
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 #: 0711309

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Comments:

Completed by:

Kara McKiernan	Kara McKiernan / Document Control	12/5/07
(Signature)	(Print Name & Title)	(Date)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0711309

Work Order Summary

CLIENT:	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033	**BILL TO:**	Ms. Sarah Aldridge GEI Consultants, Inc. 455 Winding Brook Drive Suite 201 Glastonbury, CT 06033
PHONE:	860-368-5300	**P.O. #**	NR
FAX:	860-368-5307	**PROJECT #**	061140-8-1703 BayShore OU1 Southern cell Air Monitorin
DATE RECEIVED:	11/15/2007	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	11/30/2007		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	UW-AMS 5	Modified TO-15	7.0 "Hg
02A	DW-AMS 1	Modified TO-15	5.5 "Hg
03A	Lab Blank	Modified TO-15	NA
04A	CCV	Modified TO-15	NA
05A	LCS	Modified TO-15	NA

CERTIFIED BY: Linda D. Fruman DATE: 11/30/07

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

LABORATORY NARRATIVE
Modified TO-15
GEI Consultants, Inc.
Workorder# 0711309

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

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

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

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

Receiving Notes

Sample identification for sample UW-AMS 5 was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Sample Extract Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
UW-AMS 5	0711309-01A	11/14/2007	11/15/2007	NA	14	11/28/2007	NA	Good
DW-AMS 1	0711309-02A	11/14/2007	11/15/2007	NA	14	11/28/2007	NA	Good
Lab Blank	0711309-03A	NA	NA	NA	NA	11/27/2007	NA	Good
CCV	0711309-04A	NA	NA	NA	NA	11/27/2007	NA	Good
LCS	0711309-05A	NA	NA	NA	NA	11/27/2007	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: UW-AMS 5

Lab ID#: 0711309-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.88	1.3	2.8	4.2
Toluene	0.88	4.9	3.3	18
m,p-Xylene	0.88	1.2	3.8	5.2
Hexane	0.88	0.95	3.1	3.3
Acetone	3.5	8.4	8.3	20

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0711309-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112726**	**Date of Collection:**	**11/14/07**
Dil. Factor:	**1.75**	**Date of Analysis:**	**11/28/07 07:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.88	Not Detected	4.3	Not Detected
Freon 114	0.88	Not Detected	6.1	Not Detected
Vinyl Chloride	0.88	Not Detected	2.2	Not Detected
Bromomethane	0.88	Not Detected	3.4	Not Detected
Chloroethane	0.88	Not Detected	2.3	Not Detected
Freon 11	0.88	Not Detected	4.9	Not Detected
1,1-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Freon 113	0.88	Not Detected	6.7	Not Detected
Methylene Chloride	0.88	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.88	Not Detected	3.5	Not Detected
cis-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
Chloroform	0.88	Not Detected	4.3	Not Detected
1,1,1-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Carbon Tetrachloride	0.88	Not Detected	5.5	Not Detected
Benzene	0.88	1.3	2.8	4.2
1,2-Dichloroethane	0.88	Not Detected	3.5	Not Detected
Trichloroethene	0.88	Not Detected	4.7	Not Detected
1,2-Dichloropropane	0.88	Not Detected	4.0	Not Detected
cis-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
Toluene	0.88	4.9	3.3	18
trans-1,3-Dichloropropene	0.88	Not Detected	4.0	Not Detected
1,1,2-Trichloroethane	0.88	Not Detected	4.8	Not Detected
Tetrachloroethene	0.88	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.88	Not Detected	6.7	Not Detected
Chlorobenzene	0.88	Not Detected	4.0	Not Detected
Ethyl Benzene	0.88	Not Detected	3.8	Not Detected
m,p-Xylene	0.88	1.2	3.8	5.2
o-Xylene	0.88	Not Detected	3.8	Not Detected
Styrene	0.88	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.88	Not Detected	6.0	Not Detected
1,3,5-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,2,4-Trimethylbenzene	0.88	Not Detected	4.3	Not Detected
1,3-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,4-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
alpha-Chlorotoluene	0.88	Not Detected	4.5	Not Detected
1,2-Dichlorobenzene	0.88	Not Detected	5.3	Not Detected
1,3-Butadiene	0.88	Not Detected	1.9	Not Detected
Hexane	0.88	0.95	3.1	3.3
Cyclohexane	0.88	Not Detected	3.0	Not Detected

