
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 #: 0704313

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Comments:

Completed by:

Judy Lee	Judy Lee / Document Control	5/2/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0704313

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Dr. Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	061140-8-
FAX:	860-368-5307	**PROJECT #**	Bayshore Southern Cell IRM
DATE RECEIVED:	04/16/2007	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/27/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	BS041207AMS2UW	Modified TO-15	19.0 "Hg
02A	BS041207AMS4DW	Modified TO-15	19.0 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/27/07

Laboratory Director

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

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

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0704313

Two 6 Liter Summa Canister samples were received on April 16, 2007. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

Receiving Notes

Samples BS041207AMS2UW and BS041207AMS4DW were received with significant vacuums remaining in the canisters. The discrepancy was noted in the Sample Receipt Confirmation email/fax. The residual canister vacuum resulted in elevated reporting limits.

Analytical Notes

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

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
BS041207AMS2UW	0704313-01A	4/12/2007	4/16/2007	NA	8	4/20/2007	NA	Good
BS041207AMS4DW	0704313-02A	4/12/2007	4/16/2007	NA	8	4/20/2007	NA	Good
Lab Blank	0704313-03A	NA	NA	NA	NA	4/20/2007	NA	Good
CCV	0704313-04A	NA	NA	NA	NA	4/20/2007	NA	Good
LCS	0704313-05A	NA	NA	NA	NA	4/20/2007	NA	Good

Sample Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: BS041207AMS2UW

Lab ID#: 0704313-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Carbon Disulfide	1.8	6.6	5.7	20
Ethanol	7.3	9.3	14	18

0006

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS041207AMS2UW

Lab ID#: 0704313-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042009**	**Date of Collection:**	**4/12/07**
Dil. Factor:	**3.65**	**Date of Analysis:**	**4/20/07 05:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.8	Not Detected	9.0	Not Detected
Freon 114	1.8	Not Detected	13	Not Detected
Vinyl Chloride	1.8	Not Detected	4.7	Not Detected
Bromomethane	1.8	Not Detected	7.1	Not Detected
Chloroethane	1.8	Not Detected	4.8	Not Detected
Freon 11	1.8	Not Detected	10	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Freon 113	1.8	Not Detected	14	Not Detected
Methylene Chloride	1.8	Not Detected	6.3	Not Detected
1,1-Dichloroethane	1.8	Not Detected	7.4	Not Detected
cis-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Chloroform	1.8	Not Detected	8.9	Not Detected
1,1,1-Trichloroethane	1.8	Not Detected	10	Not Detected
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
Benzene	1.8	Not Detected	5.8	Not Detected
1,2-Dichloroethane	1.8	Not Detected	7.4	Not Detected
Trichloroethene	1.8	Not Detected	9.8	Not Detected
1,2-Dichloropropane	1.8	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
Toluene	1.8	Not Detected	6.9	Not Detected
trans-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
1,1,2-Trichloroethane	1.8	Not Detected	10	Not Detected
Tetrachloroethene	1.8	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.8	Not Detected	14	Not Detected
Chlorobenzene	1.8	Not Detected	8.4	Not Detected
Ethyl Benzene	1.8	Not Detected	7.9	Not Detected
m,p-Xylene	1.8	Not Detected	7.9	Not Detected
o-Xylene	1.8	Not Detected	7.9	Not Detected
Styrene	1.8	Not Detected	7.8	Not Detected
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,2,4-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,3-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,4-Dichlorobenzene	1.8	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.8	Not Detected	9.4	Not Detected
1,2-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,3-Butadiene	1.8	Not Detected	4.0	Not Detected
Hexane	1.8	Not Detected	6.4	Not Detected
Cyclohexane	1.8	Not Detected	6.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS041207AMS2UW

Lab ID#: 0704313-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042009**	**Date of Collection: 4/12/07**	
Dil. Factor:	**3.65**	**Date of Analysis: 4/20/07 05:05 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.8	Not Detected	7.5	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
Dibromochloromethane	1.8	Not Detected	16	Not Detected
Cumene	1.8	Not Detected	9.0	Not Detected
Propylbenzene	1.8	Not Detected	9.0	Not Detected
Chloromethane	7.3	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	7.3	Not Detected	54	Not Detected
Hexachlorobutadiene	7.3	Not Detected	78	Not Detected
Acetone	7.3	Not Detected	17	Not Detected
Carbon Disulfide	1.8	6.6	5.7	20
2-Propanol	7.3	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.8	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.8	Not Detected U J	5.4	Not Detected U J
1,4-Dioxane	7.3	Not Detected	26	Not Detected
4-Methyl-2-pentanone	1.8	Not Detected	7.5	Not Detected
2-Hexanone	7.3	Not Detected	30	Not Detected
Bromoform	1.8	Not Detected	19	Not Detected
4-Ethyltoluene	1.8	Not Detected	9.0	Not Detected
Ethanol	7.3	9.3	14	18
Methyl tert-butyl ether	1.8	Not Detected	6.6	Not Detected
3-Chloropropene	7.3	Not Detected	23	Not Detected
2,2,4-Trimethylpentane	1.8	Not Detected	8.5	Not Detected
Naphthalene	7.3	Not Detected	38	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20apr.b/8042009.d
Lab Smp Id: 0704313-01A
Inj Date : 20-APR-2007 17:05
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #31431
Misc Info : 19.0"Hg-5.0psi
Comment :
Method : /var/chem/msd8.i/8-20apr.b/t14q322b.m
Meth Date : 20-Apr-2007 10:35 jgray Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1
Dil Factor: 3.65000
Integrator: HP RTE Compound Sublist: AT04+Na.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 67 Bromochloromethane					CAS #: 74-97-5		
8.395	8.395 (1.000)	130	188649	25.0000		80.00- 120.00	100.00
8.395	8.395 (1.000)	128	153804			44.60- 104.60	81.53
8.395	8.395 (1.000)	49	538357			247.01- 307.01	285.37
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.247	10.275 (1.000)	114	819799	25.0000		80.00- 120.00	100.00
10.247	10.248 (1.000)	88	149918			0.00- 48.93	18.29
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	582780	25.0000		80.00- 120.00	100.00
15.197	15.224 (1.000)	82	388290			35.49- 95.49	66.63
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	391912	24.0337	24.034	80.00- 120.00	100.00
9.473	9.473 (1.128)	67	190660			27.92- 87.92	48.65
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	709010	21.9920	21.992	80.00- 120.00	100.00
12.985	12.985 (1.267)	70	97428			0.00- 42.61	13.74

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	495700			40.27- 100.27	69.91
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	271194	22.7071	22.707	80.00- 120.00	100.00
16.745	16.745 (1.100)	95	471293			144.30- 204.30	173.78
16.773	16.773 (1.102)	176	255696			70.67- 130.67	94.29
21 Ethanol					CAS #: 64-17-5		
4.303	4.331 (0.513)	45	21963	2.56011	9.344	80.00- 120.00	100.00
4.303	4.331 (0.513)	43	34920			0.00- 50.43	158.99
4.330	4.331 (0.516)	46	15466			12.21- 72.21	70.42
33 Carbon Disulfide					CAS #: 75-15-0		
5.132	5.188 (0.611)	76	84549	1.80194	6.577	80.00- 120.00	100.00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8042009.d
Lab Smp Id: 0704313-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 19.0"Hg-5.0psi

Calibration Date: 20-APR-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	260063	156038	364088	188649	-27.46
86 1,4-Difluorobenze	1089176	653506	1524846	819799	-24.73
123 Chlorobenzene-d5	818159	490895	1145423	582780	-28.77

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.39	0.00
86 1,4-Difluorobenze	10.28	9.95	10.61	10.25	-0.27
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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: 27-Apr-2007 10:24

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0704313-01A
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 19.0"Hg-5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 80 1,2-Dichloroethane	25.000	24.034	96.13	70-130
$ 102 Toluene-d8	25.000	21.992	87.97	70-130
$ 138 Bromofluorobenzene	25.000	22.707	90.83	70-130

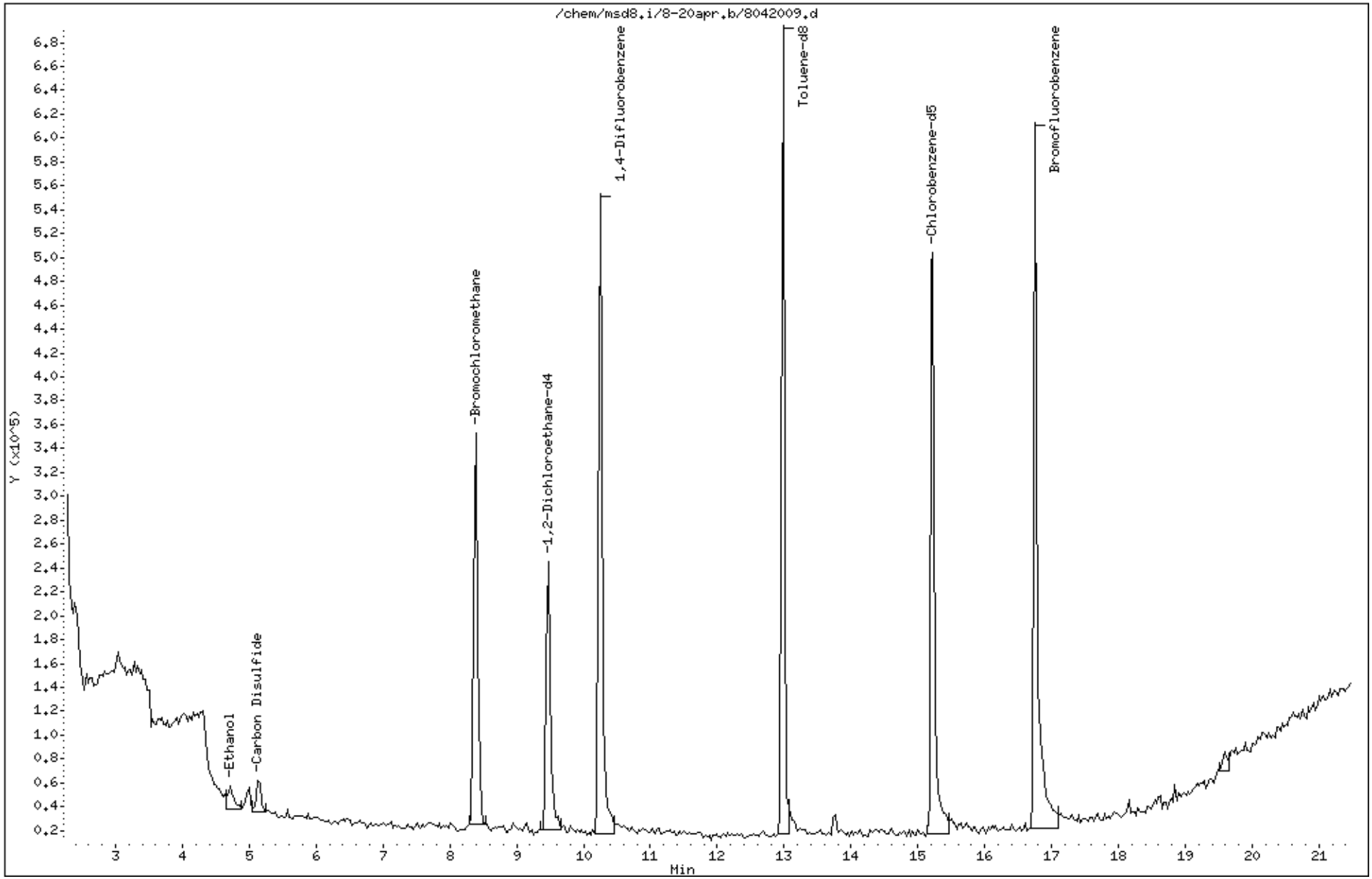
0013

Data File: /chem/msd8.i/8-20apr.b/8042009.d
Date : 20-APR-2007 17:05
Client ID:
Sample Info: 200mL #31431

Column phase: RTx-624

Instrument: msd8.i

Operator: JG
Column diameter: 0.53



Data File: /chem/msd8.i/8-20apr.b/8042009.d

Date : 20-APR-2007 17:05

Client ID:

Instrument: msd8.i

Sample Info: 200mL #31431

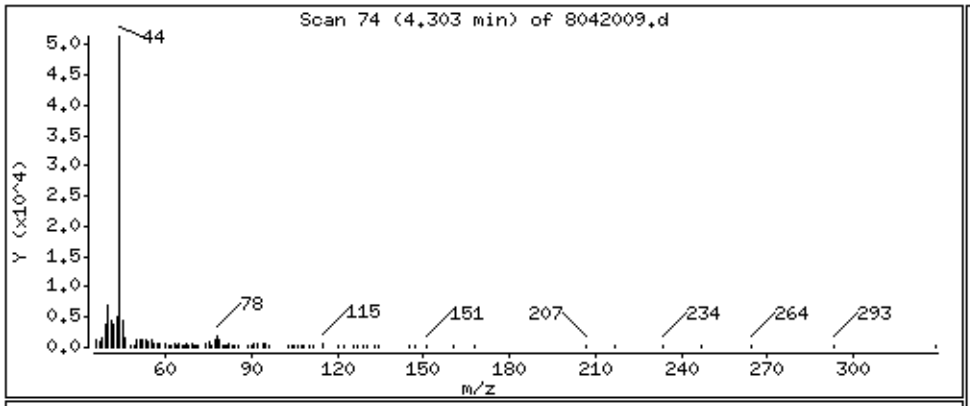
Operator: JG

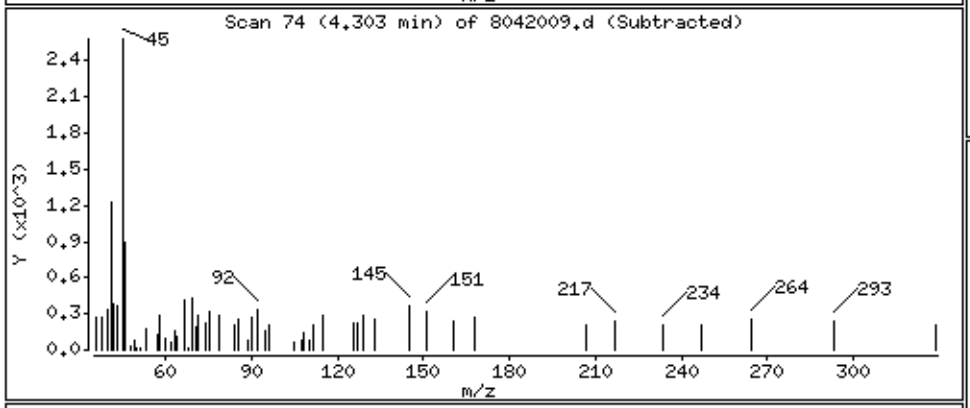
Column phase: RTx-624

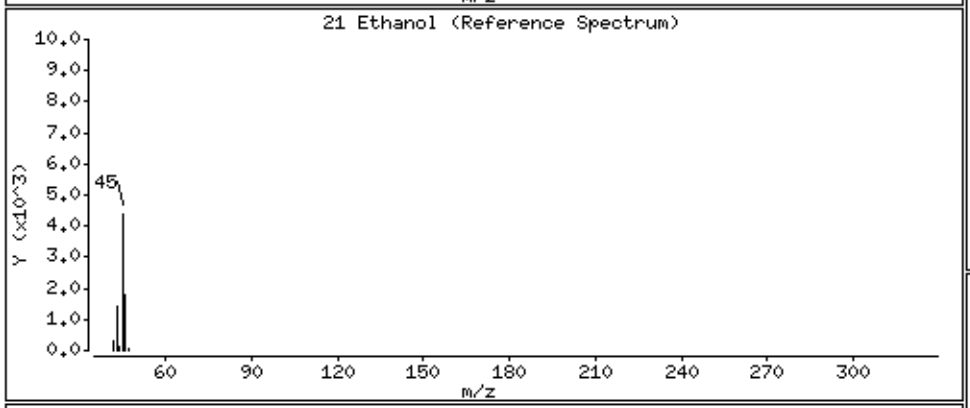
Column diameter: 0.53

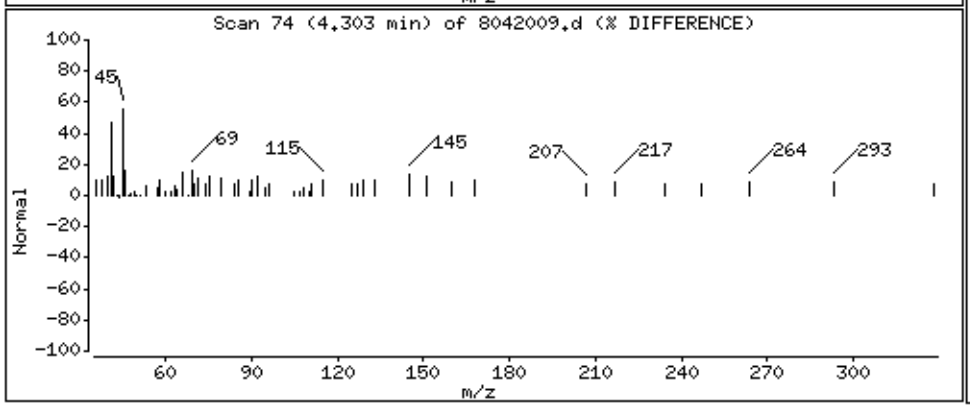
21 Ethanol

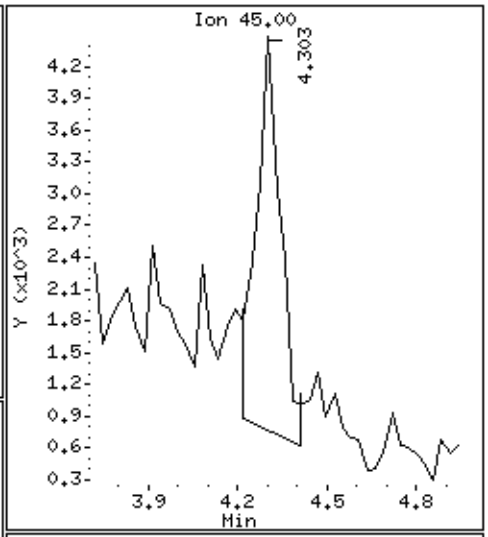
Concentration: 9.344 PPBV

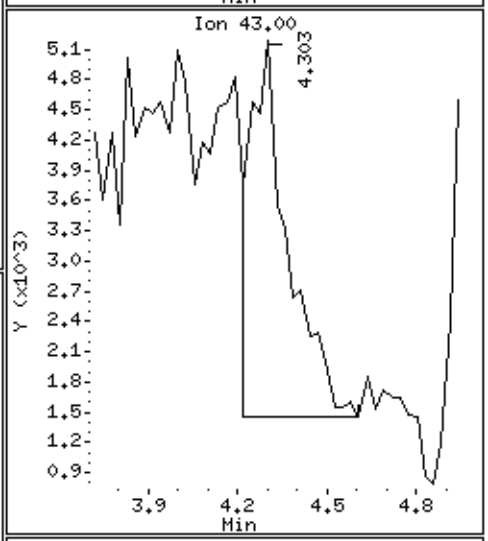


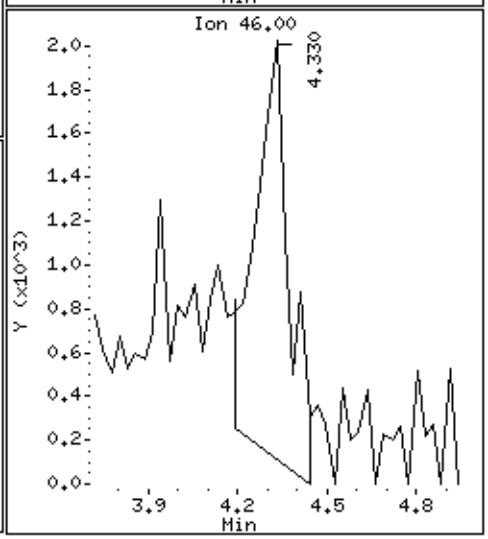












Data File: /chem/msd8.i/8-20apr.b/8042009.d

Date : 20-APR-2007 17:05

Client ID:

Instrument: msd8.i

Sample Info: 200mL #31431

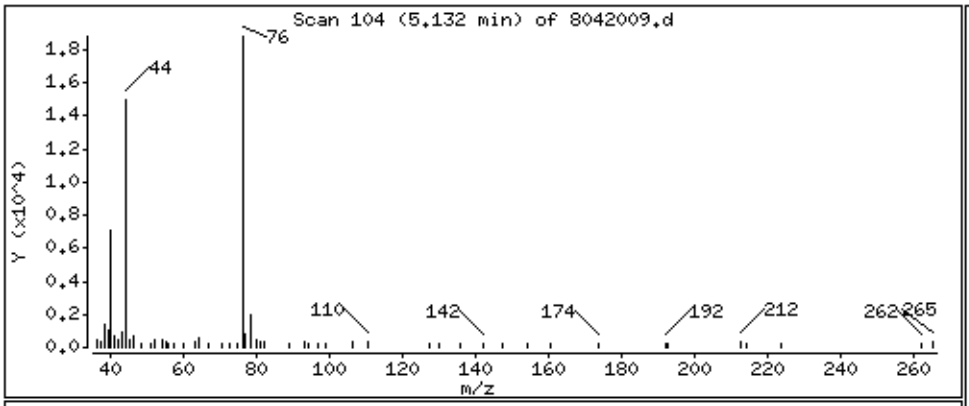
Operator: JG

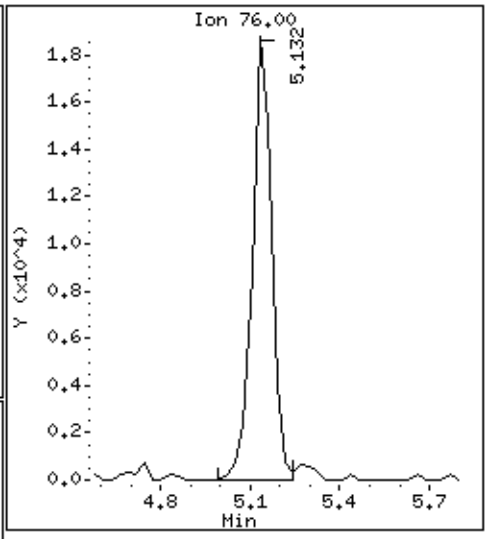
Column phase: RTx-624

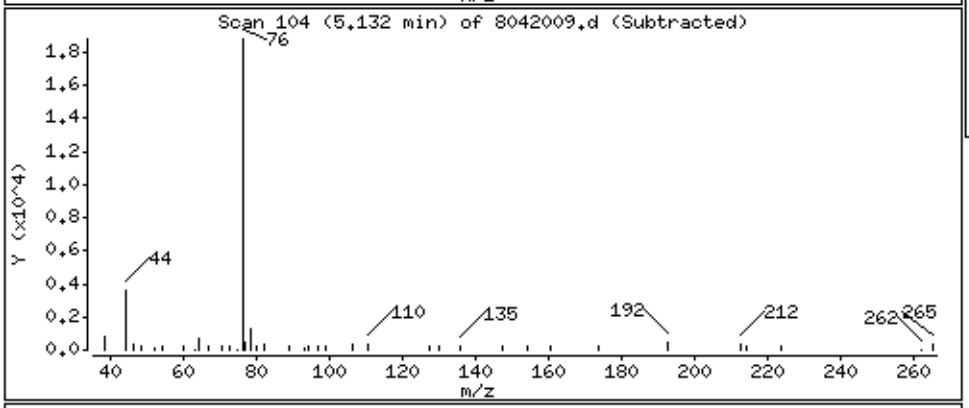
Column diameter: 0.53

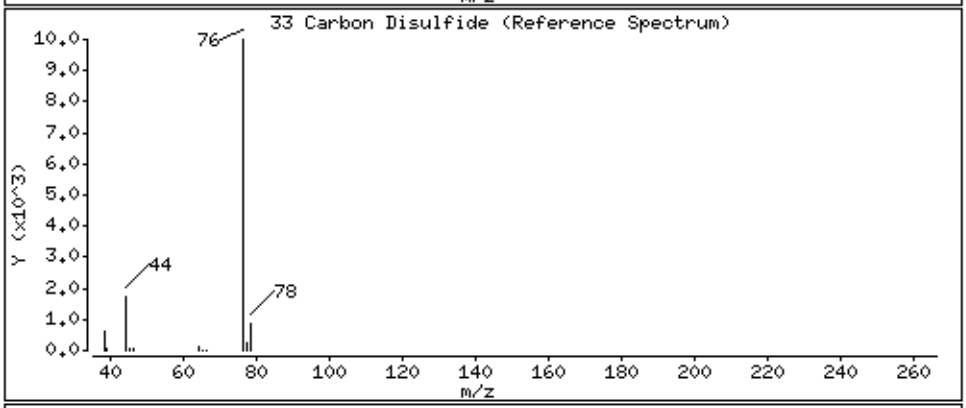
33 Carbon Disulfide

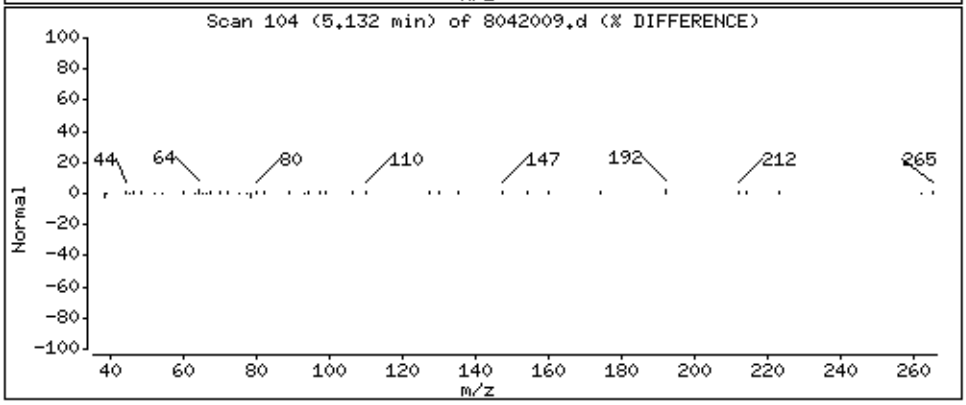
Concentration: 6.577 PPBV











AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: BS041207AMS4DW

Lab ID#: 0704313-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	7.3	9.0	17	21
Carbon Disulfide	1.8	2.5	5.7	7.7
Ethanol	7.3	18	14	34

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS041207AMS4DW

Lab ID#: 0704313-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042010**	**Date of Collection:**	**4/12/07**
Dil. Factor:	**3.65**	**Date of Analysis:**	**4/20/07 05:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.8	Not Detected	9.0	Not Detected
Freon 114	1.8	Not Detected	13	Not Detected
Vinyl Chloride	1.8	Not Detected	4.7	Not Detected
Bromomethane	1.8	Not Detected	7.1	Not Detected
Chloroethane	1.8	Not Detected	4.8	Not Detected
Freon 11	1.8	Not Detected	10	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Freon 113	1.8	Not Detected	14	Not Detected
Methylene Chloride	1.8	Not Detected	6.3	Not Detected
1,1-Dichloroethane	1.8	Not Detected	7.4	Not Detected
cis-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Chloroform	1.8	Not Detected	8.9	Not Detected
1,1,1-Trichloroethane	1.8	Not Detected	10	Not Detected
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
Benzene	1.8	Not Detected	5.8	Not Detected
1,2-Dichloroethane	1.8	Not Detected	7.4	Not Detected
Trichloroethene	1.8	Not Detected	9.8	Not Detected
1,2-Dichloropropane	1.8	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
Toluene	1.8	Not Detected	6.9	Not Detected
trans-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
1,1,2-Trichloroethane	1.8	Not Detected	10	Not Detected
Tetrachloroethene	1.8	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.8	Not Detected	14	Not Detected
Chlorobenzene	1.8	Not Detected	8.4	Not Detected
Ethyl Benzene	1.8	Not Detected	7.9	Not Detected
m,p-Xylene	1.8	Not Detected	7.9	Not Detected
o-Xylene	1.8	Not Detected	7.9	Not Detected
Styrene	1.8	Not Detected	7.8	Not Detected
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,2,4-Trimethylbenzene	1.8	Not Detected	9.0	Not Detected
1,3-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,4-Dichlorobenzene	1.8	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.8	Not Detected	9.4	Not Detected
1,2-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,3-Butadiene	1.8	Not Detected	4.0	Not Detected
Hexane	1.8	Not Detected	6.4	Not Detected
Cyclohexane	1.8	Not Detected	6.3	Not Detected

0017

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BS041207AMS4DW

Lab ID#: 0704313-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042010**	**Date of Collection:**	**4/12/07**
Dil. Factor:	**3.65**	**Date of Analysis:**	**4/20/07 05:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	1.8	Not Detected	7.5	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
Dibromochloromethane	1.8	Not Detected	16	Not Detected
Cumene	1.8	Not Detected	9.0	Not Detected
Propylbenzene	1.8	Not Detected	9.0	Not Detected
Chloromethane	7.3	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	7.3	Not Detected	54	Not Detected
Hexachlorobutadiene	7.3	Not Detected	78	Not Detected
Acetone	7.3	9.0	17	21
Carbon Disulfide	1.8	2.5	5.7	7.7
2-Propanol	7.3	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.8	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.8	Not Detected U J	5.4	Not Detected U J
1,4-Dioxane	7.3	Not Detected	26	Not Detected
4-Methyl-2-pentanone	1.8	Not Detected	7.5	Not Detected
2-Hexanone	7.3	Not Detected	30	Not Detected
Bromoform	1.8	Not Detected	19	Not Detected
4-Ethyltoluene	1.8	Not Detected	9.0	Not Detected
Ethanol	7.3	18	14	34
Methyl tert-butyl ether	1.8	Not Detected	6.6	Not Detected
3-Chloropropene	7.3	Not Detected	23	Not Detected
2,2,4-Trimethylpentane	1.8	Not Detected	8.5	Not Detected
Naphthalene	7.3	Not Detected	38	Not Detected

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

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20apr.b/8042010.d
Lab Smp Id: 0704313-02A
Inj Date : 20-APR-2007 17:47
Operator : JG Inst ID: msd8.i
Smp Info : 200mL#24228
Misc Info : 19.0"Hg-5.0psi
Comment :
Method : /var/chem/msd8.i/8-20apr.b/t14q322b.m
Meth Date : 20-Apr-2007 10:35 jgray Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1
Dil Factor: 3.65000
Integrator: HP RTE Compound Sublist: AT04+Na.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 67 Bromochloromethane					CAS #: 74-97-5		
8.395	8.395 (1.000)	130	188117	25.0000		80.00- 120.00	100.00
8.395	8.395 (1.000)	128	149132			44.60- 104.60	79.28
8.395	8.395 (1.000)	49	539145			247.01- 307.01	286.60
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.247	10.275 (1.000)	114	794609	25.0000		80.00- 120.00	100.00
10.247	10.248 (1.000)	88	144041			0.00- 48.93	18.13
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	573560	25.0000		80.00- 120.00	100.00
15.224	15.224 (1.000)	82	408290			35.49- 95.49	71.19
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	383988	23.6144	23.614	80.00- 120.00	100.00
9.473	9.473 (1.128)	67	186539			27.92- 87.92	48.58
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	726804	23.2586	23.259	80.00- 120.00	100.00
12.985	12.985 (1.267)	70	90492			0.00- 42.61	12.45

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	475431			40.27- 100.27	65.41
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	271410	23.0905	23.090	80.00- 120.00	100.00
16.745	16.745 (1.100)	95	487459			144.30- 204.30	179.60
16.773	16.773 (1.102)	176	271913			70.67- 130.67	100.19
21 Ethanol					CAS #: 64-17-5		
4.303	4.331 (0.513)	45	42667	4.98753	18.204	80.00- 120.00	100.00
4.330	4.331 (0.516)	43	46770			0.00- 50.43	109.62
4.303	4.331 (0.513)	46	9493			12.21- 72.21	22.25
30 Acetone					CAS #: 67-64-1		
4.966	4.994 (0.592)	58	26638	2.45199	8.950	80.00- 120.00	100.00
4.966	4.966 (0.592)	43	88610			337.35- 397.35	332.64
33 Carbon Disulfide					CAS #: 75-15-0		
5.132	5.188 (0.611)	76	31789	0.67941	2.480	80.00- 120.00	100.00

Report Date: 27-Apr-2007 10:27

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8042010.d
Lab Smp Id: 0704313-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 19.0"Hg-5.0psi

Calibration Date: 20-APR-2007
Calibration Time: 09:34
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	260063	156038	364088	188117	-27.66
86 1,4-Difluorobenze	1089176	653506	1524846	794609	-27.04
123 Chlorobenzene-d5	818159	490895	1145423	573560	-29.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.39	0.00
86 1,4-Difluorobenze	10.28	9.95	10.61	10.25	-0.27
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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: 27-Apr-2007 10:27

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0704313-02A
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+Na.sub
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 19.0"Hg-5.0psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 80 1,2-Dichloroethane	25.000	23.614	94.46	70-130
$ 102 Toluene-d8	25.000	23.259	93.03	70-130
$ 138 Bromofluorobenzene	25.000	23.090	92.36	70-130

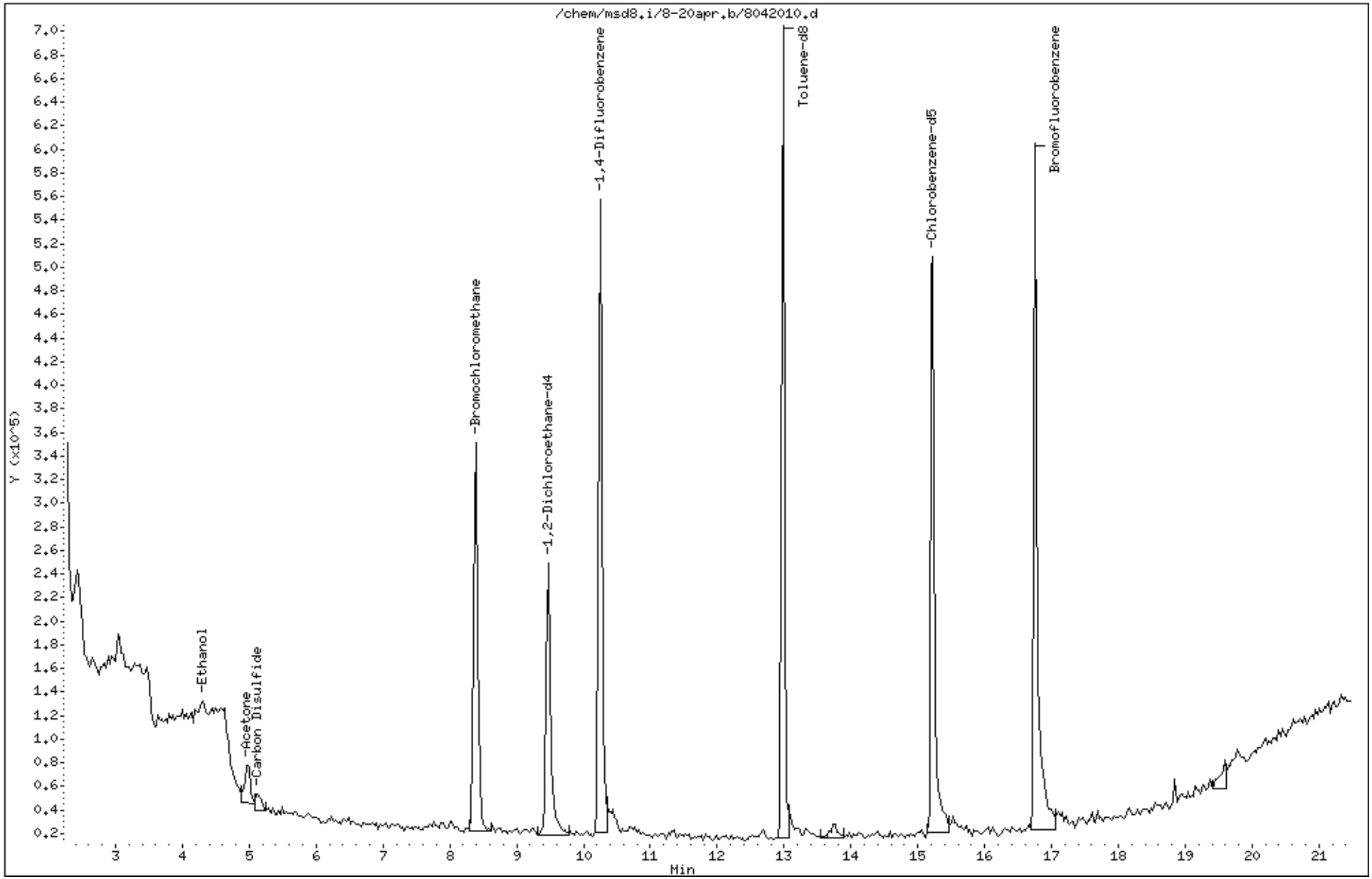
0023

Data File: /chem/msd8.i/8-20apr.b/8042010.d
Date : 20-APR-2007 17:47
Client ID:
Sample Info: 200mL#24228

Instrument: msd8.i

Operator: JG
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msd8.i/8-20apr.b/8042010.d

Date : 20-APR-2007 17:47

Client ID:

Instrument: msd8.i

Sample Info: 200mL#24228

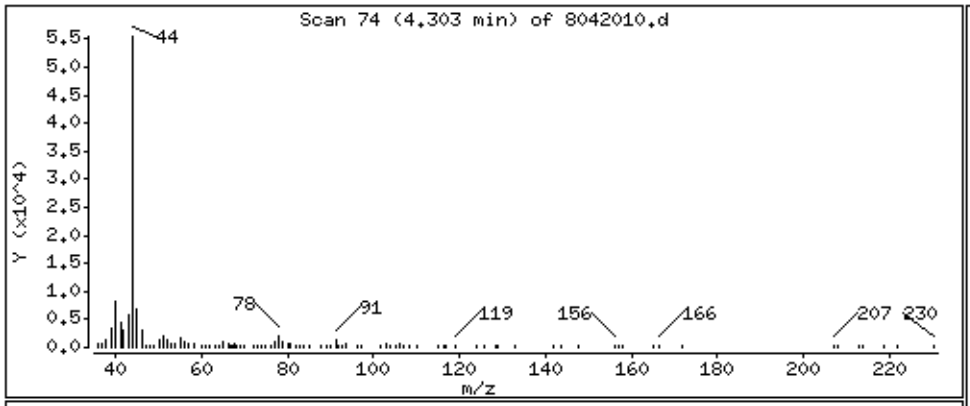
Operator: JG

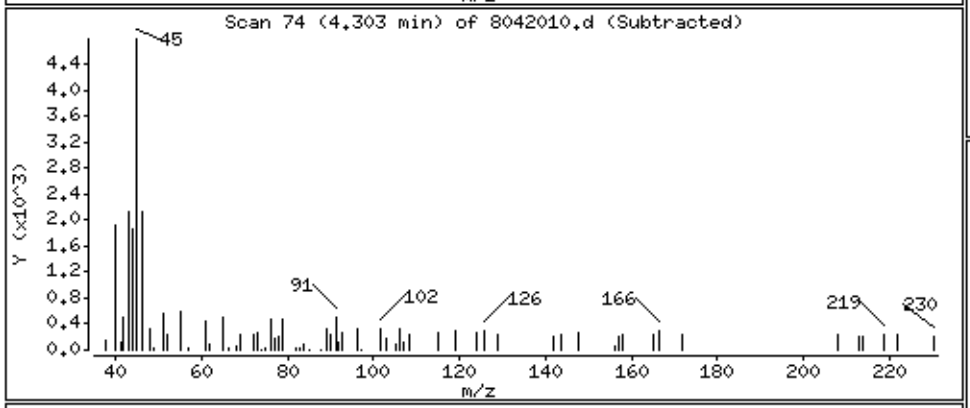
Column phase: RTx-624

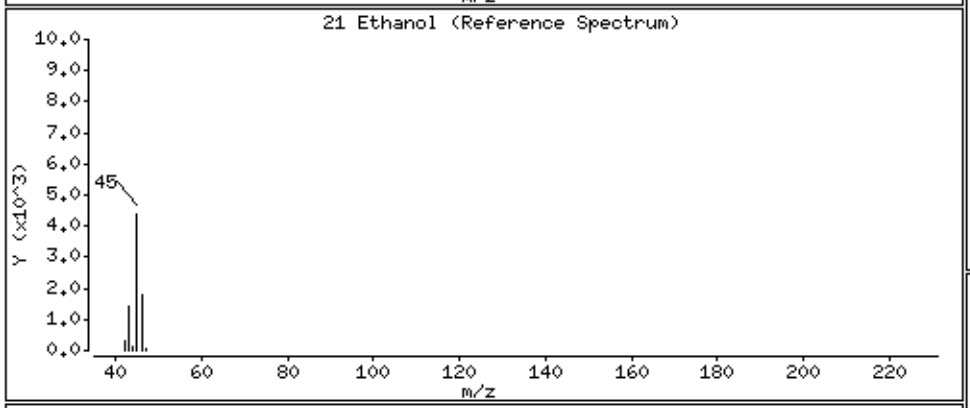
Column diameter: 0.53

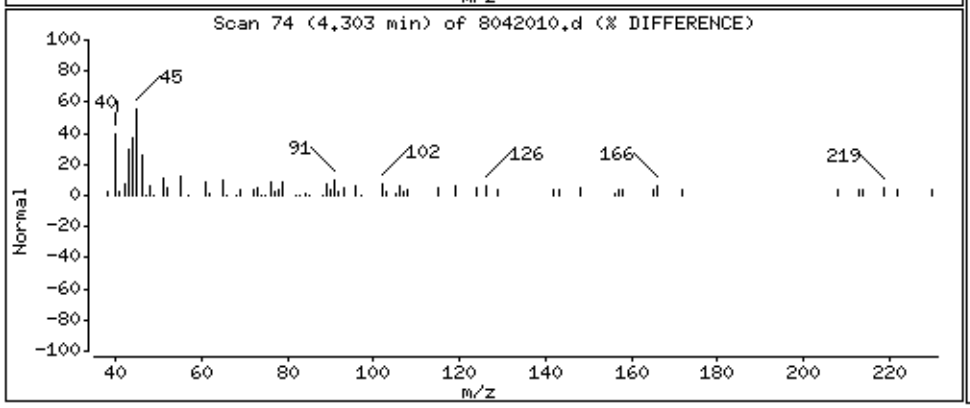
21 Ethanol

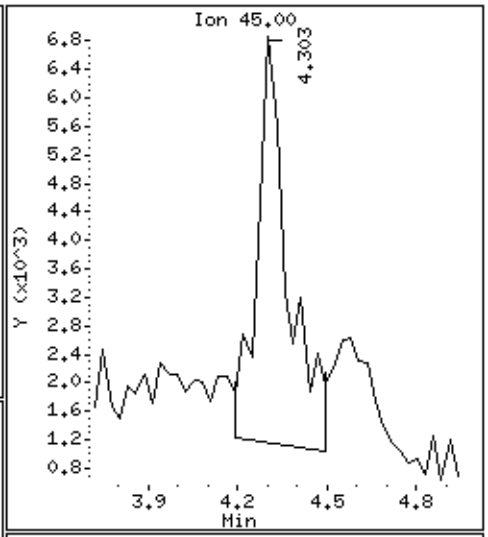
Concentration: 18.204 PPBV

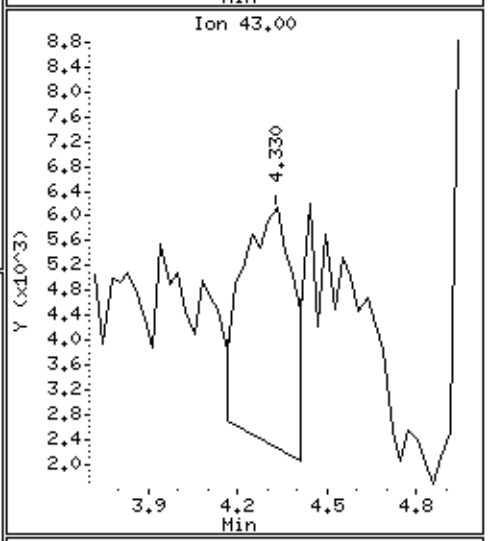


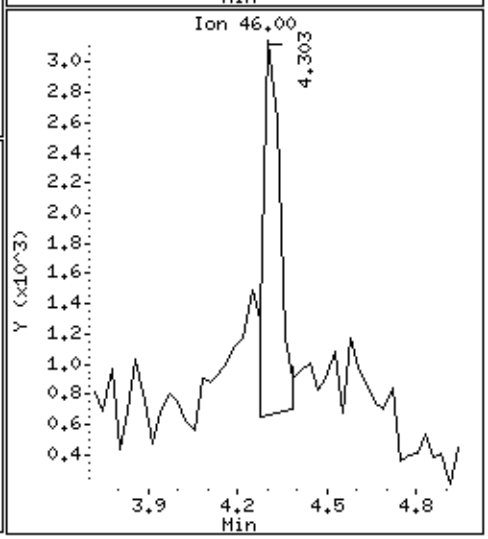












Data File: /chem/msd8.i/8-20apr.b/8042010.d

Date : 20-APR-2007 17:47

Client ID:

