180.30	399	261.00	505
49.00	54360	116.00	3054	182.10	288	261.70	211
50.00	267072	116.90	5809	182.70	253	262.30	293
51.00	79296	117.90	3201	183.90	411	264.30	201
52.00	3115	118.90	4370	184.60	236	264.90	260
52.90	366	120.00	334	185.10	406	265.50	379
54.20	606	121.10	308	185.50	211	266.20	262
55.00	2973	122.00	524	187.30	261	266.90	475
56.00	18568	122.60	539	187.60	225	267.50	273
57.00	30264	123.90	634	188.90	225	269.10	3614
57.90	1617	125.10	502	189.80	338	269.90	636
58.90	561	125.90	962	191.00	459	270.90	653
60.00	10265	126.90	948	191.90	705	271.60	372
61.00	54240	127.90	4158	192.90	567	272.20	286
62.00	52848	128.90	1596	193.50	238	273.90	382
63.00	38624	129.80	3286	195.10	442	277.00	203
64.10	3635	130.90	1766	197.10	467	281.00	249
65.10	526	131.90	605	199.10	275	281.50	295
66.90	2391	132.90	869	199.90	206	282.20	367
68.00	110104	134.10	576	201.60	291	283.50	294
69.00	111016	135.00	2446	203.40	440	284.10	301
70.00	8065	135.90	566	203.90	250	292.80	333
70.90	790	137.00	1454	206.10	227	293.40	231

Date : 20-MAR-2008 10:28

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ct

Column phase: Column diameter: 0.53

Data File: 8032002.d
Spectrum: HP MS 8032002.d, Scan 21: 3.638 min.
Location of Maximum: 95.00
Number of points: 265

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.90	4322	137.60	416	207.00	2412	294.30	231
73.00	46480	138.40	390	207.90	298	294.70	203
74.00	180800	138.80	612	208.20	307	297.90	241
75.00	584960	139.90	878	208.80	674	304.50	329
76.00	49440	140.90	10906	210.50	217	305.80	242
77.00	5939	141.80	1020	211.50	247	307.80	247
78.00	4304	142.90	10497	214.70	350	308.40	269
78.90	22240	143.90	887	216.10	212	309.30	205
79.90	7248	145.00	1070	217.40	225	312.40	303
80.90	22536	145.80	1399	218.00	488	315.00	230
81.90	5406	147.00	723	219.10	431	316.80	263
83.00	1199	147.90	3048	220.80	202	317.60	265
83.60	379	148.90	1207	222.70	204	323.20	270
85.20	411	149.90	920	223.20	327	325.10	207
86.20	1517	151.00	514	224.20	266	325.80	235
87.00	45096	151.80	597	225.80	332	327.20	383
88.00	46472	153.00	1225	226.60	216	327.60	250
89.30	635	153.90	1160	227.90	333	328.00	275
89.80	318	154.90	2576	229.20	215	330.00	253
91.00	3926	156.00	640	231.20	203	334.20	219
92.00	30752	156.90	2356	231.70	422	334.70	210
93.00	47640	157.70	376	232.90	286	335.40	252
94.00	134400	158.30	501	237.00	370	337.70	217
95.00	1310208	159.00	1539	238.50	273	339.00	206
96.00	89232	160.20	461	239.00	329	342.50	231
97.00	2828	161.00	1654	239.90	289	343.20	542
98.00	384	161.80	345	240.90	390	344.10	524
98.80	255	162.60	338	241.50	323	346.00	213
100.80	296	163.10	431	244.30	294	347.50	261
101.30	229	164.20	355	247.00	210		
102.30	274	165.00	924	247.90	221		
102.90	821	166.00	445	248.90	357		

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. Theresa Landgraff
FAX #:
FROM: Sample Receiving
Workorder #: 0803303
# of pages (Including Cover): 1

3/28/2008

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

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

0197

Contact		**Project Info:**	**Turn Around Time:**
Company	GEI Consultants, Inc.	P.O. #	
Address	455 Winding Brook Glastonbury CT 06033	Project # 061140 - 8 - 1703	☒ Normal
Phone	860-368-5300 Cell:	Project Name BayShore OU1 Southern cell Air Monitoring	☐ Rush _____
Collected By: Signature: Thomas Tan			Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UW-AMS 3	3/12/08 0545/1345	TO-15 + Naphthalene	-30	-7.25	
02A	DW-AMS 3	3/12/08 0545/1345	TO-15 + Naphthalene	-30	-7.75	

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Tom Tan 3/12/08	Thomas Grosser ATL 3/13/08 1025
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

Notes: used flow controllers included
Initial and final can pressures in inches Hg\
Send Data Peck to Lisa McDonough and EDD to datagroup@geiconsultatns.com

Lab Use Only	Shipper Name	Air Bill #	Opened By	Temp (C)	Condition	Custody Seals Intact?	Work Order #
	FedEx	8612 8341 8936	MG	NA	Good	Yes No (None)	080336 3

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0803303

Client

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

Sales Rep: TB

Phone

631-760-9300 x 12

Fax

Date Promised: 03/27/08
Date Completed: 3/26/08
Date Received: 3/13/08
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitor
Total $: $ 554.00
Logged By: MG

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW-AMS 5	Modified TO-15	3/12/2008	1.0 "Hg	$225.00
02A	DW-AMS 3	Modified TO-15	3/12/2008	0.2 psi	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges 6 Liter Summa Canister (2) @ $50.00 each., Shipment 54021 $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. Theresa Landgraff
GEI Consultants, Inc.
110 Walt Whitman Road
Suite 204
Huntington Station, NY 11746

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0803303

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	NA	☐	☑	☐	Corrective Action issued - #
☑	NA	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

☑	☐	☐	☐	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☑	☐	☐	☐	☐	Hold time is met for all samples 14 day
	☐	☐	☐	☐	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
	☐	☐			TICs between duplicate samples are consistent
NA	☐	☑	☑		Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		☑		Special units for all samples in the final report are correctly calculated
	☐	☑	☐		Manually entered results checked (i.e. special CCV compounds)
	☑	☐	☐		TPH/NMOC (verify calculations and correct reference compound used)
	☑				Chain of Custody scanned correctly
			☐		Verify sample id's vs. chain of custody
☑	☐				Samples pressurized w/ appropriate gas (N2 or He) ☐ Tedlar Bag only
☑	☑				Final pressure consistent with canister size (6L vs. 1L)
☑	☑				Verify receipt pressures against logbook and Target
☑	☑				Verify canister ID #'s
	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: All QC's met. BFB passed on apex +1. 14 day HT.

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
SGM 3/26/08	R: [illegible] 3/26/08	MR 3/26/08	
	T: MR 3/26/08		

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