0007

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: UW-AMS 5

Lab ID#: 0711309-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112726**	**Date of Collection: 11/14/07**	
Dil. Factor:	**1.75**	**Date of Analysis: 11/28/07 07:19 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.88	Not Detected	3.6	Not Detected
Bromodichloromethane	0.88	Not Detected	5.9	Not Detected
Dibromochloromethane	0.88	Not Detected	7.4	Not Detected
Cumene	0.88	Not Detected	4.3	Not Detected
Propylbenzene	0.88	Not Detected	4.3	Not Detected
Chloromethane	3.5	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	3.5	Not Detected	26	Not Detected
Hexachlorobutadiene	3.5	Not Detected	37	Not Detected
Acetone	3.5	8.4	8.3	20
Carbon Disulfide	0.88	Not Detected	2.7	Not Detected
2-Propanol	3.5	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	0.88	Not Detected	3.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.88	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.88	Not Detected	2.6	Not Detected
1,4-Dioxane	3.5	Not Detected	13	Not Detected
4-Methyl-2-pentanone	0.88	Not Detected	3.6	Not Detected
2-Hexanone	3.5	Not Detected	14	Not Detected
Bromoform	0.88	Not Detected	9.0	Not Detected
4-Ethyltoluene	0.88	Not Detected	4.3	Not Detected
Ethanol	3.5	Not Detected	6.6	Not Detected
Methyl tert-butyl ether	0.88	Not Detected	3.2	Not Detected
3-Chloropropene	3.5	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	0.88	Not Detected	4.1	Not Detected
Naphthalene	3.5	Not Detected	18	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/27Nov2007.b/t112726.d
Lab Smp Id: 0711309-01A
Inj Date : 28-NOV-2007 07:19
Operator : lo Inst ID: msdt.i
Smp Info : 200ml #4294
Misc Info : 7.0"Hg -> 5psi
Comment :
Method : /chem/msdt.i/27Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 15:02 sscott Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1
Dil Factor: 1.75000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	284687	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	220098			29.10- 129.10	77.31
13.865	13.865 (1.000)	49	287601			98.91- 198.91	101.02
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1312160	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	213789			0.00- 66.07	16.29
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1082142	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	590247			4.93- 104.93	54.54
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.943	14.943 (1.078)	65	414419	22.5823	22.582	80.00- 120.00	100.00
14.943	14.943 (1.078)	67	207152			5.03- 105.03	49.99