Instrument: msd8.i

Sample Info: 200mL#24228

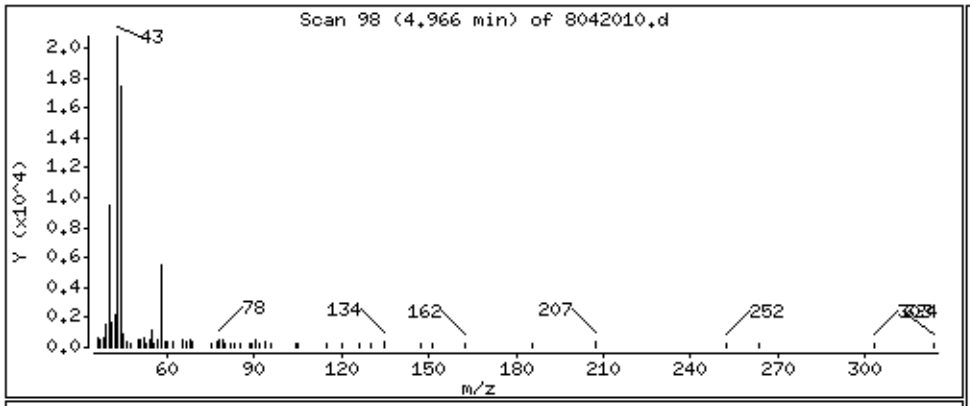
Operator: JG

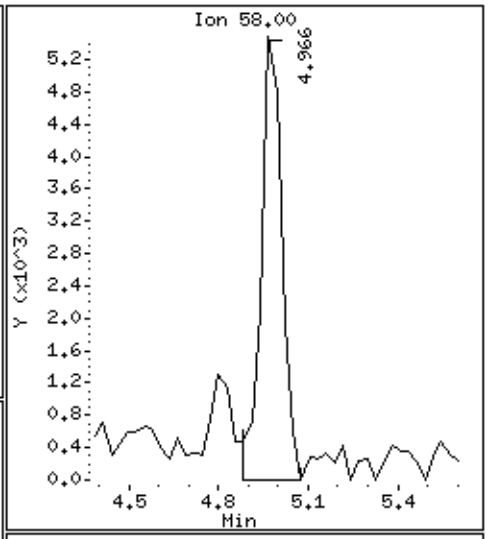
Column phase: RTx-624

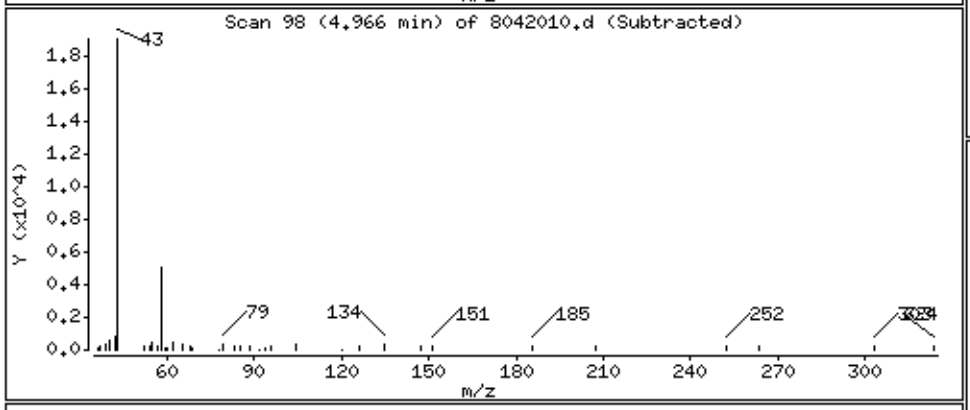
Column diameter: 0.53

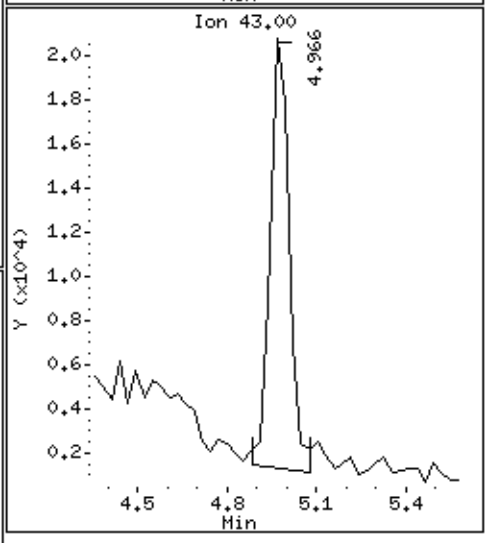
30 Acetone

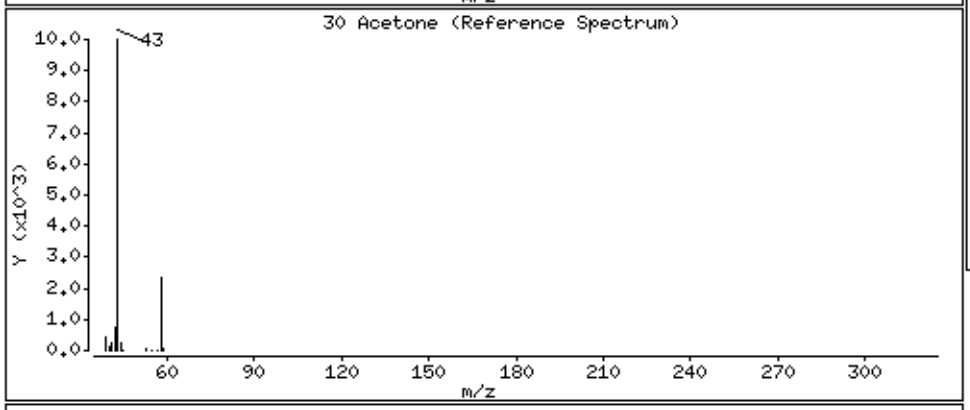
Concentration: 8.950 PPBV

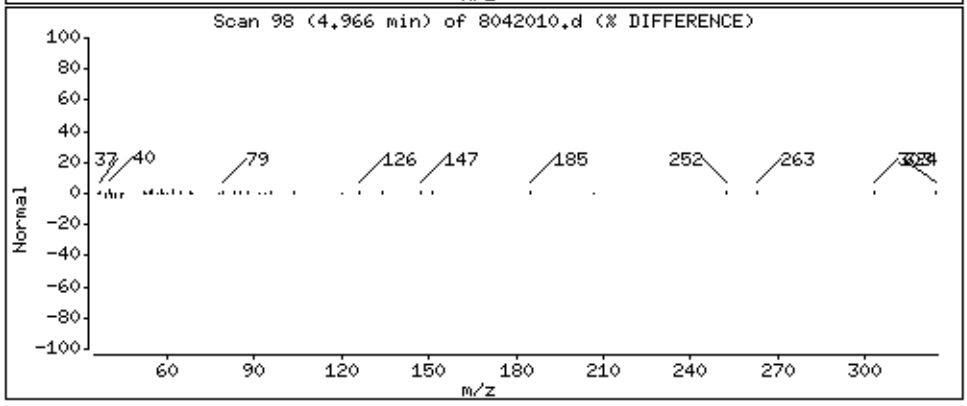












Data File: /chem/msd8.i/8-20apr.b/8042010.d

Date : 20-APR-2007 17:47

Client ID:

Instrument: msd8.i

Sample Info: 200mL#24228

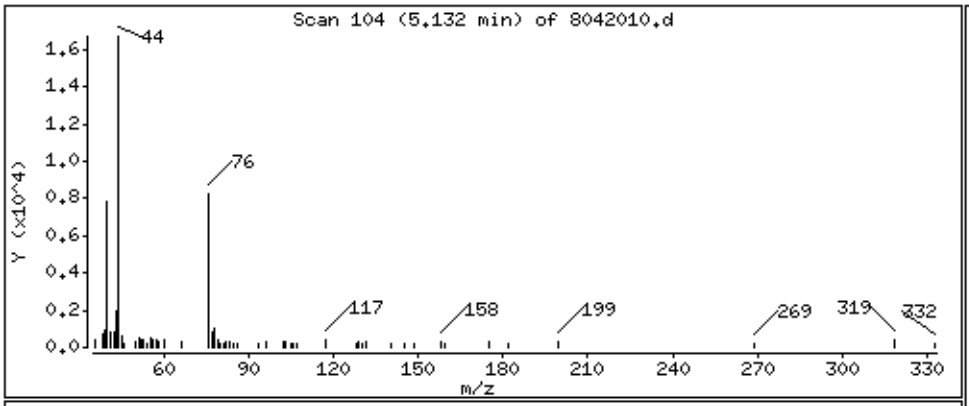
Operator: JG

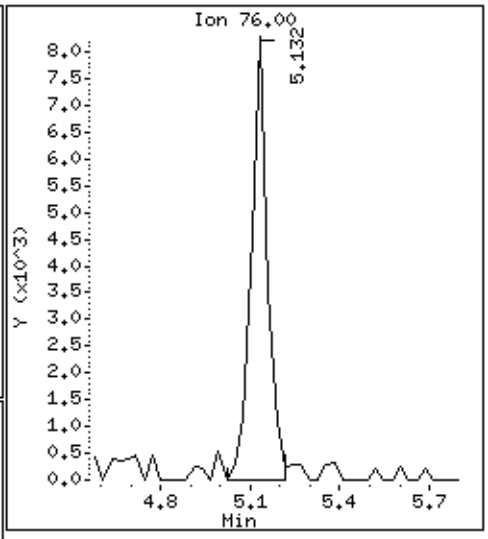
Column phase: RTx-624

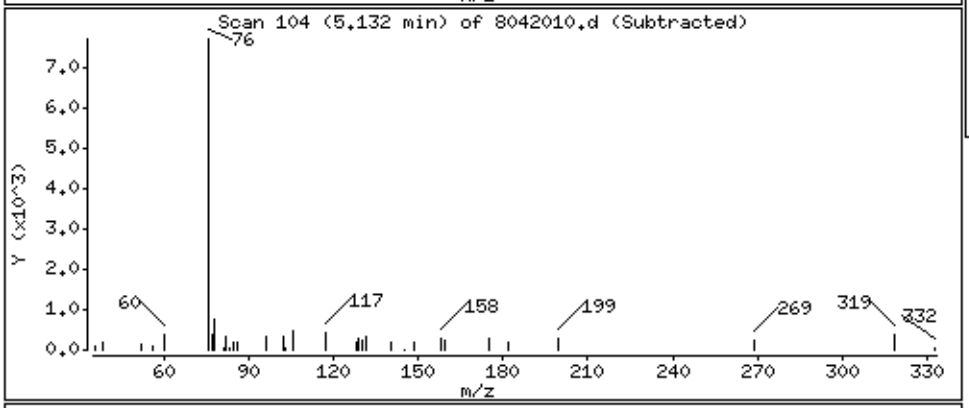
Column diameter: 0.53

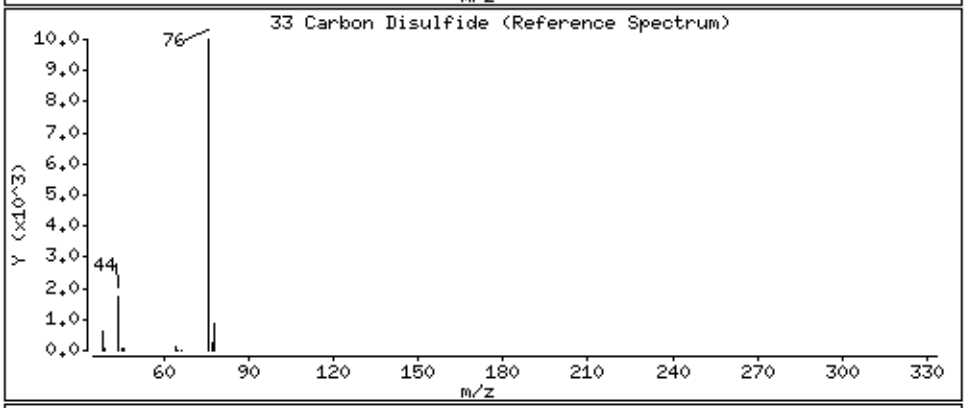
33 Carbon Disulfide

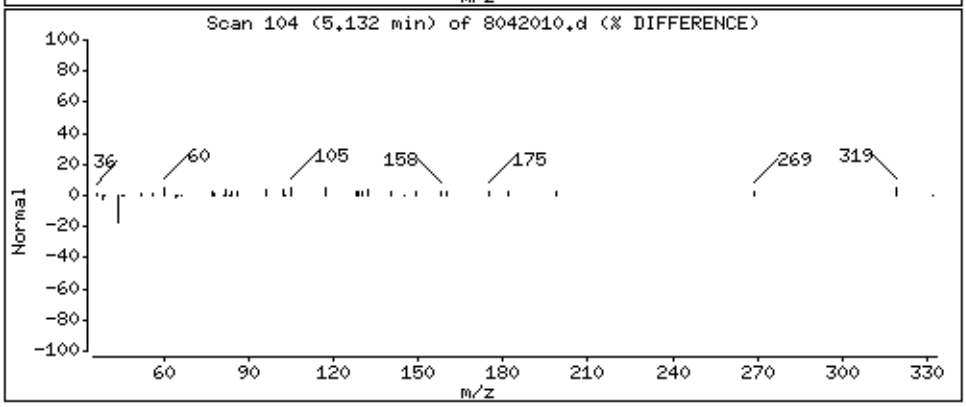
Concentration: 2.480 PPBV











QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0704313-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 01:27 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#: 0704313-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042007**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 01:27 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 U J	1.5	Not Detected U J
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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20apr.b/8042007.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-APR-2007 13:27
Operator : JG Inst ID: msd8.i
Smp Info : 200mL #13673
Misc Info : Humid
Comment :
Method : /var/chem/msd8.i/8-20apr.b/t14q322b.m
Meth Date : 20-Apr-2007 10:35 jgray Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========	=====
* 67 Bromochloromethane					CAS #: 74-97-5		
8.395	8.395 (1.000)	130	180120	25.0000		80.00- 120.00	100.00
8.395	8.395 (1.000)	128	138810			44.60- 104.60	77.07
8.395	8.395 (1.000)	49	497438			247.01- 307.01	276.17
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.247	10.275 (1.000)	114	788456	25.0000		80.00- 120.00	100.00
10.247	10.248 (1.000)	88	149135			0.00- 48.93	18.91
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	583537	25.0000		80.00- 120.00	100.00
15.224	15.224 (1.000)	82	392082			35.49- 95.49	67.19
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	379949	24.4034	24.403	80.00- 120.00	100.00
9.473	9.473 (1.128)	67	180353			27.92- 87.92	47.47
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	689842	22.2481	22.248	80.00- 120.00	100.00
12.985	12.985 (1.267)	70	86754			0.00- 42.61	12.58

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	512835			40.27- 100.27	74.34
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	286824	23.9846	23.985	80.00- 120.00	100.00
16.745	16.745 (1.100)	95	478685			144.30- 204.30	166.89
16.773	16.773 (1.102)	176	273196			70.67- 130.67	95.25

Report Date: 20-Apr-2007 13:43

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8042007.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: Humid

Calibration Date: 20-APR-2007
Calibration Time: 09:34
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	260063	156038	364088	180120	-30.74
86 1,4-Difluorobenze	1089176	653506	1524846	788456	-27.61
123 Chlorobenzene-d5	818159	490895	1145423	583537	-28.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.39	0.00
86 1,4-Difluorobenze	10.28	9.95	10.61	10.25	-0.27
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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-Apr-2007 13:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: JG
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT04+NA-2.spk Quant Type: ISTD
Sublist File: AT04+ENS.sub
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 80 1,2-Dichloroethane	25.000	24.403	97.61	70-130
$ 102 Toluene-d8	25.000	22.248	88.99	70-130
$ 138 Bromofluorobenzene	25.000	23.985	95.94	70-130

Data File: /chem/msd8.i/8-20apr.b/8042007.d

Date : 20-APR-2007 13:27

Client ID: Lab Blank

Sample Info: 200mL #13673

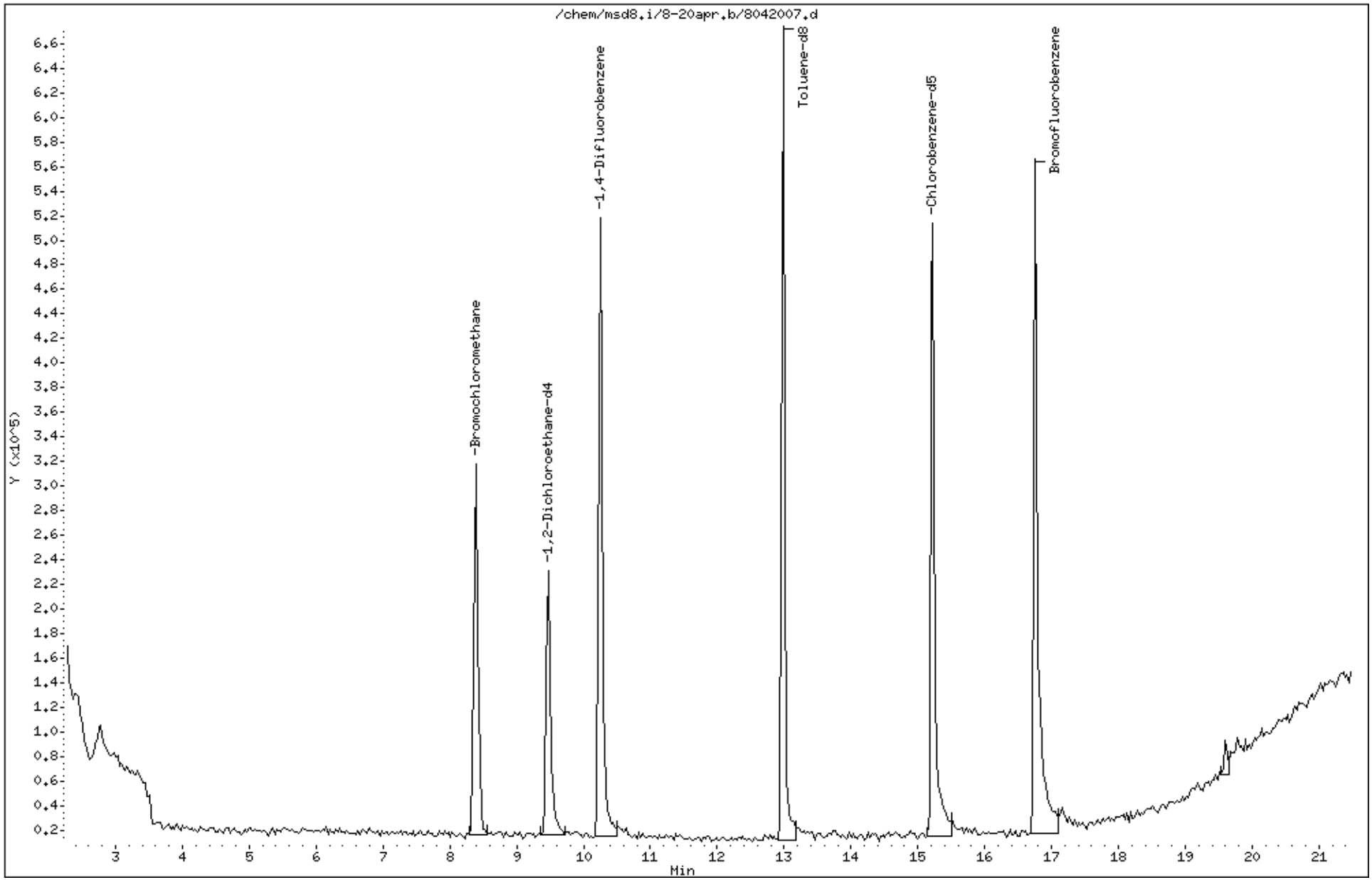
Column phase: RTx-624

Instrument: msd8.i

Operator: JG

Column diameter: 0.53

0034



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0704313

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	BS041207AMS2UW	96		88		91				0
02	BS041207AMS4DW	94		93		92				0
03	Lab Blank	98		89		96				0
04	CCV	91		96		99				0
05	LCS	98		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: 0704313
Lab File ID: 8042002.d
Date Analyzed: 04/20/2007
Instrument ID: msd8.i
Time Analyzed: 09:34 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	818159		15.22		1089176		10.28		260063		8.4	
	UPPER LIMIT	1145423		15.55		1524846		10.61		364088		08.72	
	LOWER LIMIT	490895		14.89		653506		09.95		156038		08.06	
	CLIENT SAMPLE NO												
01	BS041207AMS2UW	582780		15.22		819799		10.25		188649		8.39	
02	BS041207AMS4DW	573560		15.22		794609		10.25		188117		8.39	
03	Lab Blank	583537		15.22		788456		10.25		180120		8.39	
04	CCV	818159		15.22		1089176		10.28		260063		8.4	
05	LCS	593316		15.22		798735		10.25		178911		8.37	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

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

* Designates values outside of QC limits

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
Curve Type : Average

Calibration File Names:
Level 1: /chem/msd8.i/8-22mar.b/8032203.d
Level 2: /chem/msd8.i/8-22mar.b/8032215.d
Level 3: /chem/msd8.i/8-26mar.b/8032606.d
Level 4: /chem/msd8.i/8-22mar.b/8032206.d
Level 5: /chem/msd8.i/8-26mar.b/8032607.d
Level 6: /chem/msd8.i/8-22mar.b/8032208.d
Level 7: /chem/msd8.i/8-26mar.b/8032608.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	___ RRF	% RSD
	200.000 Level 7							
1 Freon 152a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
2 Freon 22	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
3 Propylene	+++++	+++++	3.64862	2.46322	2.35503	2.38531		
	2.37377						2.64519	21.263
4 Dichlorodifluoromethane/Fr12	+++++	7.76017	6.83698	5.06876	4.65874	4.70572		
	4.51732						5.59128	24.439
5 Freon134a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
6 Freon 114	+++++	4.20744	3.67140	2.91186	2.79475	2.80680		
	2.63468						3.17116	19.711
7 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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	+++++	+++++	4.29882	2.67832	2.54830	2.48799			
	2.36981						2.87665	27.906	
9 Butane	+++++	+++++	1.15611	0.68183	0.64366	0.63598			
	0.62557						0.74863	30.559	<-
11 1,3-Butadiene	+++++	3.35923	3.70712	2.53676	2.41352	2.42576			
	2.36965						2.80201	20.684	
10 Vinyl Chloride	+++++	2.96430	3.50969	2.54251	2.41065	2.42632			
	2.35886						2.70205	16.758	
12 Methanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
13 Bromomethane	+++++	2.04242	1.71377	1.27988	1.22262	1.31172			
	1.29205						1.47708	22.266	
14 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
15 Isopentane	+++++	+++++	6.64086	4.22299	4.13290	4.12583			
	3.99290						4.62310	24.463	
16 Chloroethane	+++++	1.73630	1.73111	1.30147	1.19950	1.24630			
	1.22781						1.40708	18.136	
17 Dichlorofluoromethane/Fr21	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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							
18 Trichlorofluoromethane/Fr11	+++++	5.37193	6.33628	4.76028	4.51471	4.58839		
	4.47766						5.00821	14.560
19 Pentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
20 Freon123a	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
22 Freon123	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
21 Ethanol	+++++	+++++	1.47568	1.10868	1.06650	1.02492		
	1.00869						1.13689	17.005
23 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
24 Freon 13	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
25 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
26 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
28 Freon142b	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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
27 Freon 113	+++++	2.82232	3.22222	2.14765	2.03365	2.04910	1.95455	2.37158	22.064
29 1,1-Dichloroethene	+++++	5.25838	5.05771	3.62935	3.42759	3.47883	3.36907	4.03682	21.678
30 Acetone	+++++	+++++	2.05734	1.38732	1.24688	1.27242	1.25483	1.44376	24.081
31 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Carbon Disulfide	+++++	7.95920	7.71487	5.56651	5.39873	5.39231	5.27666	6.21805	20.261
34 2-Propanol	+++++	+++++	6.85744	5.44165	5.29419	5.39097	5.29799	5.65645	11.921
35 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
37 3-Chloropropene	+++++	+++++	1.33829	0.93944	0.92232	0.92704	0.89360	1.00414	18.678

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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							
38 tert-Butyl-Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
39 Methylene Chloride	+++++	4.53517	4.27698	3.10830	2.90127	2.94899		
	2.82709						3.43297	22.248
40 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
41 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
42 MTBE	+++++	8.85745	8.57775	6.27521	5.93540	5.99233		
	5.88178						6.91999	20.258
44 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
43 trans-1,2-Dichloroethene	+++++	2.94934	2.54247	1.79033	1.70500	1.72263		
	1.66803						2.06297	26.460
45 Hexane	+++++	6.50743	6.29843	4.63124	4.39618	4.38297		
	4.25232						5.07809	20.393
46 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
47 Ethanol-high	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Isopropyl ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
49 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
52 1,1-Dichloroethane	+++++	5.18323	5.10569	3.98508	3.87923	3.82996		
	3.75100						4.28903	15.560
53 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 Vinyl Acetate	+++++	+++++	0.51558	0.49264	0.52336	0.51139		
	0.50793						0.51018	2.229
55 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
57 Ethyl-tert-butyl Ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Start Cal Date : 22-MAR-2007 10:41
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Methyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
59 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
60 Ethyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
61 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
62 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
63 cis-1,2-Dichloroethene	+++++	3.64837	4.25688	3.04238	2.85218	2.92549		
	2.85399						3.26321	17.524
64 2-Butanone	+++++	1.67352	1.41041	1.01465	0.97852	0.98886		
	0.95836						1.17072	25.618
65 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
66 Tetrahydrofuran	+++++	6.71089	5.08721	3.73130	3.55491	3.56544		
	3.50410						4.35898	29.846
68 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Chloroform	6.17803	5.06987	4.49947	3.38493	3.22658	3.26840	3.14998	4.11103	28.585
70 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
71 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
72 Cyclohexane	+++++	3.97979	3.99673	2.74032	2.57034	2.59050	2.50871	3.06440	23.485
74 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
73 1,1,1-Trichloroethane	+++++	4.63376	4.65460	3.38033	3.20850	3.24716	3.14555	3.71165	19.572
75 Carbon Tetrachloride	+++++	3.35462	3.79930	2.81089	2.69706	2.70088	2.62506	2.99797	15.802
76 Isobutanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
77 tert-amyl-Methyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
78 2,2,4-Trimethylpentane	+++++	16.43298	17.99115	13.37425	12.70715	12.77683	12.50824	14.29843	16.282

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
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Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Benzene	2.03131	1.47626	1.61743	1.22633	1.16525	1.12959			
	1.10050						1.39238	24.519	
81 1,2-Dichloroethane	+++++	0.84058	0.78407	0.61043	0.57149	0.55908			
	0.54673						0.65206	19.511	
82 Heptane	+++++	0.28296	0.17842	0.14079	0.13652	0.13223			
	0.12701						0.16632	36.075	<-
83 2,3-Dimethylpentane	+++++	+++++	1.93177	+++++	1.34790	+++++			
	1.27765						1.51911	23.639	
84 1-Methoxy-2-Propanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
85 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
87 1-Butanol	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
88 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
89 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
90 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Ethyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
92 Trichloroethene	+++++	0.48093	0.59807	0.43694	0.40476	0.38896		
	0.37753						0.44787	18.426
93 Methyl Cyclohexane	+++++	4.88062	4.87830	3.41153	3.30277	3.30451		
	3.22043						3.83302	21.206
94 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
95 1,2-Dichloropropane	+++++	0.67532	0.61108	0.46484	0.45017	0.43591		
	0.42410						0.51024	20.748
96 1,4-Dioxane	+++++	+++++	0.34178	0.26004	0.24908	0.24171		
	0.23737						0.26600	16.251
97 Octane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
98 Bromodichloromethane	+++++	0.89246	0.94044	0.71928	0.67428	0.65833		
	0.64210						0.75448	17.094
99 1-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
100 cis-1,3-Dichloropropene	+++++	0.76889	0.76757	0.60016	0.57911	0.58023		
	0.56488						0.64347	15.119

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 22-MAR-2007 10:41
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Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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
101 4-Methyl-2-pentanone	+++++	0.67928	0.62422	0.46863	0.46135	0.44565	0.43377	0.51882	20.265
103 Toluene	+++++	1.34027	1.57212	1.22204	1.16762	1.13880	1.12371	1.26076	13.605
104 1-Methoxy-2-propyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
105 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
106 trans-1,3-Dichloropropene	+++++	1.11760	0.96729	0.81239	0.78942	0.77860	0.76552	0.87181	16.208
107 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
108 1,1,2-Trichloroethane	+++++	0.65309	0.58031	0.47394	0.45806	0.45084	0.42903	0.50754	17.498
110 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Tetrachloroethene	+++++	0.68363	0.56664	0.50273	0.50196	0.49965	0.47984	0.53907	14.229
111 Butyl Acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 2-Hexanone	+++++	+++++	0.88087	0.79222	0.78548	0.79567		
	0.75095						0.80104	5.997
113 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
114 Dibromochloromethane	+++++	0.83418	0.80967	0.62979	0.62927	0.62191		
	0.60765						0.68875	15.065
115 1,2-Dibromoethane	+++++	0.76691	0.88801	0.67253	0.65651	0.65470		
	0.63435						0.71217	13.750
116 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
117 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
118 Diisobutyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
120 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
121 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
124 Chlorobenzene	+++++	1.40231	1.40389	1.09599	1.09995	1.04079		
	1.00407						1.17450	15.381
125 Bis(2-chloroethyl) ether	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
126 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
127 Ethyl Benzene	+++++	0.82062	0.74191	0.61784	0.60525	0.59030		
	0.58046						0.65940	14.931
128 m,p-Xylene	+++++	1.04206	0.97220	0.79323	0.78399	0.76243		
	0.73366						0.84792	14.971
129 Undecane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
130 o-Xylene	+++++	0.96930	1.00716	0.76148	0.74636	0.72189		
	0.69957						0.81763	16.433
132 2-Heptanone	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
131 Styrene	1.69313	1.14679	1.49850	1.09415	1.11463	1.13886		
	1.12395						1.25857	18.889

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 Bromoform	+++++	0.61756	0.64606	0.53857	0.55383	0.53227	0.52666	0.56916	8.818
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
135 Cumene	3.45662	2.66945	2.84554	2.18442	2.13966	2.10117	2.06896	2.49512	20.937
136 1-chloro-2-Bromopropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
137 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
139 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
140 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
141 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
142 1,1,2,2-Tetrachloroethane	+++++	1.37134	1.42089	1.07599	1.06692	1.06370	1.02790	1.17112	15.006
143 Propylbenzene	+++++	3.30360	3.36767	2.68855	2.64283	2.69125	2.23406	2.82133	15.388

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
145 4-Ethyltoluene	+++++	2.88824	2.85962	2.34847	2.37703	2.39701		
	1.84102						2.45190	15.787
146 1,3,5-Trimethylbenzene	+++++	2.72711	3.06967	2.08844	2.05129	2.04889		
	1.93827						2.32061	19.960
147 2,6-Dimethyl-1-propanol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
149 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
151 1,2,4-Trimethylbenzene	+++++	2.58151	2.58001	1.89703	1.87135	1.88091		
	1.79705						2.10131	17.749
152 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
153 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

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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 1,3-Dichlorobenzene	+++++	1.07365	0.96922	0.85086	0.88100	0.84628		
	0.85516						0.91270	10.000
155 1,4-Dichlorobenzene	+++++	1.44035	1.26100	1.03804	1.08377	1.16840		
	0.99164						1.16387	14.264
156 alpha-Chlorotoluene	+++++	1.83854	1.73296	1.52280	1.65167	1.67027		
	1.69415						1.68507	6.144
157 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
158 1,2-Dichlorobenzene	+++++	1.26589	1.15974	0.89919	0.92239	0.88418		
	0.87873						1.00169	16.735
159 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
160 Aniline	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
161 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
162 Isooctyl Alcohol	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
163 1,2,4-Trichlorobenzene	+++++	+++++	0.72875	0.47508	0.58404	0.65031		
	0.68067						0.62377	15.759

Air Toxics Ltd.

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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 Hexachlorobutadiene	+++++	+++++	1.22486	0.72372	0.69039	0.67531			
	0.66959						0.79677	30.150	<-
165 Naphthalene	+++++	+++++	2.69108	1.63439	1.83942	2.02809			
	1.77256						1.99311	20.828	
166 1,2,3-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
167 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
168 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
194 2-Methylpentane	+++++	+++++	2.44385	+++++	1.60008	+++++			
	1.48655						1.84349	28.371	
195 Thiopene	+++++	+++++	0.98460	+++++	0.65581	+++++			
	0.63204						0.75748	26.014	
196 Indan	+++++	+++++	2.66528	+++++	1.70640	+++++			
	1.73600						2.03589	26.783	
197 Indene	+++++	+++++	1.74642	+++++	1.09694	+++++			
	1.18332						1.34222	26.277	
$ 80 1,2-Dichloroethane-d4	2.05787	2.08429	2.14741	2.23426	2.05489	2.18260			
	2.36561						2.16099	5.197	

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msd8.i/8-26mar.b/t14q322b.m
Cal Date : 27-Mar-2007 06:43 sscott
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
$ 102 Toluene-d8	0.99667	0.96945	0.94994	0.98725	0.97848	0.99102			
	1.00924							0.98315	1.972
$ 138 Bromofluorobenzene	0.49812	0.46909	0.50906	0.51341	0.54503	0.52622			
	0.52541							0.51234	4.726

Calibration History

Method : /chem/msd8.i/8-26mar.b/t14q322b.m
Start Cal Date: 22-MAR-2007 10:41
End Cal Date : 26-MAR-2007 13:11

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
22-MAR-2007 10:41	AFCEElow	/chem/msd8.i/8-22mar.b/8032203.d
Cal Level: 2 , Cal Amount: 0.50000		
22-MAR-2007 17:30	ICALlevel2	/chem/msd8.i/8-22mar.b/8032215.d
Cal Level: 3 , Cal Amount: 2.00000		
26-MAR-2007 12:15	sp5b	/chem/msd8.i/8-26mar.b/8032606.d
22-MAR-2007 11:38	AT04mdl+Na+ENSR	/chem/msd8.i/8-22mar.b/8032205.d
Cal Level: 4 , Cal Amount: 25.00000		
22-MAR-2007 12:06	AT04+ENS	/chem/msd8.i/8-22mar.b/8032206.d
Cal Level: 5 , Cal Amount: 50.00000		
26-MAR-2007 12:43	sp5b	/chem/msd8.i/8-26mar.b/8032607.d
22-MAR-2007 12:34	AT04+ENS	/chem/msd8.i/8-22mar.b/8032207.d
Cal Level: 6 , Cal Amount: 100.00000		
22-MAR-2007 13:02	AT04+ENS	/chem/msd8.i/8-22mar.b/8032208.d
Cal Level: 7 , Cal Amount: 200.00000		
26-MAR-2007 13:11	sp5b	/chem/msd8.i/8-26mar.b/8032608.d
22-MAR-2007 13:30	AT04+ENS	/chem/msd8.i/8-22mar.b/8032209.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

Ccal Level: 8 , Ccal Amount: 50.000		
26-MAR-2007 12:43	sp5bccv	/chem/msd8.i/8-26mar.b/8032607a.d

0057

@ Air Toxics Ltd.

MSD-8

Logbook #: 1478

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	31.26
75	30.0 – 60.0% of mass 95	56.10
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	6.30
173	Less than 2.0% of mass 174	(0.03) [1]
174	Greater than 50.0% of mass 95	59.69
175	5.0 – 9.0% of mass 174	(6.41) [1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.26) [1]
177	5.0 – 9.0% of mass 176	(6.49) [2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

Verify 176/174 m/z Ratio: 675517/701792 x 100 = 96.26

BFB Injection Date: 3/22/07

BFB Injection Time: 0929

BFB File ID: 8032201

Tekmar Purge Flow: 14.8 mL/min

Vacuum: 6.5e-6

IS/S Std.#: 1443-3	Exp. Date: 5/20/07
BCM	283735
1,4-DFB	1370859
CB-d5	1067063

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

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(1341361)}{(1370859)} \times \frac{(25)}{(0.98315)}$ = 24.881

Reported Result 24.881

File ID: 8032207
Compound: Toluene-d8
Initials: SJK

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8032201	BFB Tune check	843-2786	50	2 µL	1.0	TJ	3-22-07	9:29	TJ	
2	✓	02	Lab Blank	13673	Humid	200mL		SJK		1014	SJK/RO	
3	✓	03	ICAL (200ppbv) Lvl 1	1487-115	0.2ppbv	0.2mL				1041	RO	T14Q322A
4	✗	04	Lvl 2		0.5	0.5				1110	RO	
5	✓	05	Lvl 3		2	2				1138	RO	
6	✓	06	Lvl 4		25	25				1206	RO	
7	✓	07	Lvl 5		50	50				1234	RO	
8	✓	08	Lvl 6		100	100				1302	RO	
9	✓	09	Lvl 7		200	200				1330	RO	

Signature

3/22/07
Date

10	X	8032210	Lab blank	13673	Humid	200mL	1.00	SMK	3/22/07	1359	SMK	-
11	X	11	↓	↓	↓	↓	↓	↓	↓	1428	SMK	-
12	X	12	↓	↓	↓	↓	↓	↓	↓	1456	SMK	-
13	X	13	↓	↓	↓	↓	↓	↓	↓	1606	SMK	-
14	✓	14	↓	↓	↓	↓	↓	↓	↓	1702	SMK	-
15	✓	15	ICAL (200ppbv) Lvl 2	14B7-115	0.5ppbv	0.5mL	↓	↓	↓	1730	RD	
16	✓	16	LCS #1408-408	200ppb	50ppb	50mL	↓	RD	↓	1819	RD	ICAL LCS
17	X	17	Lab Blank	13673	Humid	200mL	1.00	SS	↓	1949	SS	
18	X	18	Lab Blank	↓	↓	↓	↓	↓	↓	2050	SS	
19	X	19	Lab Blank	↓	↓	↓	↓	↓	↓	2141	SS	
20	✓	20	Lab Blank	↓	↓	↓	↓	↓	↓	2224	RD	
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
32												

SMK 3/23/07

Comments: NIST Flow meter SN: US05E27601 Exp: 8/19/07
Flow Controller: SN: AA9506172
Actual: 22.4 mL/min
Nominal: 25.5 mL/min

Signature

3/23/07
Date

@ Air Toxics Ltd.

MSD-8

Logbook #: 1478

0059

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	29.06
75	30.0 – 60.0% of mass 95	54.14
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.43
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	52.67
175	5.0 – 9.0% of mass 174	(7.95)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.40)[1]
177	5.0 – 9.0% of mass 176	(16.53)[2]

[1] - value in parenthesis is % mass 174

[2] - value in parenthesis is % mass 176

BFB Injection Date: 3/26/07

BFB Injection Time: 0903

BFB File ID: 90326 01

Tekmar Purge Flow: 3/26/07 EA

Vacuum:

IS/S Std.#:	1443-3	Exp. Date: 5/26/07
BCM	375809	
1,4-DFB	1920742	
CB-d5	1370466	

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

Verify 176/174 m/z Ratio: 1198128 / 1255899 x 100 = 95.40

NOAH Cart #: 9/5 **File #:** F032308 / M032607

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1731969)}{(1920742)} \times \frac{(25)}{(0.90315)} = 24.109$

Reported Result 24.109

File ID:	90326 02
Compound:	Tol-d8
Initials:	ED

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1		90326 01	BFB TUNE CHECK	543-2412	50 mg	2.0 mL	1.00	ED	3/26/07	0903	ED	
2		02	CCV-1 (200 ppbv)	1487-357	50 ppbv	50 mL		ED		0932	ED	NO Naph
3		03	LCS-1 (200 ppbv)	1408-408	200 ppbv	50 mL		ED		1010	ED	
4		04	Gas Std (100 ppm)	1408-407	250 ppbv	5.0 mL		ED		1111	ED	
5	X	05	system blank	12491	Humid	200 mL		ED		1139	ED	
6	↓	06	ICAL level 3 (200 ppbv)	1487-382	2 ppbv	2.0 mL		ED		1215	ED	SPSB
7	↓	07	↓ 5 7 ↓	↓	50	50 mL		ED		1243	ED	SPSB/SPB CCV
8	↓	08	↓	↓	200	200 mL		ED		1311	ED	
9	X	09	system blank	12491	Humid	200 mL	↓	ED	↓	1430	ED	

Signature

3-27-07

Date

Initial Calibration Narrative for t14q322a.m

A seven-point initial calibration was analyzed on MSD-8 on March 22, 2007. As noted on the accompanying analytical run log(s), the following point (Level 2) was re-analyzed due to:

a. anomalous unacceptable linearity for THF, trans-1,2-DCE, Bromomethane

The following compounds used 0.2 as the lowest calibration concentration:
Benzene, Chloroform, Styrene and Cumene.