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.206	18.206 (1.167)	98	1223082	27.5359	27.536	80.00- 120.00	100.00
18.206	18.206 (1.167)	70	137157			0.00- 61.02	11.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.206	18.206 (1.167)	100	847729			19.45- 119.45	69.31
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.796	22.796 (1.096)	174	666730	24.5271	24.527	80.00- 120.00	100.00
22.796	22.796 (1.096)	95	854356			78.50- 178.50	128.14
22.796	22.796 (1.096)	176	646726			47.58- 147.58	97.00
45 Acetone					CAS #: 67-64-1		
10.215	10.188 (0.737)	58	43202	4.78341	8.371	80.00- 120.00	100.00
10.215	10.188 (0.737)	43	140513			259.05- 359.05	325.25
65 Hexane					CAS #: 110-54-3		
11.902	11.902 (0.858)	57	17978	0.54148	0.9476	80.00- 120.00	100.00
11.902	11.902 (0.858)	43	11986			6.67- 106.67	66.67
11.902	11.902 (0.858)	86	3774			0.00- 66.53	20.99
91 Benzene					CAS #: 71-43-2		
14.943	14.943 (0.957)	78	42034	0.75086	1.314	80.00- 120.00	100.00
14.971	14.943 (0.959)	77	9220			0.00- 72.49	21.93
114 Toluene					CAS #: 108-88-3		
18.317	18.317 (1.174)	91	173333	2.79064	4.884	80.00- 120.00	100.00
18.317	18.317 (1.174)	92	106902			10.79- 110.79	61.67
129 m,p-Xylene					CAS #: 108-38-3		
21.137	21.137 (1.016)	106	25238	0.68549	1.200	80.00- 120.00	100.00
21.137	21.137 (1.016)	91	49869			147.41- 247.41	197.59

Report Date: 30-Nov-2007 10:58

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112726.d
Lab Smp Id: 0711309-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: lo
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 7.0"Hg -> 5psi

Calibration Date: 27-NOV-2007
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	363056	217834	508278	284687	-21.59
97 1,4-Difluorobenze	1717227	1030336	2404118	1312160	-23.59
126 Chlorobenzene-d5	1238462	743077	1733847	1082142	-12.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.81	20.48	21.14	20.81	0.00

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

Report Date: 30-Nov-2007 10:58

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Nov2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0711309-01A
Level: LOW Operator: lo
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 7.0"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.582	90.33	70-130
$ 113 Toluene-d8	25.000	27.536	110.14	70-130
$ 137 Bromofluorobenzene	25.000	24.527	98.11	70-130

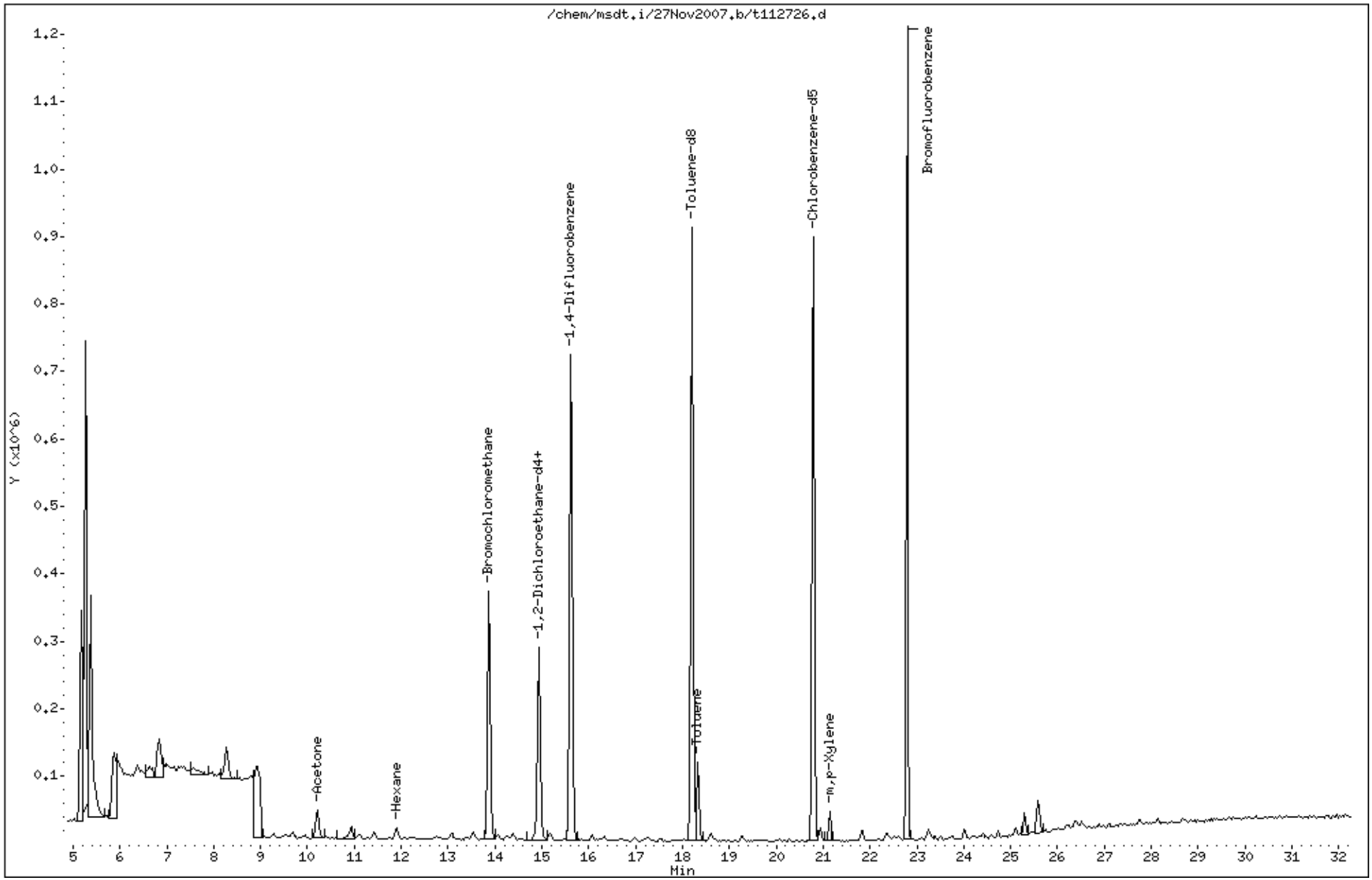
0013

Data File: /chem/msdt.i/27Nov2007.b/t112726.d
Date : 28-NOV-2007 07:19
Client ID:
Sample Info: 200ml #4294