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/8-22mar.b/8032216.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 22-MAR-2007 18:19
Operator : ej Inst ID: msd8.i
Smp Info : 50mL #1408-408
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:11 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 13:30 Cal File: 8032209.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========	=====
* 67 Bromochloromethane					CAS #: 74-97-5		
8.368	8.395 (1.000)	130	278522	25.0000		70.00- 130.00	100.00
8.368	8.395 (1.000)	128	223686			46.35- 106.35	80.31
8.368	8.395 (1.000)	49	840124			255.78- 315.78	301.64
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1372474	25.0000		70.00- 130.00	100.00
10.248	10.248 (1.000)	88	244699			0.00- 48.88	17.83
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.225	15.224 (1.000)	117	1036564	25.0000		70.00- 130.00	100.00
15.197	15.224 (1.000)	82	689191			36.68- 96.68	66.49
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.446	9.473 (1.129)	65	612394	25.4366	25.436	70.00- 130.00	100.00
9.446	9.473 (1.129)	67	348350			27.92- 87.92	56.88
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1319513	24.4472	24.447	70.00- 130.00	100.00
12.985	12.985 (1.267)	70	167973			0.00- 42.61	12.73

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	974319			40.27- 100.27	73.84
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.745	16.745 (1.100)	174	512983	24.1486	24.149	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	994391			137.66- 197.66	193.84
16.745	16.745 (1.100)	176	500594			63.61- 123.61	97.58
3 Propylene					CAS #: 115-07-1		
2.395	2.395 (0.286)	41	1876430	63.6731	63.673	70.00- 130.00	100.00
2.395	2.395 (0.286)	42	1242992			35.20- 95.20	66.24
2.395	2.395 (0.286)	39	1349895			42.80- 102.80	71.94
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.451	2.450 (0.293)	85	3599527	57.7849	57.785	70.00- 130.00	100.00
2.451	2.450 (0.293)	87	1162658			1.89- 61.89	32.30
6 Freon 114					CAS #: 76-14-2		
2.589	2.616 (0.309)	135	1892311	53.5618	53.562	70.00- 130.00	100.00
2.589	2.616 (0.309)	137	615847			1.88- 61.88	32.54
8 Chloromethane					CAS #: 74-87-3		
2.727	2.727 (0.326)	50	1778031	55.4796	55.480	70.00- 130.00	100.00
2.727	2.727 (0.326)	52	545218			0.00- 59.46	30.66
9 Butane					CAS #: 106-97-8		
2.810	2.837 (0.336)	58	444668	53.3149	53.315	70.00- 130.00	100.00
2.810	2.837 (0.336)	43	3526100			772.78- 832.78	792.97
10 Vinyl Chloride					CAS #: 75-01-4		
2.893	2.893 (0.346)	62	1691484	56.1894	56.189	70.00- 130.00	100.00
2.893	2.893 (0.346)	64	497353			0.33- 60.33	29.40
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.920 (0.346)	54	1615957	51.7656	51.766	70.00- 130.00	100.00
2.893	2.920 (0.346)	39	1828365			86.60- 146.60	113.14
13 Bromomethane					CAS #: 74-83-9		
3.418	3.446 (0.408)	94	924272	56.1665	56.166	70.00- 130.00	100.00
3.418	3.446 (0.408)	96	853544			64.77- 124.77	92.35
15 Isopentane					CAS #: 78-78-4		
3.529	3.556 (0.422)	43	2709546	52.6071	52.607	70.00- 130.00	100.00
3.529	3.556 (0.422)	57	1581385			27.51- 87.51	58.36
3.529	3.556 (0.422)	72	171194			0.00- 35.95	6.32

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.557	3.612 (0.425)	64	887054	56.5863	56.586	70.00- 130.00	100.00
3.557	3.612 (0.425)	49	272964			2.42- 62.42	30.77
3.557	3.612 (0.425)	66	261670			0.00- 58.92	29.50
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.888	3.916 (0.465)	101	2978271	53.3780	53.378	70.00- 130.00	100.00
3.888	3.916 (0.465)	103	1900616			34.71- 94.71	63.82
21 Ethanol					CAS #: 64-17-5		
4.275	4.331 (0.511)	45	661304	52.2111	52.211	70.00- 130.00	100.00
4.275	4.331 (0.511)	43	132468			0.00- 50.43	20.03
4.248	4.331 (0.508)	46	280779			12.21- 72.21	42.46
27 Freon 113					CAS #: 76-13-1		
4.718	4.745 (0.564)	151	1414844	53.5490	53.549	70.00- 130.00	100.00
4.718	4.745 (0.564)	153	905176			32.67- 92.67	63.98
4.718	4.745 (0.564)	101	2268866			124.83- 184.83	160.36
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.801 (0.570)	61	2448396	54.4406	54.440	70.00- 130.00	100.00
4.773	4.801 (0.570)	96	1111548			15.10- 75.10	45.40
4.773	4.801 (0.570)	98	688548			0.00- 58.17	28.12
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.590)	58	832492	51.7567	51.757	70.00- 130.00	100.00
4.939	4.939 (0.590)	43	3109773			337.35- 397.35	373.55
33 Carbon Disulfide					CAS #: 75-15-0		
5.133	5.160 (0.613)	76	3456368	49.8938	49.894	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.133	5.160 (0.613)	45	3220225	51.1002	51.100	70.00- 130.00	100.00
5.133	5.160 (0.613)	43	622351			0.00- 50.64	19.33
5.133	5.160 (0.613)	59	109991			0.00- 33.21	3.42
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.437 (0.650)	76	582413	52.0618	52.062	70.00- 130.00	100.00
5.437	5.437 (0.650)	41	2574669			414.53- 474.53	442.07
39 Methylene Chloride					CAS #: 75-09-2		
5.686	5.713 (0.679)	49	1928181	50.4149	50.415	70.00- 130.00	100.00
5.686	5.713 (0.679)	84	959383			18.44- 78.44	49.76
5.686	5.713 (0.679)	51	576250			0.00- 59.93	29.89
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.722)	73	3752786	48.6776	48.678	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.045 (0.722)	57	1080934			0.00- 59.33	28.80
6.045	6.045 (0.722)	41	1183273			1.95- 61.95	31.53
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.729)	96	1090503	47.4477	47.448	70.00- 130.00	100.00
6.073	6.100 (0.726)	61	2105343			169.97- 229.97	193.06
6.100	6.100 (0.729)	98	673150			34.71- 94.71	61.73
45 Hexane					CAS #: 110-54-3		
6.432	6.432 (0.769)	57	2673909	47.2636	47.264	70.00- 130.00	100.00
6.432	6.432 (0.769)	43	1951618			44.61- 104.61	72.99
6.432	6.432 (0.769)	86	377558			0.00- 43.77	14.12
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.874	6.902 (0.822)	63	2404587	50.3224	50.322	70.00- 130.00	100.00
6.874	6.902 (0.822)	65	709306			0.00- 59.58	29.50
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.831)	86	303994	53.4836	53.484	70.00- 130.00	100.00
6.957	6.957 (0.831)	43	4738804			1469.62-1529.62	1558.85
6.957	6.957 (0.831)	42	407364			100.08- 160.08	134.00
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.925	7.953 (0.947)	61	1766344	48.5859	48.586	70.00- 130.00	100.00
7.925	7.953 (0.947)	96	996178			27.36- 87.36	56.40
7.925	7.953 (0.947)	98	603006			5.83- 65.83	34.14
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.954)	72	564657	43.2924	43.292	70.00- 130.00	100.00
7.980	7.980 (0.954)	43	3472194			574.29- 634.29	614.92
7.980	7.980 (0.954)	57	225366			10.61- 70.61	39.91
66 Tetrahydrofuran					CAS #: 109-99-9		
8.368	8.367 (1.000)	42	2017236	41.5387	41.539	70.00- 130.00	100.00
8.368	8.367 (1.000)	71	508113			0.00- 54.93	25.19
8.368	8.367 (1.000)	72	558622			0.00- 56.52	27.69
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.017)	83	1925190	42.0342	42.034	70.00- 130.00	100.00
8.506	8.506 (1.017)	85	1250807			33.71- 93.71	64.97
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.043)	84	1538360	45.0602	45.060	70.00- 130.00	100.00
8.727	8.727 (1.043)	56	2601694			138.68- 198.68	169.12
8.727	8.727 (1.043)	41	1546180			73.81- 133.81	100.51

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.755	8.754 (1.046)	97	1902106	45.9990	45.999	70.00- 130.00	100.00
8.755	8.754 (1.046)	99	1246434			33.95- 93.95	65.53
75 Carbon Tetrachloride					CAS #: 56-23-5		
8.976	9.003 (1.073)	119	1575718	47.1772	47.177	70.00- 130.00	100.00
8.976	9.003 (1.073)	117	1744559			81.67- 141.67	110.72
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.418	9.446 (1.126)	57	7315932	45.9263	45.926	70.00- 130.00	100.00
9.418	9.446 (1.126)	56	2562625			4.45- 64.45	35.03
9.418	9.446 (1.126)	41	2159630			0.00- 59.44	29.52
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	3340948	43.7066	43.706	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	774792			0.00- 54.39	23.19
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	1669206	46.6289	46.629	70.00- 130.00	100.00
9.612	9.612 (0.938)	64	507016			1.44- 61.44	30.37
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	377747	41.3701	41.370	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	3122573			789.66- 849.66	826.63
9.805	9.805 (0.957)	71	1222459			294.27- 354.27	323.62
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	1155008	46.9757	46.976	70.00- 130.00	100.00
10.662	10.662 (1.040)	130	960049			57.13- 117.13	83.12
10.662	10.662 (1.040)	97	737325			32.50- 92.50	63.84
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.884	10.883 (1.301)	83	1922839	45.0279	45.028	70.00- 130.00	100.00
10.884	10.883 (1.301)	98	908713			15.00- 75.00	47.26
10.884	10.883 (1.301)	55	2207231			87.18- 147.18	114.79
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	1250358	44.6373	44.637	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	934234			45.03- 105.03	74.72
11.188	11.188 (1.092)	41	962531			45.52- 105.52	76.98
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	645482	44.2024	44.202	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	619887			70.27- 130.27	96.03
11.409	11.409 (1.113)	57	198043			0.54- 60.54	30.68

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.713	11.741 (1.143)	83	1880847	45.4089	45.409	70.00- 130.00	100.00
11.713	11.741 (1.143)	85	1201006			32.38- 92.38	63.85
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.598	12.625 (1.229)	75	1654311	46.8298	46.830	70.00- 130.00	100.00
12.598	12.625 (1.229)	77	523109			1.52- 61.52	31.62
12.598	12.625 (1.229)	39	1241394			48.26- 108.26	75.04
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	1256304	44.1080	44.108	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	3592445			251.14- 311.14	285.95
12.902	12.902 (1.259)	85	387104			2.33- 62.33	30.81
103 Toluene					CAS #: 108-88-3		
13.096	13.095 (1.278)	91	3428164	49.5296	49.530	70.00- 130.00	100.00
13.096	13.095 (1.278)	92	2053740			29.45- 89.45	59.91
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	1733104	47.9456	47.946	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	544880			1.42- 61.42	31.44
13.621	13.621 (0.895)	39	1268743			43.57- 103.57	73.21
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.870	13.870 (0.911)	97	953253	45.2979	45.298	70.00- 130.00	100.00
13.870	13.870 (0.911)	99	587815			31.40- 91.40	61.66
13.870	13.870 (0.911)	83	899793			60.06- 120.06	94.39
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	1075635	48.1240	48.124	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	859308			46.36- 106.36	79.89
13.925	13.925 (0.915)	131	824537			45.00- 105.00	76.66
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	1547930	46.6060	46.606	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	3177061			176.52- 236.52	205.25
14.257	14.257 (0.936)	100	239749			0.00- 45.68	15.49
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	1351154	47.3140	47.314	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	1074573			46.96- 106.96	79.53
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.588 (0.958)	107	1439089	48.7359	48.736	70.00- 130.00	100.00
14.589	14.588 (0.958)	109	1320391			62.88- 122.88	91.75

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	2364677	48.5581	48.558	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	723136			0.73- 60.73	30.58
15.252	15.252 (1.002)	77	1645570			40.58- 100.58	69.59
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	1311932	47.9853	47.985	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	4511338			309.90- 369.90	343.87
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	1672409	47.5696	47.570	70.00- 130.00	100.00
15.529	15.529 (1.020)	91	3565698			177.38- 237.38	213.21
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	1625053	47.9353	47.935	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	3693663			195.99- 255.99	227.29
131 Styrene					CAS #: 100-42-5		
16.082	16.082 (1.056)	104	2458659	47.1155	47.115	70.00- 130.00	100.00
16.082	16.082 (1.056)	78	1484068			28.78- 88.78	60.36
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	1107122	46.9144	46.914	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	566742			21.17- 81.17	51.19
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	4785876	46.2609	46.261	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	1083750			0.00- 53.14	22.64
16.496	16.524 (1.084)	51	737073			0.00- 45.39	15.40
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	2314942	47.6739	47.674	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	1479700			34.35- 94.35	63.92
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	6112597	52.2536	52.254	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	1134482			0.00- 48.79	18.56
16.994	16.994 (1.116)	105	209533			0.00- 33.35	3.43
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	5307532	52.2076	52.208	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	1325326			0.00- 54.57	24.97
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	4361594	45.3301	45.330	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	1879411			12.64- 72.64	43.09

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	4025096	46.1987	46.199	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	1666459			11.41- 71.41	41.40
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.907	17.906 (1.176)	146	1763512	46.6011	46.601	70.00- 130.00	100.00
17.907	17.906 (1.176)	148	1109821			32.20- 92.20	62.93
17.879	17.906 (1.174)	111	831855			13.28- 73.28	47.17
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.990	17.989 (1.182)	146	2412413	49.9911	49.991	70.00- 130.00	100.00
17.990	17.989 (1.182)	148	1546218			34.16- 94.16	64.09
17.990	17.989 (1.182)	111	1088761			16.41- 76.41	45.13
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	3406668	48.7592	48.759	70.00- 130.00	100.00
18.128	18.128 (1.191)	126	594643			0.00- 46.97	17.46
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	1870369	45.0339	45.034	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	1179854			33.83- 93.83	63.08
18.321	18.321 (1.203)	111	1039079			21.29- 81.29	55.55
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	1227104	47.4461	47.446	70.00- 130.00	100.00
19.593	19.593 (1.287)	182	1149823			62.06- 122.06	93.70
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	1408481	42.6344	42.634	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	915348			35.92- 95.92	64.99
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	5855301	70.8537	70.854	70.00- 130.00	100.00(R)
19.787	19.787 (1.300)	127	815433			0.00- 43.72	13.93

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 23-Mar-2007 08:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032216.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: ej
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	278522	-1.84
86 1,4-Difluorobenze	1370859	822515	1919203	1372474	0.12
123 Chlorobenzene-d5	1067063	640238	1493888	1036564	-2.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.37	-0.33
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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: 23-Mar-2007 08:11

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-22mar
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: ej
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra+ENS.spk Quant Type: ISTD
Sublist File: AT04+ENS.sub
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
131 Styrene	50.000	47.115	94.23	70-130
106 trans-1,3-Dichloro	50.000	47.946	95.89	70-130
4 Dichlorodifluorome	50.000	57.785	115.57	70-130
6 Freon 114	50.000	53.562	107.12	70-130
8 Chloromethane	50.000	55.480	110.96	70-130
10 Vinyl Chloride	50.000	56.189	112.38	70-130
11 1,3-Butadiene	50.000	51.766	103.53	60-140
13 Bromomethane	50.000	56.166	112.33	70-130
16 Chloroethane	50.000	56.586	113.17	70-130
18 Trichlorofluoromet	50.000	53.378	106.76	70-130
21 Ethanol	50.000	52.211	104.42	60-140
27 Freon 113	50.000	53.549	107.10	70-130
29 1,1-Dichloroethene	50.000	54.440	108.88	70-130
30 Acetone	50.000	51.757	103.51	60-140
33 Carbon Disulfide	50.000	49.894	99.79	60-140
34 2-Propanol	50.000	51.100	102.20	60-140
39 Methylene Chloride	50.000	50.415	100.83	70-130
42 MTBE	50.000	48.678	97.36	60-140
43 trans-1,2-Dichloro	50.000	47.448	94.90	60-140
45 Hexane	50.000	47.264	94.53	60-140
52 1,1-Dichloroethane	50.000	50.322	100.64	70-130
63 cis-1,2-Dichloroet	50.000	48.586	97.17	70-130
64 2-Butanone	50.000	43.292	86.58	60-140
66 Tetrahydrofuran	50.000	41.539	83.08	60-140
69 Chloroform	50.000	42.034	84.07	70-130
72 Cyclohexane	50.000	45.060	90.12	60-140
73 1,1,1-Trichloroeth	50.000	45.999	92.00	70-130
75 Carbon Tetrachlori	50.000	47.177	94.35	70-130
79 Benzene	50.000	43.706	87.41	70-130
81 1,2-Dichloroethane	50.000	46.629	93.26	70-130
82 Heptane	50.000	41.370	82.74	60-140
92 Trichloroethene	50.000	46.976	93.95	70-130
95 1,2-Dichloropropan	50.000	44.637	89.27	70-130

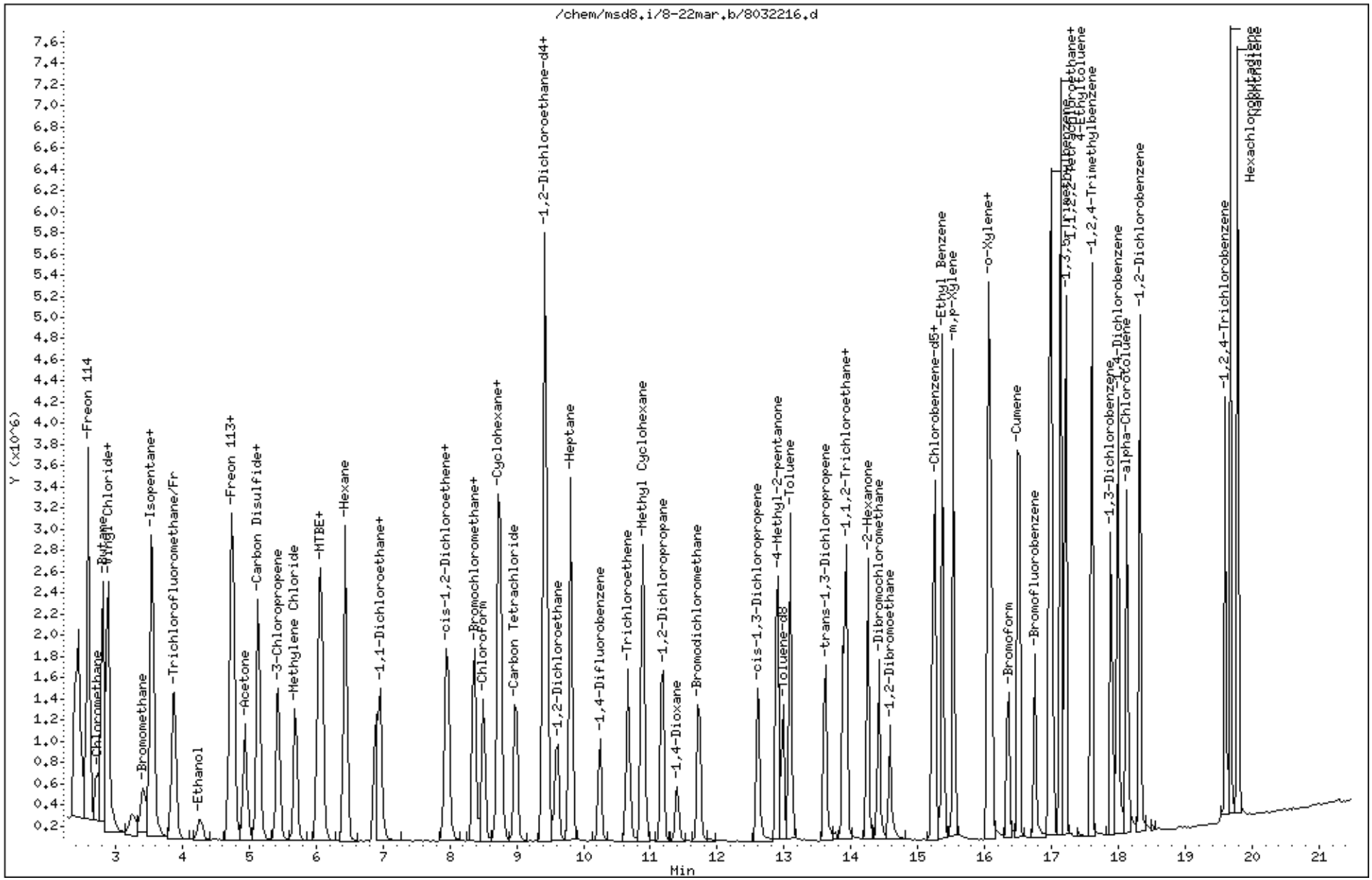
SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
96 1,4-Dioxane	50.000	44.202	88.40	60-140
98 Bromodichlorometha	50.000	45.409	90.82	60-140
100 cis-1,3-Dichloropr	50.000	46.830	93.66	70-130
101 4-Methyl-2-pentano	50.000	44.108	88.22	60-140
103 Toluene	50.000	49.530	99.06	70-130
108 1,1,2-Trichloroeth	50.000	45.298	90.60	70-130
109 Tetrachloroethene	50.000	48.124	96.25	70-130
112 2-Hexanone	50.000	46.606	93.21	60-140
114 Dibromochlorometha	50.000	47.314	94.63	60-140
115 1,2-Dibromoethane	50.000	48.736	97.47	70-130
124 Chlorobenzene	50.000	48.558	97.12	70-130
127 Ethyl Benzene	50.000	47.985	95.97	70-130
128 m,p-Xylene	50.000	47.570	95.14	70-130
130 o-Xylene	50.000	47.935	95.87	70-130
133 Bromoform	50.000	46.914	93.83	60-140
142 1,1,2,2-Tetrachlor	50.000	47.674	95.35	70-130
145 4-Ethyltoluene	50.000	52.208	104.42	60-140
146 1,3,5-Trimethylben	50.000	45.330	90.66	70-130
151 1,2,4-Trimethylben	50.000	46.199	92.40	70-130
154 1,3-Dichlorobenzen	50.000	46.601	93.20	70-130
155 1,4-Dichlorobenzen	50.000	49.991	99.98	70-130
156 alpha-Chlorotoluen	50.000	48.759	97.52	70-130
158 1,2-Dichlorobenzen	50.000	45.034	90.07	70-130
163 1,2,4-Trichloroben	50.000	47.446	94.89	70-130
164 Hexachlorobutadien	50.000	42.634	85.27	70-130
135 Cumene	50.000	46.261	92.52	60-140
143 Propylbenzene	50.000	52.254	104.51	60-140
37 3-Chloropropene	50.000	52.062	104.12	60-140
78 2,2,4-Trimethylpen	50.000	45.926	91.85	60-140
9 Butane	50.000	53.315	106.63	70-130
15 Isopentane	50.000	52.607	105.21	70-130
93 Methyl Cyclohexane	50.000	45.028	90.06	70-130
165 Naphthalene	50.000	70.854	141.71*	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 80 1,2-Dichloroethane	25.000	25.436	101.75	70-130
$ 102 Toluene-d8	25.000	24.447	97.79	70-130
$ 138 Bromofluorobenzene	25.000	24.149	96.59	70-130

Data File: /chem/msd8.i/8-22mar.b/8032216.d
Date : 22-MAR-2007 18:19
Client ID: LCS-1
Sample Info: 50mL #1408-408

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

Column phase: RTx-624



0073

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032203.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 22-MAR-2007 10:41
Operator : sjr Inst ID: msd8.i
Smp Info : 0.2ml 1487-115
Misc Info : 200ppbv -> 0.2ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:08 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 10:41 Cal File: 8032203.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	285447	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	222762			46.35- 106.35		78.04
8.395	8.395 (1.000)	49	841026			255.78- 315.78		294.63
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1360758	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	259943			0.00- 48.88		19.10
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1082018	25.0000		70.00- 130.00		100.00
15.224	15.224 (1.000)	82	726655			0.00- 30.00		67.16
$ 80 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	587414	25.0000	25.018	70.00- 130.00		100.00
9.473	9.473 (1.128)	67	292096			0.00- 30.00		49.73
$ 102 Toluene-d8						CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1356224	25.0000	25.230	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	172342			0.00- 30.00		12.71

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	890926			0.00- 30.00	65.69
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.773	16.773 (1.102)	174	538970	25.0000	23.876	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	902384			137.66- 197.66	167.43
16.773	16.773 (1.102)	176	528806			63.61- 123.61	98.11
69 Chloroform						CAS #: 67-66-3	
8.506	8.506 (1.013)	83	14108	0.20000	0.2628	70.00- 130.00	100.00(a)
8.533	8.533 (1.016)	85	9243			33.71- 93.71	65.52
79 Benzene						CAS #: 71-43-2	
9.418	9.418 (0.919)	78	22113	0.20000	0.2542	70.00- 130.00	100.00(a)
9.418	9.418 (0.919)	77	8130			0.00- 30.00	36.77
131 Styrene						CAS #: 100-42-5	
16.109	16.109 (1.058)	104	14656	0.20000	0.2412	70.00- 130.00	100.00(a)
16.082	16.082 (1.056)	78	11399			28.78- 88.78	77.78
135 Cumene						CAS #: 98-82-8	
16.524	16.524 (1.085)	105	29921	0.20000	0.2471	70.00- 130.00	100.00(a)
16.524	16.524 (1.085)	120	6949			0.00- 30.00	23.22
16.496	16.496 (1.084)	51	6483			0.00- 30.00	21.67

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: 8032203.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv -> 0.2ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	285447	0.60
86 1,4-Difluorobenze	1370859	822515	1919203	1360758	-0.74
123 Chlorobenzene-d5	1067063	640238	1493888	1082018	1.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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.

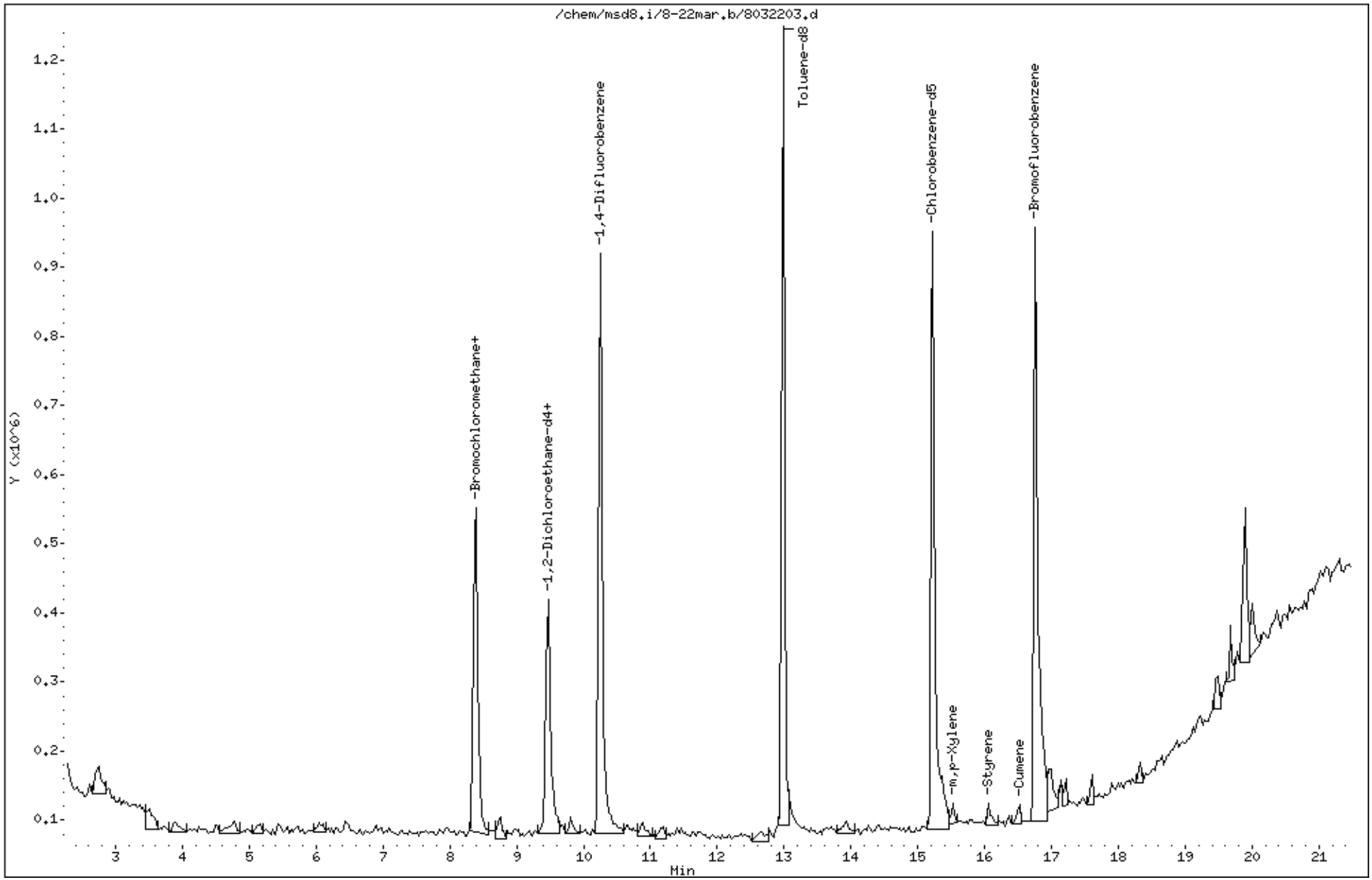
0077

Data File: /chem/msd8.i/8-22mar.b/8032203.d
Date : 22-MAR-2007 10:41
Client ID: Level 1
Sample Info: 0.2ml 1487-115

Column phase: RTx-624

Instrument: msd8.i

Operator: sjr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032215.d
Lab Smp Id: ICAL Client Smp ID: Level 2
Inj Date : 22-MAR-2007 17:30
Operator : sjr Inst ID: msd8.i
Smp Info : 0.5ml 1487-115
Misc Info : 200ppbv -> 0.5ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 17:30 Cal File: 8032215.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICALlevel2.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane					CAS #: 74-97-5			
8.395	8.395 (1.000)	130	270806	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	205077			46.35- 106.35		75.73
8.367	8.367 (1.000)	49	794498			255.78- 315.78		293.38
* 86 1,4-Difluorobenzene					CAS #: 540-36-3			
10.248	10.248 (1.000)	114	1311826	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	240488			0.00- 48.88		18.33
* 123 Chlorobenzene-d5					CAS #: 3114-55-4			
15.225	15.225 (1.000)	117	1039819	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	701224			0.00- 30.00		67.44
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.473	9.473 (1.128)	65	564438	25.0000	25.225	70.00- 130.00		100.00
9.473	9.473 (1.128)	67	303193			0.00- 30.00		53.72
$ 102 Toluene-d8					CAS #: 2037-26-5			
12.985	12.985 (1.267)	98	1271754	25.0000	24.692	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	162520			0.00- 30.00		12.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	881454			0.00- 30.00	69.31
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	487769	25.0000	23.265	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	897698			137.66- 197.66	184.04
16.773	16.773 (1.102)	176	495471			63.61- 123.61	101.58
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.292)	85	42030	0.50000	0.6249	70.00- 130.00	100.00
2.478	2.478 (0.295)	87	13507			0.00- 30.00	32.14
6 Freon 114					CAS #: 76-14-2		
2.616	2.616 (0.312)	135	22788	0.50000	0.6009	70.00- 130.00	100.00
2.644	2.644 (0.315)	137	8952			1.88- 61.88	39.28
10 Vinyl Chloride					CAS #: 75-01-4		
2.921	2.921 (0.348)	62	16055	0.50000	0.5515	70.00- 130.00	100.00
2.893	2.893 (0.345)	64	2845			0.00- 30.00	17.72
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.893 (0.345)	54	18194	0.50000	0.5819	70.00- 130.00	100.00
2.893	2.893 (0.345)	39	71814			0.00- 30.00	394.71
13 Bromomethane					CAS #: 74-83-9		
3.446	3.446 (0.410)	94	11062	0.50000	0.6255	70.00- 130.00	100.00
3.418	3.418 (0.407)	96	21718			64.77- 124.77	196.33
16 Chloroethane					CAS #: 75-00-3		
3.584	3.584 (0.427)	64	9404	0.50000	0.5914	70.00- 130.00	100.00
3.612	3.612 (0.430)	49	4248			0.00- 30.00	45.17
3.695	3.695 (0.440)	66	2350			0.00- 30.00	24.99
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.916	3.916 (0.466)	101	29095	0.50000	0.5434	70.00- 130.00	100.00
3.916	3.916 (0.466)	103	24541			34.71- 94.71	84.35
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	15286	0.50000	0.5812	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	10476			32.67- 92.67	68.53
4.745	4.745 (0.565)	101	25478			124.83- 184.83	166.68
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.773 (0.569)	61	28480	0.50000	0.6054	70.00- 130.00	100.00
4.801	4.801 (0.572)	96	16319			15.10- 75.10	57.30
4.773	4.773 (0.569)	98	11574			0.00- 58.17	40.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
33 Carbon Disulfide					CAS #: 75-15-0		
5.160	5.160 (0.615)	76	43108	0.50000	0.5958	70.00- 130.00	100.00
39 Methylene Chloride					CAS #: 75-09-2		
5.713	5.713 (0.681)	49	24563	0.50000	0.6098	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	13379			18.44- 78.44	54.47
5.713	5.713 (0.681)	51	6981			0.00- 30.00	28.42
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	47973	0.50000	0.5988	70.00- 130.00	100.00
6.045	6.045 (0.720)	57	13535			0.00- 59.33	28.21
6.045	6.045 (0.720)	41	17986			0.00- 30.00	37.49
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	15974	0.50000	0.6337	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	28116			169.97- 229.97	176.01
6.100	6.100 (0.727)	98	12293			0.00- 30.00	76.96
45 Hexane					CAS #: 110-54-3		
6.460	6.460 (0.769)	57	35245	0.50000	0.5968	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	24536			0.00- 30.00	69.62
6.460	6.460 (0.769)	86	5992			0.00- 30.00	17.00
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	28073	0.50000	0.5719	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	12707			0.00- 59.58	45.26
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.951)	72	9064	0.50000	0.6310	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	37052			574.29- 634.29	408.78
7.980	7.980 (0.951)	57	3317			0.00- 30.00	36.60
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	19760	0.50000	0.5612	70.00- 130.00	100.00
7.953	7.953 (0.947)	96	10181			27.36- 87.36	51.52
7.953	7.953 (0.947)	98	11221			5.83- 65.83	56.79
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	36347	0.50000	0.6537	70.00- 130.00	100.00
8.395	8.395 (1.000)	71	10429			0.00- 54.93	28.69
8.367	8.367 (0.997)	72	9696			0.00- 30.00	26.68
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.013)	83	27459	0.50000	0.5254	70.00- 130.00	100.00
8.533	8.533 (1.016)	85	14750			33.71- 93.71	53.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.755	8.755 (1.043)	97	25097	0.50000	0.5909	70.00- 130.00	100.00
8.755	8.755 (1.043)	99	15727			33.95- 93.95	62.66
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	21555	0.50000	0.6076	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	31282			138.68- 198.68	145.13
8.727	8.727 (1.040)	41	25266			73.81- 133.81	117.22
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	18169	0.50000	0.5543	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	20156			81.67- 141.67	110.94
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	38732	0.50000	0.4739	70.00- 130.00	100.00(a)
9.418	9.418 (0.919)	77	13594			0.00- 30.00	35.10
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	22054	0.50000	0.5953	70.00- 130.00	100.00
9.612	9.612 (0.938)	64	7025			0.00- 30.00	31.85
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	7424	0.50000	0.6746	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	52953			0.00- 30.00	713.27
9.833	9.833 (0.960)	71	18647			0.00- 30.00	251.17
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	12618	0.50000	0.5430	70.00- 130.00	100.00
10.690	10.690 (1.043)	130	13346			57.13- 117.13	105.77
10.662	10.662 (1.040)	97	8061			32.50- 92.50	63.88
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	17718	0.50000	0.6000	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	12940			45.03- 105.03	73.03
11.188	11.188 (1.092)	41	12462			45.52- 105.52	70.34
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	23415	0.50000	0.5696	70.00- 130.00	100.00
11.741	11.741 (1.146)	85	15224			32.38- 92.38	65.02
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.232)	75	20173	0.50000	0.5704	70.00- 130.00	100.00
12.625	12.625 (1.232)	77	7291			1.52- 61.52	36.14
12.625	12.625 (1.232)	39	11695			48.26- 108.26	57.97
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	17822	0.50000	0.5955	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
101 4-Methyl-2-pentanone (continued)							
12.902	12.902 (1.259)	43	51793			0.00- 30.00	290.61
12.902	12.902 (1.259)	85	9743			0.00- 30.00	54.67
103 Toluene					CAS #: 108-88-3		
13.096	13.096 (1.278)	91	35164	0.50000	0.5344	70.00- 130.00	100.00
13.096	13.096 (1.278)	92	25326			29.45- 89.45	72.02
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	23242	0.50000	0.5860	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	8854			1.42- 61.42	38.09
13.621	13.621 (0.895)	39	14308			43.57- 103.57	61.56
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	13582	0.50000	0.5878	70.00- 130.00	100.00
13.870	13.870 (0.911)	99	8275			31.40- 91.40	60.93
13.870	13.870 (0.911)	83	13152			60.06- 120.06	96.83
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	14217	0.50000	0.5766	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	11924			46.36- 106.36	83.87
13.925	13.925 (0.915)	131	8940			45.00- 105.00	62.88
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	20545	0.50000	0.6288	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	38619			176.52- 236.52	187.97
14.257	14.257 (0.936)	100	6148			0.00- 30.00	29.92
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	17348	0.50000	0.5700	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	15277			0.00- 30.00	88.06
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.589 (0.958)	107	15949	0.50000	0.5388	70.00- 130.00	100.00
14.589	14.589 (0.958)	109	17920			62.88- 122.88	112.36
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	29163	0.50000	0.5604	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	13422			0.73- 60.73	46.02
15.252	15.252 (1.002)	77	29566			40.58- 100.58	101.38
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	17066	0.50000	0.5755	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	51748			0.00- 30.00	303.22
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	21671	0.50000	0.5707	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
128 m,p-Xylene (continued)							
15.529	15.529 (1.020)	91	45416			0.00- 30.00	209.57
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	20158	0.50000	0.5650	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	42807			195.99- 255.99	212.36
131 Styrene					CAS #: 100-42-5		
16.109	16.109 (1.058)	104	23849	0.50000	0.4350	70.00- 130.00	100.00(a)
16.082	16.082 (1.056)	78	14289			28.78- 88.78	59.91
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	12843	0.50000	0.5272	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	8122			21.17- 81.17	63.24
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	28519	0.50000	0.5624	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	16875			34.35- 94.35	59.17
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	60065	0.50000	0.5485	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	14682			0.00- 54.57	24.44
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	56714	0.50000	0.5707	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	22159			0.00- 30.00	39.07
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	53686	0.50000	0.5797	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	22150			11.41- 71.41	41.26
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.907	17.907 (1.176)	146	22328	0.50000	0.5493	70.00- 130.00	100.00
17.907	17.907 (1.176)	148	16082			0.00- 30.00	72.03
17.879	17.879 (1.174)	111	10660			0.00- 30.00	47.74
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	29954	0.50000	0.5706	70.00- 130.00	100.00
17.989	17.989 (1.182)	148	13724			0.00- 30.00	45.82
17.989	17.989 (1.182)	111	11705			0.00- 30.00	39.08
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	38235	0.50000	0.5268	70.00- 130.00	100.00
18.128	18.128 (1.191)	126	7448			0.00- 30.00	19.48
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	26326	0.50000	0.5785	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
158 1,2-Dichlorobenzene (continued)							
18.321	18.321 (1.203)	148	16880			33.83- 93.83	64.12
18.321	18.321 (1.203)	111	14335			21.29- 81.29	54.45
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	55515	0.50000	0.4844	70.00- 130.00	100.00(a)
16.524	16.524 (1.085)	120	14849			0.00- 30.00	26.75
16.496	16.496 (1.084)	51	10327			0.00- 30.00	18.60
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	68703	0.50000	0.5556	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	14050			0.00- 30.00	20.45
16.994	16.994 (1.116)	105	6002			0.00- 30.00	8.74
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.418	9.418 (1.122)	57	89003	0.50000	0.5639	70.00- 130.00	100.00
9.418	9.418 (1.122)	56	33063			0.00- 30.00	37.15
9.418	9.418 (1.122)	41	31452			0.00- 30.00	35.34
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.911	10.911 (1.300)	83	26434	0.50000	0.5964	70.00- 130.00	100.00
10.884	10.884 (1.296)	98	14042			0.00- 30.00	53.12
10.884	10.884 (1.296)	55	27351			0.00- 30.00	103.47

QC Flag Legend

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

Report Date: 23-Mar-2007 08:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032215.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv -> 0.5ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	270806	-4.56
86 1,4-Difluorobenze	1370859	822515	1919203	1311826	-4.31
123 Chlorobenzene-d5	1067063	640238	1493888	1039819	-2.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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/8-22mar.b/8032215.d

Date : 22-MAR-2007 17:30

Client ID: Level 2

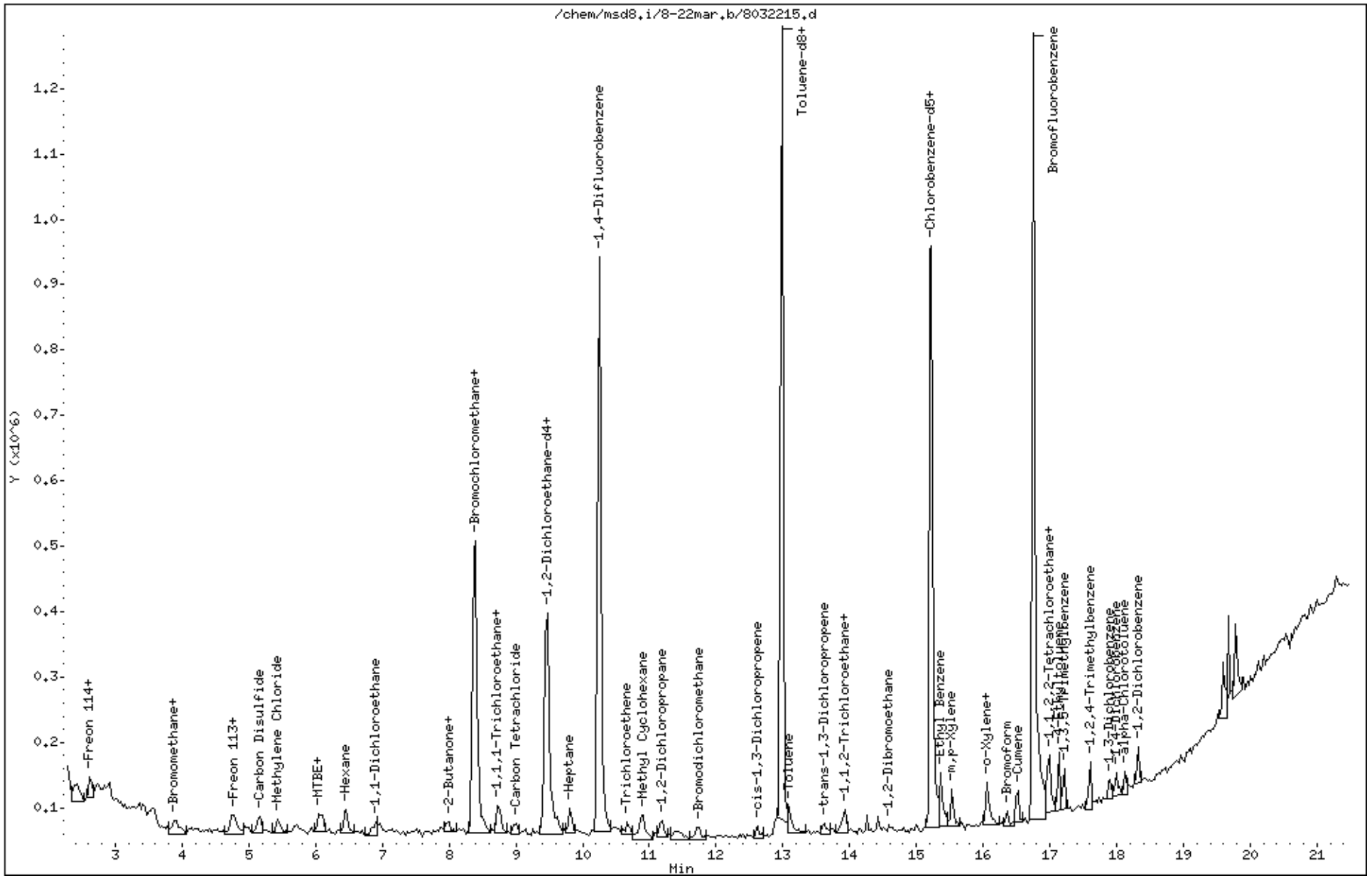
Sample Info: 0.5ml 1487-115

Column phase: RTx-624

Instrument: msd8.i

Operator: sjr

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26mar.b/8032606.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 3
Inj Date : 26-MAR-2007 12:15
Operator : ea Inst ID: msd8.i
Smp Info : 2.0ml #1487-42
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msd8.i/8-26mar.b/t14q322b.m
Meth Date : 26-Mar-2007 13:58 ealcan Quant Type: ISTD
Cal Date : 26-MAR-2007 12:15 Cal File: 8032606.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp5b.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	293727	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	225479			46.88- 106.88		76.76
8.367	8.367 (1.000)	49	828524			254.92- 314.92		282.07
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1372405	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	259807			0.00- 48.81		18.93
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1065309	25.0000		70.00- 130.00		100.00
15.224	15.224 (1.000)	82	720886			0.00- 30.00		67.67
194 2-Methylpentane						CAS #: 107-83-5		
5.547	5.547 (0.661)	71	57426	2.00000	2.417	70.00- 130.00		100.00
5.547	5.547 (0.661)	43	218120			0.00- 30.00		379.83
5.547	5.547 (0.661)	42	109426			0.00- 30.00		190.55
195 Thiopene						CAS #: 110-02-1		
9.833	9.833 (0.960)	84	108102	2.00000	2.401	70.00- 130.00		100.00(T)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
195 Thiopene (continued)							
9.833	9.833 (0.960)	58	79477			0.00- 30.00	73.52
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
196 Indan					CAS #: 496-11-7		
18.183	18.183 (1.194)	117	227148	2.00000	2.439	70.00- 130.00	100.00
18.183	18.183 (1.194)	118	124147			0.00- 30.00	54.65
18.183	18.183 (1.194)	91	53358			0.00- 30.00	23.49
197 Indene					CAS #: 95-13-6		
18.404	18.404 (1.209)	115	148838	2.00000	2.457	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	16	0			0.00- 30.00	0.00
83 2,3-Dimethylpentane					CAS #: 565-59-3		
8.782	8.782 (1.046)	71	45393	2.00000	2.356	70.00- 130.00	100.00
8.810	8.810 (1.049)	56	153558			314.83- 374.83	338.29
8.782	8.782 (1.046)	43	145616			0.00- 30.00	320.79

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msd8.i/8-26mar.b/t14q322b.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 26-MAR-2007
Calibration Time: 12:43
Client Smp ID: LEVEL 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	291821	175093	408549	293727	0.65
86 1,4-Difluorobenze	1354208	812525	1895891	1372405	1.34
123 Chlorobenzene-d5	1071895	643137	1500653	1065309	-0.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.40	8.07	8.73	8.39	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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.

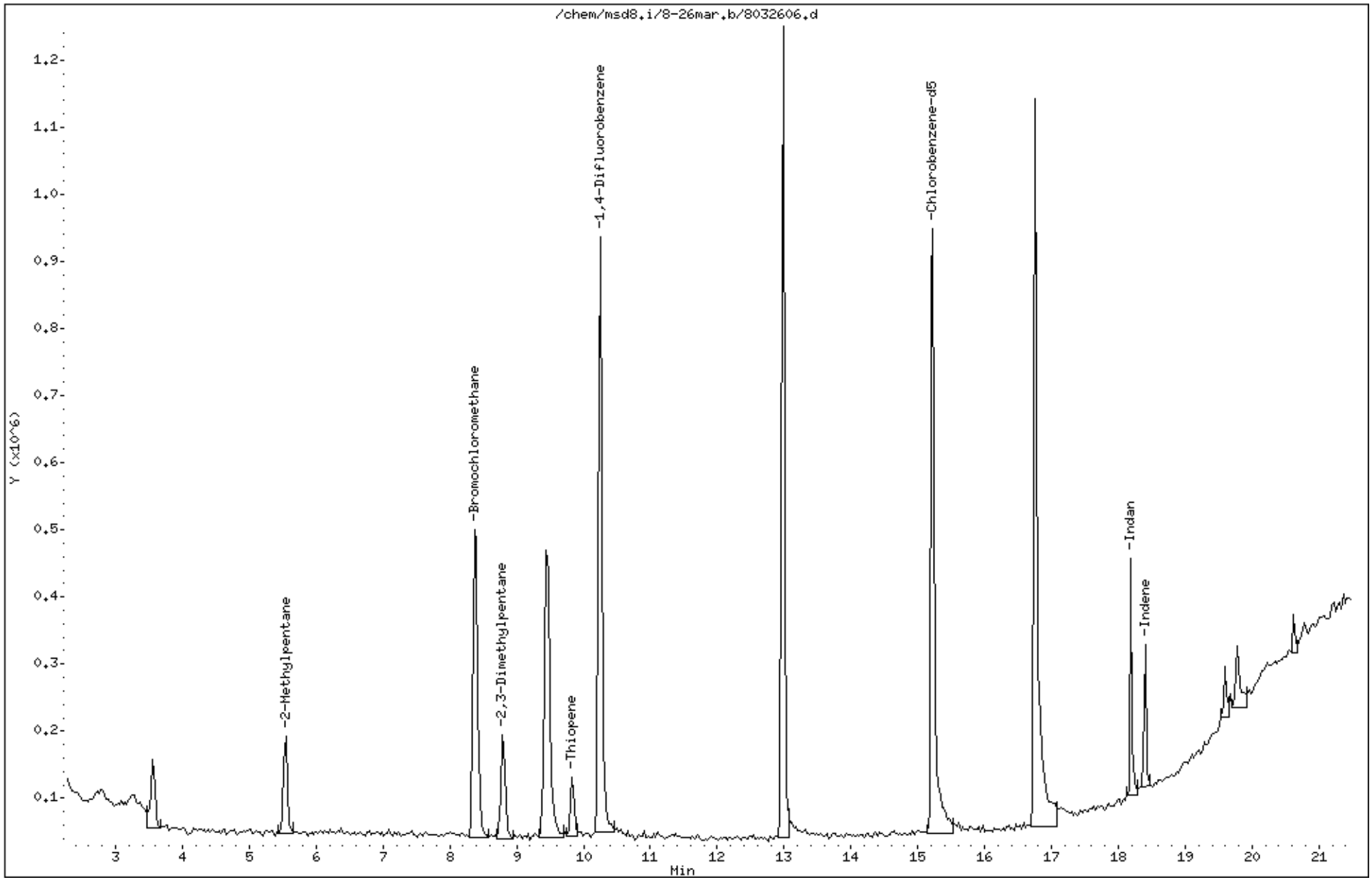
0090

Data File: /chem/msd8.i/8-26mar.b/8032606.d
Date : 26-MAR-2007 12:15
Client ID: LEVEL 3
Sample Info: 2.0ml #1487-42

Column phase: RTx-624

Instrument: msd8.i

Operator: ea
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032205.d
Lab Smp Id: ICAL Client Smp ID: Level 3
Inj Date : 22-MAR-2007 11:38
Operator : sjr Inst ID: msd8.i
Smp Info : 2.0ml 1487-115
Misc Info : 200ppbv -> 2ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 11:38 Cal File: 8032205.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+Na+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 67 Bromochloromethane					CAS #: 74-97-5		
8.395	8.395 (1.000)	130	275416	25.0000		70.00- 130.00	100.00
8.395	8.395 (1.000)	128	214844			46.35- 106.35	78.01
8.395	8.395 (1.000)	49	843588			255.78- 315.78	306.30
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1361295	25.0000		70.00- 130.00	100.00
10.248	10.248 (1.000)	88	247284			0.00- 48.88	18.17
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1067969	25.0000		70.00- 130.00	100.00
15.224	15.224 (1.000)	82	699917			0.00- 30.00	65.54
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	591430	25.0000	25.734	70.00- 130.00	100.00
9.473	9.473 (1.128)	67	299310			0.00- 30.00	50.61
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1293142	25.0000	24.391	70.00- 130.00	100.00
12.985	12.985 (1.267)	70	177809			0.00- 30.00	13.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	845124			0.00- 30.00	65.35
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	543659	25.0000	25.185	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	861291			137.66- 197.66	158.42
16.773	16.773 (1.102)	176	504513			63.61- 123.61	92.80
3 Propylene					CAS #: 115-07-1		
2.395	2.395 (0.285)	41	80391	2.00000	2.431	70.00- 130.00	100.00
2.395	2.395 (0.285)	42	56887			0.00- 30.00	70.76
2.395	2.395 (0.285)	39	58801			0.00- 30.00	73.14
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.292)	85	150641	2.00000	2.130	70.00- 130.00	100.00
2.450	2.450 (0.292)	87	52547			0.00- 30.00	34.88
6 Freon 114					CAS #: 76-14-2		
2.616	2.616 (0.312)	135	80893	2.00000	2.064	70.00- 130.00	100.00(H)
2.616	2.616 (0.312)	137	25279			1.88- 61.88	31.25
8 Chloromethane					CAS #: 74-87-3		
2.755	2.755 (0.328)	50	94717	2.00000	2.511	70.00- 130.00	100.00
2.755	2.755 (0.328)	52	32017			0.00- 30.00	33.80
10 Vinyl Chloride					CAS #: 75-01-4		
2.920	2.920 (0.348)	62	77330	2.00000	2.370	70.00- 130.00	100.00
2.893	2.893 (0.345)	64	28295			0.00- 30.00	36.59
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.893 (0.345)	54	81680	2.00000	2.346	70.00- 130.00	100.00
2.893	2.893 (0.345)	39	193417			0.00- 30.00	236.80
13 Bromomethane					CAS #: 74-83-9		
3.446	3.446 (0.410)	94	37760	2.00000	2.065	70.00- 130.00	100.00
3.446	3.446 (0.410)	96	36806			64.77- 124.77	97.47
16 Chloroethane					CAS #: 75-00-3		
3.612	3.612 (0.430)	64	38142	2.00000	2.226	70.00- 130.00	100.00
3.612	3.612 (0.430)	49	14286			0.00- 30.00	37.45
3.612	3.612 (0.430)	66	9687			0.00- 30.00	25.40
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.916	3.916 (0.466)	101	139609	2.00000	2.343	70.00- 130.00	100.00
3.916	3.916 (0.466)	103	94957			34.71- 94.71	68.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
21 Ethanol					CAS #: 64-17-5		
4.275	4.275 (0.509)	45	32514	2.00000	2.322	70.00- 130.00	100.00
4.248	4.248 (0.506)	43	13134			0.00- 30.00	40.39
4.248	4.248 (0.506)	46	17713			0.00- 30.00	54.48
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	70996	2.00000	2.393	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	39185			32.67- 92.67	55.19
4.745	4.745 (0.565)	101	96260			124.83- 184.83	135.59
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.801	4.801 (0.572)	61	111438	2.00000	2.208	70.00- 130.00	100.00
4.801	4.801 (0.572)	96	54692			15.10- 75.10	49.08
4.801	4.801 (0.572)	98	30302			0.00- 58.17	27.19
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.588)	58	45330	2.00000	2.490	70.00- 130.00	100.00
4.939	4.939 (0.588)	43	136965			0.00- 30.00	302.15
34 2-Propanol					CAS #: 67-63-0		
5.160	5.160 (0.615)	45	151092	2.00000	2.257	70.00- 130.00	100.00
5.160	5.160 (0.615)	43	47357			0.00- 30.00	31.34
5.160	5.160 (0.615)	59	7137			0.00- 30.00	4.72
33 Carbon Disulfide					CAS #: 75-15-0		
5.160	5.160 (0.615)	76	169984	2.00000	2.197	70.00- 130.00	100.00
39 Methylene Chloride					CAS #: 75-09-2		
5.713	5.713 (0.681)	49	94236	2.00000	2.191	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	43931			18.44- 78.44	46.62
5.713	5.713 (0.681)	51	30460			0.00- 30.00	32.32
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	188996	2.00000	2.202	70.00- 130.00	100.00
6.045	6.045 (0.720)	57	57183			0.00- 59.33	30.26
6.045	6.045 (0.720)	41	64052			0.00- 30.00	33.89
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	56019	2.00000	2.120	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	104489			169.97- 229.97	186.52
6.100	6.100 (0.727)	98	37274			0.00- 30.00	66.54
45 Hexane					CAS #: 110-54-3		
6.460	6.460 (0.769)	57	138775	2.00000	2.197	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	105650			0.00- 30.00	76.13
6.460	6.460 (0.769)	86	17560			0.00- 30.00	12.65

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.829)	86	11360	2.00000	1.985	70.00- 130.00	100.00(a)
6.985	6.985 (0.832)	43	222873			0.00- 30.00	1961.91
6.985	6.985 (0.832)	42	30814			0.00- 30.00	271.25
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	112495	2.00000	2.162	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	38326			0.00- 59.58	34.07
64 2-Butanone					CAS #: 78-93-3		
8.008	8.008 (0.954)	72	31076	2.00000	2.083	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	189499			574.29- 634.29	609.79
8.008	8.008 (0.954)	57	13265			0.00- 30.00	42.69
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	93793	2.00000	2.374	70.00- 130.00	100.00
7.953	7.953 (0.947)	96	53841			27.36- 87.36	57.40
7.953	7.953 (0.947)	98	35782			5.83- 65.83	38.15
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	112088	2.00000	1.988	70.00- 130.00	100.00
8.367	8.367 (0.997)	71	31794			0.00- 54.93	28.37
8.367	8.367 (0.997)	72	36828			0.00- 30.00	32.86
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.013)	83	99138	2.00000	1.897	70.00- 130.00	100.00
8.506	8.506 (1.013)	85	60557			33.71- 93.71	61.08
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.754	8.754 (1.043)	97	102556	2.00000	2.235	70.00- 130.00	100.00
8.754	8.754 (1.043)	99	65946			33.95- 93.95	64.30
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	88061	2.00000	2.274	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	144374			138.68- 198.68	163.95
8.727	8.727 (1.040)	41	83275			73.81- 133.81	94.57
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	83711	2.00000	2.314	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	90621			81.67- 141.67	108.25
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	176144	2.00000	2.057	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	42211			0.00- 30.00	23.96
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	85388	2.00000	2.142	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
81 1,2-Dichloroethane (continued)							
9.612	9.612 (0.938)	64	28911			0.00- 30.00	33.86
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	19431	2.00000	1.790	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	173362			0.00- 30.00	892.19
9.805	9.805 (0.957)	71	61608			0.00- 30.00	317.06
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	65132	2.00000	2.418	70.00- 130.00	100.00
10.690	10.690 (1.043)	130	44283			57.13- 117.13	67.99
10.662	10.662 (1.040)	97	42276			32.50- 92.50	64.91
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	66549	2.00000	2.111	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	52517			45.03- 105.03	78.91
11.188	11.188 (1.092)	41	54992			45.52- 105.52	82.63
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	37221	2.00000	2.314	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	35515			70.27- 130.27	95.42
11.409	11.409 (1.113)	57	15135			0.00- 30.00	40.66
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	102417	2.00000	2.250	70.00- 130.00	100.00
11.741	11.741 (1.146)	85	67122			32.38- 92.38	65.54
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.232)	75	83591	2.00000	2.177	70.00- 130.00	100.00
12.625	12.625 (1.232)	77	23874			1.52- 61.52	28.56
12.625	12.625 (1.232)	39	64418			48.26- 108.26	77.06
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	67980	2.00000	2.122	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	203570			0.00- 30.00	299.46
12.902	12.902 (1.259)	85	22270			0.00- 30.00	32.76
103 Toluene					CAS #: 108-88-3		
13.095	13.095 (1.278)	91	171210	2.00000	2.312	70.00- 130.00	100.00
13.095	13.095 (1.278)	92	93386			29.45- 89.45	54.54
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	82643	2.00000	2.019	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	31993			1.42- 61.42	38.71
13.621	13.621 (0.895)	39	78281			43.57- 103.57	94.72

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	49580	2.00000	2.058	70.00- 130.00	100.00
13.897	13.897 (0.913)	99	31406			31.40- 91.40	63.34
13.897	13.897 (0.913)	83	46646			60.06- 120.06	94.08
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	48412	2.00000	1.940	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	47041			46.36- 106.36	97.17
13.925	13.925 (0.915)	131	40366			45.00- 105.00	83.38
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	75259	2.00000	2.114	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	175210			176.52- 236.52	232.81
14.257	14.257 (0.936)	100	13078			0.00- 30.00	17.38
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	69176	2.00000	2.137	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	50548			0.00- 30.00	73.07
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.589 (0.958)	107	75869	2.00000	2.305	70.00- 130.00	100.00
14.589	14.589 (0.958)	109	73073			62.88- 122.88	96.31
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	119945	2.00000	2.156	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	44278			0.73- 60.73	36.92
15.252	15.252 (1.002)	77	94503			40.58- 100.58	78.79
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	63387	2.00000	2.053	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	227641			0.00- 30.00	359.13
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	83062	2.00000	2.084	70.00- 130.00	100.00
15.529	15.529 (1.020)	91	188273			0.00- 30.00	226.67
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	86049	2.00000	2.219	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	194934			195.99- 255.99	226.54
131 Styrene					CAS #: 100-42-5		
16.082	16.082 (1.056)	104	128028	2.00000	2.198	70.00- 130.00	100.00
16.082	16.082 (1.056)	78	77317			28.78- 88.78	60.39
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	55198	2.00000	2.133	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
133 Bromoform (continued)							
16.358	16.358 (1.074)	171	30668			21.17- 81.17	55.56
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	121397	2.00000	2.209	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	81065			34.35- 94.35	66.78
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	244319	2.00000	2.112	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	57573			0.00- 54.57	23.56
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	262265	2.00000	2.347	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	111702			0.00- 30.00	42.59
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	220430	2.00000	2.201	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	92573			11.41- 71.41	42.00
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.906	17.906 (1.176)	146	82808	2.00000	1.989	70.00- 130.00	100.00
17.906	17.906 (1.176)	148	57275			0.00- 30.00	69.17
17.906	17.906 (1.176)	111	36240			0.00- 30.00	43.76
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	107737	2.00000	1.999	70.00- 130.00	100.00
17.989	17.989 (1.182)	148	72586			0.00- 30.00	67.37
17.989	17.989 (1.182)	111	44084			0.00- 30.00	40.92
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	148060	2.00000	1.991	70.00- 130.00	100.00
18.128	18.128 (1.191)	126	30145			0.00- 30.00	20.36
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	99085	2.00000	2.078	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	58889			33.83- 93.83	59.43
18.321	18.321 (1.203)	111	46285			21.29- 81.29	46.71
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	62263	2.00000	2.220	70.00- 130.00	100.00
19.593	19.593 (1.287)	182	58921			62.06- 122.06	94.63
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	104649	2.00000	2.558	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	57449			35.92- 95.92	54.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	243116	2.00000	2.049	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	52203			0.00- 30.00	21.47
16.496	16.496 (1.084)	51	38911			0.00- 30.00	16.01
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	287725	2.00000	2.169	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	52173			0.00- 30.00	18.13
16.994	16.994 (1.116)	105	13051			0.00- 30.00	4.54
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.437 (0.648)	76	29487	2.00000	2.368	70.00- 130.00	100.00
5.437	5.437 (0.648)	41	139623			0.00- 30.00	473.51
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.446	9.446 (1.125)	57	396404	2.00000	2.290	70.00- 130.00	100.00
9.418	9.418 (1.122)	56	133818			0.00- 30.00	33.76
9.418	9.418 (1.122)	41	121704			0.00- 30.00	30.70
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	229919	2.00000	2.376	70.00- 130.00	100.00
19.787	19.787 (1.300)	127	33934			0.00- 30.00	14.76
9 Butane					CAS #: 106-97-8		
2.837	2.837 (0.338)	58	25473	2.00000	2.569	70.00- 130.00	100.00
2.837	2.837 (0.338)	43	171107			0.00- 30.00	671.72
15 Isopentane					CAS #: 78-78-4		
3.556	3.556 (0.424)	43	146320	2.00000	2.466	70.00- 130.00	100.00
3.556	3.556 (0.424)	57	75097			0.00- 30.00	51.32
3.556	3.556 (0.424)	72	9820			0.00- 30.00	6.71
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.883	10.883 (1.296)	83	107485	2.00000	2.241	70.00- 130.00	100.00
10.911	10.911 (1.300)	98	43831			0.00- 30.00	40.78
10.883	10.883 (1.296)	55	121330			0.00- 30.00	112.88

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032205.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv -> 2ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	275416	-2.93
86 1,4-Difluorobenze	1370859	822515	1919203	1361295	-0.70
123 Chlorobenzene-d5	1067063	640238	1493888	1067969	0.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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.

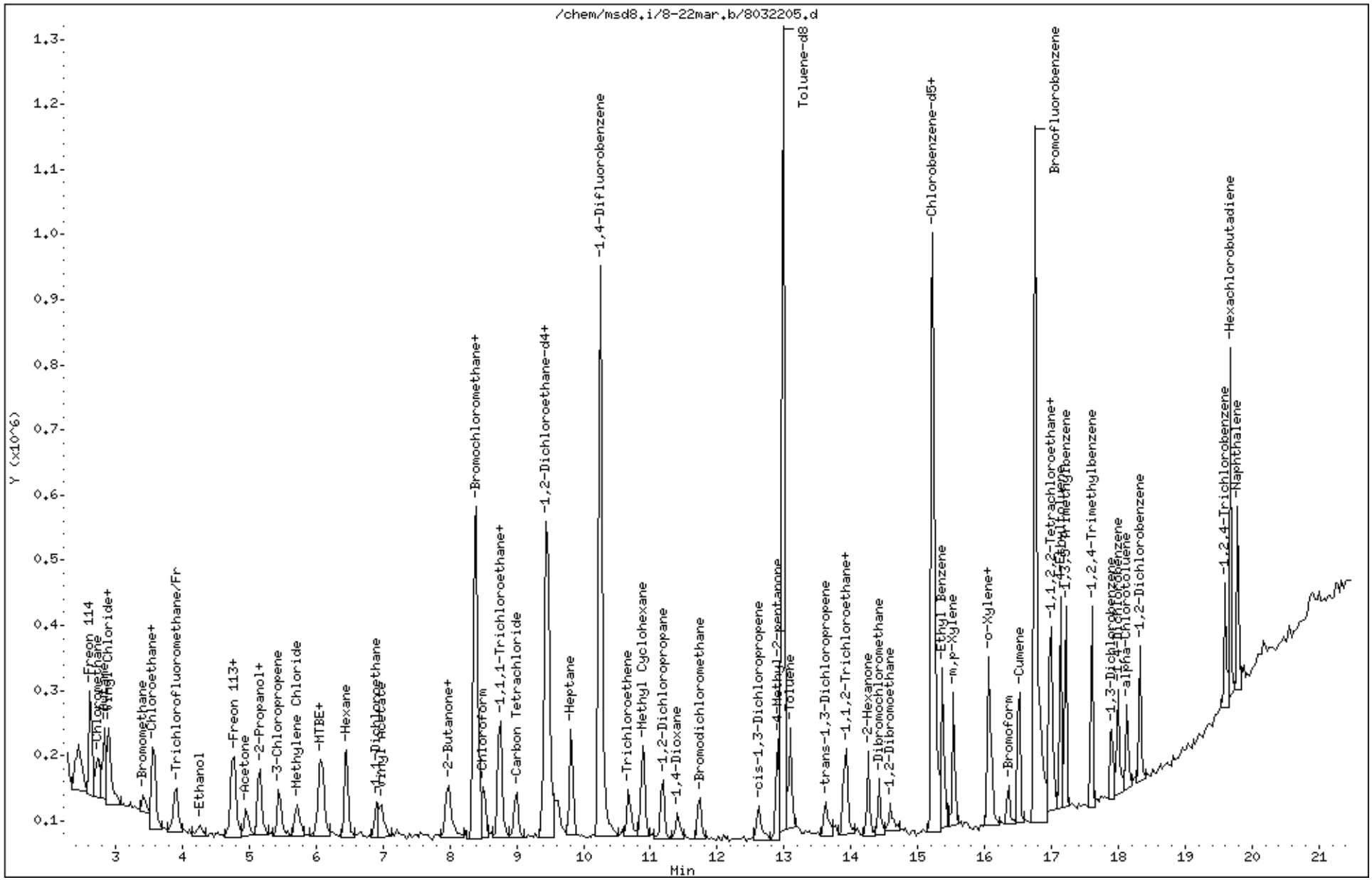
0100

Data File: /chem/msd8.i/8-22mar.b/8032205.d
Date : 22-MAR-2007 11:38
Client ID: Level 3
Sample Info: 2.0ml 1487-115

Instrument: msd8.i

Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032206.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 22-MAR-2007 12:06
Operator : sjr Inst ID: msd8.i
Smp Info : 25ml 1487-115
Misc Info : 200ppbv->25ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 12:06 Cal File: 8032206.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	284047	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	223837			46.35- 106.35		78.80
8.368	8.368 (1.000)	49	821968			255.78- 315.78		289.38
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1370589	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	261113			0.00- 48.88		19.05
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.225	15.225 (1.000)	117	1101300	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	733265			0.00- 30.00		66.58
$ 80 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.474	9.474 (1.128)	65	634634	25.0000	26.400	70.00- 130.00		100.00
9.474	9.474 (1.128)	67	318417			0.00- 30.00		50.17
$ 102 Toluene-d8						CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1353120	25.0000	25.279	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	171655			0.00- 30.00		12.69

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	916907			0.00- 30.00	67.76
$ 138 Bromofluorobenzene						CAS #: 460-00-4	
16.745	16.745 (1.100)	174	565422	25.0000	25.319	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	952630			137.66- 197.66	168.48
16.745	16.745 (1.100)	176	564473			63.61- 123.61	99.83
3 Propylene						CAS #: 115-07-1	
2.395	2.395 (0.285)	41	699671	25.0000	21.819	70.00- 130.00	100.00
2.395	2.395 (0.285)	42	459264			0.00- 30.00	65.64
2.395	2.395 (0.285)	39	505920			0.00- 30.00	72.31
4 Dichlorodifluoromethane/Fr12						CAS #: 75-71-8	
2.451	2.451 (0.292)	85	1439765	25.0000	20.838	70.00- 130.00	100.00
2.451	2.451 (0.292)	87	454966			0.00- 30.00	31.60
6 Freon 114						CAS #: 76-14-2	
2.589	2.589 (0.308)	135	827106	25.0000	21.434	70.00- 130.00	100.00
2.589	2.589 (0.308)	137	245941			1.88- 61.88	29.74
8 Chloromethane						CAS #: 74-87-3	
2.727	2.727 (0.325)	50	760770	25.0000	21.088	70.00- 130.00	100.00
2.727	2.727 (0.325)	52	240634			0.00- 30.00	31.63
9 Butane						CAS #: 106-97-8	
2.810	2.810 (0.335)	58	193671	25.0000	20.606	70.00- 130.00	100.00
2.810	2.810 (0.335)	43	1529744			0.00- 30.00	789.87
10 Vinyl Chloride						CAS #: 75-01-4	
2.893	2.893 (0.345)	62	722193	25.0000	22.250	70.00- 130.00	100.00
2.921	2.921 (0.348)	64	215629			0.00- 30.00	29.86
11 1,3-Butadiene						CAS #: 106-99-0	
2.865	2.865 (0.341)	54	720558	25.0000	21.110	70.00- 130.00	100.00
2.865	2.865 (0.341)	39	880604			0.00- 30.00	122.21
13 Bromomethane						CAS #: 74-83-9	
3.418	3.418 (0.407)	94	363545	25.0000	20.450	70.00- 130.00	100.00
3.418	3.418 (0.407)	96	329744			64.77- 124.77	90.70
15 Isopentane						CAS #: 78-78-4	
3.557	3.557 (0.424)	43	1199529	25.0000	21.120	70.00- 130.00	100.00
3.557	3.557 (0.424)	57	727109			0.00- 30.00	60.62
3.557	3.557 (0.424)	72	67241			0.00- 30.00	5.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.557	3.557 (0.424)	64	369678	25.0000	21.806	70.00- 130.00	100.00
3.557	3.557 (0.424)	49	113454			0.00- 30.00	30.69
3.557	3.557 (0.424)	66	115437			0.00- 30.00	31.23
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.888	3.888 (0.463)	101	1352144	25.0000	22.686	70.00- 130.00	100.00
3.888	3.888 (0.463)	103	878754			34.71- 94.71	64.99
21 Ethanol					CAS #: 64-17-5		
4.248	4.248 (0.506)	45	314916	25.0000	22.776	70.00- 130.00	100.00
4.248	4.248 (0.506)	43	69502			0.00- 30.00	22.07
4.248	4.248 (0.506)	46	143603			0.00- 30.00	45.60
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	610034	25.0000	21.002	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	389700			32.67- 92.67	63.88
4.745	4.745 (0.565)	101	945928			124.83- 184.83	155.06
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.773 (0.569)	61	1030905	25.0000	20.891	70.00- 130.00	100.00
4.773	4.773 (0.569)	96	462006			15.10- 75.10	44.82
4.773	4.773 (0.569)	98	282914			0.00- 58.17	27.44
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.588)	58	394063	25.0000	22.178	70.00- 130.00	100.00
4.939	4.939 (0.588)	43	1348833			0.00- 30.00	342.29
33 Carbon Disulfide					CAS #: 75-15-0		
5.133	5.133 (0.611)	76	1581151	25.0000	20.896	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.133	5.133 (0.611)	45	1545684	25.0000	23.198	70.00- 130.00	100.00
5.133	5.133 (0.611)	43	332266			0.00- 30.00	21.50
5.133	5.133 (0.611)	59	50332			0.00- 30.00	3.26
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.437 (0.648)	76	266845	25.0000	22.018	70.00- 130.00	100.00
5.437	5.437 (0.648)	41	1223525			0.00- 30.00	458.52
39 Methylene Chloride					CAS #: 75-09-2		
5.686	5.686 (0.677)	49	882904	25.0000	20.971	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	418715			18.44- 78.44	47.42
5.686	5.686 (0.677)	51	255897			0.00- 30.00	28.98
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	1782455	25.0000	21.167	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.045 (0.720)	57	538572			0.00- 59.33	30.22
6.045	6.045 (0.720)	41	553460			0.00- 30.00	31.05
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	508539	25.0000	19.921	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	1024177			169.97- 229.97	201.40
6.100	6.100 (0.727)	98	320921			0.00- 30.00	63.11
45 Hexane					CAS #: 110-54-3		
6.432	6.432 (0.766)	57	1315489	25.0000	21.212	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	960958			0.00- 30.00	73.05
6.460	6.460 (0.769)	86	174067			0.00- 30.00	13.23
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	1131951	25.0000	21.952	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	333923			0.00- 59.58	29.50
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.829)	86	139932	25.0000	24.124	70.00- 130.00	100.00
6.957	6.957 (0.829)	43	2265817			0.00- 30.00	1619.23
6.957	6.957 (0.829)	42	212529			0.00- 30.00	151.88
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	864179	25.0000	22.046	70.00- 130.00	100.00
7.953	7.953 (0.947)	96	478959			27.36- 87.36	55.42
7.953	7.953 (0.947)	98	310381			5.83- 65.83	35.92
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.951)	72	288208	25.0000	19.985	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	1731315			574.29- 634.29	600.72
7.980	7.980 (0.951)	57	111897			0.00- 30.00	38.83
66 Tetrahydrofuran					CAS #: 109-99-9		
8.368	8.368 (0.997)	42	1059865	25.0000	19.552	70.00- 130.00	100.00
8.368	8.368 (0.997)	71	251229			0.00- 54.93	23.70
8.368	8.368 (0.997)	72	268980			0.00- 30.00	25.38
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.013)	83	961478	25.0000	18.924	70.00- 130.00	100.00
8.506	8.506 (1.013)	85	617819			33.71- 93.71	64.26
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	778381	25.0000	20.624	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	1305092			138.68- 198.68	167.67
8.727	8.727 (1.040)	41	792458			73.81- 133.81	101.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.755	8.755 (1.043)	97	960173	25.0000	21.290	70.00- 130.00	100.00
8.755	8.755 (1.043)	99	617103			33.95- 93.95	64.27
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	798425	25.0000	22.200	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	880568			81.67- 141.67	110.29
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.418	9.418 (1.122)	57	3798916	25.0000	22.104	70.00- 130.00	100.00
9.418	9.418 (1.122)	56	1325359			0.00- 30.00	34.89
9.418	9.418 (1.122)	41	1128592			0.00- 30.00	29.71
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	1680797	25.0000	20.394	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	402439			0.00- 30.00	23.94
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	836643	25.0000	21.750	70.00- 130.00	100.00
9.612	9.612 (0.938)	64	261907			0.00- 30.00	31.30
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	192971	25.0000	19.060	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	1616070			0.00- 30.00	837.47
9.805	9.805 (0.957)	71	627603			0.00- 30.00	325.23
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	598872	25.0000	22.749	70.00- 130.00	100.00
10.662	10.662 (1.040)	130	522988			57.13- 117.13	87.33
10.662	10.662 (1.040)	97	363933			32.50- 92.50	60.77
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.884	10.884 (1.296)	83	969035	25.0000	20.710	70.00- 130.00	100.00
10.911	10.911 (1.300)	98	462139			0.00- 30.00	47.69
10.884	10.884 (1.296)	55	1129900			0.00- 30.00	116.60
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	637102	25.0000	21.115	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	495731			45.03- 105.03	77.81
11.188	11.188 (1.092)	41	503325			45.52- 105.52	79.00
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	356412	25.0000	22.920	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	364281			70.27- 130.27	102.21
11.409	11.409 (1.113)	57	104086			0.00- 30.00	29.20

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	985831	25.0000	22.293	70.00- 130.00	100.00
11.741	11.741 (1.146)	85	589435			32.38- 92.38	59.79
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.626	12.626 (1.232)	75	822568	25.0000	22.099	70.00- 130.00	100.00
12.626	12.626 (1.232)	77	258696			1.52- 61.52	31.45
12.626	12.626 (1.232)	39	632684			48.26- 108.26	76.92
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	642296	25.0000	20.982	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	1883753			0.00- 30.00	293.28
12.902	12.902 (1.259)	85	212522			0.00- 30.00	33.09
103 Toluene					CAS #: 108-88-3		
13.096	13.096 (1.278)	91	1674918	25.0000	23.048	70.00- 130.00	100.00
13.096	13.096 (1.278)	92	988440			29.45- 89.45	59.01
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	894690	25.0000	22.036	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	266256			1.42- 61.42	29.76
13.621	13.621 (0.895)	39	639695			43.57- 103.57	71.50
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	521949	25.0000	21.887	70.00- 130.00	100.00
13.897	13.897 (0.913)	99	318557			31.40- 91.40	61.03
13.870	13.870 (0.911)	83	451486			60.06- 120.06	86.50
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	553653	25.0000	22.294	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	429899			46.36- 106.36	77.65
13.925	13.925 (0.915)	131	425518			45.00- 105.00	76.86
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	872471	25.0000	24.167	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	1780965			176.52- 236.52	204.13
14.257	14.257 (0.936)	100	123096			0.00- 30.00	14.11
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	693588	25.0000	21.695	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	548637			0.00- 30.00	79.10
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.589 (0.958)	107	740660	25.0000	22.538	70.00- 130.00	100.00
14.589	14.589 (0.958)	109	692469			62.88- 122.88	93.49

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	1207014	25.0000	21.910	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	382995			0.73- 60.73	31.73
15.252	15.252 (1.002)	77	865791			40.58- 100.58	71.73
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	680428	25.0000	22.180	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	2265782			0.00- 30.00	332.99
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	873579	25.0000	22.086	70.00- 130.00	100.00
15.529	15.529 (1.020)	91	1802209			0.00- 30.00	206.30
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	838616	25.0000	21.854	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	1922174			195.99- 255.99	229.21
131 Styrene					CAS #: 100-42-5		
16.082	16.082 (1.056)	104	1204987	25.0000	20.890	70.00- 130.00	100.00
16.082	16.082 (1.056)	78	711465			28.78- 88.78	59.04
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	593128	25.0000	22.859	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	316737			21.17- 81.17	53.40
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	2405704	25.0000	20.537	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	559413			0.00- 30.00	23.25
16.496	16.496 (1.084)	51	372808			0.00- 30.00	15.50
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	1184990	25.0000	21.803	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	748184			34.35- 94.35	63.14
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	2960905	25.0000	22.400	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	542929			0.00- 30.00	18.34
16.994	16.994 (1.116)	105	98090			0.00- 30.00	3.31
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	2586366	25.0000	22.423	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	631838			0.00- 54.57	24.43
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	2299995	25.0000	21.018	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	981553			0.00- 30.00	42.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	2089195	25.0000	21.244	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	847393			11.41- 71.41	40.56
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.907	17.907 (1.176)	146	937051	25.0000	22.541	70.00- 130.00	100.00
17.907	17.907 (1.176)	148	591360			0.00- 30.00	63.11
17.907	17.907 (1.176)	111	405175			0.00- 30.00	43.24
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.990	17.990 (1.182)	146	1143190	25.0000	21.522	70.00- 130.00	100.00
17.990	17.990 (1.182)	148	726109			0.00- 30.00	63.52
17.990	17.990 (1.182)	111	570439			0.00- 30.00	49.90
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	1677056	25.0000	22.573	70.00- 130.00	100.00
18.128	18.128 (1.191)	126	286781			0.00- 30.00	17.10
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	990283	25.0000	21.171	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	626661			33.83- 93.83	63.28
18.321	18.321 (1.203)	111	534286			21.29- 81.29	53.95
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	523210	25.0000	19.929	70.00- 130.00	100.00
19.593	19.593 (1.287)	182	494582			62.06- 122.06	94.53
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	797028	25.0000	20.568	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	512717			35.92- 95.92	64.33
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	1799958	25.0000	19.884	70.00- 130.00	100.00
19.787	19.787 (1.300)	127	250333			0.00- 30.00	13.91

Report Date: 23-Mar-2007 08:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032206.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->25ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	284047	0.11
86 1,4-Difluorobenze	1370859	822515	1919203	1370589	-0.02
123 Chlorobenzene-d5	1067063	640238	1493888	1101300	3.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	0.00

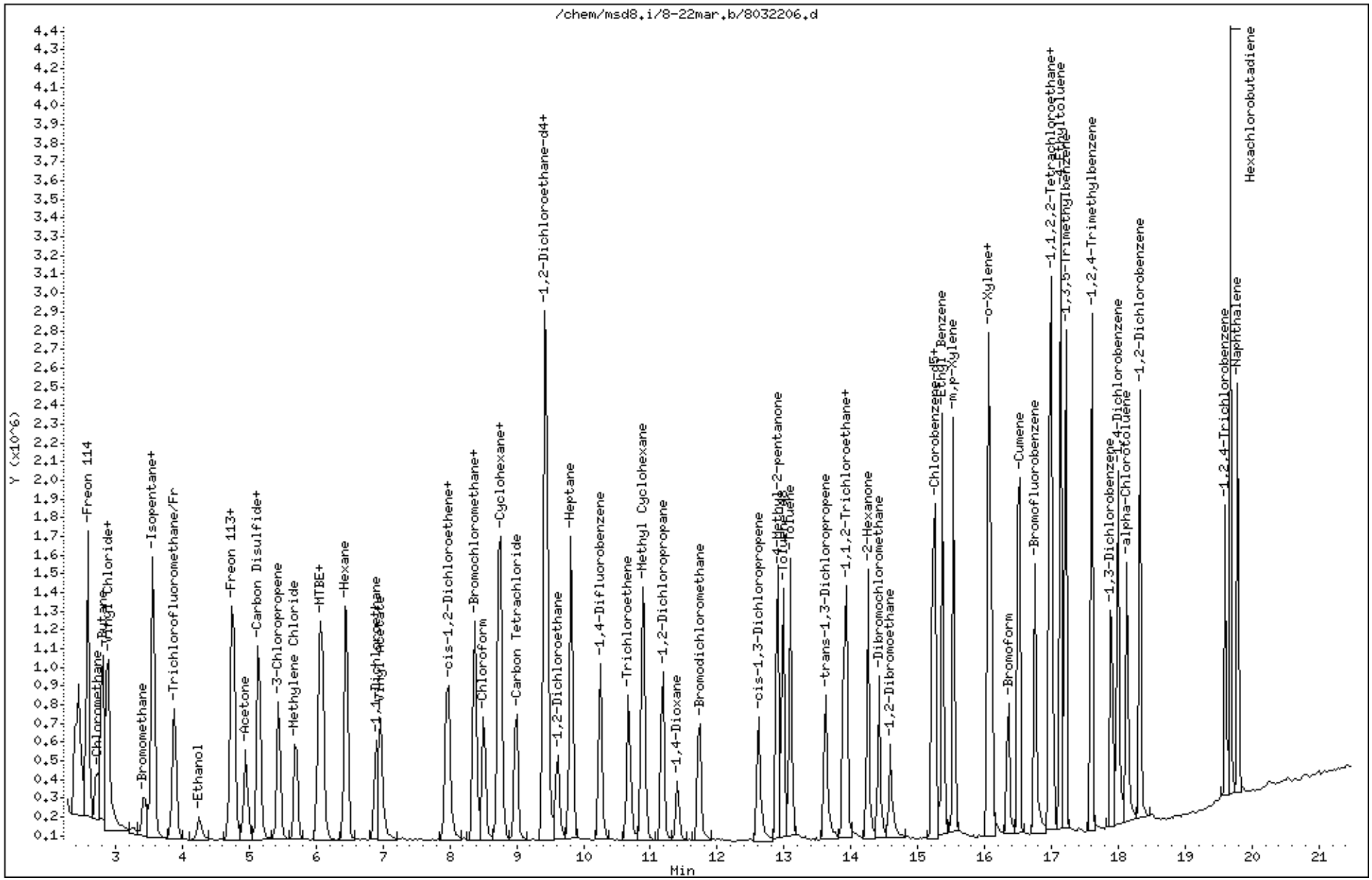
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0110

Data File: /chem/msd8.i/8-22mar.b/8032206.d
Date : 22-MAR-2007 12:06
Client ID: Level 4
Sample Info: 25ml 1487-115

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26mar.b/8032607.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 5
Inj Date : 26-MAR-2007 12:43
Operator : ea Inst ID: msd8.i
Smp Info : 50ml #1487-42
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msd8.i/8-26mar.b/t14q322b.m
Meth Date : 26-Mar-2007 13:58 ealcan Quant Type: ISTD
Cal Date : 26-MAR-2007 12:43 Cal File: 8032607.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp5b.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
==	====== ========	====	========	=======	=======	==========	=====
* 67 Bromochloromethane						CAS #: 74-97-5	
8.395	8.395 (1.000)	130	291821	25.0000		70.00- 130.00	100.00
8.395	8.395 (1.000)	128	224346			46.88- 106.88	76.88
8.367	8.367 (1.000)	49	831446			254.92- 314.92	284.92
* 86 1,4-Difluorobenzene						CAS #: 540-36-3	
10.248	10.248 (1.000)	114	1354208	25.0000		70.00- 130.00	100.00
10.248	10.248 (1.000)	88	254759			0.00- 48.81	18.81
* 123 Chlorobenzene-d5						CAS #: 3114-55-4	
15.224	15.224 (1.000)	117	1071895	25.0000		70.00- 130.00	100.00
15.224	15.224 (1.000)	82	702024			35.49- 95.49	65.49
194 2-Methylpentane						CAS #: 107-83-5	
5.547	5.547 (0.661)	71	933874	50.0000	39.567	70.00- 130.00	100.00
5.547	5.547 (0.661)	43	3483599			343.03- 403.03	373.03
5.547	5.547 (0.661)	42	1817422			164.61- 224.61	194.61
195 Thiopene						CAS #: 110-02-1	
9.833	9.833 (0.960)	84	1776200	50.0000	39.978	70.00- 130.00	100.00(T)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
195 Thiopene (continued)							
9.833	9.833 (0.960)	58	1416688			49.76- 109.76	79.76
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
196 Indan					CAS #: 496-11-7		
18.183	18.183 (1.194)	117	3658164	50.0000	39.033	70.00- 130.00	100.00
18.183	18.183 (1.194)	118	2078338			26.81- 86.81	56.81
18.183	18.183 (1.194)	91	672898			0.00- 48.39	18.39
197 Indene					CAS #: 95-13-6		
18.404	18.404 (1.209)	115	2351599	50.0000	38.579	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	16	0			0.00- 30.00	0.00
83 2,3-Dimethylpentane					CAS #: 565-59-3		
8.810	8.810 (1.049)	71	786693	50.0000	41.099	70.00- 130.00	100.00
8.782	8.782 (1.046)	56	2712744			314.83- 374.83	344.83
8.782	8.782 (1.046)	43	2371887			271.50- 331.50	301.50

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msd8.i/8-26mar.b/t14q322b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 26-MAR-2007
Calibration Time: 12:43
Client Smp ID: LEVEL 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	291821	175093	408549	291821	0.00
86 1,4-Difluorobenze	1354208	812525	1895891	1354208	0.00
123 Chlorobenzene-d5	1071895	643137	1500653	1071895	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.40	8.07	8.73	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	0.00

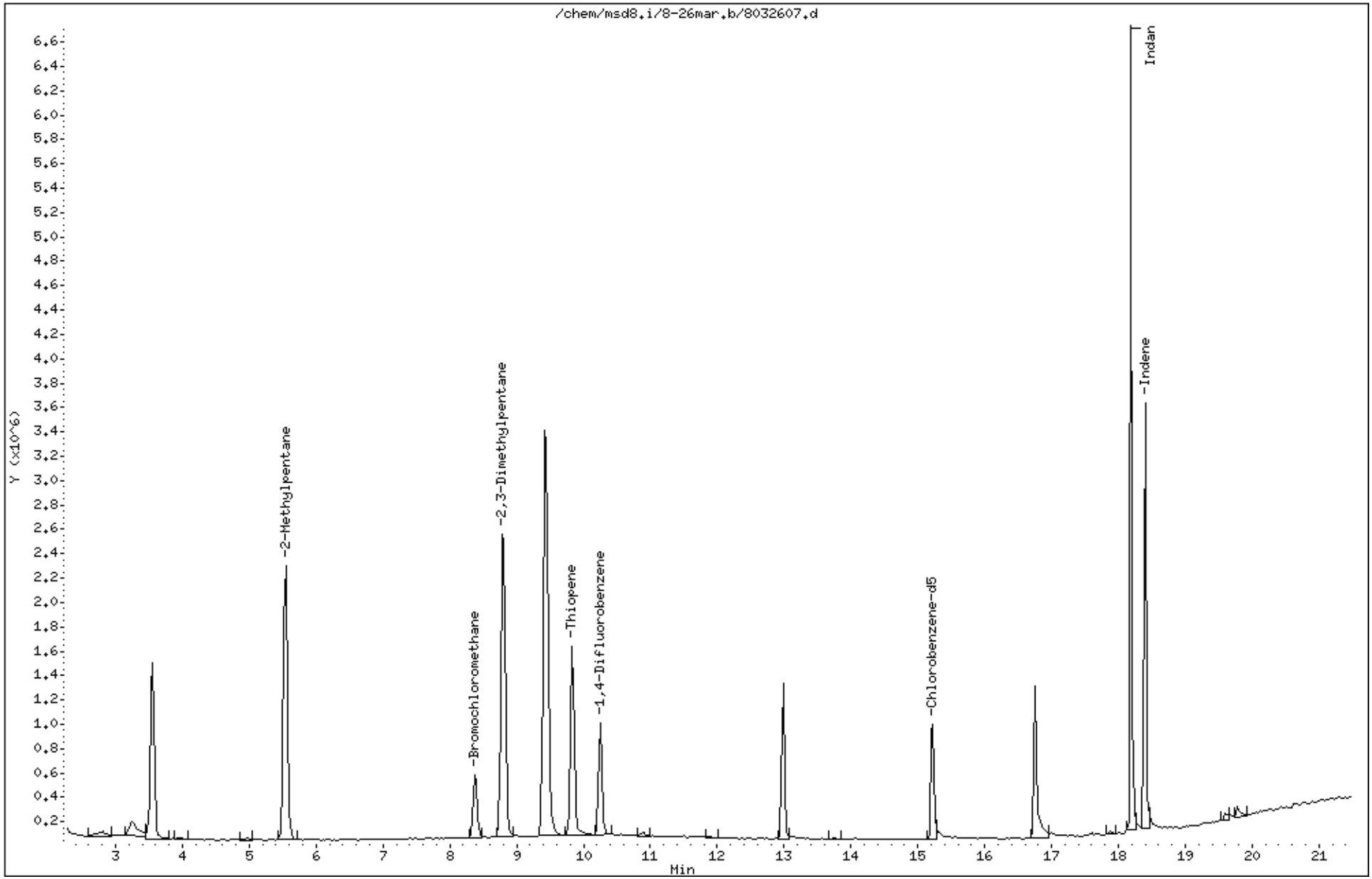
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0114

Data File: /chem/msd8.i/8-26mar.b/8032607.d
Date : 26-MAR-2007 12:43
Client ID: LEVEL 5
Sample Info: 50ml #1487-42

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032207.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 22-MAR-2007 12:34
Operator : sjr Inst ID: msd8.i
Smp Info : 50ml 1487-115
Misc Info : 200ppbv->50ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 12:34 Cal File: 8032207.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	283735	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	216638			46.35- 106.35		76.35
8.367	8.367 (1.000)	49	810859			255.78- 315.78		285.78
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.247	10.247 (1.000)	114	1370859	25.0000		70.00- 130.00		100.00
10.247	10.247 (1.000)	88	258843			0.00- 48.88		18.88
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1067063	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	711546			36.68- 96.68		66.68
$ 80 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	583045	25.0000	24.281	70.00- 130.00		100.00
9.473	9.473 (1.128)	67	337682			27.92- 87.92		57.92
$ 102 Toluene-d8						CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1341361	25.0000	25.054	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	169183			0.00- 42.61		12.61

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	942630			40.27- 100.27	70.27
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.745	16.745 (1.100)	174	581586	25.0000	26.878	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	975068			137.66- 197.66	167.66
16.773	16.773 (1.102)	176	544422			63.61- 123.61	93.61
3 Propylene					CAS #: 115-07-1		
2.395	2.395 (0.285)	41	1336408	50.0000	41.722	70.00- 130.00	100.00
2.395	2.395 (0.285)	42	871400			35.20- 95.20	65.20
2.395	2.395 (0.285)	39	972963			42.80- 102.80	72.80
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.292)	85	2643697	50.0000	38.305	70.00- 130.00	100.00
2.450	2.450 (0.292)	87	843092			1.89- 61.89	31.89
6 Freon 114					CAS #: 76-14-2		
2.588	2.588 (0.308)	135	1585935	50.0000	41.143	70.00- 130.00	100.00
2.588	2.588 (0.308)	137	505651			1.88- 61.88	31.88
8 Chloromethane					CAS #: 74-87-3		
2.727	2.727 (0.325)	50	1446083	50.0000	40.129	70.00- 130.00	100.00
2.727	2.727 (0.325)	52	426042			0.00- 59.46	29.46
9 Butane					CAS #: 106-97-8		
2.810	2.810 (0.335)	58	365258	50.0000	38.906	70.00- 130.00	100.00
2.810	2.810 (0.335)	43	2932236			772.78- 832.78	802.78
10 Vinyl Chloride					CAS #: 75-01-4		
2.920	2.920 (0.348)	62	1367972	50.0000	42.192	70.00- 130.00	100.00
2.893	2.893 (0.345)	64	414838			0.33- 60.33	30.33
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.893 (0.345)	54	1369603	50.0000	40.170	70.00- 130.00	100.00
2.893	2.893 (0.345)	39	1597009			86.60- 146.60	116.60
13 Bromomethane					CAS #: 74-83-9		
3.446	3.446 (0.410)	94	693802	50.0000	39.070	70.00- 130.00	100.00
3.446	3.446 (0.410)	96	657527			64.77- 124.77	94.77
15 Isopentane					CAS #: 78-78-4		
3.556	3.556 (0.424)	43	2345298	50.0000	41.338	70.00- 130.00	100.00
3.556	3.556 (0.424)	57	1348763			27.51- 87.51	57.51
3.556	3.556 (0.424)	72	139482			0.00- 35.95	5.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.584	3.584 (0.427)	64	680681	50.0000	40.195	70.00- 130.00	100.00
3.556	3.556 (0.424)	49	220676			2.42- 62.42	32.42
3.556	3.556 (0.424)	66	196848			0.00- 58.92	28.92
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.888	3.888 (0.463)	101	2561964	50.0000	43.032	70.00- 130.00	100.00
3.888	3.888 (0.463)	103	1657808			34.71- 94.71	64.71
21 Ethanol					CAS #: 64-17-5		
4.247	4.247 (0.506)	45	605204	50.0000	43.818	70.00- 130.00	100.00
4.247	4.247 (0.506)	43	123622			0.00- 50.43	20.43
4.247	4.247 (0.506)	46	255462			12.21- 72.21	42.21
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	1154034	50.0000	39.775	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	723187			32.67- 92.67	62.67
4.745	4.745 (0.565)	101	1786742			124.83- 184.83	154.83
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.773 (0.569)	61	1945054	50.0000	39.459	70.00- 130.00	100.00
4.773	4.773 (0.569)	96	877311			15.10- 75.10	45.10
4.773	4.773 (0.569)	98	547880			0.00- 58.17	28.17
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.588)	58	707567	50.0000	39.866	70.00- 130.00	100.00
4.939	4.939 (0.588)	43	2599224			337.35- 397.35	367.35
33 Carbon Disulfide					CAS #: 75-15-0		
5.132	5.132 (0.611)	76	3063615	50.0000	40.532	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.160	5.160 (0.615)	45	3004294	50.0000	45.138	70.00- 130.00	100.00
5.132	5.132 (0.611)	43	620101			0.00- 50.64	20.64
5.160	5.160 (0.615)	59	96296			0.00- 33.21	3.21
37 3-Chloropropene					CAS #: 107-05-1		
5.436	5.436 (0.648)	76	523387	50.0000	43.233	70.00- 130.00	100.00
5.436	5.436 (0.648)	41	2326588			414.53- 474.53	444.53
39 Methylene Chloride					CAS #: 75-09-2		
5.685	5.685 (0.677)	49	1646381	50.0000	39.149	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	797447			18.44- 78.44	48.44
5.685	5.685 (0.677)	51	492691			0.00- 59.93	29.93
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	3368161	50.0000	40.042	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.045 (0.720)	57	987717			0.00- 59.33	29.33
6.045	6.045 (0.720)	41	1076052			1.95- 61.95	31.95
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	967537	50.0000	37.943	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	1934805			169.97- 229.97	199.97
6.100	6.100 (0.727)	98	626055			34.71- 94.71	64.71
45 Hexane					CAS #: 110-54-3		
6.432	6.432 (0.766)	57	2494698	50.0000	40.270	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	1861340			44.61- 104.61	74.61
6.459	6.459 (0.769)	86	343624			0.00- 43.77	13.77
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	2201347	50.0000	42.739	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	651146			0.00- 59.58	29.58
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.829)	86	296991	50.0000	51.257	70.00- 130.00	100.00
6.957	6.957 (0.829)	43	4453738			1469.62-1529.62	1499.62
6.957	6.957 (0.829)	42	386333			100.08- 160.08	130.08
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.952	7.952 (0.947)	61	1618525	50.0000	41.336	70.00- 130.00	100.00
7.952	7.952 (0.947)	96	928352			27.36- 87.36	57.36
7.952	7.952 (0.947)	98	579920			5.83- 65.83	35.83
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.951)	72	555279	50.0000	38.546	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	3355513			574.29- 634.29	604.29
7.980	7.980 (0.951)	57	225503			10.61- 70.61	40.61
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	2017304	50.0000	37.255	70.00- 130.00	100.00
8.367	8.367 (0.997)	71	502892			0.00- 54.93	24.93
8.367	8.367 (0.997)	72	534966			0.00- 56.52	26.52
69 Chloroform					CAS #: 67-66-3		
8.505	8.505 (1.013)	83	1830986	50.0000	36.077	70.00- 130.00	100.00
8.505	8.505 (1.013)	85	1166454			33.71- 93.71	63.71
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	1458593	50.0000	38.689	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	2460409			138.68- 198.68	168.68
8.727	8.727 (1.040)	41	1514191			73.81- 133.81	103.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.754	8.754 (1.043)	97	1820730	50.0000	40.416	70.00- 130.00	100.00
8.754	8.754 (1.043)	99	1164340			33.95- 93.95	63.95
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	1530499	50.0000	42.601	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	1709055			81.67- 141.67	111.67
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.418	9.418 (1.122)	57	7210928	50.0000	42.003	70.00- 130.00	100.00
9.446	9.446 (1.125)	56	2483917			4.45- 64.45	34.45
9.418	9.418 (1.122)	41	2123088			0.00- 59.44	29.44
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	3194794	50.0000	38.756	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	779333			0.00- 54.39	24.39
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.611	9.611 (0.938)	62	1566874	50.0000	40.725	70.00- 130.00	100.00
9.611	9.611 (0.938)	64	492564			1.44- 61.44	31.44
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	374296	50.0000	36.962	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	3067958			789.66- 849.66	819.66
9.805	9.805 (0.957)	71	1213714			294.27- 354.27	324.27
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	1109731	50.0000	42.147	70.00- 130.00	100.00
10.662	10.662 (1.040)	130	966953			57.13- 117.13	87.13
10.662	10.662 (1.040)	97	693589			32.50- 92.50	62.50
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.883	10.883 (1.296)	83	1874222	50.0000	40.099	70.00- 130.00	100.00
10.911	10.911 (1.300)	98	843453			15.00- 75.00	45.00
10.883	10.883 (1.296)	55	2196126			87.18- 147.18	117.18
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.187	11.187 (1.092)	63	1234251	50.0000	40.899	70.00- 130.00	100.00
11.187	11.187 (1.092)	62	926110			45.03- 105.03	75.03
11.187	11.187 (1.092)	41	932094			45.52- 105.52	75.52
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	682915	50.0000	43.909	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	684769			70.27- 130.27	100.27
11.409	11.409 (1.113)	57	208541			0.54- 60.54	30.54

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.740	11.740 (1.146)	83	1848691	50.0000	41.797	70.00- 130.00	100.00
11.740	11.740 (1.146)	85	1153190			32.38- 92.38	62.38
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.232)	75	1587750	50.0000	42.648	70.00- 130.00	100.00
12.625	12.625 (1.232)	77	500399			1.52- 61.52	31.52
12.625	12.625 (1.232)	39	1242642			48.26- 108.26	78.26
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	1264881	50.0000	41.312	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	3556128			251.14- 311.14	281.14
12.902	12.902 (1.259)	85	408924			2.33- 62.33	32.33
103 Toluene					CAS #: 108-88-3		
13.095	13.095 (1.278)	91	3201294	50.0000	44.044	70.00- 130.00	100.00
13.095	13.095 (1.278)	92	1903249			29.45- 89.45	59.45
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	1684729	50.0000	42.825	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	529324			1.42- 61.42	31.42
13.621	13.621 (0.895)	39	1239393			43.57- 103.57	73.57
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	977558	50.0000	42.307	70.00- 130.00	100.00
13.897	13.897 (0.913)	99	600253			31.40- 91.40	61.40
13.869	13.869 (0.911)	83	880417			60.06- 120.06	90.06
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	1071236	50.0000	44.520	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	817997			46.36- 106.36	76.36
13.925	13.925 (0.915)	131	803418			45.00- 105.00	75.00
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	1676318	50.0000	47.923	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	3461935			176.52- 236.52	206.52
14.257	14.257 (0.936)	100	262861			0.00- 45.68	15.68
114 Dibromochloromethane					CAS #: 124-48-1		
14.422	14.422 (0.947)	129	1342940	50.0000	43.354	70.00- 130.00	100.00
14.422	14.422 (0.947)	127	1033514			46.96- 106.96	76.96
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.588	14.588 (0.958)	107	1401072	50.0000	44.002	70.00- 130.00	100.00
14.588	14.588 (0.958)	109	1301357			62.88- 122.88	92.88

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	2347440	50.0000	43.979	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	721344			0.73- 60.73	30.73
15.252	15.252 (1.002)	77	1656838			40.58- 100.58	70.58
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	1291684	50.0000	43.455	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	4390490			309.90- 369.90	339.90
128 m,p-Xylene					CAS #: 108-38-3		
15.528	15.528 (1.020)	106	1673125	50.0000	43.658	70.00- 130.00	100.00
15.528	15.528 (1.020)	91	3469703			177.38- 237.38	207.38
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	1592825	50.0000	42.841	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	3599628			195.99- 255.99	225.99
131 Styrene					CAS #: 100-42-5		
16.081	16.081 (1.056)	104	2378760	50.0000	42.561	70.00- 130.00	100.00
16.081	16.081 (1.056)	78	1398236			28.78- 88.78	58.78
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	1181942	50.0000	47.014	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	604836			21.17- 81.17	51.17
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	4566296	50.0000	40.232	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	1056482			0.00- 53.14	23.14
16.496	16.496 (1.084)	51	702949			0.00- 45.39	15.39
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	2276949	50.0000	43.238	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	1465188			34.35- 94.35	64.35
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	5640137	50.0000	44.037	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	1059941			0.00- 48.79	18.79
16.994	16.994 (1.116)	105	188920			0.00- 33.35	3.35
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	5072880	50.0000	45.392	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	1246244			0.00- 54.57	24.57
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	4377709	50.0000	41.288	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	1866622			12.64- 72.64	42.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	3993702	50.0000	41.912	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	1653770			11.41- 71.41	41.41
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.906	17.906 (1.176)	146	1880169	50.0000	46.679	70.00- 130.00	100.00
17.906	17.906 (1.176)	148	1169490			32.20- 92.20	62.20
17.879	17.879 (1.174)	111	813794			13.28- 73.28	43.28
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	2312899	50.0000	44.940	70.00- 130.00	100.00
17.989	17.989 (1.182)	148	1483842			34.16- 94.16	64.16
17.989	17.989 (1.182)	111	1073528			16.41- 76.41	46.41
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.127	18.127 (1.191)	91	3524875	50.0000	48.968	70.00- 130.00	100.00
18.127	18.127 (1.191)	126	598031			0.00- 46.97	16.97
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	1968486	50.0000	43.435	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	1256428			33.83- 93.83	63.83
18.321	18.321 (1.203)	111	1009554			21.29- 81.29	51.29
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	1246406	50.0000	49.000	70.00- 130.00	100.00
19.593	19.593 (1.287)	182	1147386			62.06- 122.06	92.06
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	1473379	50.0000	39.242	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	971308			35.92- 95.92	65.92
165 Naphthalene					CAS #: 91-20-3		
19.786	19.786 (1.300)	128	3925545	50.0000	44.755	70.00- 130.00	100.00
19.786	19.786 (1.300)	127	538768			0.00- 43.72	13.72

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

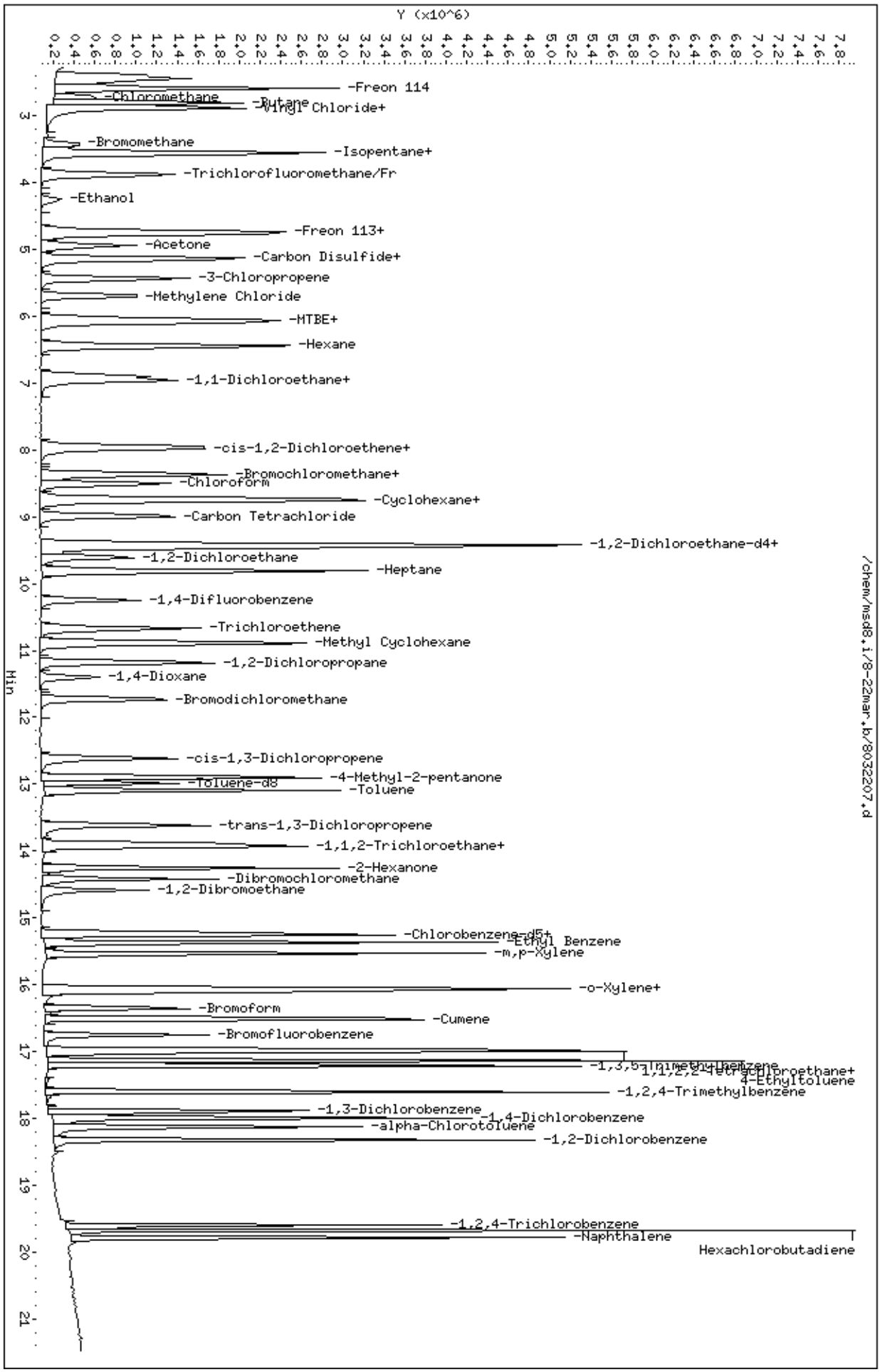
Instrument ID: msd8.i
Lab File ID: 8032207.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->50ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	283735	0.00
86 1,4-Difluorobenze	1370859	822515	1919203	1370859	0.00
123 Chlorobenzene-d5	1067063	640238	1493888	1067063	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.39	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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/8-22mar.b/8032207.d
Date : 22-MAR-2007 12:34
Client ID: Level 5
Sample Info: 50ml 1487-115
Column phase: RTx-624

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032208.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 22-MAR-2007 13:02
Operator : sjr Inst ID: msd8.i
Smp Info : 100ml 1487-115
Misc Info : 200ppbv->100ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 13:02 Cal File: 8032208.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	274410	25.0000		70.00- 130.00		100.00
8.367	8.367 (1.000)	128	219163			46.35- 106.35		79.87
8.367	8.367 (1.000)	49	829492			255.78- 315.78		302.28
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1375928	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	254568			0.00- 48.88		18.50
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1061257	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	723053			36.68- 96.68		68.13
$ 80 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	598928	25.0000	25.655	70.00- 130.00		100.00
9.473	9.473 (1.128)	67	388652			27.92- 87.92		64.89
$ 102 Toluene-d8						CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1363568	25.0000	25.312	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	193391			0.00- 42.61		14.18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	1047544			40.27- 100.27	76.82
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.745	16.745 (1.100)	174	558459	25.0000	25.787	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	992994			137.66- 197.66	177.81
16.745	16.745 (1.100)	176	541545			63.61- 123.61	96.97
3 Propylene					CAS #: 115-07-1		
2.395	2.395 (0.285)	41	2618213	100.000	87.920	70.00- 130.00	100.00
2.395	2.395 (0.285)	42	1727704			35.20- 95.20	65.99
2.395	2.395 (0.285)	39	1908330			42.80- 102.80	72.89
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.292)	85	5165186	100.000	81.048	70.00- 130.00	100.00
2.450	2.450 (0.292)	87	1658624			1.89- 61.89	32.11
6 Freon 114					CAS #: 76-14-2		
2.616	2.616 (0.312)	135	3080858	100.000	85.614	70.00- 130.00	100.00
2.616	2.616 (0.312)	137	966687			1.88- 61.88	31.38
8 Chloromethane					CAS #: 74-87-3		
2.727	2.727 (0.325)	50	2730912	100.000	82.840	70.00- 130.00	100.00
2.727	2.727 (0.325)	52	817475			0.00- 59.46	29.93
9 Butane					CAS #: 106-97-8		
2.810	2.810 (0.335)	58	698080	100.000	81.599	70.00- 130.00	100.00
2.810	2.810 (0.335)	43	5628034			772.78- 832.78	806.22
10 Vinyl Chloride					CAS #: 75-01-4		
2.920	2.920 (0.348)	62	2663225	100.000	87.571	70.00- 130.00	100.00
2.920	2.920 (0.348)	64	808264			0.33- 60.33	30.35
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.893 (0.345)	54	2662607	100.000	83.980	70.00- 130.00	100.00
2.893	2.893 (0.345)	39	3839969			86.60- 146.60	144.22
13 Bromomethane					CAS #: 74-83-9		
3.446	3.446 (0.410)	94	1439798	100.000	86.635	70.00- 130.00	100.00
3.446	3.446 (0.410)	96	1295850			64.77- 124.77	90.00
15 Isopentane					CAS #: 78-78-4		
3.556	3.556 (0.424)	43	4528672	100.000	86.303	70.00- 130.00	100.00
3.556	3.556 (0.424)	57	2630973			27.51- 87.51	58.10
3.556	3.556 (0.424)	72	266218			0.00- 35.95	5.88

				AMOUNTS CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.584	3.584 (0.427)	64	1367985	100.000	86.372	70.00- 130.00	100.00
3.584	3.584 (0.427)	49	426326			2.42- 62.42	31.16
3.584	3.584 (0.427)	66	409887			0.00- 58.92	29.96
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.888	3.888 (0.463)	101	5036405	100.000	89.717	70.00- 130.00	100.00
3.888	3.888 (0.463)	103	3222575			34.71- 94.71	63.99
21 Ethanol					CAS #: 64-17-5		
4.275	4.275 (0.509)	45	1124988	100.000	87.679	70.00- 130.00	100.00
4.275	4.275 (0.509)	43	236899			0.00- 50.43	21.06
4.275	4.275 (0.509)	46	475472			12.21- 72.21	42.26
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	2249177	100.000	83.467	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	1390357			32.67- 92.67	61.82
4.745	4.745 (0.565)	101	3469458			124.83- 184.83	154.25
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.773 (0.569)	61	3818502	100.000	83.418	70.00- 130.00	100.00
4.773	4.773 (0.569)	96	1663923			15.10- 75.10	43.58
4.773	4.773 (0.569)	98	1077180			0.00- 58.17	28.21
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.588)	58	1396656	100.000	85.340	70.00- 130.00	100.00
4.939	4.939 (0.588)	43	5093705			337.35- 397.35	364.71
33 Carbon Disulfide					CAS #: 75-15-0		
5.132	5.132 (0.611)	76	5918817	100.000	84.172	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.160	5.160 (0.615)	45	5917346	100.000	93.820	70.00- 130.00	100.00
5.160	5.160 (0.615)	43	1171046			0.00- 50.64	19.79
5.160	5.160 (0.615)	59	195660			0.00- 33.21	3.31
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.437 (0.648)	76	1017552	100.000	89.849	70.00- 130.00	100.00
5.437	5.437 (0.648)	41	4591103			414.53- 474.53	451.19
39 Methylene Chloride					CAS #: 75-09-2		
5.713	5.713 (0.681)	49	3236926	100.000	82.973	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	1550495			18.44- 78.44	47.90
5.713	5.713 (0.681)	51	949361			0.00- 59.93	29.33
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	6577424	100.000	84.072	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.045 (0.720)	57	1977342			0.00- 59.33	30.06
6.045	6.045 (0.720)	41	2097752			1.95- 61.95	31.89
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	1890823	100.000	80.423	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	3716781			169.97- 229.97	196.57
6.100	6.100 (0.727)	98	1203185			34.71- 94.71	63.63
45 Hexane					CAS #: 110-54-3		
6.460	6.460 (0.769)	57	4810920	100.000	83.593	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	3611629			44.61- 104.61	75.07
6.460	6.460 (0.769)	86	673414			0.00- 43.77	14.00
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	4203914	100.000	87.111	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	1256075			0.00- 59.58	29.88
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.829)	86	561325	100.000	100.13	70.00- 130.00	100.00
6.957	6.957 (0.829)	43	8762705			1469.62-1529.62	1561.08
6.957	6.957 (0.829)	42	753113			100.08- 160.08	134.17
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	3211133	100.000	87.457	70.00- 130.00	100.00
7.953	7.953 (0.947)	96	1802223			27.36- 87.36	56.12
7.953	7.953 (0.947)	98	1120011			5.83- 65.83	34.88
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.951)	72	1085412	100.000	81.509	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	6532458			574.29- 634.29	601.84
7.980	7.980 (0.951)	57	434813			10.61- 70.61	40.06
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	3913572	100.000	78.708	70.00- 130.00	100.00
8.367	8.367 (0.997)	71	979340			0.00- 54.93	25.02
8.367	8.367 (0.997)	72	1068465			0.00- 56.52	27.30
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.013)	83	3587527	100.000	76.522	70.00- 130.00	100.00
8.506	8.506 (1.013)	85	2300838			33.71- 93.71	64.13
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	2843440	100.000	81.577	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	4887392			138.68- 198.68	171.88
8.727	8.727 (1.040)	41	2925031			73.81- 133.81	102.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.754	8.754 (1.043)	97	3564210	100.000	84.896	70.00- 130.00	100.00
8.754	8.754 (1.043)	99	2252502			33.95- 93.95	63.20
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	2964590	100.000	87.903	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	3302720			81.67- 141.67	111.41
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.446	9.446 (1.125)	57	14024361	100.000	87.175	70.00- 130.00	100.00
9.446	9.446 (1.125)	56	4907939			4.45- 64.45	35.00
9.446	9.446 (1.125)	41	4092884			0.00- 59.44	29.18
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	6216949	100.000	78.388	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	1485753			0.00- 54.39	23.90
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	3077011	100.000	83.056	70.00- 130.00	100.00
9.612	9.612 (0.938)	64	957111			1.44- 61.44	31.11
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	727731	100.000	75.911	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	6016039			789.66- 849.66	826.68
9.805	9.805 (0.957)	71	2332656			294.27- 354.27	320.54
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	2140717	100.000	84.202	70.00- 130.00	100.00
10.662	10.662 (1.040)	130	1842017			57.13- 117.13	86.05
10.662	10.662 (1.040)	97	1345032			32.50- 92.50	62.83
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.911	10.911 (1.300)	83	3627158	100.000	83.541	70.00- 130.00	100.00
10.911	10.911 (1.300)	98	1658014			15.00- 75.00	45.71
10.883	10.883 (1.296)	55	4177340			87.18- 147.18	115.17
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	2399132	100.000	82.643	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	1815553			45.03- 105.03	75.68
11.188	11.188 (1.092)	41	1814245			45.52- 105.52	75.62
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	1330284	100.000	88.488	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	1317282			70.27- 130.27	99.02
11.409	11.409 (1.113)	57	412040			0.54- 60.54	30.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	3623259	100.000	84.732	70.00- 130.00	100.00
11.741	11.741 (1.146)	85	2296301			32.38- 92.38	63.38
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.232)	75	3193433	100.000	88.022	70.00- 130.00	100.00
12.625	12.625 (1.232)	77	980903			1.52- 61.52	30.72
12.598	12.598 (1.229)	39	2427968			48.26- 108.26	76.03
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	2452733	100.000	83.171	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	7163978			251.14- 311.14	292.08
12.902	12.902 (1.259)	85	787723			2.33- 62.33	32.12
103 Toluene					CAS #: 108-88-3		
13.095	13.095 (1.278)	91	6267602	100.000	88.404	70.00- 130.00	100.00
13.095	13.095 (1.278)	92	3773465			29.45- 89.45	60.21
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	3305187	100.000	87.183	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	1023953			1.42- 61.42	30.98
13.621	13.621 (0.895)	39	2407291			43.57- 103.57	72.83
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	1913808	100.000	86.161	70.00- 130.00	100.00
13.897	13.897 (0.913)	99	1142609			31.40- 91.40	59.70
13.870	13.870 (0.911)	83	1742327			60.06- 120.06	91.04
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	2121016	100.000	90.693	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	1630806			46.36- 106.36	76.89
13.925	13.925 (0.915)	131	1573448			45.00- 105.00	74.18
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	3377651	100.000	97.801	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	6644301			176.52- 236.52	196.71
14.257	14.257 (0.936)	100	491901			0.00- 45.68	14.56
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	2640038	100.000	88.219	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	2071838			46.96- 106.96	78.48
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.589 (0.958)	107	2779224	100.000	89.964	70.00- 130.00	100.00
14.589	14.589 (0.958)	109	2584978			62.88- 122.88	93.01

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	4418200	100.000	86.116	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	1396554			0.73- 60.73	31.61
15.252	15.252 (1.002)	77	3350897			40.58- 100.58	75.84
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	2505821	100.000	87.427	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	8779160			309.90- 369.90	350.35
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	3236516	100.000	87.557	70.00- 130.00	100.00
15.529	15.529 (1.020)	91	6982531			177.38- 237.38	215.74
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	3064463	100.000	85.813	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	7129975			195.99- 255.99	232.67
131 Styrene					CAS #: 100-42-5		
16.082	16.082 (1.056)	104	4834510	100.000	88.904	70.00- 130.00	100.00
16.082	16.082 (1.056)	78	2868142			28.78- 88.78	59.33
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	2259499	100.000	92.143	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	1149935			21.17- 81.17	50.89
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	8919536	100.000	81.880	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	2075981			0.00- 53.14	23.27
16.496	16.496 (1.084)	51	1377696			0.00- 45.39	15.45
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	4515433	100.000	88.659	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	2869533			34.35- 94.35	63.55
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	11424449	100.000	91.577	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	1995294			0.00- 48.79	17.47
16.994	16.994 (1.116)	105	392922			0.00- 33.35	3.44
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	10175388	100.000	93.121	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	2508882			0.00- 54.57	24.66
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	8697612	100.000	85.474	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	3667776			12.64- 72.64	42.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	7984521	100.000	86.992	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	3290133			11.41- 71.41	41.21
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.906	17.906 (1.176)	146	3592491	100.000	91.569	70.00- 130.00	100.00
17.906	17.906 (1.176)	148	2270275			32.20- 92.20	63.20
17.879	17.879 (1.174)	111	1698157			13.28- 73.28	47.27
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	4959897	100.000	97.504	70.00- 130.00	100.00
17.989	17.989 (1.182)	148	3107048			34.16- 94.16	62.64
17.989	17.989 (1.182)	111	2095150			16.41- 76.41	42.24
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	7090361	100.000	99.229	70.00- 130.00	100.00
18.128	18.128 (1.191)	126	1205592			0.00- 46.97	17.00
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	3753348	100.000	86.154	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	2318870			33.83- 93.83	61.78
18.321	18.321 (1.203)	111	1975932			21.29- 81.29	52.64
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	2760569	100.000	106.69	70.00- 130.00	100.00
19.593	19.593 (1.287)	182	2604598			62.06- 122.06	94.35
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	2866710	100.000	81.503	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	1823041			35.92- 95.92	63.59
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	8609290	100.000	99.016	70.00- 130.00	100.00
19.787	19.787 (1.300)	127	1214285			0.00- 43.72	14.10

Report Date: 23-Mar-2007 08:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032208.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->100ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	274410	-3.29
86 1,4-Difluorobenze	1370859	822515	1919203	1375928	0.37
123 Chlorobenzene-d5	1067063	640238	1493888	1061257	-0.54

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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.

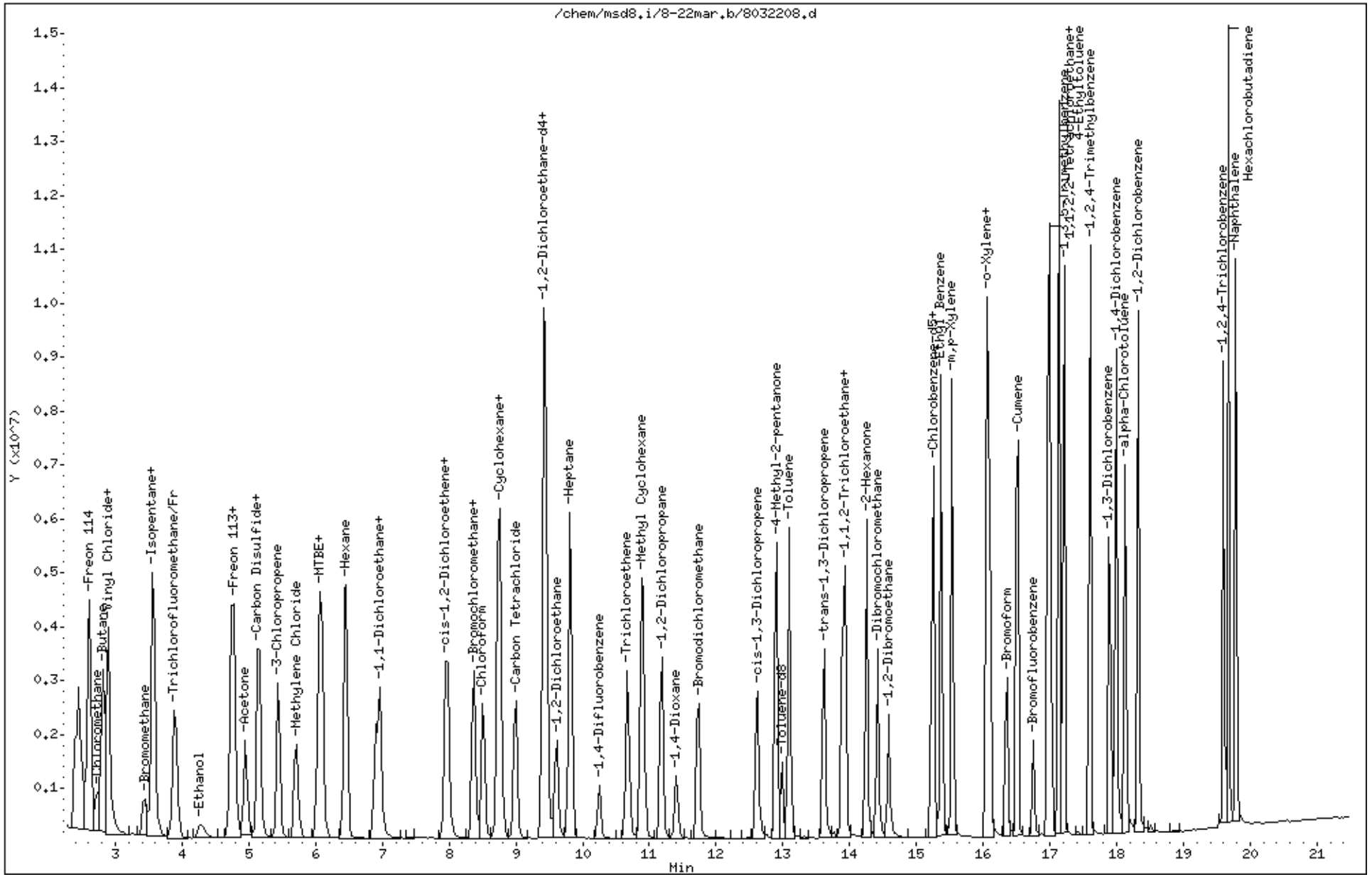
0134

Data File: /chem/msd8.i/8-22mar.b/8032208.d
Date : 22-MAR-2007 13:02
Client ID: Level 6
Sample Info: 100ml 1487-115

Instrument: msd8.i

Operator: sjr
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-26mar.b/8032608.d
Lab Smp Id: ICAL Client Smp ID: LEVEL 7
Inj Date : 26-MAR-2007 13:11
Operator : ea Inst ID: msd8.i
Smp Info : 200ml #1487-42
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msd8.i/8-26mar.b/t14q322b.m
Meth Date : 26-Mar-2007 13:58 ealcan Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp5b.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane					CAS #: 74-97-5			
8.395	8.395 (1.000)	130	281494	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	230544			46.88- 106.88		81.90
8.367	8.367 (1.000)	49	801676			254.92- 314.92		284.79
* 86 1,4-Difluorobenzene					CAS #: 540-36-3			
10.248	10.248 (1.000)	114	1332533	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	260063			0.00- 48.81		19.52
* 123 Chlorobenzene-d5					CAS #: 3114-55-4			
15.224	15.224 (1.000)	117	1030363	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	675300			35.49- 95.49		65.54
194 2-Methylpentane					CAS #: 107-83-5			
5.519	5.519 (0.657)	71	3347631	200.000	161.28	70.00- 130.00		100.00
5.519	5.519 (0.657)	43	13000628			343.03- 403.03		388.35
5.519	5.519 (0.657)	42	6719106			164.61- 224.61		200.71
195 Thiopene					CAS #: 110-02-1			
9.833	9.833 (0.960)	84	6737660	200.000	166.88	70.00- 130.00		100.00(T)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
195 Thiopene (continued)							
9.833	9.833 (0.960)	58	5424886			49.76- 109.76	80.52
0.000	1.000 (0.000)	0	0			0.00- 30.00	0.00
196 Indan					CAS #: 496-11-7		
18.183	18.183 (1.194)	117	14309681	200.000	170.54	70.00- 130.00	100.00
18.183	18.183 (1.194)	118	8094903			26.81- 86.81	56.57
18.183	18.183 (1.194)	91	2643183			0.00- 48.39	18.47
197 Indene					CAS #: 95-13-6		
18.404	18.404 (1.209)	115	9753957	200.000	176.32	70.00- 130.00	100.00(T)
0.000	1.000 (0.000)	16	0			0.00- 30.00	0.00
83 2,3-Dimethylpentane					CAS #: 565-59-3		
8.782	8.782 (1.046)	71	2877196	200.000	168.21	70.00- 130.00	100.00
8.782	8.782 (1.046)	56	10172829			314.83- 374.83	353.57
8.782	8.782 (1.046)	43	8826150			271.50- 331.50	306.76

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 26-Mar-2007 13:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8032608.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msd8.i/8-26mar.b/t14q322b.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 26-MAR-2007
Calibration Time: 12:43
Client Smp ID: LEVEL 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	291821	175093	408549	281494	-3.54
86 1,4-Difluorobenze	1354208	812525	1895891	1332533	-1.60
123 Chlorobenzene-d5	1071895	643137	1500653	1030363	-3.87

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.40	8.07	8.73	8.39	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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/8-26mar.b/8032608.d

Date : 26-MAR-2007 13:11

Client ID: LEVEL 7

Sample Info: 200ml #1487-42

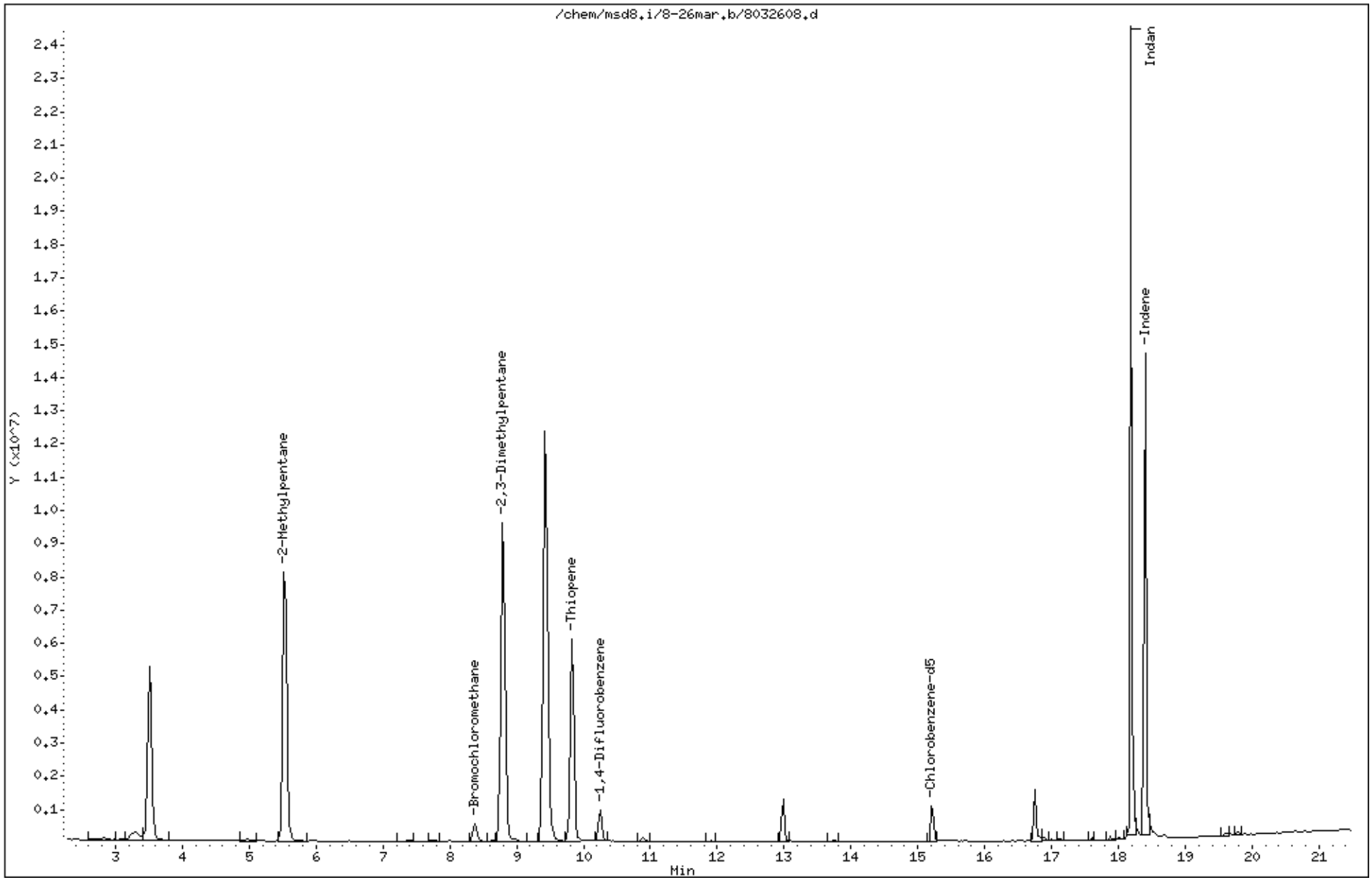
Column phase: RTx-624

Instrument: msd8.i

Operator: ea

Column diameter: 0.53

0138



Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-22mar.b/8032209.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 22-MAR-2007 13:30
Operator : sjr Inst ID: msd8.i
Smp Info : 200ml 1487-115
Misc Info : 200ppbv->200ppbv
Comment :
Method : /chem/msd8.i/8-22mar.b/t14q322a.m
Meth Date : 23-Mar-2007 08:09 sscott Quant Type: ISTD
Cal Date : 22-MAR-2007 13:30 Cal File: 8032209.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane						CAS #: 74-97-5		
8.395	8.395 (1.000)	130	279518	25.0000		70.00- 130.00		100.00
8.395	8.395 (1.000)	128	222977			46.35- 106.35		79.77
8.367	8.367 (1.000)	49	860256			255.78- 315.78		307.76
* 86 1,4-Difluorobenzene						CAS #: 540-36-3		
10.248	10.248 (1.000)	114	1399810	25.0000		70.00- 130.00		100.00
10.248	10.248 (1.000)	88	256707			0.00- 48.88		18.34
* 123 Chlorobenzene-d5						CAS #: 3114-55-4		
15.224	15.224 (1.000)	117	1085707	25.0000		70.00- 130.00		100.00
15.197	15.197 (1.000)	82	735939			36.68- 96.68		67.78
$ 80 1,2-Dichloroethane-d4						CAS #: 17060-07-0		
9.473	9.473 (1.128)	65	661231	25.0000	27.367	70.00- 130.00		100.00
9.446	9.446 (1.125)	67	465615			27.92- 87.92		70.42
$ 102 Toluene-d8						CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	1412741	25.0000	25.663	70.00- 130.00		100.00
12.985	12.985 (1.267)	70	173136			0.00- 42.61		12.26

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	954832			40.27- 100.27	67.59
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.745	16.745 (1.100)	174	570442	25.0000	25.638	70.00- 130.00	100.00
16.745	16.745 (1.100)	95	1011334			137.66- 197.66	177.29
16.745	16.745 (1.100)	176	558711			63.61- 123.61	97.94
3 Propylene					CAS #: 115-07-1		
2.395	2.395 (0.285)	41	5308101	200.000	179.48	70.00- 130.00	100.00
2.395	2.395 (0.285)	42	3479256			35.20- 95.20	65.55
2.395	2.395 (0.285)	39	3813826			42.80- 102.80	71.85
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.450	2.450 (0.292)	85	10101380	200.000	161.58	70.00- 130.00	100.00
2.450	2.450 (0.292)	87	3235750			1.89- 61.89	32.03
6 Freon 114					CAS #: 76-14-2		
2.616	2.616 (0.312)	135	5891518	200.000	166.16	70.00- 130.00	100.00
2.616	2.616 (0.312)	137	1868154			1.88- 61.88	31.71
8 Chloromethane					CAS #: 74-87-3		
2.727	2.727 (0.325)	50	5299226	200.000	164.76	70.00- 130.00	100.00
2.727	2.727 (0.325)	52	1522402			0.00- 59.46	28.73
9 Butane					CAS #: 106-97-8		
2.837	2.837 (0.338)	58	1398871	200.000	167.12	70.00- 130.00	100.00
2.837	2.837 (0.338)	43	11305102			772.78- 832.78	808.16
10 Vinyl Chloride					CAS #: 75-01-4		
2.893	2.893 (0.345)	62	5274740	200.000	174.60	70.00- 130.00	100.00
2.893	2.893 (0.345)	64	1597095			0.33- 60.33	30.28
11 1,3-Butadiene					CAS #: 106-99-0		
2.920	2.920 (0.348)	54	5298869	200.000	169.14	70.00- 130.00	100.00
2.893	2.893 (0.345)	39	7534296			86.60- 146.60	142.19
13 Bromomethane					CAS #: 74-83-9		
3.446	3.446 (0.410)	94	2889199	200.000	174.95	70.00- 130.00	100.00
3.446	3.446 (0.410)	96	2663390			64.77- 124.77	92.18
15 Isopentane					CAS #: 78-78-4		
3.556	3.556 (0.424)	43	8928696	200.000	172.74	70.00- 130.00	100.00
3.556	3.556 (0.424)	57	5194820			27.51- 87.51	58.18
3.584	3.584 (0.427)	72	519565			0.00- 35.95	5.82

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.612	3.612 (0.430)	64	2745566	200.000	174.52	70.00- 130.00	100.00
3.584	3.584 (0.427)	49	861002			2.42- 62.42	31.36
3.612	3.612 (0.430)	66	805195			0.00- 58.92	29.33
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.916	3.916 (0.466)	101	10012696	200.000	178.81	70.00- 130.00	100.00
3.916	3.916 (0.466)	103	6341136			34.71- 94.71	63.33
21 Ethanol					CAS #: 64-17-5		
4.331	4.331 (0.516)	45	2255570	200.000	177.45	70.00- 130.00	100.00
4.331	4.331 (0.516)	43	448642			0.00- 50.43	19.89
4.331	4.331 (0.516)	46	957418			12.21- 72.21	42.45
27 Freon 113					CAS #: 76-13-1		
4.745	4.745 (0.565)	151	4370646	200.000	164.83	70.00- 130.00	100.00
4.745	4.745 (0.565)	153	2713210			32.67- 92.67	62.08
4.745	4.745 (0.565)	101	6769526			124.83- 184.83	154.89
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.801	4.801 (0.572)	61	7533717	200.000	166.92	70.00- 130.00	100.00
4.801	4.801 (0.572)	96	3316120			15.10- 75.10	44.02
4.801	4.801 (0.572)	98	2080886			0.00- 58.17	27.62
30 Acetone					CAS #: 67-64-1		
4.939	4.939 (0.588)	58	2805977	200.000	173.83	70.00- 130.00	100.00
4.939	4.939 (0.588)	43	10159313			337.35- 397.35	362.06
33 Carbon Disulfide					CAS #: 75-15-0		
5.160	5.160 (0.615)	76	11799377	200.000	169.72	70.00- 130.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.160	5.160 (0.615)	45	11847068	200.000	187.32	70.00- 130.00	100.00
5.160	5.160 (0.615)	43	2329975			0.00- 50.64	19.67
5.160	5.160 (0.615)	59	395213			0.00- 33.21	3.34
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.437 (0.648)	76	1998211	200.000	177.98	70.00- 130.00	100.00
5.437	5.437 (0.648)	41	8970627			414.53- 474.53	448.93
39 Methylene Chloride					CAS #: 75-09-2		
5.713	5.713 (0.681)	49	6321788	200.000	164.70	70.00- 130.00	100.00
5.713	5.713 (0.681)	84	3055111			18.44- 78.44	48.33
5.713	5.713 (0.681)	51	1846237			0.00- 59.93	29.20
42 MTBE					CAS #: 1634-04-4		
6.045	6.045 (0.720)	73	13152510	200.000	169.99	70.00- 130.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.045 (0.720)	57	3882461			0.00- 59.33	29.52
6.045	6.045 (0.720)	41	4049097			1.95- 61.95	30.79
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.100 (0.727)	96	3729950	200.000	161.71	70.00- 130.00	100.00
6.100	6.100 (0.727)	61	7405681			169.97- 229.97	198.55
6.100	6.100 (0.727)	98	2367667			34.71- 94.71	63.48
45 Hexane					CAS #: 110-54-3		
6.432	6.432 (0.766)	57	9508794	200.000	167.48	70.00- 130.00	100.00
6.432	6.432 (0.766)	43	7106283			44.61- 104.61	74.73
6.460	6.460 (0.769)	86	1305143			0.00- 43.77	13.73
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.902 (0.822)	63	8387780	200.000	174.91	70.00- 130.00	100.00
6.902	6.902 (0.822)	65	2490463			0.00- 59.58	29.69
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.957 (0.829)	86	1135815	200.000	199.12	70.00- 130.00	100.00
6.957	6.957 (0.829)	43	17639765			1469.62-1529.62	1553.05
6.957	6.957 (0.829)	42	1475594			100.08- 160.08	129.91
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	6381943	200.000	174.92	70.00- 130.00	100.00
7.953	7.953 (0.947)	96	3500554			27.36- 87.36	54.85
7.953	7.953 (0.947)	98	2250958			5.83- 65.83	35.27
64 2-Butanone					CAS #: 78-93-3		
7.980	7.980 (0.951)	72	2143034	200.000	163.72	70.00- 130.00	100.00
7.980	7.980 (0.951)	43	13228944			574.29- 634.29	617.30
7.980	7.980 (0.951)	57	881095			10.61- 70.61	41.11
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	7835677	200.000	160.78	70.00- 130.00	100.00
8.367	8.367 (0.997)	71	1964568			0.00- 54.93	25.07
8.367	8.367 (0.997)	72	2111107			0.00- 56.52	26.94
69 Chloroform					CAS #: 67-66-3		
8.506	8.506 (1.013)	83	7043808	200.000	153.24	70.00- 130.00	100.00
8.506	8.506 (1.013)	85	4530865			33.71- 93.71	64.32
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.727 (1.040)	84	5609830	200.000	163.73	70.00- 130.00	100.00
8.727	8.727 (1.040)	56	9584320			138.68- 198.68	170.85
8.727	8.727 (1.040)	41	5766105			73.81- 133.81	102.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.754	8.754 (1.043)	97	7033900	200.000	169.50	70.00- 130.00	100.00
8.754	8.754 (1.043)	99	4470247			33.95- 93.95	63.55
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	5870008	200.000	175.12	70.00- 130.00	100.00
9.003	9.003 (1.072)	117	6520132			81.67- 141.67	111.08
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.446	9.446 (1.125)	57	27970218	200.000	174.96	70.00- 130.00	100.00
9.446	9.446 (1.125)	56	9810126			4.45- 64.45	35.07
9.446	9.446 (1.125)	41	8184579			0.00- 59.44	29.26
79 Benzene					CAS #: 71-43-2		
9.418	9.418 (0.919)	78	12323899	200.000	158.07	70.00- 130.00	100.00
9.418	9.418 (0.919)	77	2904375			0.00- 54.39	23.57
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	6122562	200.000	167.69	70.00- 130.00	100.00
9.612	9.612 (0.938)	64	1881649			1.44- 61.44	30.73
82 Heptane					CAS #: 142-82-5		
9.805	9.805 (0.957)	100	1422278	200.000	152.72	70.00- 130.00	100.00
9.805	9.805 (0.957)	43	11924797			789.66- 849.66	838.43
9.805	9.805 (0.957)	71	4647758			294.27- 354.27	326.78
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.662 (1.040)	95	4227724	200.000	168.59	70.00- 130.00	100.00
10.662	10.662 (1.040)	130	3693207			57.13- 117.13	87.36
10.662	10.662 (1.040)	97	2711041			32.50- 92.50	64.13
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.883	10.883 (1.296)	83	7201337	200.000	168.04	70.00- 130.00	100.00
10.911	10.911 (1.300)	98	3309603			15.00- 75.00	45.96
10.883	10.883 (1.296)	55	8341830			87.18- 147.18	115.84
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	4749296	200.000	166.24	70.00- 130.00	100.00
11.188	11.188 (1.092)	62	3604653			45.03- 105.03	75.90
11.188	11.188 (1.092)	41	3676935			45.52- 105.52	77.42
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	2658131	200.000	178.47	70.00- 130.00	100.00
11.409	11.409 (1.113)	58	2649215			70.27- 130.27	99.66
11.409	11.409 (1.113)	57	807873			0.54- 60.54	30.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	7190559	200.000	170.21	70.00- 130.00	100.00
11.741	11.741 (1.146)	85	4538542			32.38- 92.38	63.12
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.232)	75	6325832	200.000	175.57	70.00- 130.00	100.00
12.625	12.625 (1.232)	77	1954764			1.52- 61.52	30.90
12.598	12.598 (1.229)	39	4867305			48.26- 108.26	76.94
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	4857563	200.000	167.22	70.00- 130.00	100.00
12.902	12.902 (1.259)	43	14289544			251.14- 311.14	294.17
12.902	12.902 (1.259)	85	1557025			2.33- 62.33	32.05
103 Toluene					CAS #: 108-88-3		
13.095	13.095 (1.278)	91	12583853	200.000	178.26	70.00- 130.00	100.00
13.095	13.095 (1.278)	92	7516713			29.45- 89.45	59.73
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	6649054	200.000	175.62	70.00- 130.00	100.00
13.621	13.621 (0.895)	77	2070772			1.42- 61.42	31.14
13.621	13.621 (0.895)	39	4783510			43.57- 103.57	71.94
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.870	13.870 (0.911)	97	3726387	200.000	169.06	70.00- 130.00	100.00
13.870	13.870 (0.911)	99	2290121			31.40- 91.40	61.46
13.870	13.870 (0.911)	83	3451808			60.06- 120.06	92.63
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.925 (0.915)	166	4167743	200.000	178.02	70.00- 130.00	100.00
13.925	13.925 (0.915)	129	3212119			46.36- 106.36	77.07
13.925	13.925 (0.915)	131	3048828			45.00- 105.00	73.15
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	6522486	200.000	187.49	70.00- 130.00	100.00
14.257	14.257 (0.936)	43	13577863			176.52- 236.52	208.17
14.257	14.257 (0.936)	100	1038835			0.00- 45.68	15.93
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	5277849	200.000	176.45	70.00- 130.00	100.00
14.423	14.423 (0.947)	127	4101573			46.96- 106.96	77.71
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.588	14.588 (0.958)	107	5509731	200.000	178.14	70.00- 130.00	100.00
14.588	14.588 (0.958)	109	5152228			62.88- 122.88	93.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	8721021	200.000	170.98	70.00- 130.00	100.00
15.252	15.252 (1.002)	114	2743027			0.73- 60.73	31.45
15.252	15.252 (1.002)	77	6567675			40.58- 100.58	75.31
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	5041657	200.000	176.06	70.00- 130.00	100.00
15.363	15.363 (1.009)	91	17579589			309.90- 369.90	348.69
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	6372305	200.000	173.05	70.00- 130.00	100.00
15.529	15.529 (1.020)	91	13893912			177.38- 237.38	218.04
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	6076266	200.000	171.12	70.00- 130.00	100.00
16.054	16.054 (1.054)	91	14006948			195.99- 255.99	230.52
131 Styrene					CAS #: 100-42-5		
16.082	16.082 (1.056)	104	9762261	200.000	178.61	70.00- 130.00	100.00
16.082	16.082 (1.056)	78	5787443			28.78- 88.78	59.28
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	4574387	200.000	185.07	70.00- 130.00	100.00
16.358	16.358 (1.074)	171	2341683			21.17- 81.17	51.19
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	17970251	200.000	165.84	70.00- 130.00	100.00
16.524	16.524 (1.085)	120	3974756			0.00- 53.14	22.12
16.496	16.496 (1.084)	51	2706656			0.00- 45.39	15.06
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	8927989	200.000	175.54	70.00- 130.00	100.00
16.966	16.966 (1.114)	85	5676275			34.35- 94.35	63.58
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	19404297	200.000	158.37	70.00- 130.00	100.00
16.994	16.994 (1.116)	120	3967403			0.00- 48.79	20.45
16.994	16.994 (1.116)	105	753290			0.00- 33.35	3.88
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	15990495	200.000	150.17	70.00- 130.00	100.00
17.132	17.132 (1.125)	120	4984716			0.00- 54.57	31.17
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	16835111	200.000	167.05	70.00- 130.00	100.00
17.215	17.215 (1.131)	120	7155884			12.64- 72.64	42.51

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	15608537	200.000	171.04	70.00- 130.00	100.00
17.602	17.602 (1.156)	120	6302882			11.41- 71.41	40.38
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.906	17.906 (1.176)	146	7427639	200.000	187.39	70.00- 130.00	100.00
17.906	17.906 (1.176)	148	4681195			32.20- 92.20	63.02
17.879	17.879 (1.174)	111	3455393			13.28- 73.28	46.52
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	8613025	200.000	170.40	70.00- 130.00	100.00
17.989	17.989 (1.182)	148	5485543			34.16- 94.16	63.69
17.989	17.989 (1.182)	111	3763221			16.41- 76.41	43.69
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	14714814	200.000	201.08	70.00- 130.00	100.00(A)
18.128	18.128 (1.191)	126	2503464			0.00- 46.97	17.01
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	7632385	200.000	175.45	70.00- 130.00	100.00
18.321	18.321 (1.203)	148	4754513			33.83- 93.83	62.29
18.321	18.321 (1.203)	111	3985203			21.29- 81.29	52.21
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	5912056	200.000	218.24	70.00- 130.00	100.00(A)
19.593	19.593 (1.287)	182	5405242			62.06- 122.06	91.43
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	5815816	200.000	168.08	70.00- 130.00	100.00
19.676	19.676 (1.292)	223	3716506			35.92- 95.92	63.90
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	15395818	200.000	177.87	70.00- 130.00	100.00(A)
19.787	19.787 (1.300)	127	2483525			0.00- 43.72	16.13

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: 8032209.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msd8.i/8-22mar.b/t14q322a.m
Misc Info: 200ppbv->200ppbv

Calibration Date: 22-MAR-2007
Calibration Time: 12:34
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	283735	170241	397229	279518	-1.49
86 1,4-Difluorobenze	1370859	822515	1919203	1399810	2.11
123 Chlorobenzene-d5	1067063	640238	1493888	1085707	1.75

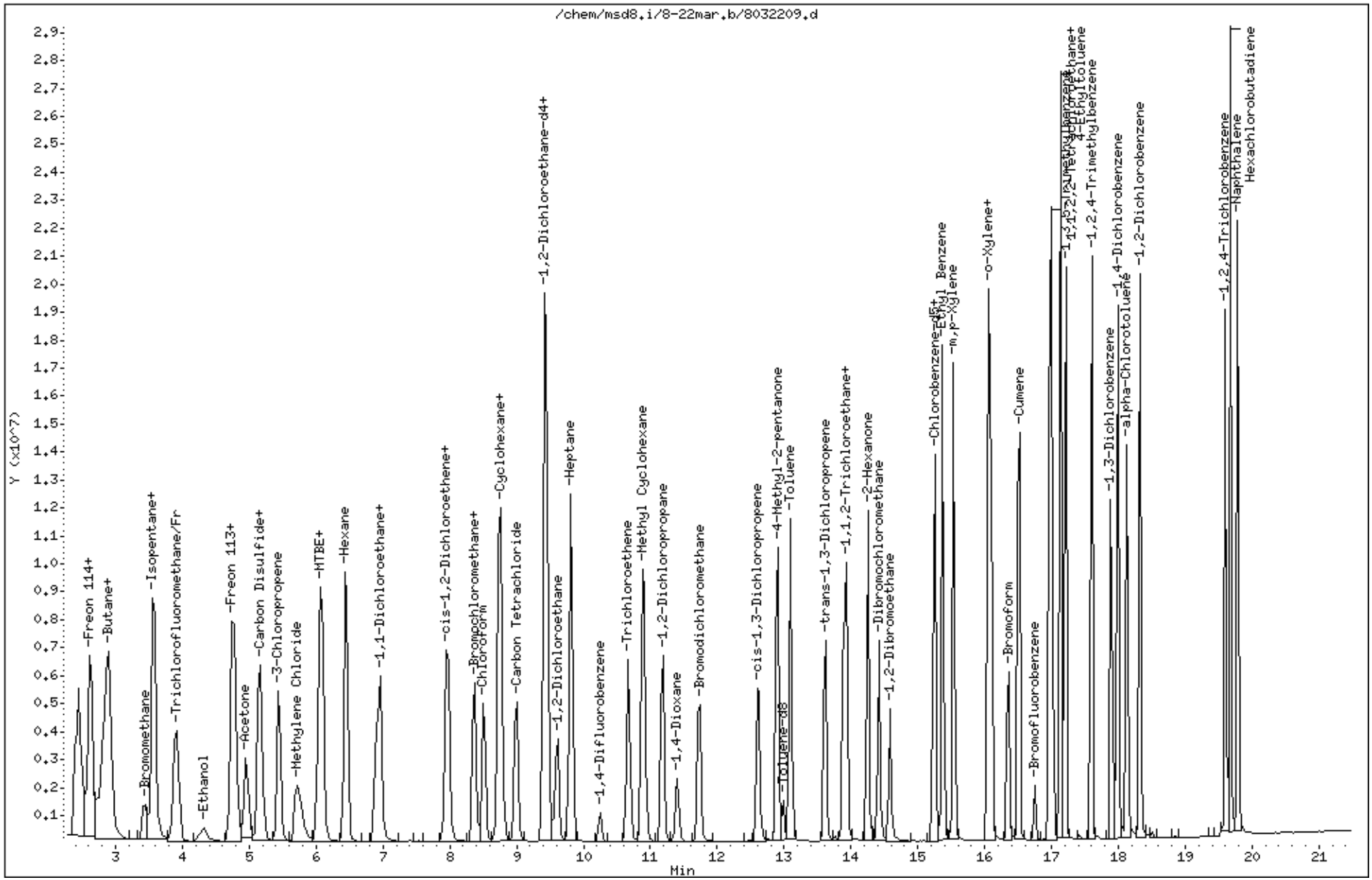
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.40	0.00
86 1,4-Difluorobenze	10.25	9.92	10.58	10.25	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	0.00

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/8-22mar.b/8032209.d
Date : 22-MAR-2007 13:30
Client ID: Level 7
Sample Info: 200ml 1487-115

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

Column phase: RTx-624



0148

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0704313-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 09:34 AM**	

Compound	%Recovery
Freon 12	76
Freon 114	91
Vinyl Chloride	96
Bromomethane	84
Chloroethane	83
Freon 11	89
1,1-Dichloroethene	85
Freon 113	87
Methylene Chloride	89
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	82
Chloroform	72
1,1,1-Trichloroethane	80
Carbon Tetrachloride	82
Benzene	84
1,2-Dichloroethane	94
Trichloroethene	90
1,2-Dichloropropane	81
cis-1,3-Dichloropropene	81
Toluene	86
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	90
Tetrachloroethene	96
1,2-Dibromoethane (EDB)	94
Chlorobenzene	88
Ethyl Benzene	86
m,p-Xylene	87
o-Xylene	85
Styrene	79
1,1,2,2-Tetrachloroethane	84
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	89
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	87
1,2-Dichlorobenzene	96
1,3-Butadiene	90
Hexane	83
Cyclohexane	75

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0704313-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 09:34 AM**	

Compound	**%Recovery**
Heptane	82
Bromodichloromethane	87
Dibromochloromethane	91
Cumene	83
Propylbenzene	89
Chloromethane	97
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	102
Acetone	86
Carbon Disulfide	89
2-Propanol	87
trans-1,2-Dichloroethene	83
2-Butanone (Methyl Ethyl Ketone)	76
Tetrahydrofuran	69 Q
1,4-Dioxane	84
4-Methyl-2-pentanone	70
2-Hexanone	78
Bromoform	95
4-Ethyltoluene	91
Ethanol	89
Methyl tert-butyl ether	79
3-Chloropropene	89
2,2,4-Trimethylpentane	76
Naphthalene	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 20-APR-2007 09:34
Lab File ID: 8042002.d Init. Cal. Date(s): 22-MAR-2007 26-MAR-2007
Analysis Type: AIR Init. Cal. Times: 10:41 13:11
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-20apr.b/t14q322b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 80 1,2-Dichloroethane-d4	2.16099	1.97593	0.010	8.56392	30.00000	Averaged	
$ 102 Toluene-d8	0.98315	0.94289	0.010	4.09526	30.00000	Averaged	
$ 138 Bromofluorobenzene	0.51234	0.50648	0.010	1.14242	30.00000	Averaged	
3 Propylene	2.64519	2.58612	0.010	2.23315	30.00000	Averaged	
4 Dichlorodifluoromethane/Fr1	5.59128	4.24687	0.010	24.04475	30.00000	Averaged	
6 Freon 114	3.17116	2.88609	0.010	8.98922	30.00000	Averaged	
8 Chloromethane	2.87665	2.80411	0.010	2.52151	30.00000	Averaged	
9 Butane	0.74863	0.65673	0.010	12.27629	30.00000	Averaged	
10 Vinyl Chloride	2.70205	2.60492	0.010	3.59481	30.00000	Averaged	
11 1,3-Butadiene	2.80201	2.52559	0.010	9.86492	30.00000	Averaged	
13 Bromomethane	1.47708	1.23934	0.010	16.09493	30.00000	Averaged	
15 Isopentane	4.62310	4.31568	0.010	6.64965	30.00000	Averaged	
16 Chloroethane	1.40708	1.16866	0.010	16.94456	30.00000	Averaged	
18 Trichlorofluoromethane/Fr11	5.00821	4.47913	0.010	10.56420	30.00000	Averaged	
21 Ethanol	1.13689	1.01242	0.010	10.94862	30.00000	Averaged	
27 Freon 113	2.37158	2.05750	0.010	13.24351	30.00000	Averaged	
29 1,1-Dichloroethene	4.03682	3.42590	0.010	15.13363	30.00000	Averaged	
30 Acetone	1.44376	1.24654	0.010	13.65996	30.00000	Averaged	
33 Carbon Disulfide	6.21805	5.55400	0.010	10.67943	30.00000	Averaged	
34 2-Propanol	5.65645	4.94095	0.010	12.64931	30.00000	Averaged	
37 3-Chloropropene	1.00414	0.89373	0.010	10.99560	30.00000	Averaged	
39 Methylene Chloride	3.43297	3.04931	0.010	11.17579	30.00000	Averaged	
42 MTBE	6.91999	5.47650	0.010	20.85974	30.00000	Averaged	
43 trans-1,2-Dichloroethene	2.06297	1.71385	0.010	16.92297	30.00000	Averaged	
45 Hexane	5.07809	4.20424	0.010	17.20818	30.00000	Averaged	
52 1,1-Dichloroethane	4.28903	3.73274	0.010	12.97006	30.00000	Averaged	
54 Vinyl Acetate	0.51018	0.44381	0.010	13.00944	30.00000	Averaged	
63 cis-1,2-Dichloroethene	3.26321	2.68035	0.010	17.86153	30.00000	Averaged	
64 2-Butanone	1.17072	0.88405	0.010	24.48705	30.00000	Averaged	
66 Tetrahydrofuran	4.35898	3.00261	0.010	31.11670	30.00000	Averaged	<-
69 Chloroform	4.11103	2.98158	0.010	27.47370	30.00000	Averaged	
72 Cyclohexane	3.06440	2.30208	0.010	24.87666	30.00000	Averaged	
73 1,1,1-Trichloroethane	3.71165	2.97698	0.010	19.79349	30.00000	Averaged	
75 Carbon Tetrachloride	2.99797	2.46881	0.010	17.65064	30.00000	Averaged	
78 2,2,4-Trimethylpentane	14.29843	10.80910	0.010	24.40359	30.00000	Averaged	
79 Benzene	1.39238	1.17730	0.010	15.44700	30.00000	Averaged	

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msd8.i Injection Date: 20-APR-2007 09:34
Lab File ID: 8042002.d Init. Cal. Date(s): 22-MAR-2007 26-MAR-2007
Analysis Type: AIR Init. Cal. Times: 10:41 13:11
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /var/chem/msd8.i/8-20apr.b/t14q322b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
81 1,2-Dichloroethane	0.65206	0.61368	0.010	5.88689	30.00000	Averaged
82 Heptane	0.16632	0.13584	0.010	18.32921	30.00000	Averaged
92 Trichloroethene	0.44787	0.40195	0.010	10.25103	30.00000	Averaged
93 Methyl Cyclohexane	3.83302	2.76468	0.010	27.87201	30.00000	Averaged
95 1,2-Dichloropropane	0.51024	0.41215	0.010	19.22326	30.00000	Averaged
96 1,4-Dioxane	0.26600	0.22461	0.010	15.56002	30.00000	Averaged
98 Bromodichloromethane	0.75448	0.65520	0.010	13.15822	30.00000	Averaged
100 cis-1,3-Dichloropropene	0.64347	0.52030	0.010	19.14160	30.00000	Averaged
101 4-Methyl-2-pentanone	0.51882	0.36411	0.010	29.81935	30.00000	Averaged
103 Toluene	1.26076	1.08006	0.010	14.33272	30.00000	Averaged
106 trans-1,3-Dichloropropene	0.87181	0.75445	0.010	13.46132	30.00000	Averaged
108 1,1,2-Trichloroethane	0.50754	0.45932	0.010	9.50150	30.00000	Averaged
109 Tetrachloroethene	0.53907	0.51534	0.010	4.40218	30.00000	Averaged
112 2-Hexanone	0.80104	0.62432	0.010	22.06133	30.00000	Averaged
114 Dibromochloromethane	0.68875	0.62533	0.010	9.20732	30.00000	Averaged
115 1,2-Dibromoethane	0.71217	0.66604	0.010	6.47775	30.00000	Averaged
124 Chlorobenzene	1.17450	1.03521	0.010	11.85950	30.00000	Averaged
127 Ethyl Benzene	0.65940	0.56780	0.010	13.89158	30.00000	Averaged
128 m,p-Xylene	0.84792	0.73723	0.010	13.05532	30.00000	Averaged
130 o-Xylene	0.81763	0.69558	0.010	14.92760	30.00000	Averaged
131 Styrene	1.25857	0.99716	0.010	20.77035	30.00000	Averaged
133 Bromoform	0.56916	0.54285	0.010	4.62240	30.00000	Averaged
135 Cumene	2.49512	2.06790	0.010	17.12210	30.00000	Averaged
142 1,1,2,2-Tetrachloroethane	1.17112	0.98652	0.010	15.76333	30.00000	Averaged
143 Propylbenzene	2.82133	2.50864	0.010	11.08290	30.00000	Averaged
145 4-Ethyltoluene	2.45190	2.23525	0.010	8.83586	30.00000	Averaged
146 1,3,5-Trimethylbenzene	2.32061	2.15564	0.010	7.10913	30.00000	Averaged
151 1,2,4-Trimethylbenzene	2.10131	1.87629	0.010	10.70861	30.00000	Averaged
154 1,3-Dichlorobenzene	0.91270	0.90031	0.010	1.35717	30.00000	Averaged
155 1,4-Dichlorobenzene	1.16387	1.12982	0.010	2.92518	30.00000	Averaged
156 alpha-Chlorotoluene	1.68507	1.46717	0.010	12.93089	30.00000	Averaged
158 1,2-Dichlorobenzene	1.00169	0.96086	0.010	4.07605	30.00000	Averaged
163 1,2,4-Trichlorobenzene	0.62377	0.56671	0.010	9.14777	30.00000	Averaged
164 Hexachlorobutadiene	0.79677	0.80975	0.010	-1.62883	30.00000	Averaged
165 Naphthalene	1.99311	1.84211	0.010	7.57617	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20apr.b/8042002.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 20-APR-2007 09:34
Operator : JG Inst ID: msd8.i
Smp Info : 100ml #1408-387A
Misc Info : 100ppbv-50ppbv
Comment :
Method : /var/chem/msd8.i/8-20apr.b/t14q322b.m
Meth Date : 20-Apr-2007 10:35 jgray Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
==	====== ========	====	========	=======	=======	==========		=====
* 67 Bromochloromethane					CAS #: 74-97-5			
8.395	8.395 (1.000)	130	260063	25.0000		80.00- 120.00		100.00
8.395	8.395 (1.000)	128	193998			44.60- 104.60		74.60
8.395	8.395 (1.000)	49	720395			247.01- 307.01		277.01
* 86 1,4-Difluorobenzene					CAS #: 540-36-3			
10.275	10.275 (1.000)	114	1089176	25.0000		80.00- 120.00		100.00
10.248	10.248 (1.000)	88	206127			0.00- 48.93		18.93
* 123 Chlorobenzene-d5					CAS #: 3114-55-4			
15.224	15.224 (1.000)	117	818159	25.0000		80.00- 120.00		100.00
15.224	15.224 (1.000)	82	535059			35.49- 95.49		65.40
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
9.473	9.473 (1.128)	65	513865	25.0000	22.859	80.00- 120.00		100.00
9.473	9.473 (1.128)	67	283207			27.92- 87.92		55.11
$ 102 Toluene-d8					CAS #: 2037-26-5			
12.985	12.985 (1.264)	98	1026970	25.0000	23.976	80.00- 120.00		100.00
12.985	12.985 (1.264)	70	131603			0.00- 42.61		12.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.264)	100	695786			40.27- 100.27	67.75
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.773	16.773 (1.102)	174	414383	25.0000	24.714	80.00- 120.00	100.00
16.745	16.745 (1.100)	95	722252			144.30- 204.30	174.30
16.773	16.773 (1.102)	176	417162			70.67- 130.67	100.67
3 Propylene					CAS #: 115-07-1		
2.450	2.450 (0.292)	41	1345108	50.0000	48.883	80.00- 120.00	100.00
2.450	2.450 (0.292)	42	891324			35.20- 95.20	66.26
2.450	2.450 (0.292)	39	956144			42.80- 102.80	71.08
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.506	2.506 (0.298)	85	2208908	50.0000	37.978	80.00- 120.00	100.00
2.506	2.506 (0.298)	87	707659			1.89- 61.89	32.04
6 Freon 114					CAS #: 76-14-2		
2.644	2.644 (0.315)	135	1501132	50.0000	45.505	80.00- 120.00	100.00
2.644	2.644 (0.315)	137	473354			1.53- 61.53	31.53
8 Chloromethane					CAS #: 74-87-3		
2.782	2.782 (0.331)	50	1458491	50.0000	48.739	80.00- 120.00	100.00
2.782	2.782 (0.331)	52	387605			0.00- 59.46	26.58
9 Butane					CAS #: 106-97-8		
2.865	2.865 (0.341)	58	341581	50.0000	43.862	80.00- 120.00	100.00
2.837	2.837 (0.338)	43	2802273			772.78- 832.78	820.38
10 Vinyl Chloride					CAS #: 75-01-4		
2.948	2.948 (0.351)	62	1354887	50.0000	48.202	80.00- 120.00	100.00
2.948	2.948 (0.351)	64	408790			0.33- 60.33	30.17
11 1,3-Butadiene					CAS #: 106-99-0		
2.920	2.920 (0.348)	54	1313625	50.0000	45.068	80.00- 120.00	100.00
2.920	2.920 (0.348)	39	1887476			86.60- 146.60	143.68
13 Bromomethane					CAS #: 74-83-9		
3.473	3.473 (0.414)	94	644614	50.0000	41.952	80.00- 120.00	100.00
3.473	3.473 (0.414)	96	587914			61.20- 121.20	91.20
15 Isopentane					CAS #: 78-78-4		
3.584	3.584 (0.427)	43	2244696	50.0000	46.675	80.00- 120.00	100.00
3.584	3.584 (0.427)	57	1310694			27.51- 87.51	58.39
3.584	3.584 (0.427)	72	133453			0.00- 35.95	5.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.639	3.639 (0.434)	64	607849	50.0000	41.528	80.00- 120.00	100.00
3.639	3.639 (0.434)	49	193462			2.42- 62.42	31.83
3.639	3.639 (0.434)	66	186287			0.00- 58.92	30.65
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.943	3.943 (0.470)	101	2329713	50.0000	44.718	80.00- 120.00	100.00
3.943	3.943 (0.470)	103	1489560			33.94- 93.94	63.94
21 Ethanol					CAS #: 64-17-5		
4.331	4.331 (0.516)	45	526584	50.0000	44.526	80.00- 120.00	100.00
4.331	4.331 (0.516)	43	112261			0.00- 50.43	21.32
4.331	4.331 (0.516)	46	225419			12.21- 72.21	42.81
27 Freon 113					CAS #: 76-13-1		
4.773	4.773 (0.569)	151	1070159	50.0000	43.378	80.00- 120.00	100.00
4.773	4.773 (0.569)	153	681577			33.69- 93.69	63.69
4.773	4.773 (0.569)	101	1687039			127.64- 187.64	157.64
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.801	4.801 (0.572)	61	1781901	50.0000	42.433	80.00- 120.00	100.00
4.828	4.828 (0.575)	96	816424			15.82- 75.82	45.82
4.828	4.828 (0.575)	98	503393			0.00- 58.25	28.25
30 Acetone					CAS #: 67-64-1		
4.994	4.994 (0.595)	58	648358	50.0000	43.170	80.00- 120.00	100.00
4.966	4.966 (0.592)	43	2321040			337.35- 397.35	357.99
33 Carbon Disulfide					CAS #: 75-15-0		
5.188	5.188 (0.618)	76	2888778	50.0000	44.660	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.188	5.188 (0.618)	45	2569915	50.0000	43.675	80.00- 120.00	100.00
5.188	5.188 (0.618)	43	536212			0.00- 50.64	20.86
5.188	5.188 (0.618)	59	80824			0.00- 33.21	3.15
37 3-Chloropropene					CAS #: 107-05-1		
5.464	5.464 (0.651)	76	464850	50.0000	44.502	80.00- 120.00	100.00
5.464	5.464 (0.651)	41	2088053			414.53- 474.53	449.19
39 Methylene Chloride					CAS #: 75-09-2		
5.741	5.741 (0.684)	49	1586023	50.0000	44.412	80.00- 120.00	100.00
5.741	5.741 (0.684)	84	751968			17.41- 77.41	47.41
5.741	5.741 (0.684)	51	438148			0.00- 59.93	27.63
42 MTBE					CAS #: 1634-04-4		
6.072	6.072 (0.723)	73	2848468	50.0000	39.570	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.072	6.072 (0.723)	57	830103			0.00- 59.14	29.14
6.072	6.072 (0.723)	41	954983			1.95- 61.95	33.53
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.128	6.128 (0.730)	96	891419	50.0000	41.538	80.00- 120.00	100.00
6.128	6.128 (0.730)	61	1751355			166.47- 226.47	196.47
6.128	6.128 (0.730)	98	573891			34.71- 94.71	64.38
45 Hexane					CAS #: 110-54-3		
6.460	6.460 (0.769)	57	2186737	50.0000	41.396	80.00- 120.00	100.00
6.460	6.460 (0.769)	43	1616416			44.61- 104.61	73.92
6.460	6.460 (0.769)	86	303378			0.00- 43.77	13.87
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.930	6.930 (0.825)	63	1941496	50.0000	43.515	80.00- 120.00	100.00
6.930	6.930 (0.825)	65	583541			0.06- 60.06	30.06
54 Vinyl Acetate					CAS #: 108-05-4		
6.985	6.985 (0.832)	86	230837	50.0000	43.495	80.00- 120.00	100.00
6.985	6.985 (0.832)	43	3668928			1469.62-1529.62	1589.40
6.985	6.985 (0.832)	42	317227			100.08- 160.08	137.42
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.947)	61	1394122	50.0000	41.069	80.00- 120.00	100.00
7.953	7.953 (0.947)	96	796976			27.17- 87.17	57.17
7.953	7.953 (0.947)	98	494038			5.44- 65.44	35.44
64 2-Butanone					CAS #: 78-93-3		
8.008	8.008 (0.954)	72	459815	50.0000	37.756	80.00- 120.00	100.00
8.008	8.008 (0.954)	43	2654806			547.36- 607.36	577.36
8.008	8.008 (0.954)	57	170952			10.61- 70.61	37.18
66 Tetrahydrofuran					CAS #: 109-99-9		
8.367	8.367 (0.997)	42	1561734	50.0000	34.442	80.00- 120.00	100.00
8.395	8.395 (1.000)	71	401190			0.00- 55.69	25.69
8.395	8.395 (1.000)	72	417780			0.00- 56.52	26.75
69 Chloroform					CAS #: 67-66-3		
8.533	8.533 (1.016)	83	1550798	50.0000	36.263	80.00- 120.00	100.00
8.533	8.533 (1.016)	85	995524			34.19- 94.19	64.19
72 Cyclohexane					CAS #: 110-82-7		
8.754	8.754 (1.043)	84	1197371	50.0000	37.562	80.00- 120.00	100.00
8.754	8.754 (1.043)	56	2021224			138.81- 198.81	168.81
8.754	8.754 (1.043)	41	1214007			71.39- 131.39	101.39

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.782	8.782 (1.046)	97	1548407	50.0000	40.103	80.00- 120.00	100.00
8.782	8.782 (1.046)	99	991253			34.02- 94.02	64.02
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.003	9.003 (1.072)	119	1284090	50.0000	41.175	80.00- 120.00	100.00
9.003	9.003 (1.072)	117	1465278			84.11- 144.11	114.11
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.446	9.446 (1.125)	57	5622095	50.0000	37.798	80.00- 120.00	100.00
9.446	9.446 (1.125)	56	1991532			4.45- 64.45	35.42
9.446	9.446 (1.125)	41	1698243			0.00- 59.44	30.21
79 Benzene					CAS #: 71-43-2		
9.446	9.446 (0.919)	78	2564577	50.0000	42.276	80.00- 120.00	100.00
9.446	9.446 (0.919)	77	604600			0.00- 54.39	23.58
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.935)	62	1336806	50.0000	47.056	80.00- 120.00	100.00
9.612	9.612 (0.935)	64	415050			1.44- 61.44	31.05
82 Heptane					CAS #: 142-82-5		
9.833	9.833 (0.957)	100	295900	50.0000	40.835	80.00- 120.00	100.00
9.833	9.833 (0.957)	43	2401862			789.66- 849.66	811.71
9.833	9.833 (0.957)	71	919849			294.27- 354.27	310.86
92 Trichloroethene					CAS #: 79-01-6		
10.690	10.690 (1.040)	95	875598	50.0000	44.874	80.00- 120.00	100.00
10.690	10.690 (1.040)	130	775993			58.62- 118.62	88.62
10.690	10.690 (1.040)	97	563232			34.33- 94.33	64.33
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.911	10.911 (1.300)	83	1437984	50.0000	36.064	80.00- 120.00	100.00
10.911	10.911 (1.300)	98	670401			15.00- 75.00	46.62
10.911	10.911 (1.300)	55	1632830			87.18- 147.18	113.55
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.089)	63	897815	50.0000	40.388	80.00- 120.00	100.00
11.188	11.188 (1.089)	62	693125			47.20- 107.20	77.20
11.188	11.188 (1.089)	41	755115			54.11- 114.11	84.11
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.110)	88	489272	50.0000	42.220	80.00- 120.00	100.00
11.409	11.409 (1.110)	58	447813			61.53- 121.53	91.53
11.409	11.409 (1.110)	57	141126			0.54- 60.54	28.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.143)	83	1427266	50.0000	43.421	80.00- 120.00	100.00
11.741	11.741 (1.143)	85	918254			34.34- 94.34	64.34
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.625	12.625 (1.229)	75	1133401	50.0000	40.429	80.00- 120.00	100.00
12.625	12.625 (1.229)	77	363184			2.04- 62.04	32.04
12.625	12.625 (1.229)	39	941069			53.03- 113.03	83.03
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.256)	58	793157	50.0000	35.090	80.00- 120.00	100.00
12.902	12.902 (1.256)	43	2284809			251.14- 311.14	288.07
12.902	12.902 (1.256)	85	278244			2.33- 62.33	35.08
103 Toluene					CAS #: 108-88-3		
13.095	13.095 (1.274)	91	2352750	50.0000	42.834	80.00- 120.00	100.00
13.095	13.095 (1.274)	92	1416633			30.21- 90.21	60.21
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	1234518	50.0000	43.269	80.00- 120.00	100.00
13.621	13.621 (0.895)	77	386502			1.31- 61.31	31.31
13.621	13.621 (0.895)	39	961312			47.87- 107.87	77.87
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.897	13.897 (0.913)	97	751593	50.0000	45.249	80.00- 120.00	100.00
13.897	13.897 (0.913)	99	445494			29.27- 89.27	59.27
13.897	13.897 (0.913)	83	620120			52.51- 112.51	82.51
109 Tetrachloroethene					CAS #: 127-18-4		
13.953	13.953 (0.916)	166	843263	50.0000	47.799	80.00- 120.00	100.00
13.925	13.925 (0.915)	129	657055			47.92- 107.92	77.92
13.925	13.925 (0.915)	131	641778			46.11- 106.11	76.11
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	1021583	50.0000	38.969	80.00- 120.00	100.00
14.257	14.257 (0.936)	43	2198158			185.17- 245.17	215.17
14.257	14.257 (0.936)	100	165106			0.00- 45.68	16.16
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	1023240	50.0000	45.396	80.00- 120.00	100.00
14.423	14.423 (0.947)	127	820576			46.96- 106.96	80.19
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.588	14.588 (0.958)	107	1089846	50.0000	46.761	80.00- 120.00	100.00
14.588	14.588 (0.958)	109	989566			60.80- 120.80	90.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	1693936	50.0000	44.070	80.00- 120.00	100.00
15.252	15.252 (1.002)	114	540500			1.91- 61.91	31.91
15.252	15.252 (1.002)	77	1209084			41.38- 101.38	71.38
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	929095	50.0000	43.054	80.00- 120.00	100.00
15.363	15.363 (1.009)	91	3203098			309.90- 369.90	344.75
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	1206335	50.0000	43.472	80.00- 120.00	100.00
15.529	15.529 (1.020)	91	2595571			177.38- 237.38	215.16
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	1138183	50.0000	42.536	80.00- 120.00	100.00
16.054	16.054 (1.054)	91	2616347			199.87- 259.87	229.87
131 Styrene					CAS #: 100-42-5		
16.109	16.109 (1.058)	104	1631676	50.0000	39.615	80.00- 120.00	100.00
16.082	16.082 (1.056)	78	981960			30.18- 90.18	60.18
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	888275	50.0000	47.689	80.00- 120.00	100.00
16.358	16.358 (1.074)	171	462116			22.02- 82.02	52.02
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	3383744	50.0000	41.439	80.00- 120.00	100.00
16.524	16.524 (1.085)	120	756306			0.00- 53.14	22.35
16.496	16.496 (1.084)	51	513621			0.00- 45.39	15.18
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.966	16.966 (1.114)	83	1614254	50.0000	42.118	80.00- 120.00	100.00
16.966	16.966 (1.114)	85	1057973			35.54- 95.54	65.54
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	4104939	50.0000	44.458	80.00- 120.00	100.00
16.994	16.994 (1.116)	120	750137			0.00- 48.79	18.27
16.994	16.994 (1.116)	105	144342			0.00- 33.35	3.52
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	3657585	50.0000	45.582	80.00- 120.00	100.00
17.132	17.132 (1.125)	120	903760			0.00- 54.71	24.71
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	3527305	50.0000	46.445	80.00- 120.00	100.00
17.215	17.215 (1.131)	120	1415767			12.64- 72.64	40.14

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	3070205	50.0000	44.646	80.00- 120.00	100.00
17.602	17.602 (1.156)	120	1228529			10.01- 70.01	40.01
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.906	17.906 (1.176)	146	1473192	50.0000	49.321	80.00- 120.00	100.00
17.906	17.906 (1.176)	148	934576			32.20- 92.20	63.44
17.906	17.906 (1.176)	111	644087			13.28- 73.28	43.72
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.989	17.989 (1.182)	146	1848746	50.0000	48.537	80.00- 120.00	100.00
17.989	17.989 (1.182)	148	1171828			34.16- 94.16	63.39
17.989	17.989 (1.182)	111	891335			16.41- 76.41	48.21
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	2400760	50.0000	43.534	80.00- 120.00	100.00
18.128	18.128 (1.191)	126	402416			0.00- 46.97	16.76
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	1572268	50.0000	47.962	80.00- 120.00	100.00
18.321	18.321 (1.203)	148	966744			31.49- 91.49	61.49
18.321	18.321 (1.203)	111	793274			20.45- 80.45	50.45
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	927316	50.0000	45.426	80.00- 120.00	100.00
19.593	19.593 (1.287)	182	893683			66.37- 126.37	96.37
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	1325010	50.0000	50.814	80.00- 120.00	100.00
19.676	19.676 (1.292)	223	847344			33.95- 93.95	63.95
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	1507135	25.0000	23.106	80.00- 120.00	100.00
19.787	19.787 (1.300)	127	219455			0.00- 43.72	14.56

Report Date: 20-Apr-2007 10:35

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8042002.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 100ppbv-50ppbv

Calibration Date: 20-APR-2007
Calibration Time: 09:34
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	260063	156038	364088	260063	0.00
86 1,4-Difluorobenze	1089176	653506	1524846	1089176	0.00
123 Chlorobenzene-d5	818159	490895	1145423	818159	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.39	0.00
86 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	0.00

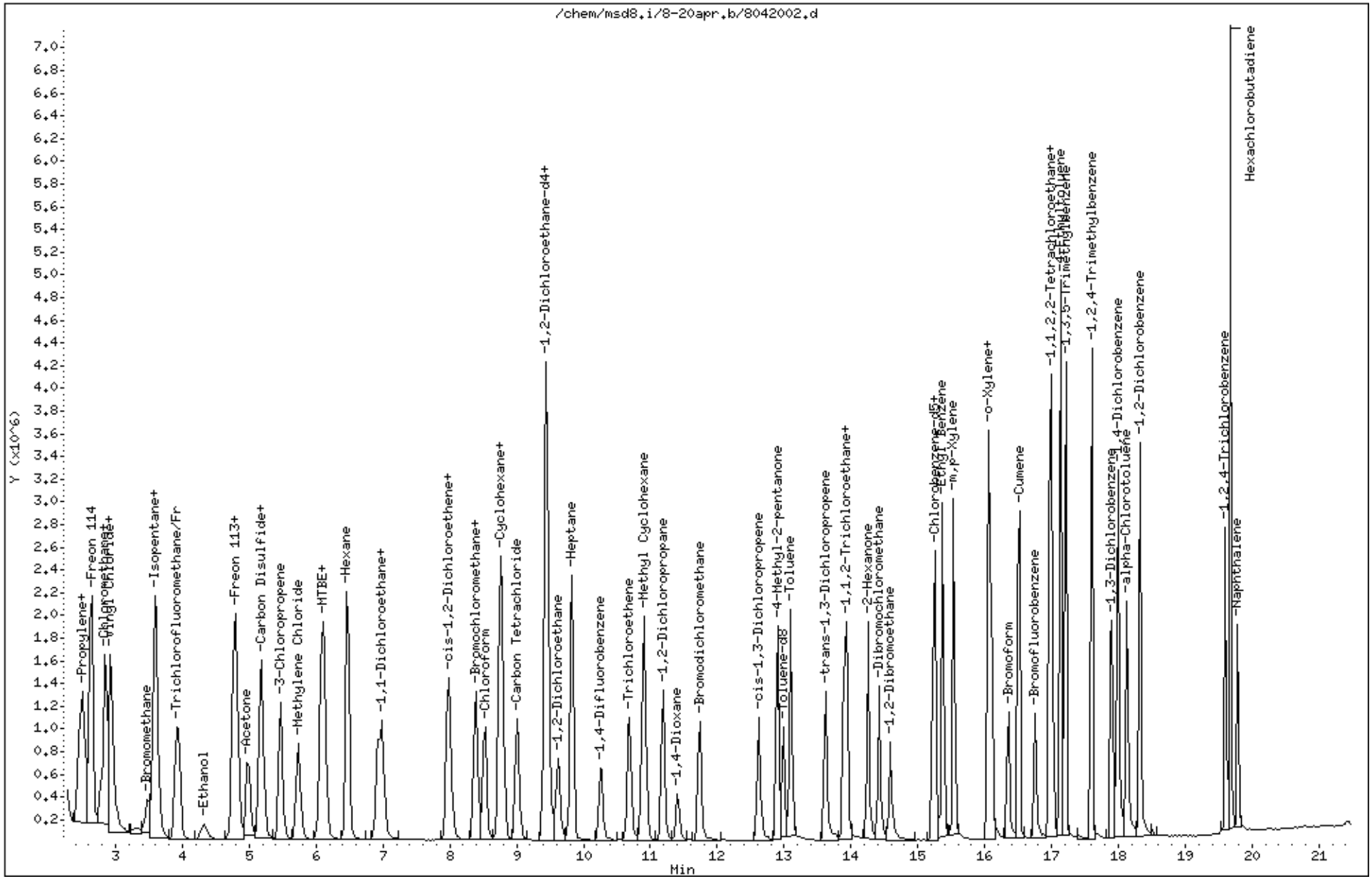
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0162

Data File: /chem/msd8.i/8-20apr.b/8042002.d
Date : 20-APR-2007 09:34
Client ID: CCV-1
Sample Info: 100ml #1408-387A

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

Column phase: RTx-624



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0704313-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 10:01 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	96
Vinyl Chloride	99
Bromomethane	88
Chloroethane	80
Freon 11	97
1,1-Dichloroethene	104
Freon 113	107
Methylene Chloride	103
1,1-Dichloroethane	99
cis-1,2-Dichloroethene	94
Chloroform	85
1,1,1-Trichloroethane	96
Carbon Tetrachloride	98
Benzene	89
1,2-Dichloroethane	106
Trichloroethene	98
1,2-Dichloropropane	87
cis-1,3-Dichloropropene	90
Toluene	98
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	99
Tetrachloroethene	106
1,2-Dibromoethane (EDB)	102
Chlorobenzene	101
Ethyl Benzene	98
m,p-Xylene	96
o-Xylene	99
Styrene	95
1,1,2,2-Tetrachloroethane	95
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	120
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	114
1,3-Butadiene	90
Hexane	91
Cyclohexane	86

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0704313-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**8042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/07 10:01 AM**	

Compound	**%Recovery**
Heptane	90
Bromodichloromethane	95
Dibromochloromethane	105
Cumene	96
Propylbenzene	107
Chloromethane	102
1,2,4-Trichlorobenzene	135 Q
Hexachlorobutadiene	110
Acetone	95
Carbon Disulfide	95
2-Propanol	100
trans-1,2-Dichloroethene	93
2-Butanone (Methyl Ethyl Ketone)	82
Tetrahydrofuran	79
1,4-Dioxane	93
4-Methyl-2-pentanone	77
2-Hexanone	92
Bromoform	112
4-Ethyltoluene	112
Ethanol	122
Methyl tert-butyl ether	90
3-Chloropropene	102
2,2,4-Trimethylpentane	85
Naphthalene	109

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	108	70-130

Report Date: 20-Apr-2007 10:48

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 8-20apr
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: JG
Data Type: MS DATA SampleType: LCS
SpikeList File: Spectra.spk Quant Type: ISTD
Sublist File: AT04+ENS.sub
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 200ppbv-50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
131 Styrene	50.000	47.312	94.62	70-130
106 trans-1,3-Dichloro	50.000	47.766	95.53	70-130
4 Dichlorodifluorome	50.000	46.231	92.46	70-130
6 Freon 114	50.000	47.814	95.63	70-130
8 Chloromethane	50.000	51.260	102.52	70-130
10 Vinyl Chloride	50.000	49.698	99.40	70-130
11 1,3-Butadiene	50.000	45.187	90.37	60-140
13 Bromomethane	50.000	43.853	87.71	70-130
16 Chloroethane	50.000	39.914	79.83	70-130
18 Trichlorofluoromet	50.000	48.344	96.69	70-130
21 Ethanol	50.000	61.210	122.42	60-140
27 Freon 113	50.000	53.639	107.28	70-130
29 1,1-Dichloroethene	50.000	52.046	104.09	70-130
30 Acetone	50.000	47.352	94.70	60-140
33 Carbon Disulfide	50.000	47.531	95.06	60-140
34 2-Propanol	50.000	49.848	99.70	60-140
39 Methylene Chloride	50.000	51.407	102.81	70-130
42 MTBE	50.000	45.131	90.26	60-140
43 trans-1,2-Dichloro	50.000	46.486	92.97	60-140
45 Hexane	50.000	45.512	91.02	60-140
52 1,1-Dichloroethane	50.000	49.311	98.62	70-130
63 cis-1,2-Dichloroet	50.000	47.282	94.56	70-130
64 2-Butanone	50.000	41.231	82.46	60-140
66 Tetrahydrofuran	50.000	39.624	79.25	60-140
69 Chloroform	50.000	42.354	84.71	70-130
72 Cyclohexane	50.000	42.887	85.77	60-140
73 1,1,1-Trichloroeth	50.000	47.782	95.56	70-130
75 Carbon Tetrachlori	50.000	48.938	97.88	70-130
79 Benzene	50.000	44.583	89.17	70-130
81 1,2-Dichloroethane	50.000	52.822	105.64	70-130
82 Heptane	50.000	45.129	90.26	60-140
92 Trichloroethene	50.000	49.075	98.15	70-130
95 1,2-Dichloropropan	50.000	43.460	86.92	70-130

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
96 1,4-Dioxane	50.000	46.602	93.20	60-140
98 Bromodichlorometha	50.000	47.429	94.86	60-140
100 cis-1,3-Dichloropr	50.000	44.986	89.97	70-130
101 4-Methyl-2-pentano	50.000	38.427	76.85	60-140
103 Toluene	50.000	48.832	97.66	70-130
108 1,1,2-Trichloroeth	50.000	49.706	99.41	70-130
109 Tetrachloroethene	50.000	53.144	106.29	70-130
112 2-Hexanone	50.000	46.114	92.23	60-140
114 Dibromochlorometha	50.000	52.698	105.40	60-140
115 1,2-Dibromoethane	50.000	51.022	102.04	70-130
124 Chlorobenzene	50.000	50.384	100.77	70-130
127 Ethyl Benzene	50.000	48.839	97.68	70-130
128 m,p-Xylene	50.000	48.108	96.22	70-130
130 o-Xylene	50.000	49.337	98.67	70-130
133 Bromoform	50.000	55.908	111.82	60-140
142 1,1,2,2-Tetrachlor	50.000	47.642	95.29	70-130
145 4-Ethyltoluene	50.000	56.088	112.18	60-140
146 1,3,5-Trimethylben	50.000	49.044	98.09	70-130
151 1,2,4-Trimethylben	50.000	49.205	98.41	70-130
154 1,3-Dichlorobenzen	50.000	55.229	110.46	70-130
155 1,4-Dichlorobenzen	50.000	59.960	119.92	70-130
156 alpha-Chlorotoluen	50.000	60.828	121.66	70-130
158 1,2-Dichlorobenzen	50.000	57.014	114.03	70-130
163 1,2,4-Trichloroben	50.000	67.590	135.18*	70-130
164 Hexachlorobutadien	50.000	55.084	110.17	70-130
135 Cumene	50.000	47.866	95.73	60-140
143 Propylbenzene	50.000	53.521	107.04	60-140
37 3-Chloropropene	50.000	51.148	102.30	60-140
78 2,2,4-Trimethylpen	50.000	42.378	84.76	60-140
165 Naphthalene	50.000	54.614	109.23	60-140

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 80 1,2-Dichloroethane	25.000	24.513	98.05	70-130
$ 102 Toluene-d8	25.000	24.060	96.24	70-130
$ 138 Bromofluorobenzene	25.000	26.951	107.80	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14A/TO15

Data file : /chem/msd8.i/8-20apr.b/8042003.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 20-APR-2007 10:01
Operator : JG Inst ID: msd8.i
Smp Info : 50mL #1487-194
Misc Info : 200ppbv-50ppbv
Comment :
Method : /var/chem/msd8.i/8-20apr.b/t14q322b.m
Meth Date : 20-Apr-2007 10:35 jgray Quant Type: ISTD
Cal Date : 26-MAR-2007 13:11 Cal File: 8032608.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04+ENS.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
* 67 Bromochloromethane					CAS #: 74-97-5		
8.368	8.395 (1.000)	130	178911	25.0000		80.00- 120.00	100.00
8.368	8.395 (1.000)	128	142524			44.60- 104.60	79.66
8.368	8.395 (1.000)	49	495148			247.01- 307.01	276.76
* 86 1,4-Difluorobenzene					CAS #: 540-36-3		
10.248	10.275 (1.000)	114	798735	25.0000		80.00- 120.00	100.00
10.248	10.248 (1.000)	88	147164			0.00- 48.93	18.42
* 123 Chlorobenzene-d5					CAS #: 3114-55-4		
15.225	15.224 (1.000)	117	593316	25.0000		80.00- 120.00	100.00
15.197	15.224 (1.000)	82	404560			35.49- 95.49	68.19
$ 80 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
9.474	9.473 (1.132)	65	379094	24.5130	24.513	80.00- 120.00	100.00
9.474	9.473 (1.132)	67	216891			27.92- 87.92	57.21
$ 102 Toluene-d8					CAS #: 2037-26-5		
12.985	12.985 (1.267)	98	755744	24.0598	24.060	80.00- 120.00	100.00
12.985	12.985 (1.267)	70	94205			0.00- 42.61	12.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 102 Toluene-d8 (continued)							
12.985	12.985 (1.267)	100	535641			40.27- 100.27	70.88
$ 138 Bromofluorobenzene					CAS #: 460-00-4		
16.745	16.773 (1.100)	174	327700	26.9511	26.951	80.00- 120.00	100.00
16.745	16.745 (1.100)	95	571476			144.30- 204.30	174.39
16.745	16.773 (1.100)	176	309398			70.67- 130.67	94.42
3 Propylene					CAS #: 115-07-1		
2.395	2.450 (0.286)	41	970490	51.2669	51.267	80.00- 120.00	100.00
2.395	2.450 (0.286)	42	647831			35.20- 95.20	66.75
2.395	2.450 (0.286)	39	698050			42.80- 102.80	71.93
4 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
2.451	2.506 (0.293)	85	1849877	46.2311	46.231	80.00- 120.00	100.00
2.451	2.506 (0.293)	87	586203			1.89- 61.89	31.69
6 Freon 114					CAS #: 76-14-2		
2.589	2.644 (0.309)	135	1085107	47.8143	47.814	80.00- 120.00	100.00
2.589	2.644 (0.309)	137	328762			1.53- 61.53	30.30
8 Chloromethane					CAS #: 74-87-3		
2.727	2.782 (0.326)	50	1055266	51.2600	51.260	80.00- 120.00	100.00
2.727	2.782 (0.326)	52	310027			0.00- 59.46	29.38
9 Butane					CAS #: 106-97-8		
2.810	2.865 (0.336)	58	259757	48.4844	48.484	80.00- 120.00	100.00
2.810	2.837 (0.336)	43	2112485			772.78- 832.78	813.25
10 Vinyl Chloride					CAS #: 75-01-4		
2.893	2.948 (0.346)	62	961026	49.6986	49.698	80.00- 120.00	100.00
2.893	2.948 (0.346)	64	284712			0.33- 60.33	29.63
11 1,3-Butadiene					CAS #: 106-99-0		
2.893	2.920 (0.346)	54	906110	45.1871	45.187	80.00- 120.00	100.00
2.865	2.920 (0.342)	39	1056509			86.60- 146.60	116.60
13 Bromomethane					CAS #: 74-83-9		
3.418	3.473 (0.409)	94	463551	43.8528	43.853	80.00- 120.00	100.00
3.418	3.473 (0.409)	96	427809			61.20- 121.20	92.29
15 Isopentane					CAS #: 78-78-4		
3.557	3.584 (0.425)	43	1593968	48.1781	48.178	80.00- 120.00	100.00
3.557	3.584 (0.425)	57	928190			27.51- 87.51	58.23
3.557	3.584 (0.425)	72	94468			0.00- 35.95	5.93

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
16 Chloroethane					CAS #: 75-00-3		
3.557	3.639 (0.425)	64	401919	39.9137	39.914	80.00- 120.00	100.00
3.557	3.639 (0.425)	49	131080			2.42- 62.42	32.61
3.557	3.639 (0.425)	66	129159			0.00- 58.92	32.14
18 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
3.888	3.943 (0.465)	101	1732714	48.3445	48.344	80.00- 120.00	100.00
3.888	3.943 (0.465)	103	1104303			33.94- 93.94	63.73
21 Ethanol					CAS #: 64-17-5		
4.248	4.331 (0.508)	45	498006	61.2095	61.210	80.00- 120.00	100.00
4.248	4.331 (0.508)	43	102693			0.00- 50.43	20.62
4.248	4.331 (0.508)	46	206175			12.21- 72.21	41.40
27 Freon 113					CAS #: 76-13-1		
4.745	4.773 (0.567)	151	910367	53.6391	53.639	80.00- 120.00	100.00
4.745	4.773 (0.567)	153	580261			33.69- 93.69	63.74
4.745	4.773 (0.567)	101	1395702			127.64- 187.64	153.31
29 1,1-Dichloroethene					CAS #: 75-35-4		
4.773	4.801 (0.570)	61	1503578	52.0463	52.046	80.00- 120.00	100.00
4.773	4.828 (0.570)	96	681583			15.82- 75.82	45.33
4.773	4.828 (0.570)	98	437144			0.00- 58.25	29.07
30 Acetone					CAS #: 67-64-1		
4.939	4.994 (0.590)	58	489245	47.3517	47.352	80.00- 120.00	100.00
4.939	4.966 (0.590)	43	1805259			337.35- 397.35	368.99
33 Carbon Disulfide					CAS #: 75-15-0		
5.133	5.188 (0.613)	76	2115069	47.5306	47.531	80.00- 120.00	100.00
34 2-Propanol					CAS #: 67-63-0		
5.133	5.188 (0.613)	45	2017865	49.8484	49.848	80.00- 120.00	100.00
5.133	5.188 (0.613)	43	422348			0.00- 50.64	20.93
5.133	5.188 (0.613)	59	64868			0.00- 33.21	3.21
37 3-Chloropropene					CAS #: 107-05-1		
5.437	5.464 (0.650)	76	367554	51.1483	51.148	80.00- 120.00	100.00
5.437	5.464 (0.650)	41	1587695			414.53- 474.53	431.96
39 Methylene Chloride					CAS #: 75-09-2		
5.686	5.741 (0.679)	49	1262970	51.4075	51.407	80.00- 120.00	100.00
5.713	5.741 (0.683)	84	619835			17.41- 77.41	49.08
5.686	5.741 (0.679)	51	368499			0.00- 59.93	29.18
42 MTBE					CAS #: 1634-04-4		
6.045	6.072 (0.722)	73	2235016	45.1313	45.131	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
42 MTBE (continued)							
6.045	6.072 (0.722)	57	667891			0.00- 59.14	29.88
6.045	6.072 (0.722)	41	726305			1.95- 61.95	32.50
43 trans-1,2-Dichloroethene					CAS #: 156-60-5		
6.100	6.128 (0.729)	96	686305	46.4866	46.486	80.00- 120.00	100.00
6.100	6.128 (0.729)	61	1330005			166.47- 226.47	193.79
6.100	6.128 (0.729)	98	437408			34.71- 94.71	63.73
45 Hexane					CAS #: 110-54-3		
6.432	6.460 (0.769)	57	1653957	45.5121	45.512	80.00- 120.00	100.00
6.432	6.460 (0.769)	43	1262732			44.61- 104.61	76.35
6.460	6.460 (0.772)	86	225529			0.00- 43.77	13.64
52 1,1-Dichloroethane					CAS #: 75-34-3		
6.902	6.930 (0.825)	63	1513573	49.3114	49.311	80.00- 120.00	100.00
6.902	6.930 (0.825)	65	454388			0.06- 60.06	30.02
54 Vinyl Acetate					CAS #: 108-05-4		
6.957	6.985 (0.831)	86	182231	49.9115	49.911	80.00- 120.00	100.00
6.957	6.985 (0.831)	43	2772228			1469.62-1529.62	1521.27
6.957	6.985 (0.831)	42	237926			100.08- 160.08	130.56
63 cis-1,2-Dichloroethene					CAS #: 156-59-2		
7.953	7.953 (0.950)	61	1104187	47.2824	47.282	80.00- 120.00	100.00
7.953	7.953 (0.950)	96	632511			27.17- 87.17	57.28
7.953	7.953 (0.950)	98	393342			5.44- 65.44	35.62
64 2-Butanone					CAS #: 78-93-3		
7.980	8.008 (0.954)	72	345444	41.2313	41.231	80.00- 120.00	100.00
7.980	8.008 (0.954)	43	2044249			547.36- 607.36	591.77
7.980	8.008 (0.954)	57	144746			10.61- 70.61	41.90
66 Tetrahydrofuran					CAS #: 109-99-9		
8.368	8.367 (1.000)	42	1236072	39.6244	39.624	80.00- 120.00	100.00
8.368	8.395 (1.000)	71	299801			0.00- 55.69	24.25
8.368	8.395 (1.000)	72	337915			0.00- 56.52	27.34
69 Chloroform					CAS #: 67-66-3		
8.506	8.533 (1.017)	83	1246084	42.3545	42.354	80.00- 120.00	100.00
8.506	8.533 (1.017)	85	783553			34.19- 94.19	62.88
72 Cyclohexane					CAS #: 110-82-7		
8.727	8.754 (1.043)	84	940513	42.8867	42.887	80.00- 120.00	100.00
8.727	8.754 (1.043)	56	1519726			138.81- 198.81	161.58
8.727	8.754 (1.043)	41	939765			71.39- 131.39	99.92

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
73 1,1,1-Trichloroethane					CAS #: 71-55-6		
8.755	8.782 (1.046)	97	1269198	47.7821	47.782	80.00- 120.00	100.00
8.755	8.782 (1.046)	99	797855			34.02- 94.02	62.86
75 Carbon Tetrachloride					CAS #: 56-23-5		
9.004	9.003 (1.076)	119	1049961	48.9384	48.938	80.00- 120.00	100.00
9.004	9.003 (1.076)	117	1176520			84.11- 144.11	112.05
78 2,2,4-Trimethylpentane					CAS #: 540-84-1		
9.418	9.446 (1.126)	57	4336357	42.3779	42.378	80.00- 120.00	100.00
9.418	9.446 (1.126)	56	1521223			4.45- 64.45	35.08
9.418	9.446 (1.126)	41	1350524			0.00- 59.44	31.14
79 Benzene					CAS #: 71-43-2		
9.418	9.446 (0.919)	78	1983331	44.5835	44.583	80.00- 120.00	100.00
9.418	9.446 (0.919)	77	482105			0.00- 54.39	24.31
81 1,2-Dichloroethane					CAS #: 107-06-2		
9.612	9.612 (0.938)	62	1100444	52.8220	52.822	80.00- 120.00	100.00
9.612	9.612 (0.938)	64	331468			1.44- 61.44	30.12
82 Heptane					CAS #: 142-82-5		
9.805	9.833 (0.957)	100	239811	45.1291	45.129	80.00- 120.00	100.00
9.805	9.833 (0.957)	43	1848290			789.66- 849.66	770.73
9.805	9.833 (0.957)	71	722239			294.27- 354.27	301.17
92 Trichloroethene					CAS #: 79-01-6		
10.662	10.690 (1.040)	95	702214	49.0749	49.075	80.00- 120.00	100.00
10.662	10.690 (1.040)	130	599089			58.62- 118.62	85.31
10.662	10.690 (1.040)	97	443409			34.33- 94.33	63.14
93 Methyl Cyclohexane					CAS #: 108-87-2		
10.884	10.911 (1.301)	83	1115577	40.6688	40.669	80.00- 120.00	100.00
10.884	10.911 (1.301)	98	520725			15.00- 75.00	46.68
10.884	10.911 (1.301)	55	1290924			87.18- 147.18	115.72
95 1,2-Dichloropropane					CAS #: 78-87-5		
11.188	11.188 (1.092)	63	708469	43.4596	43.460	80.00- 120.00	100.00
11.188	11.188 (1.092)	62	534106			47.20- 107.20	75.39
11.188	11.188 (1.092)	41	591028			54.11- 114.11	83.42
96 1,4-Dioxane					CAS #: 123-91-1		
11.409	11.409 (1.113)	88	396044	46.6022	46.602	80.00- 120.00	100.00
11.409	11.409 (1.113)	58	382959			61.53- 121.53	96.70
11.409	11.409 (1.113)	57	124315			0.54- 60.54	31.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
98 Bromodichloromethane					CAS #: 75-27-4		
11.741	11.741 (1.146)	83	1143281	47.4288	47.429	80.00- 120.00	100.00
11.741	11.741 (1.146)	85	731575			34.34- 94.34	63.99
100 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
12.626	12.625 (1.232)	75	924846	44.9859	44.986	80.00- 120.00	100.00
12.626	12.625 (1.232)	77	300008			2.04- 62.04	32.44
12.598	12.625 (1.229)	39	752940			53.03- 113.03	81.41
101 4-Methyl-2-pentanone					CAS #: 108-10-1		
12.902	12.902 (1.259)	58	636965	38.4272	38.427	80.00- 120.00	100.00
12.902	12.902 (1.259)	43	1973285			251.14- 311.14	309.79
12.902	12.902 (1.259)	85	223829			2.33- 62.33	35.14
103 Toluene					CAS #: 108-88-3		
13.096	13.095 (1.278)	91	1966971	48.8318	48.832	80.00- 120.00	100.00
13.096	13.095 (1.278)	92	1189980			30.21- 90.21	60.50
106 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
13.621	13.621 (0.895)	75	988300	47.7665	47.766	80.00- 120.00	100.00
13.621	13.621 (0.895)	77	319879			1.31- 61.31	32.37
13.621	13.621 (0.895)	39	777389			47.87- 107.87	78.66
108 1,1,2-Trichloroethane					CAS #: 79-00-5		
13.870	13.897 (0.911)	97	598724	49.7058	49.706	80.00- 120.00	100.00
13.870	13.897 (0.911)	99	369812			29.27- 89.27	61.77
13.870	13.897 (0.911)	83	514978			52.51- 112.51	86.01
109 Tetrachloroethene					CAS #: 127-18-4		
13.925	13.953 (0.915)	166	679904	53.1440	53.144	80.00- 120.00	100.00
13.925	13.925 (0.915)	129	542376			47.92- 107.92	79.77
13.925	13.925 (0.915)	131	511557			46.11- 106.11	75.24
112 2-Hexanone					CAS #: 591-78-6		
14.257	14.257 (0.936)	58	876667	46.1143	46.114	80.00- 120.00	100.00
14.257	14.257 (0.936)	43	1905801			185.17- 245.17	217.39
14.257	14.257 (0.936)	100	144085			0.00- 45.68	16.44
114 Dibromochloromethane					CAS #: 124-48-1		
14.423	14.423 (0.947)	129	861390	52.6981	52.698	80.00- 120.00	100.00
14.423	14.423 (0.947)	127	682281			46.96- 106.96	79.21
115 1,2-Dibromoethane					CAS #: 106-93-4		
14.589	14.588 (0.958)	107	862348	51.0216	51.022	80.00- 120.00	100.00
14.589	14.588 (0.958)	109	797373			60.80- 120.80	92.47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
124 Chlorobenzene					CAS #: 108-90-7		
15.252	15.252 (1.002)	112	1404406	50.3840	50.384	80.00- 120.00	100.00
15.252	15.252 (1.002)	114	440779			1.91- 61.91	31.39
15.252	15.252 (1.002)	77	973278			41.38- 101.38	69.30
127 Ethyl Benzene					CAS #: 100-41-4		
15.363	15.363 (1.009)	106	764300	48.8395	48.839	80.00- 120.00	100.00
15.363	15.363 (1.009)	91	2646199			309.90- 369.90	346.23
128 m,p-Xylene					CAS #: 108-38-3		
15.529	15.529 (1.020)	106	968111	48.1085	48.108	80.00- 120.00	100.00
15.529	15.529 (1.020)	91	2132732			177.38- 237.38	220.30
130 o-Xylene					CAS #: 95-47-6		
16.054	16.054 (1.054)	106	957357	49.3369	49.337	80.00- 120.00	100.00
16.054	16.054 (1.054)	91	2177651			199.87- 259.87	227.46
131 Styrene					CAS #: 100-42-5		
16.082	16.109 (1.056)	104	1413180	47.3122	47.312	80.00- 120.00	100.00
16.082	16.082 (1.056)	78	867174			30.18- 90.18	61.36
133 Bromoform					CAS #: 75-25-2		
16.358	16.358 (1.074)	173	755191	55.9084	55.908	80.00- 120.00	100.00
16.358	16.358 (1.074)	171	391283			22.02- 82.02	51.81
135 Cumene					CAS #: 98-82-8		
16.524	16.524 (1.085)	105	2834439	47.8663	47.866	80.00- 120.00	100.00
16.524	16.524 (1.085)	120	646905			0.00- 53.14	22.82
16.497	16.496 (1.084)	51	439072			0.00- 45.39	15.49
142 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
16.967	16.966 (1.114)	83	1324172	47.6426	47.642	80.00- 120.00	100.00
16.967	16.966 (1.114)	85	832248			35.54- 95.54	62.85
143 Propylbenzene					CAS #: 103-65-1		
16.994	16.994 (1.116)	91	3583638	53.5210	53.521	80.00- 120.00	100.00
16.994	16.994 (1.116)	120	654811			0.00- 48.79	18.27
16.994	16.994 (1.116)	105	120863			0.00- 33.35	3.37
145 4-Ethyltoluene					CAS #: 622-96-8		
17.132	17.132 (1.125)	105	3263737	56.0875	56.088	80.00- 120.00	100.00
17.132	17.132 (1.125)	120	799616			0.00- 54.71	24.50
146 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
17.215	17.215 (1.131)	105	2701069	49.0442	49.044	80.00- 120.00	100.00
17.215	17.215 (1.131)	120	1106237			12.64- 72.64	40.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
151 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
17.602	17.602 (1.156)	105	2453821	49.2047	49.205	80.00- 120.00	100.00
17.602	17.602 (1.156)	120	957629			10.01- 70.01	39.03
154 1,3-Dichlorobenzene					CAS #: 541-73-1		
17.907	17.906 (1.176)	146	1196290	55.2286	55.229	80.00- 120.00	100.00
17.907	17.906 (1.176)	148	828819			32.20- 92.20	69.28
17.879	17.906 (1.174)	111	551074			13.28- 73.28	46.07
155 1,4-Dichlorobenzene					CAS #: 106-46-7		
17.990	17.989 (1.182)	146	1656189	59.9599	59.960	80.00- 120.00	100.00
17.990	17.989 (1.182)	148	990846			34.16- 94.16	59.83
17.990	17.989 (1.182)	111	720930			16.41- 76.41	43.53
156 alpha-Chlorotoluene					CAS #: 100-44-7		
18.128	18.128 (1.191)	91	2432599	60.8286	60.828	80.00- 120.00	100.00
18.128	18.128 (1.191)	126	413688			0.00- 46.97	17.01
158 1,2-Dichlorobenzene					CAS #: 95-50-1		
18.321	18.321 (1.203)	146	1355372	57.0139	57.014	80.00- 120.00	100.00
18.321	18.321 (1.203)	148	799065			31.49- 91.49	58.96
18.321	18.321 (1.203)	111	703152			20.45- 80.45	51.88
163 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
19.593	19.593 (1.287)	180	1000590	67.5905	67.590	80.00- 120.00	100.00(R)
19.593	19.593 (1.287)	182	967989			66.37- 126.37	96.74
164 Hexachlorobutadiene					CAS #: 87-68-3		
19.676	19.676 (1.292)	225	1041604	55.0836	55.084	80.00- 120.00	100.00
19.676	19.676 (1.292)	223	666475			33.95- 93.95	63.99
165 Naphthalene					CAS #: 91-20-3		
19.787	19.787 (1.300)	128	2583342	54.6142	54.614	80.00- 120.00	100.00
19.787	19.787 (1.300)	127	357728			0.00- 43.72	13.85

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 20-Apr-2007 10:48

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msd8.i
Lab File ID: 8042003.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: JG
Method File: /var/chem/msd8.i/8-20apr.b/t14q322b.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 20-APR-2007
Calibration Time: 09:34
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

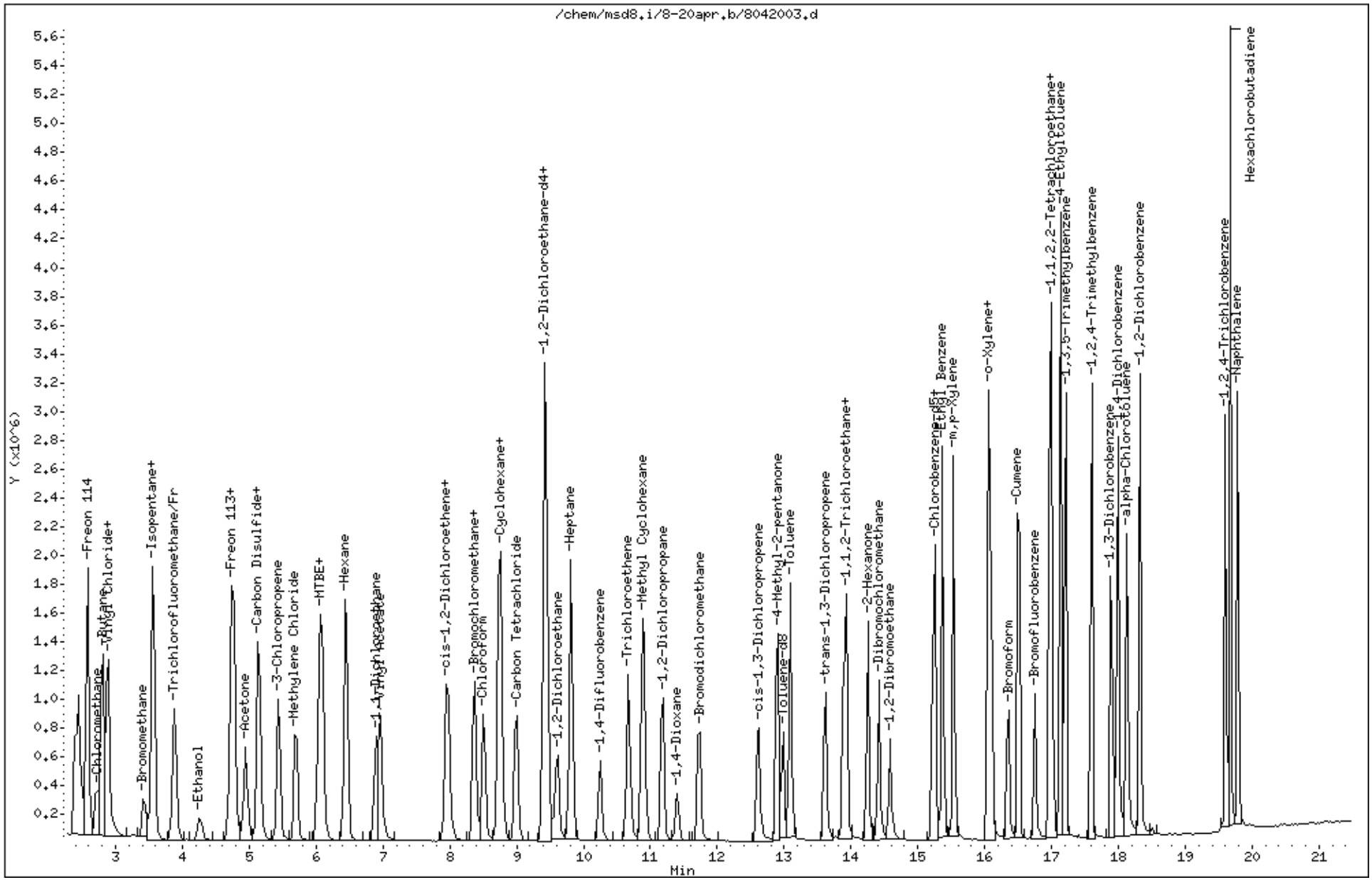
		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	260063	156038	364088	178911	-31.20
86 1,4-Difluorobenze	1089176	653506	1524846	798735	-26.67
123 Chlorobenzene-d5	818159	490895	1145423	593316	-27.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
67 Bromochloromethan	8.39	8.06	8.72	8.37	-0.33
86 1,4-Difluorobenze	10.28	9.95	10.61	10.25	-0.27
123 Chlorobenzene-d5	15.22	14.89	15.55	15.22	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/8-20apr.b/8042003.d
Date : 20-APR-2007 10:01
Client ID: LCS-1
Sample Info: 50mL #1487-194

Instrument: msd8.i
Operator: JG
Column phase: RTx-624
Column diameter: 0.53



0176

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MSD-8

Logbook #: 1478

0177

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	33.19
75	30.0 – 60.0% of mass 95	56.81
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.59
173	Less than 2.0% of mass 174	(0.00)[1]
174	Greater than 50.0% of mass 95	59.08
175	5.0 – 9.0% of mass 174	(7.98)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(98.13)[1]
177	5.0 – 9.0% of mass 176	(6.52)[2]

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

BFB Injection Date: 4/20/07
BFB Injection Time: 0912
BFB File ID: 8042001
Tekmar Purge Flow:
Vacuum: 4/20/07

IS/S Std.#:	1443-3	Exp. Date: 5/20/07
BCM	260063	
1,4-DFB	1089176	
CB-d5	818159	

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

Verify 176/174 m/z Ratio: 788416 / 803392 · 100 = 98.14%

NOAH Cart #: 8/11 **File #:** u041908/u042008

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1026970\ )}{(\ 1089176\ )} \times \frac{(\ 25\ )}{(\ 0.98315\ )} =$ 23.976

Reported Result 23.976

File ID:	8042002
Compound:	Tol-d8
Initials:	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Loader Init.	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	8042001	BFB Time Check	6443-2912	50 ng	2 µL	1.00		4/20/07	0912		
2	✓	02	CCV # 1408-387A	100 ppbv	50 ppbv	100 mL				0934		
3	✓	03	LCS # 1487-194	200 ppbv	50 ppbv	50 mL				1001		
4	X	04	System Blank	13673	Humid	200 mL				1122		
5	X	05	Lab Blank							1151		
6	X	06	Lab Blank							1258		
7	✓	07	Lab Blank							1327		
8	✓	08	0704299-01A	34342	0.0"Hg→5.0psi	200mL	1.34	RM		1614	AM/RM	
9	✓	09	0704313-01A	31431	29.0"Hg→5.0psi	↓	3.65	↓	↓	1705	AM/RM	

Signature

4/20/07
Date

10	✓	8042010	0704373-02A	24228	19.0"Hg→5.0psi	200mL	3.65	RL	4/20/07	1747	RL/JL		
11	✓	11	0704332-01A	35164	10.0"Hg→5.0psi		2.01			1829	RL/JL		
12	✓	12	-02A	4191	0.0"Hg→5.0psi		1.34			1912	RL/		
13	✓	13	-03A	33329	5.0"Hg→5.0psi		1.61			1954	RL/		
14	✓	14	-04A	33800	0.0"Hg→5.0psi		1.34			2037	RL/		
15	✓	15	-05A	33865	29."Hg→5.0psi		1.00			2119	RL/	Field Blank	
16	✓	16	0704299-01AA	34342	0.0"Hg→5.0psi	200mL	1.34	KR		2206	RL/JL		
17	✓	17	0704354A-01A	30850	0.0"Hg-5psi		1.34		4-21-07	0005	KR		
18	✓	18	-02A	25266	8.0"Hg-5psi		1.83			0047	KR		
19	✓	19	-03A	10771	2.0"Hg-5psi		1.39			0130	KR		
20	✓	20	-04A	34009	0.0"Hg-5psi		1.34			0212	KR		
21	✓	21	-05A	14112	0.0"Hg-5psi		1.34			0254	KR		
22	✓	22	-06A	12721	0.5"Hg-5psi		1.36			0337	KR		
23	✓	23	-07A	34483	0.5"Hg-5psi		1.36			0419	KR		
24	✓	24	-08A	TO-1593	0.0"Hg-5psi		1.34			0538	KR		
25													
26													
27													
28													
29													
30													
31													
32													

4/23/07

Comments:

Signature

4/23/07
Date

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-22mar.b/8032201.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 22-MAR-2007 09:29
Operator : srs Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2786
Comment :
Method : /var/chem/msd8.i/8-22mar.b/bfb30.m
Meth Date : 22-Mar-2007 09:23 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		
3.803	3.748	0.055	95	1175749			100.00- 100.00	100.00
3.803	3.748	0.055	50	367505			15.00- 40.00	31.26
3.803	3.748	0.055	75	659620			30.00- 60.00	56.10
3.803	3.748	0.055	96	74114			5.00- 9.00	6.30
3.803	3.748	0.055	173	176			0.00- 2.00	0.03
3.803	3.748	0.055	174	701792			50.00- 100.00	59.69
3.803	3.748	0.055	175	44998			5.00- 9.00	6.41
3.803	3.748	0.055	176	675517			95.00- 101.00	96.26
3.803	3.748	0.055	177	43845			5.00- 9.00	6.49

Data File: /var/chem/msd8.i/8-22mar.b/8032201.d

Date : 22-MAR-2007 09:29

Client ID: BFB

Instrument: msd8.i

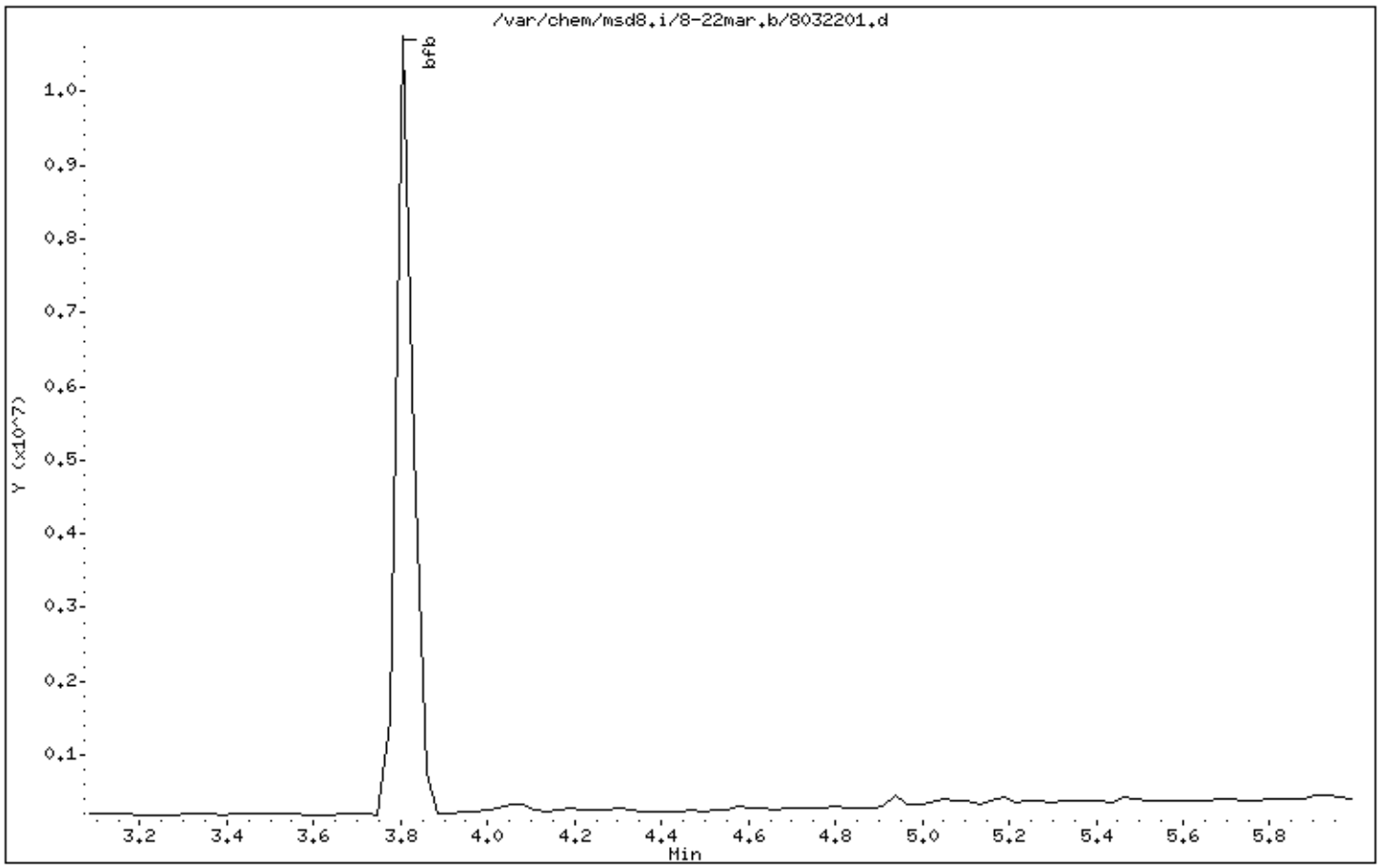
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: srs

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-22mar.b/8032201.d

Date : 22-MAR-2007 09:29

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

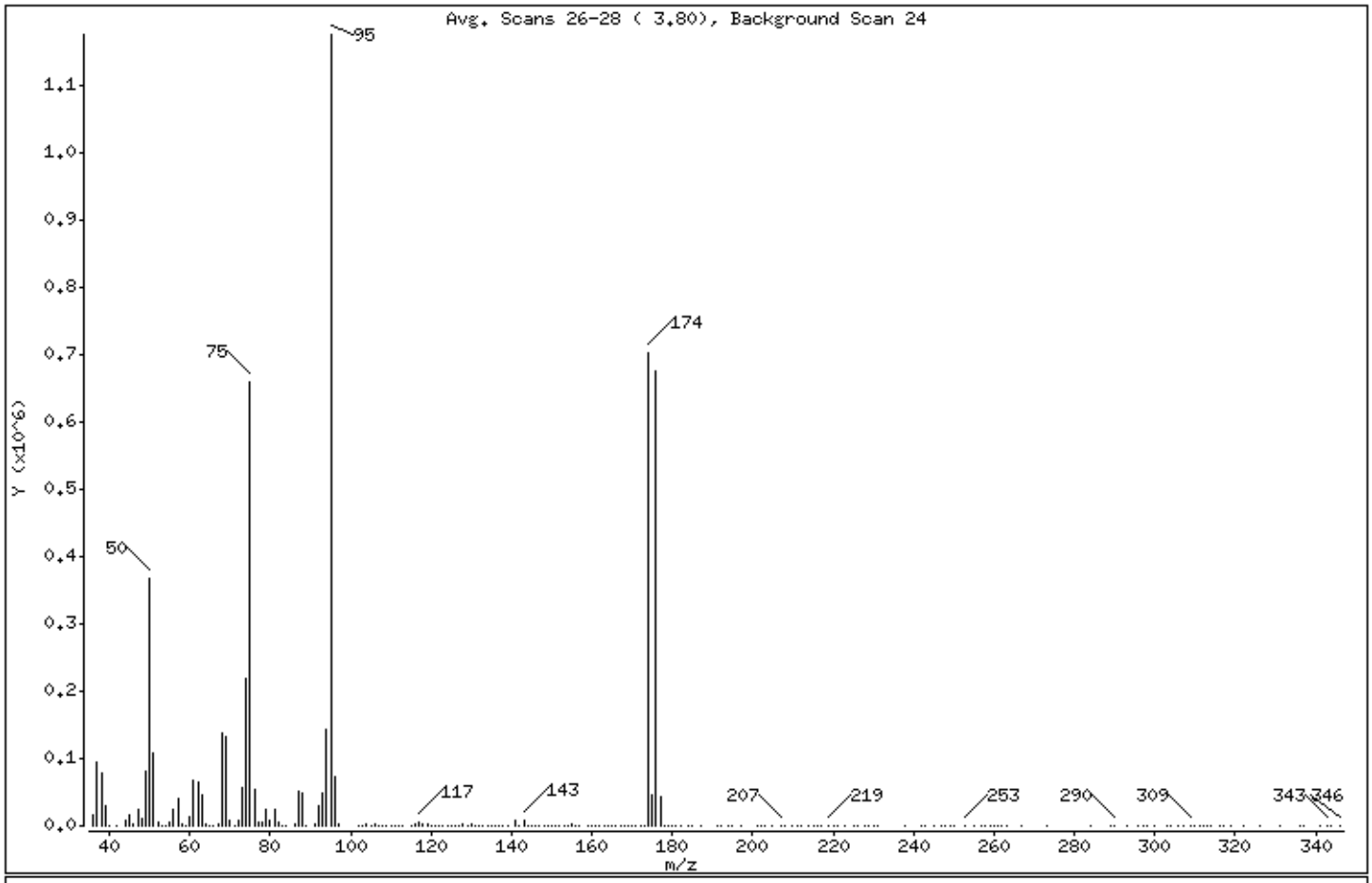
Volume Injected (uL): 2.0

Operator: srs

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	31.26
75	30.00 - 60.00% of mass 95	56.10
96	5.00 - 9.00% of mass 95	6.30
173	Less than 2.00% of mass 174	0.01 (0.03)
174	50.00 - 100.00% of mass 95	59.69
175	5.00 - 9.00% of mass 174	3.83 (6.41)
176	95.00 - 101.00% of mass 174	57.45 (96.26)
177	5.00 - 9.00% of mass 176	3.73 (6.49)

Date : 22-MAR-2007 09:29

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8032201.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	17368	95.00	1175552	156.00	547	230.00	147
37.00	95296	96.00	74112	157.00	1221	231.00	120
38.00	79344	97.00	1966	159.00	1076	238.00	137
39.00	30888	102.00	374	160.00	412	242.00	192
40.00	1004	103.00	713	161.00	978	243.00	158
42.00	747	104.00	3265	162.00	76	245.00	103
44.00	8653	105.00	1211	163.00	156	247.00	145
45.00	14978	106.00	3258	164.00	185	248.00	153
46.00	1377	107.00	1067	165.00	212	249.00	152
47.00	24584	108.00	211	166.00	512	250.00	70
48.00	10631	109.00	364	167.00	233	253.00	677
49.00	81272	110.00	373	168.00	477	255.00	60
50.00	367488	111.00	793	169.00	450	257.00	111
51.00	109000	112.00	548	170.00	961	258.00	314
52.00	4533	113.00	829	171.00	617	259.00	138
53.00	295	115.00	620	172.00	200	260.00	411
54.00	656	116.00	2850	173.00	176	261.00	201
55.00	4277	117.00	4491	174.00	701760	262.00	199
56.00	23336	118.00	3301	175.00	44992	263.00	144
57.00	39272	119.00	3137	176.00	675456	267.00	241
58.00	1897	120.00	285	177.00	43840	273.00	69
59.00	523	121.00	749	178.00	1250	284.00	162
60.00	14828	122.00	199	179.00	221	289.00	71
61.00	68712	123.00	280	180.00	99	290.00	167
62.00	64208	124.00	489	181.00	96	293.00	90
63.00	46984	125.00	96	182.00	48	296.00	181
64.00	4051	126.00	136	184.00	158	297.00	152
65.00	326	127.00	288	185.00	75	298.00	89
66.00	502	128.00	2354	187.00	233	300.00	159
67.00	1549	129.00	1080	191.00	383	303.00	180
68.00	136640	130.00	2707	192.00	28	304.00	82
69.00	131392	131.00	1090	194.00	245	306.00	188
70.00	8582	132.00	77	195.00	83	307.00	71
71.00	1100	133.00	759	197.00	112	309.00	220
72.00	7269	134.00	381	201.00	76	310.00	73

Date : 22-MAR-2007 09:29

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: srs

Column phase: Column diameter: 0.53

Data File: 8032201.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 216

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	57272	135.00	1208	202.00	314	311.00	185
74.00	219264	136.00	521	203.00	77	312.00	76
75.00	659584	137.00	1129	205.00	105	313.00	40
76.00	55072	138.00	58	207.00	644	314.00	151
77.00	6210	139.00	602	208.00	178	316.00	68
78.00	4088	141.00	8415	210.00	259	317.00	69
79.00	25056	142.00	737	211.00	74	319.00	72
80.00	8805	143.00	9048	212.00	88	322.00	40
81.00	25072	144.00	821	214.00	182	326.00	78
82.00	5117	145.00	1133	215.00	73	331.00	79
83.00	380	146.00	882	216.00	224	336.00	74
84.00	413	147.00	301	217.00	176	337.00	101
86.00	1542	148.00	1337	219.00	301	341.00	103
87.00	50160	149.00	391	220.00	204	343.00	481
88.00	47656	150.00	1148	221.00	118	344.00	292
89.00	267	151.00	708	223.00	202	346.00	47
91.00	3315	152.00	499	225.00	170		
92.00	30656	153.00	823	226.00	164		
93.00	48528	154.00	585	228.00	128		
94.00	142784	155.00	1853	229.00	71		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-26mar.b/8032601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 26-MAR-2007 09:03
Operator : ea Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2912
Comment :
Method : /var/chem/msd8.i/8-26mar.b/bfb30.m
Meth Date : 26-Mar-2007 08:57 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		
3.803	3.748	0.055	95	2384521			100.00- 100.00	100.00
3.803	3.748	0.055	50	692921			15.00- 40.00	29.06
3.803	3.748	0.055	75	1291079			30.00- 60.00	54.14
3.803	3.748	0.055	96	153259			5.00- 9.00	6.43
3.803	3.748	0.055	173	0			0.00- 2.00	0.00
3.803	3.748	0.055	174	1255899			50.00- 100.00	52.67
3.803	3.748	0.055	175	99889			5.00- 9.00	7.95
3.803	3.748	0.055	176	1198128			95.00- 101.00	95.40
3.803	3.748	0.055	177	78262			5.00- 9.00	6.53

Data File: /var/chem/msd8.i/8-26mar.b/8032601.d

Date : 26-MAR-2007 09:03

Client ID: BFB

Instrument: msd8.i

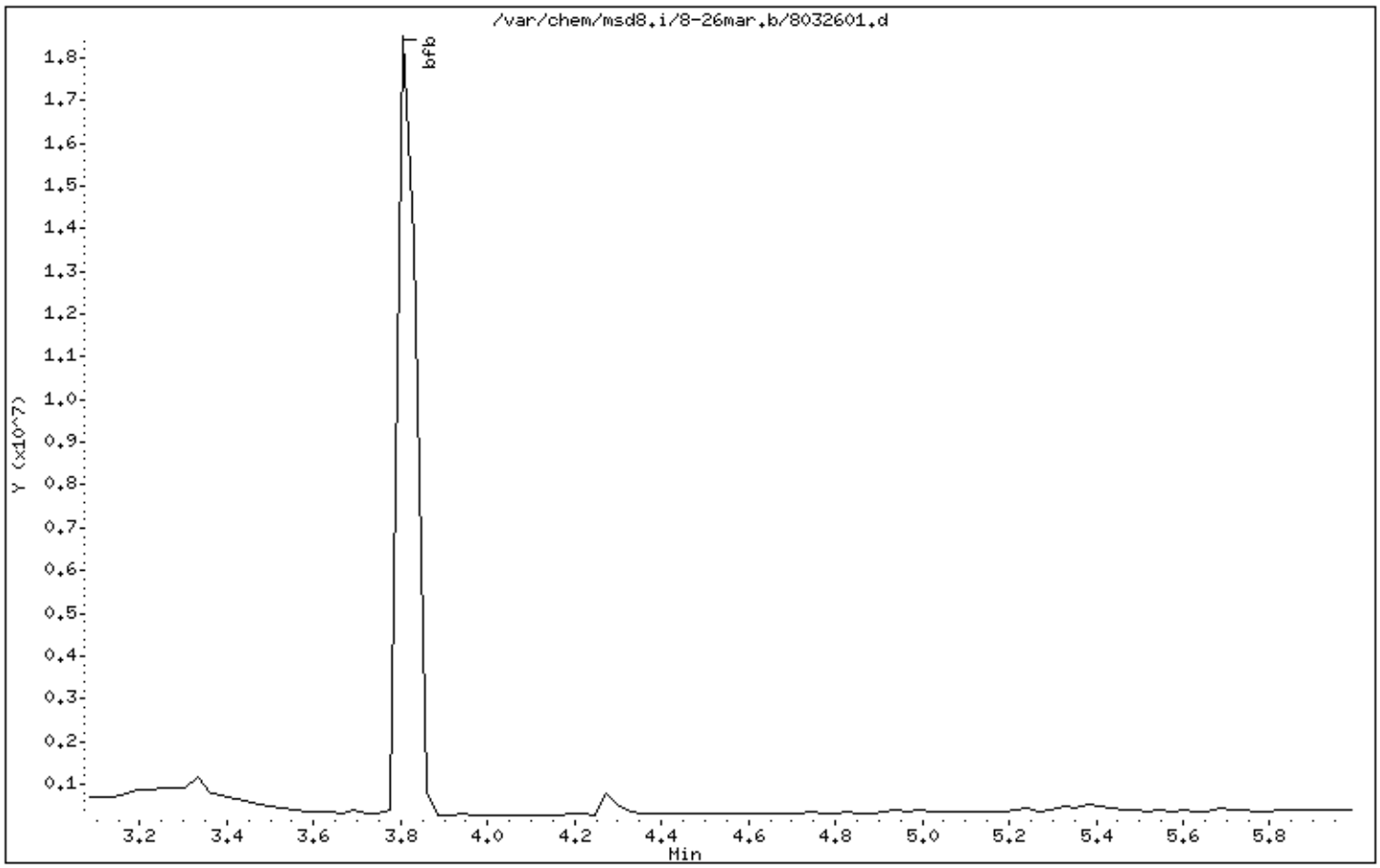
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: ea

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-26mar.b/8032601.d

Date : 26-MAR-2007 09:03

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

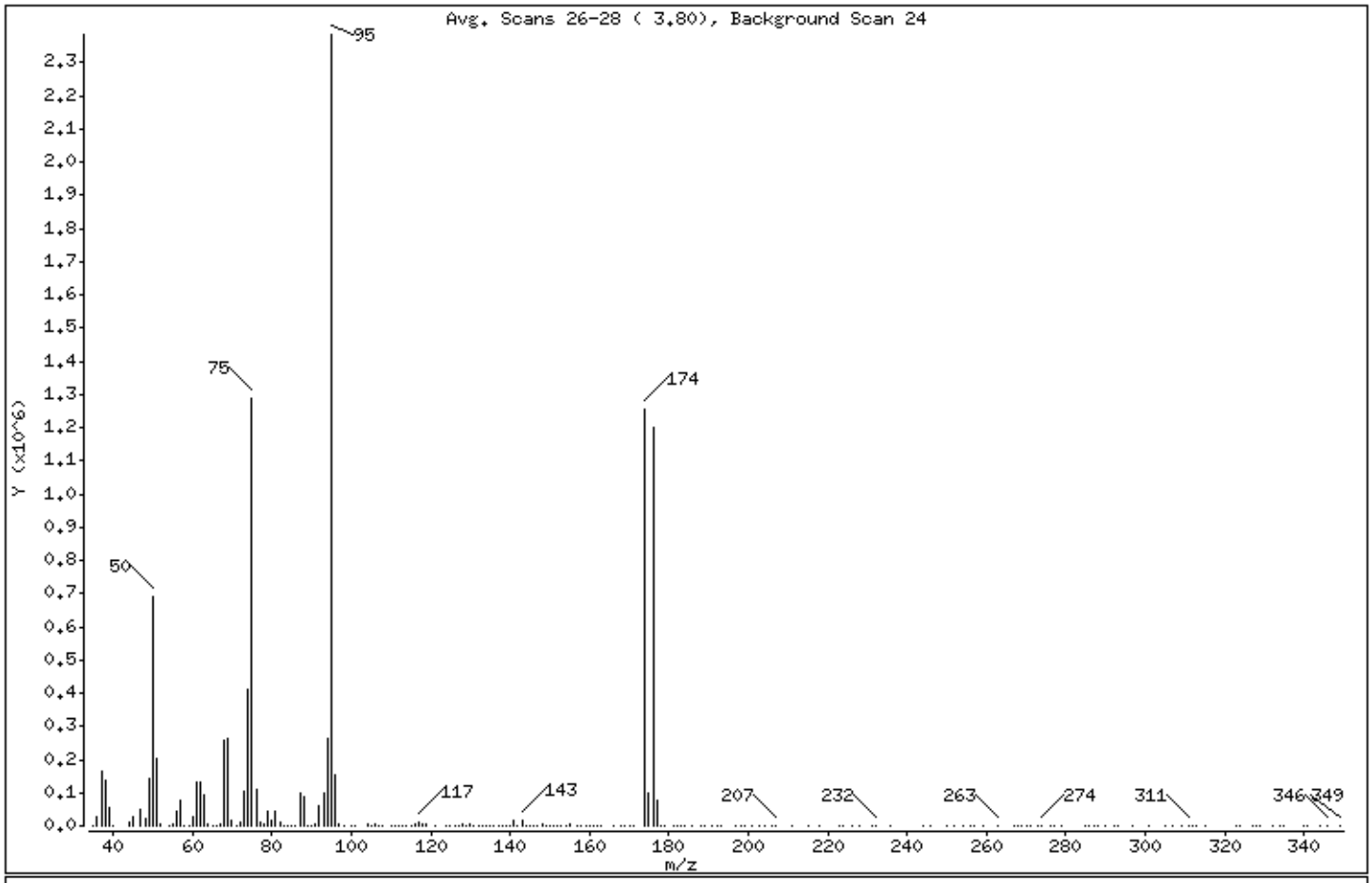
Volume Injected (uL): 2.0

Operator: ea

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	29.06
75	30.00 - 60.00% of mass 95	54.14
96	5.00 - 9.00% of mass 95	6.43
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	52.67
175	5.00 - 9.00% of mass 174	4.19 (7.95)
176	95.00 - 101.00% of mass 174	50.25 (95.40)
177	5.00 - 9.00% of mass 176	3.28 (6.53)

Date : 26-MAR-2007 09:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8032601.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	195	91.00	6069	149.00	856	232.00	975
36.00	29232	92.00	62096	150.00	1457	236.00	199
37.00	163072	93.00	96864	151.00	920	244.00	235
38.00	139136	94.00	261312	152.00	276	246.00	291
39.00	54504	95.00	2384384	153.00	1211	250.00	294
40.00	476	96.00	153216	154.00	515	252.00	248
44.00	9853	97.00	3416	155.00	3267	254.00	26
45.00	26728	98.00	440	157.00	2464	256.00	5
47.00	47912	100.00	128	158.00	425	257.00	317
48.00	20328	101.00	987	159.00	1563	259.00	100
49.00	140992	104.00	6092	160.00	134	263.00	388
50.00	692864	105.00	1471	161.00	1495	267.00	53
51.00	200768	106.00	5907	162.00	248	268.00	17
52.00	7992	107.00	1526	163.00	126	269.00	224
54.00	568	108.00	19	166.00	463	270.00	186
55.00	6269	110.00	730	168.00	783	271.00	64
56.00	42136	111.00	1093	169.00	1180	273.00	57
57.00	74808	112.00	933	170.00	701	274.00	358
58.00	2453	113.00	853	171.00	1361	276.00	71
59.00	1045	114.00	317	174.00	1255424	277.00	179
60.00	25104	115.00	1261	175.00	99888	279.00	160
61.00	129520	116.00	5132	176.00	1198080	285.00	234
62.00	129464	117.00	8915	177.00	78256	286.00	70
63.00	90936	118.00	4419	178.00	2052	287.00	97
64.00	7300	119.00	7927	179.00	52	288.00	166
65.00	952	121.00	53	181.00	208	290.00	14
66.00	177	124.00	1048	182.00	25	292.00	113
67.00	7131	125.00	179	183.00	103	293.00	88
68.00	255232	126.00	635	184.00	24	297.00	55
69.00	261568	127.00	482	186.00	45	301.00	237
70.00	16728	128.00	5195	188.00	320	305.00	165
71.00	946	129.00	2340	189.00	192	307.00	191
72.00	12813	130.00	4681	191.00	669	309.00	173
73.00	105472	131.00	1755	192.00	550	311.00	511
74.00	409664	132.00	97	193.00	171	312.00	167

Date : 26-MAR-2007 09:03

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: ea

Column phase: Column diameter: 0.53

Data File: 8032601.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 203

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	1290752	133.00	1720	197.00	21	313.00	174
76.00	108680	134.00	1145	198.00	104	315.00	130
77.00	12010	135.00	1028	199.00	132	323.00	77
78.00	7804	136.00	442	201.00	86	324.00	295
79.00	44592	137.00	1916	203.00	239	327.00	37
80.00	13959	138.00	222	204.00	112	328.00	138
81.00	46472	139.00	458	206.00	279	329.00	193
82.00	8716	140.00	409	207.00	1386	332.00	130
83.00	1106	141.00	14444	211.00	262	334.00	233
84.00	86	142.00	2541	215.00	164	335.00	129
85.00	637	143.00	15084	218.00	320	340.00	104
86.00	843	144.00	623	223.00	362	341.00	351
87.00	96208	145.00	495	224.00	160	344.00	386
88.00	88216	146.00	1934	226.00	114	346.00	405
89.00	256	147.00	1293	228.00	159	349.00	73
90.00	728	148.00	3617	231.00	208		

Air Toxics Ltd.

Data file : /var/chem/msd8.i/8-20apr.b/8042001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-APR-2007 09:12
Operator : JG Inst ID: msd8.i
Smp Info : BFB Tune Check
Misc Info : 50ng 2uL #843-2912
Comment :
Method : /var/chem/msd8.i/8-20apr.b/bfb30.m
Meth Date : 20-Apr-2007 09:06 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		
3.803	3.748	0.055	95	1359776			100.00- 100.00	100.00
3.803	3.748	0.055	50	451329			15.00- 40.00	33.19
3.803	3.748	0.055	75	772481			30.00- 60.00	56.81
3.803	3.748	0.055	96	89602			5.00- 9.00	6.59
3.803	3.748	0.055	173	0			0.00- 2.00	0.00
3.803	3.748	0.055	174	803412			50.00- 100.00	59.08
3.803	3.748	0.055	175	64090			5.00- 9.00	7.98
3.803	3.748	0.055	176	788418			95.00- 101.00	98.13
3.803	3.748	0.055	177	51431			5.00- 9.00	6.52

Data File: /var/chem/msd8.i/8-20apr.b/8042001.d

Date : 20-APR-2007 09:12

Client ID: BFB

Instrument: msd8.i

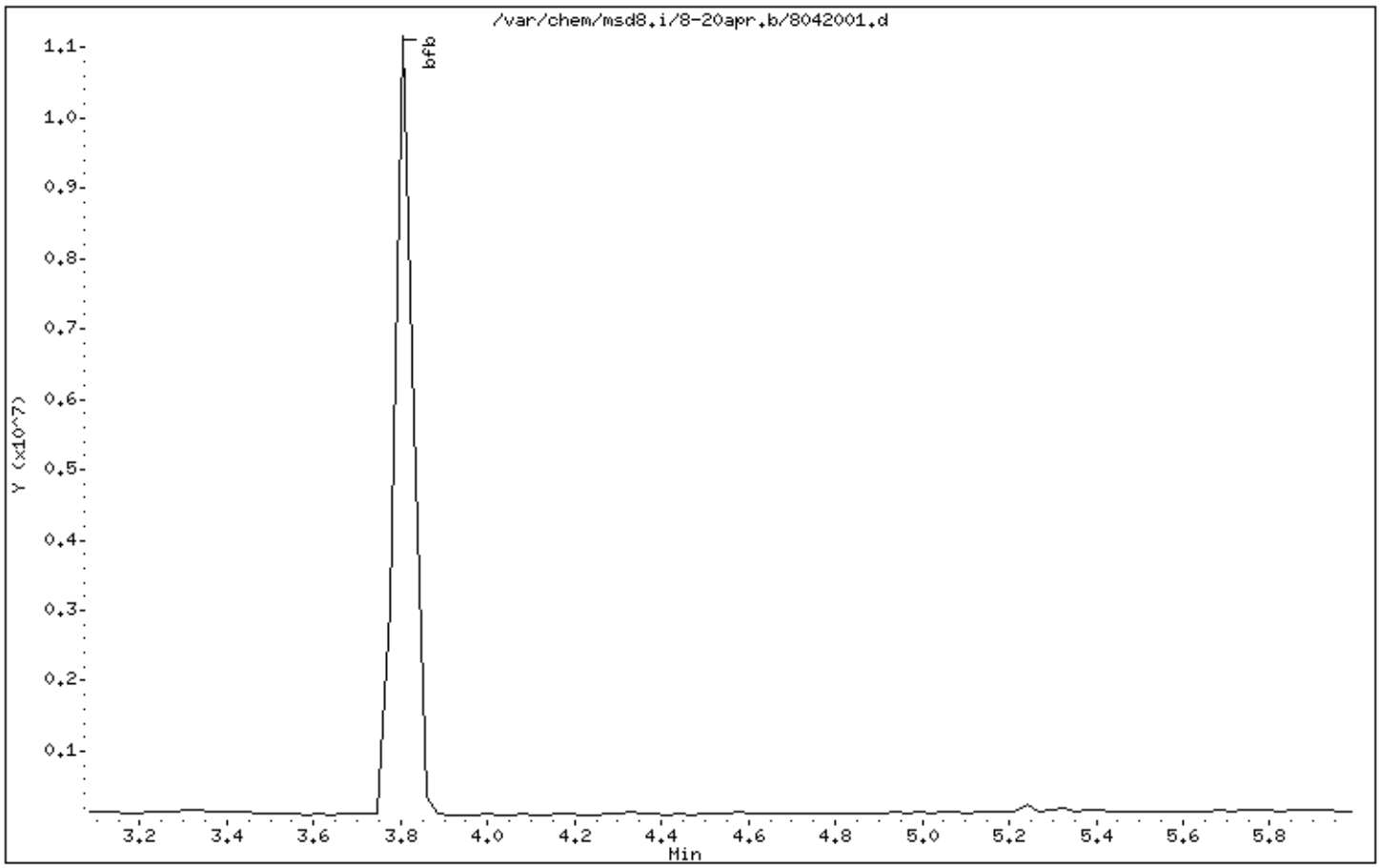
Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: JG

Column phase:

Column diameter: 0.53



Data File: /var/chem/msd8.i/8-20apr.b/8042001.d

Date : 20-APR-2007 09:12

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

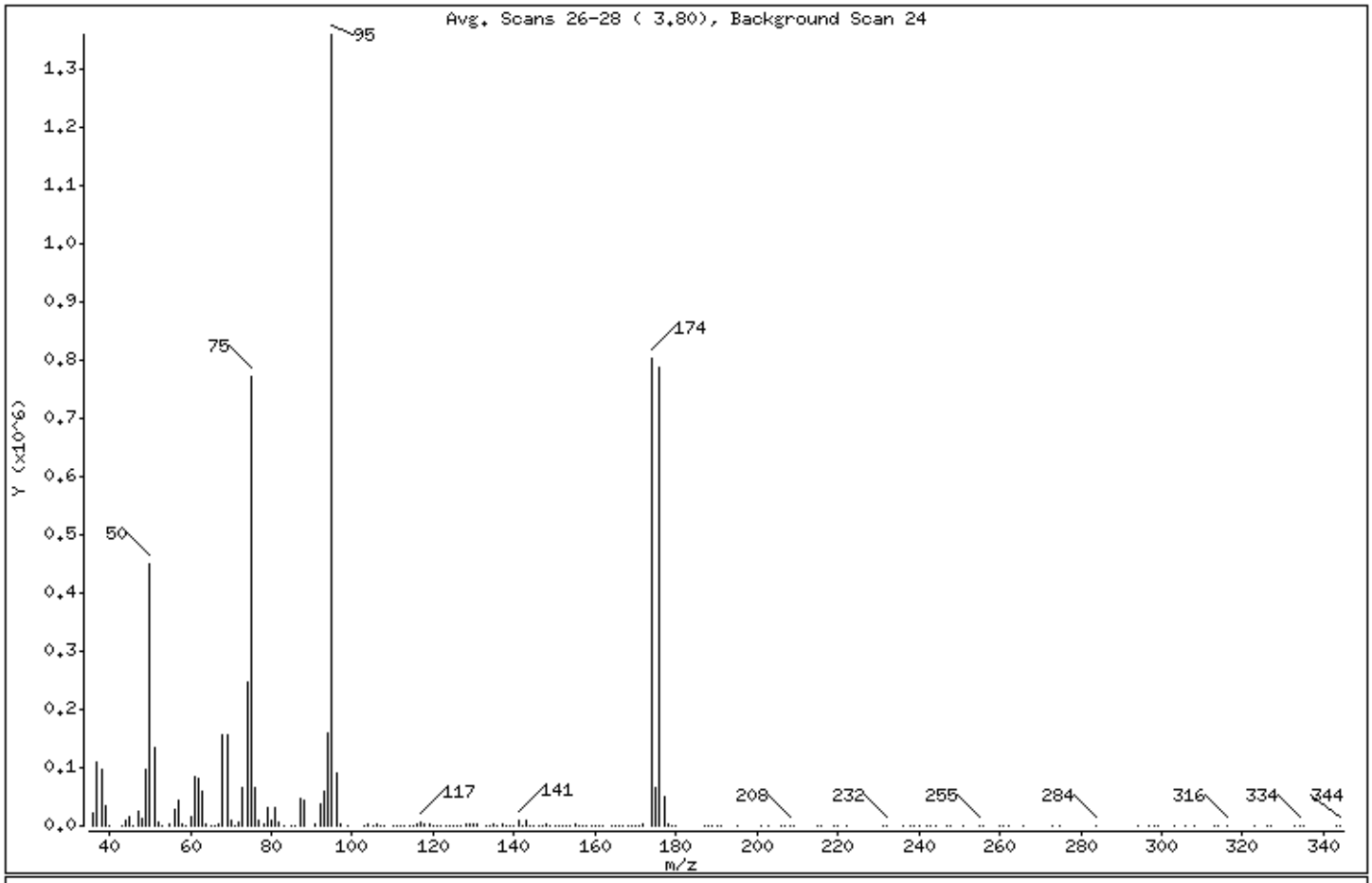
Volume Injected (uL): 2.0

Operator: JG

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	33.19
75	30.00 - 60.00% of mass 95	56.81
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	59.08
175	5.00 - 9.00% of mass 174	4.71 (7.98)
176	95.00 - 101.00% of mass 174	57.98 (98.13)
177	5.00 - 9.00% of mass 176	3.78 (6.52)

Data File: /var/chem/msd8.i/8-20apr.b/8042001.d

Date : 20-APR-2007 09:12

Client ID: BFB

Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0

Operator: JG

Column phase:

Column diameter: 0.53

Data File: 8042001.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 187

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	20336	87.00	46584	142.00	1434	208.00	387
37.00	108928	88.00	43488	143.00	10132	209.00	199
38.00	96616	91.00	4005	144.00	885	215.00	78
39.00	35880	92.00	36792	145.00	946	216.00	233
40.00	1215	93.00	58544	146.00	1232	219.00	153
43.00	615	94.00	158080	147.00	573	220.00	90
44.00	9397	95.00	1359360	148.00	2010	222.00	170
45.00	16888	96.00	89600	149.00	696	231.00	68
46.00	1302	97.00	2802	150.00	1082	232.00	472
47.00	24400	99.00	104	151.00	766	236.00	70
48.00	12686	103.00	501	152.00	653	238.00	145
49.00	96440	104.00	4110	153.00	600	239.00	201
50.00	451328	105.00	1235	154.00	523	240.00	114
51.00	134464	106.00	4570	155.00	2607	242.00	75
52.00	4978	107.00	1365	156.00	887	243.00	76
53.00	90	108.00	401	157.00	1433	244.00	146
55.00	4175	110.00	417	158.00	518	247.00	88
56.00	27032	111.00	738	159.00	1349	248.00	74
57.00	44088	112.00	507	160.00	74	251.00	76
58.00	1755	113.00	131	161.00	1397	255.00	472
59.00	693	114.00	80	162.00	40	256.00	74
60.00	15966	115.00	1090	164.00	361	260.00	143
61.00	83152	116.00	3479	165.00	93	261.00	134
62.00	82704	117.00	6654	166.00	57	262.00	189
63.00	57920	118.00	2811	167.00	320	266.00	200
64.00	4614	119.00	4620	168.00	165	273.00	142
65.00	1508	120.00	232	169.00	864	275.00	69
66.00	162	121.00	6	170.00	1386	284.00	266
67.00	4379	122.00	483	171.00	316	294.00	78
68.00	156672	123.00	645	172.00	3221	297.00	79
69.00	157568	124.00	118	174.00	803392	298.00	72
70.00	10868	125.00	259	175.00	64088	299.00	68
71.00	389	126.00	156	176.00	788416	303.00	91
72.00	7069	127.00	609	177.00	51424	306.00	83
73.00	65720	128.00	3554	178.00	1804	308.00	88

Date : 20-APR-2007 09:12

Client ID: BFB Instrument: msd8.i

Sample Info: BFB Tune Check

Volume Injected (uL): 2.0 Operator: JG

Column phase: Column diameter: 0.53

Data File: 8042001.d
Spectrum: Avg. Scans 26-28 (3.80), Background Scan 24
Location of Maximum: 95.00
Number of points: 187

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	247360	129.00	1866	179.00	110	313.00	80
75.00	772480	130.00	3231	180.00	2	314.00	69
76.00	66008	131.00	1590	187.00	75	316.00	167
77.00	8018	133.00	907	188.00	72	323.00	126
78.00	4608	134.00	314	189.00	84	326.00	144
79.00	31016	135.00	1940	190.00	154	327.00	73
80.00	9009	136.00	26	191.00	10	333.00	152
81.00	32720	137.00	1867	195.00	65	334.00	244
82.00	6497	138.00	118	201.00	77	335.00	117
83.00	904	139.00	406	203.00	76	343.00	221
85.00	238	140.00	692	206.00	81	344.00	417
86.00	752	141.00	10766	207.00	248		

Shipping/ Receiving Documents

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 Blue Ravine Road, Suite B
Folsom, CA 95630

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

COMPANY: GEI Consultants, Inc.
ATTENTION: Ms. Sarah Aldridge
FAX #: 860-368-5307
FROM: Sample Receiving
Workorder #: 0704313
# of pages (Including Cover): 1

5/2/2007

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

The following discrepancy has been observed:

Samples BS041207AMS2UW and BS041207AMS4DW were received at 19.0" Hg. The high vacuums will result in higher dilution factors. ATL will proceed with the analysis unless otherwise notified.

Your prompt response is appreciated.

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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

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

0196

Project Manager: Karen Swartz
Collected by: (Print and Sign) Sarah Aldrich
Company: GEI Consultants Email: KSwartz@geiconsultants.com
Address: 455 Winding Brook Glastonbury State: CT Zip: 06033
Phone: (860) 368-5300 Fax:

Project Info:
P.O. # 061140-8-
Project #
Project Name: Bay Shore Southern Cell

Turn Around Time:
☒ Normal
☐ Rush
☐ RM (specify)

Lab Use Only
Pressurized by: JB
Date: 4/19/07
Pressurization Gas: (N) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	BS041207AMS2UW	31431	4/12/07	0650-1507	TO-15	30"	2"	19.0	5.0
02A	BS041207AMS4DW	24228	4/12/07	0648-1508		30"	2"	19.0	5.0

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4/12/07 1600	Monica Gregg/M ATL	4/16/07 955
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air-Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex	8571 6442 0626	NA	Good	Yes No (None)	0704313

Form 1293 rev. 1

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0704313

Client

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

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 04/30/07
Date Completed: 4/27/07
Date Received: 4/16/07
PO#: 061140-8-
Project#: Bayshore Southern Cell IRM

Sales Rep: ANS

Total $: $ 624.00
Logged By: BL

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	BS041207AMS2UW	Modified TO-15	4/12/2007	19.0 "Hg	$225.00
02A	BS041207AMS4DW	Modified TO-15	4/12/2007	19.0 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each.	$100.00
	Blue Body Flow Controller (2) @ $35.00 each.	$70.00
	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#: Keyspan -Bayshore Southern Cell IRM/9699

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

Analysis Code: TO-14A

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

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

Initiated By: B. Stephens Date: 4/19/07 Given To: KCB/DD ☐ File to folder

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

I. **Workorder(s) affected:** ~~0704B3~~ 0704313

Sample(s) affected: All

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

- ☐ COC improperly relinquished / received.
- ☐ COC was not filled out in ink.
- ☐ Sample tags / labels do not match the COC.
- ☐ Samples received at wrong temperature (≠ 4±2 °C); ice / blue ice (circle one) was present. A temp. blank was / was *not* present (circle one).
- ☐ Sample container (Tube/VOA vial) was received broken, *however* sample was intact.
- ☐ Flow controller used - canister samples received at ambient or under pressure.
- ☐ No brass cap on canister (*do not narrate*).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble <5mm (*do not narrate*).
- ☐ Other (describe below).

Describe the Discrepancy:

Initials: _____ **Date:** _____

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

- ☐ COC was not received with samples.
- ☐ Analysis method(s) is not specified / incorrectly specified (circle one) on the COC.
- ☐ Number of samples on the COC does not match the number of samples that were received.
- ☐ Samples were received expired.
- ☐ Sampling date / time is not documented for *some* / *any* samples (circle one).
- ☐ Sample received with discernable volume of H_2O in the Tedlar Bag.
- ☐ Sample container (Tube/VOA vial/DNPH Bottle, etc.) was received broken / leaking (circle one).
- ☐ VOA vial for RSK-175 analysis received with headspace bubble >5mm.
- ☐ Samples for RSK-175 CO_2 analysis received preserved with HCl.
- ☐ Tedlar Bag received leaking / flat (circle one). Sample can / cannot (circle one) be analyzed.
- ☐ Canister leaked to ambient during pressurization.
- ☐ Tedlar bag / canister received emitting a strong odor; sample can / cannot (circle one) be analyzed.
- ☐ Canister sample received with a vacuum difference >7.0"Hg between the receipt vac. and the final vac. reported on the COC, indicating loss of vacuum.
- ☑ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
- ☐ Trip Blank received at low vacuum (< 25"Hg).
- ☐ Tedlar Bag for Sulfur analysis has metal fitting.
- ☐ Incorrect sampling media / container for analysis requested.
- ☐ Custody Seal on the outside of the container was broken / improperly placed (circle one).
- ☐ Other (describe below).

Describe the Discrepancy: Receipt Vacuum for both is 19.0"Hg

Initials: DS **Date:** 4/19/07

IV. Lab Discrepancies requiring Team Leader/CSR notification (*document in Analytical Notes of Lab Narrative*)

- ☐ Tedlar Bag found to be leaking at the time of analysis; sample can / cannot (circle one) be analyzed.
- ☐ Tedlar Bag found to be flat at the time of analysis.
- ☐ Canister found to be leaking at the time of analysis.
- ☐ Tedlar Bag received at low volume; sample cannot be analyzed.
- ☐ Sulfur samples received with insufficient time to analyze prior to expiration.
- ☐ VOST tube saturated; bag dilution necessary.
- ☐ Sample loss due to instrument malfunction / broken glassware.
- ☐ Other (describe below).

Describe the Discrepancy: _____

_____

_____

Analyst Initials: _____ **Date:** _____

Team Leader Initials: _____ **Date:** _____

V. Client Services Notification:

- ☐ Narrate the discrepancy; it is not necessary to call the client. See attached email from CSR requesting documentation on Cover Page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

  CSR notified: _____ Notified by: _____ Date: _____

- ☒ Narrate the discrepancy; it is not necessary to call the client. Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes/Analytical Notes of Lab Narrative.

  CSR Initials: DD Date: 4/23/07

Client Notification:

Person notified: _____ Notified by: _____ Date: _____

- ☐ See attached client contact / email, or comments below:

_____

_____

_____

Lab Notification:

Person notified: _____ Notified by: _____ Date: _____

Other Records

Air Toxics Ltd

Modified EPA Methods TO-14A/TO-15

Internal Standard and Associated Target Compounds and Surrogates

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

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

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

DILUTION FACTORS

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

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

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

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 #: 0704313

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

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

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

A/R: 1 out in CCV, 1 out in LCS

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
4/23/07	R: JHBailey 4-27-07	4/27/07	
	T:		

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

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

Not Applicable