Instrument: msdt.i

Operator: lo
Column diameter: 0.53

Column phase: RTx-624



Data File: /chem/msdt.i/27Nov2007.b/t112726.d

Date : 28-NOV-2007 07:19

Client ID:

Instrument: msdt.i

Sample Info: 200ml #4294

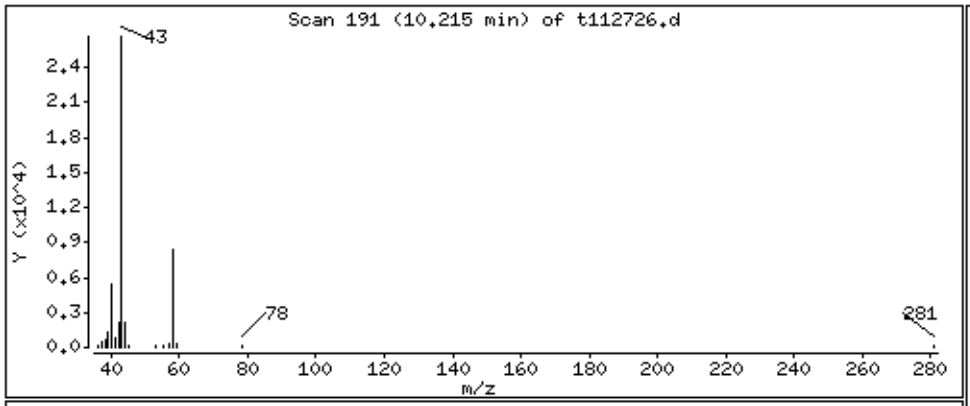
Operator: lo

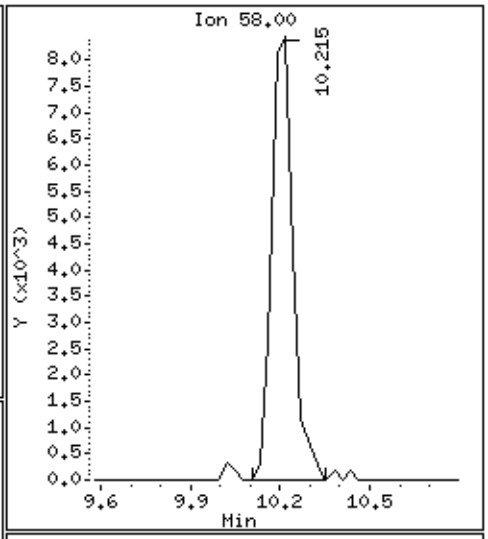
Column phase: RTx-624

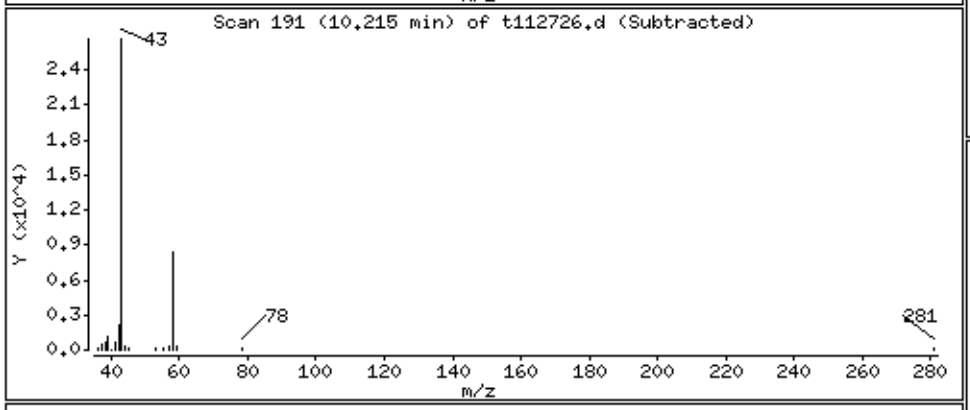
Column diameter: 0.53

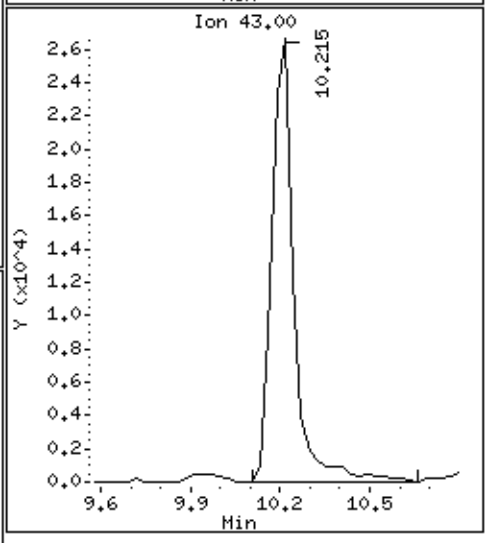
45 Acetone

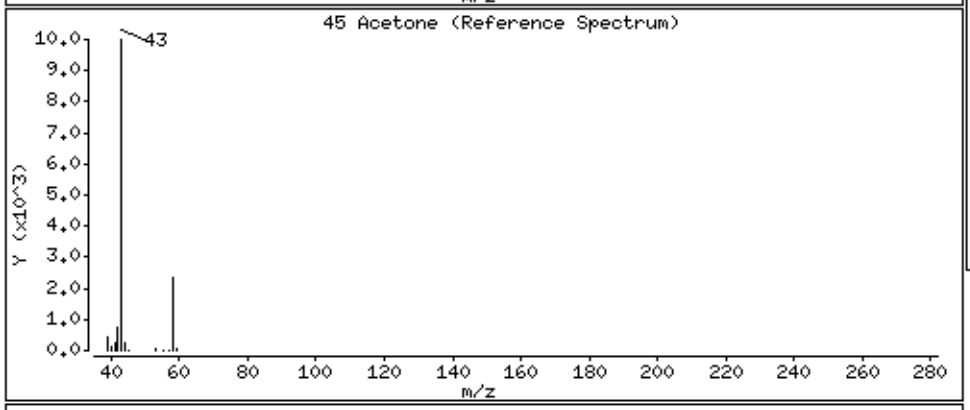
Concentration: 8.371 PPBV

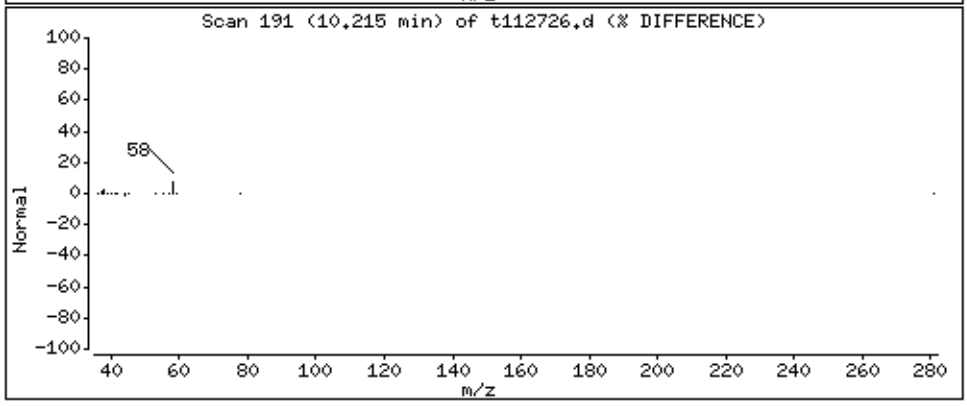












Data File: /chem/msdt.i/27Nov2007.b/t112726.d

Date : 28-NOV-2007 07:19

Client ID:

Instrument: msdt.i

Sample Info: 200ml #4294

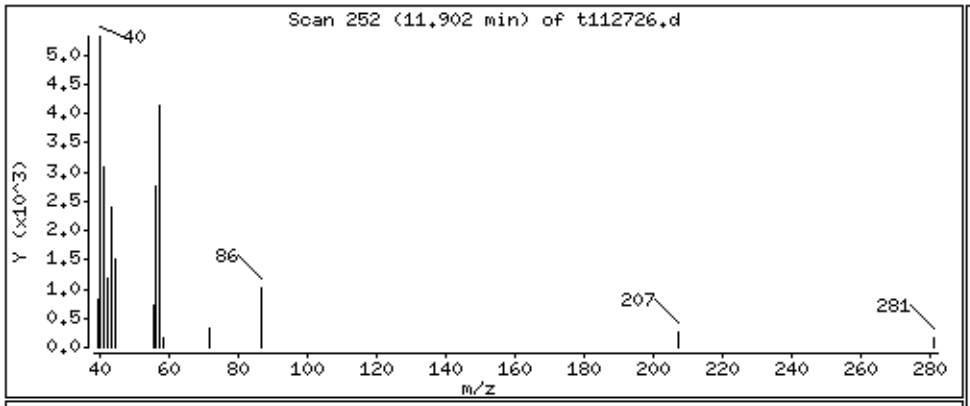
Operator: lo

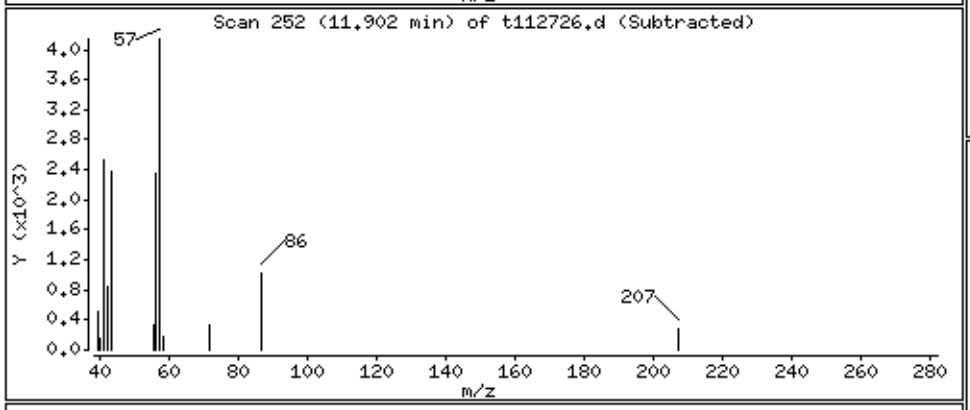
Column phase: RTx-624

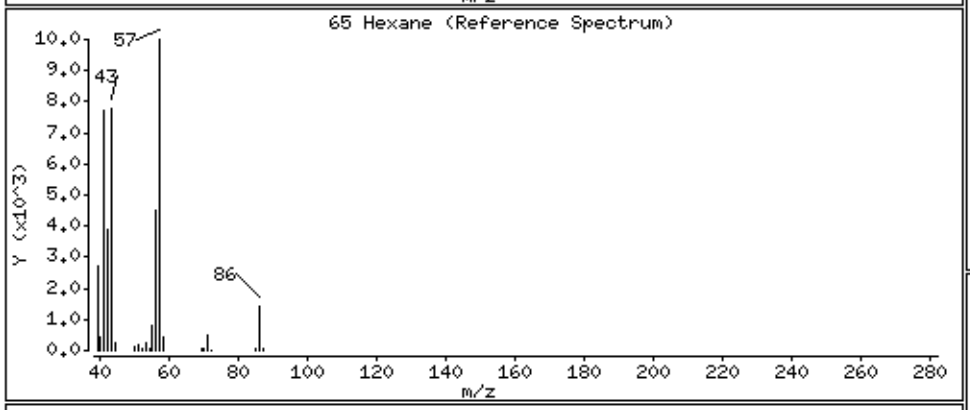
Column diameter: 0.53

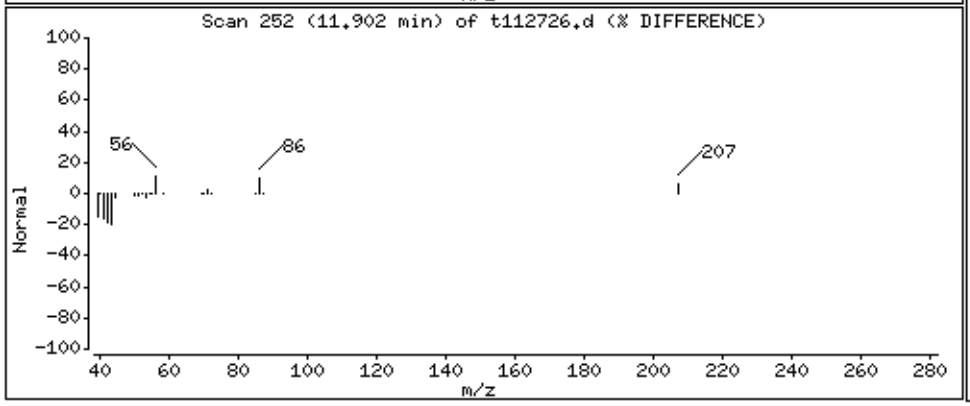
65 Hexane

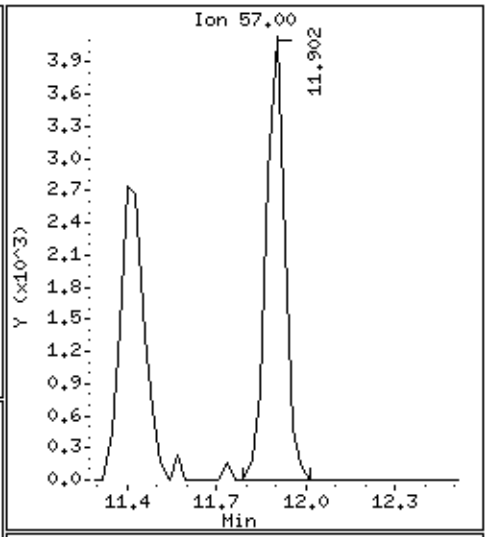
Concentration: 0.9476 PPBV

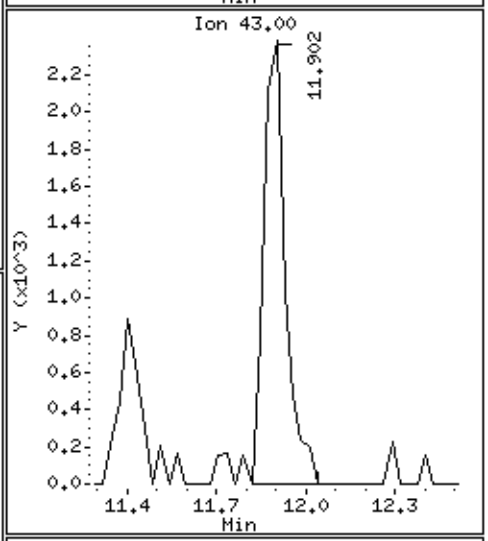


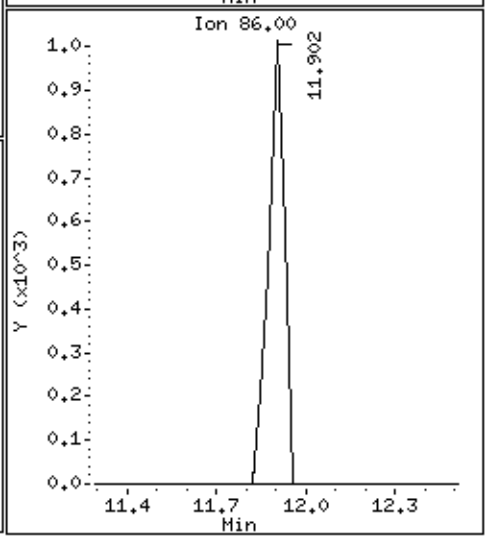












Data File: /chem/msdt.i/27Nov2007.b/t112726.d

Date : 28-NOV-2007 07:19

Client ID:

Instrument: msdt.i

Sample Info: 200ml #4294

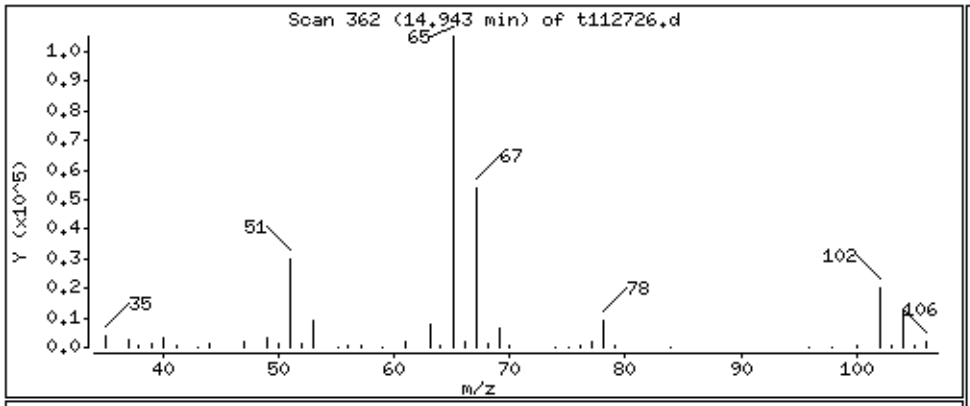
Operator: lo

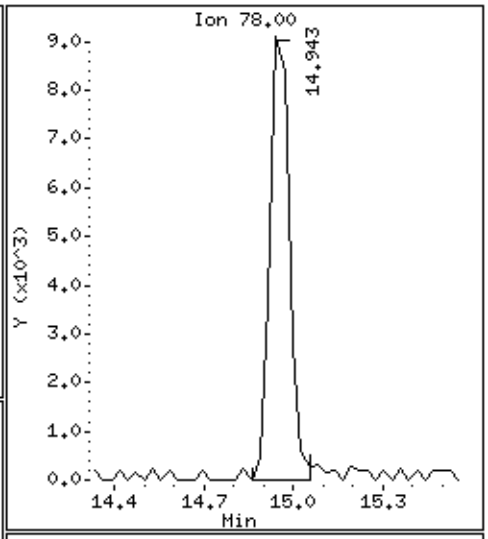
Column phase: RTx-624

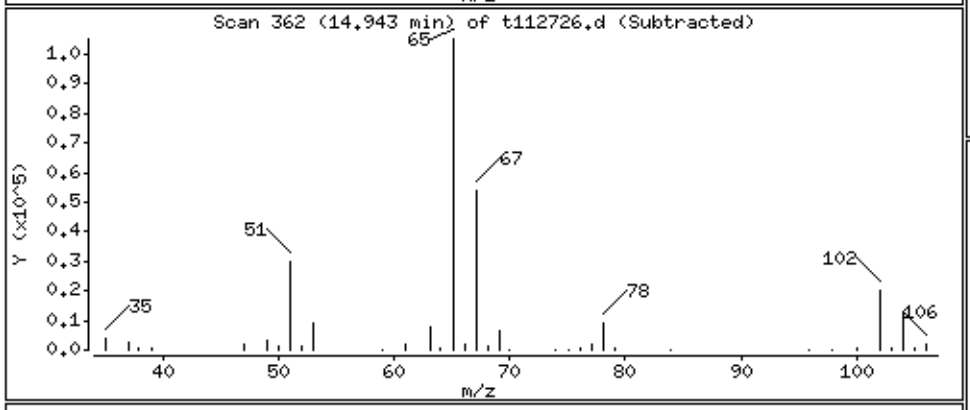
Column diameter: 0.53

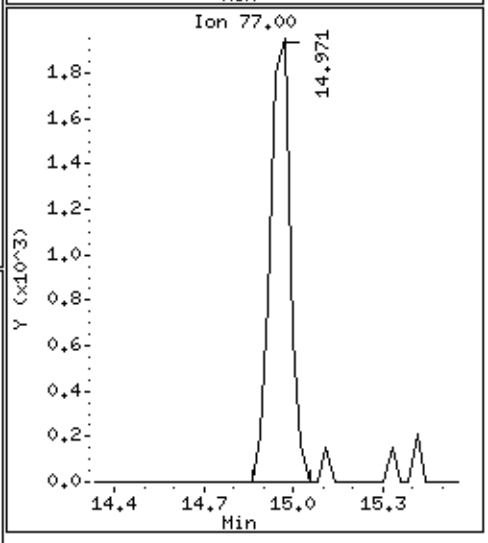
91 Benzene

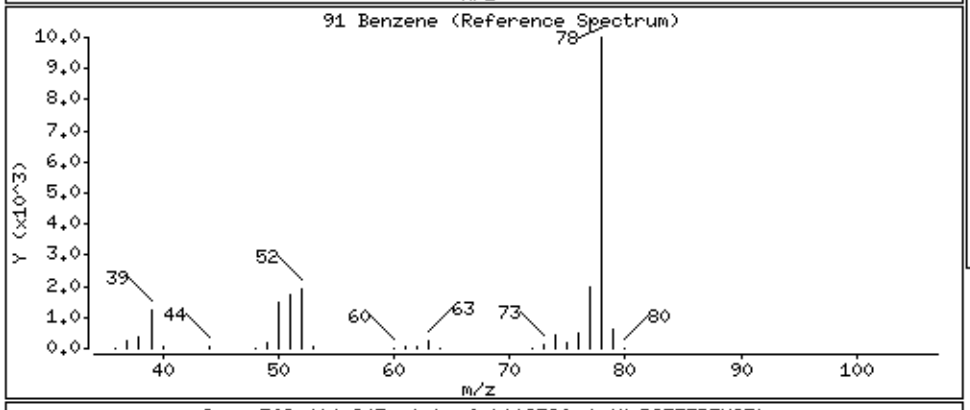
Concentration: 1.314 PPBV

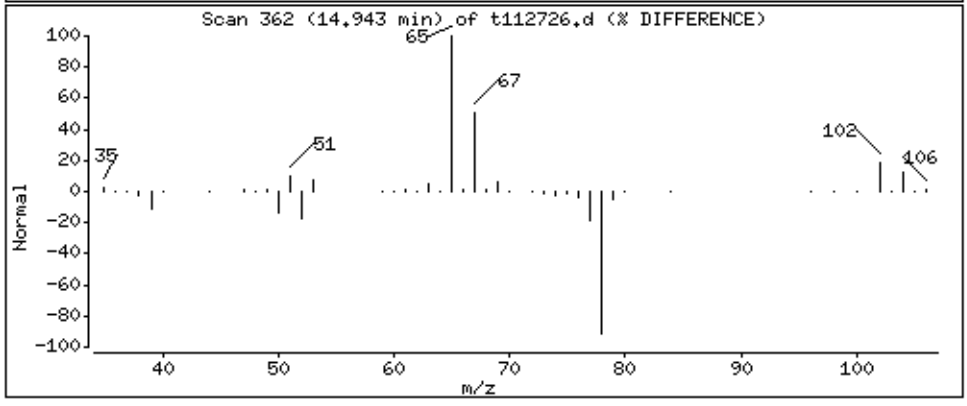












Data File: /chem/msdt.i/27Nov2007.b/t112726.d

Date : 28-NOV-2007 07:19

Client ID:

Instrument: msdt.i

Sample Info: 200ml #4294

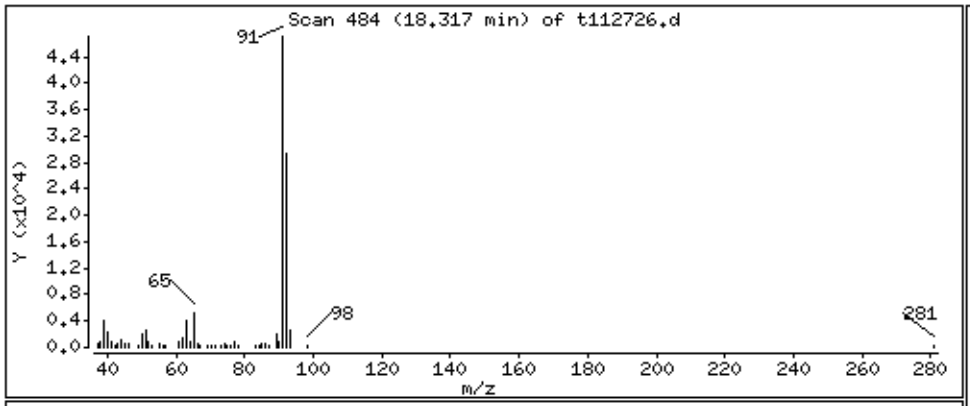
Operator: lo

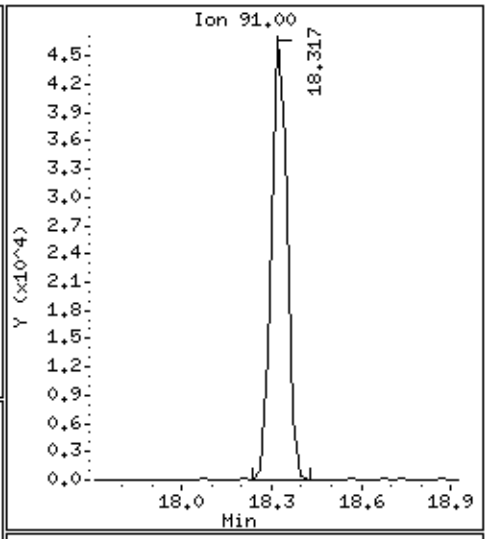
Column phase: RTx-624

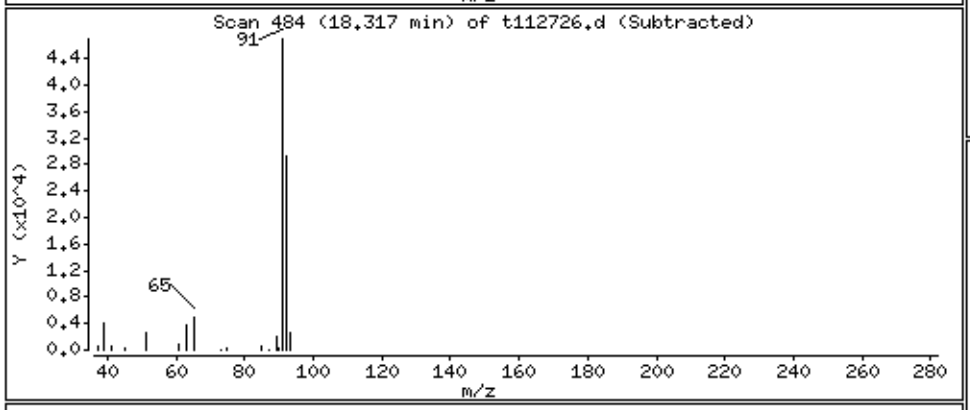
Column diameter: 0.53

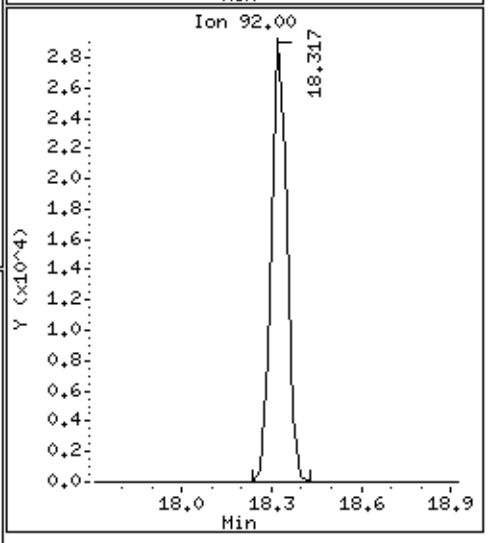
114 Toluene

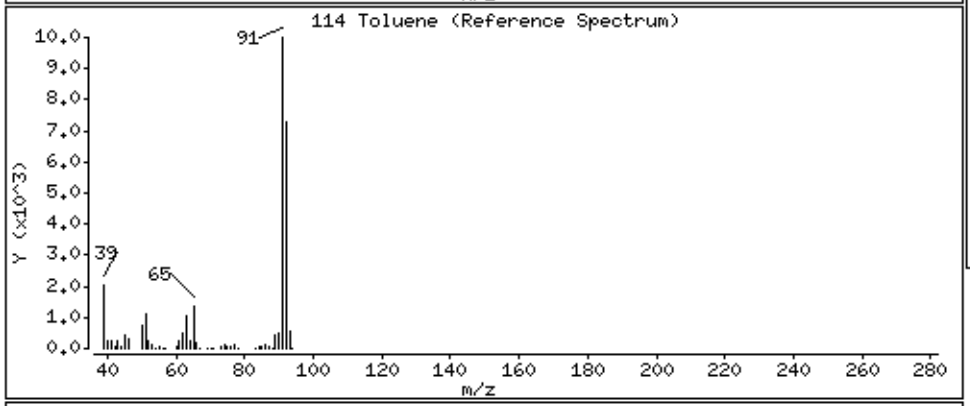
Concentration: 4.884 PPBV

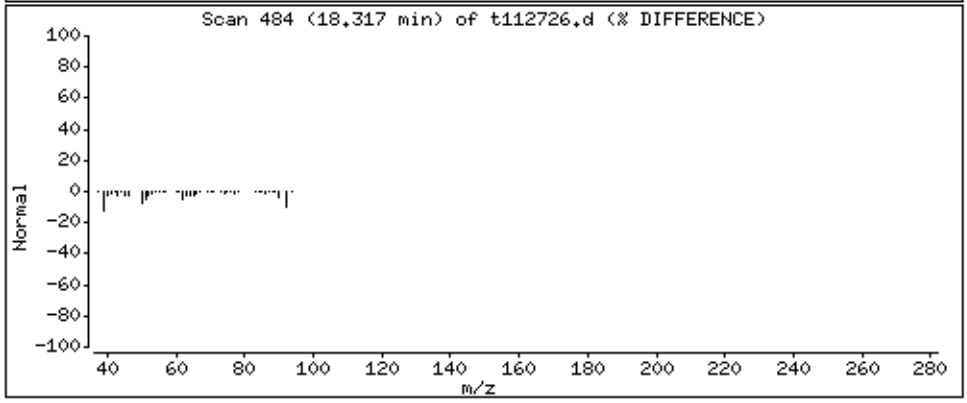












Data File: /chem/msdt.i/27Nov2007.b/t112726.d

Date : 28-NOV-2007 07:19

Client ID:

Instrument: msdt.i

Sample Info: 200ml #4294

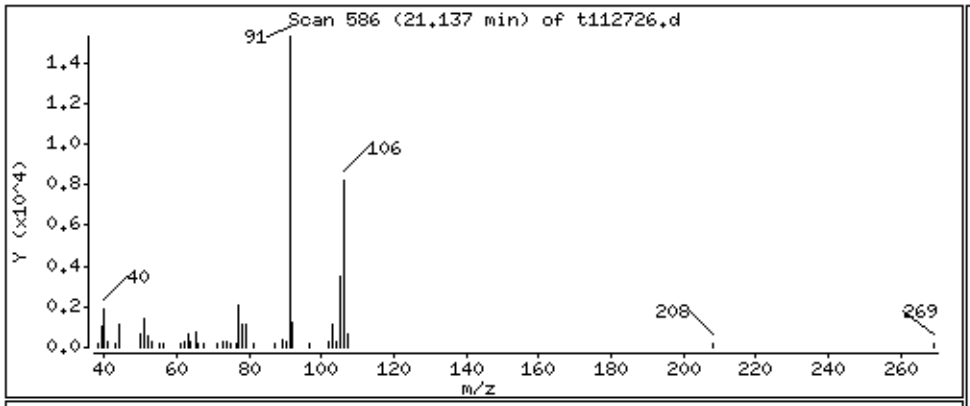
Operator: lo

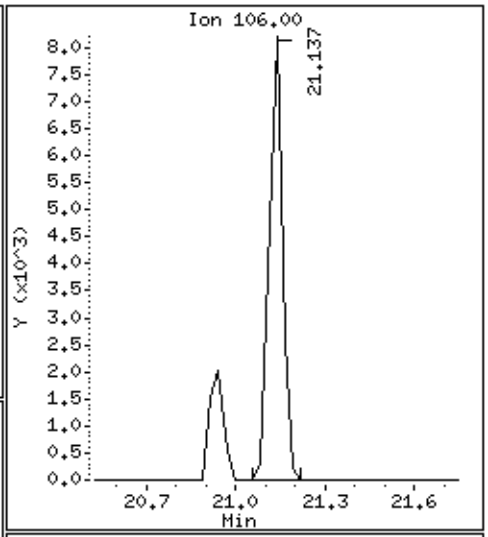
Column phase: RTx-624

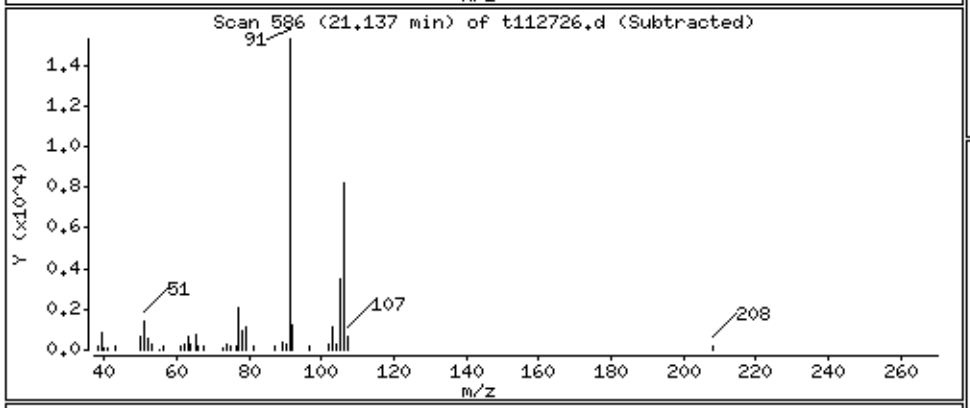
Column diameter: 0.53

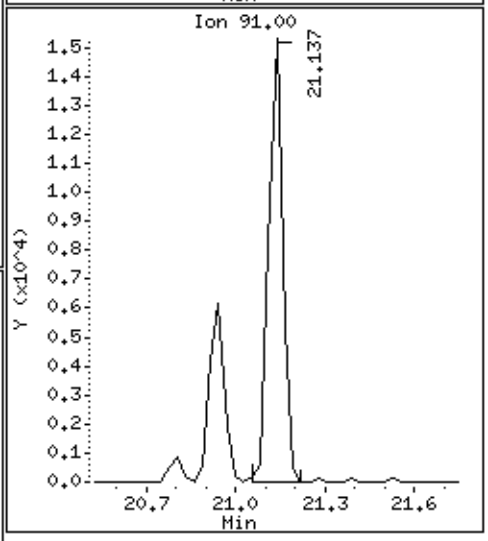
129 m,p-Xylene

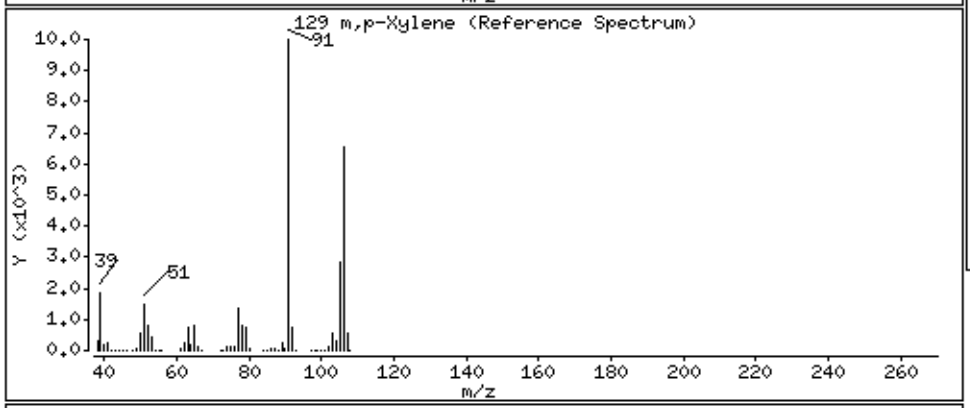
Concentration: 1.200 PPBV

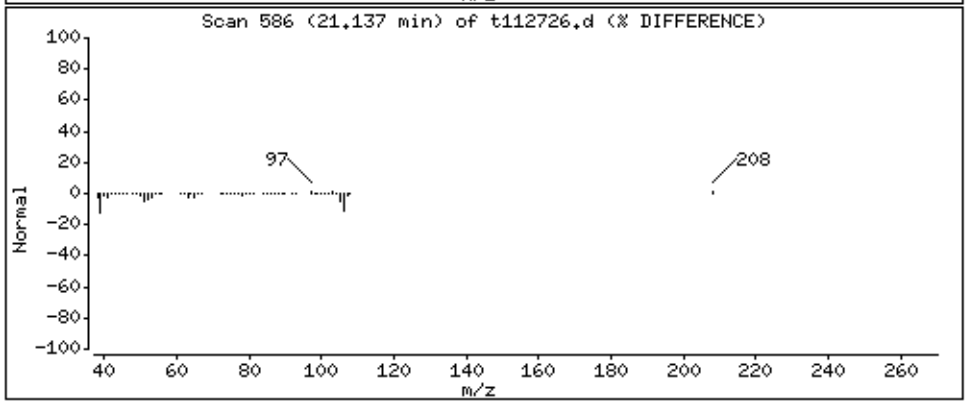












AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: DW-AMS 1

Lab ID#: 0711309-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Benzene	0.82	1.4	2.6	4.4
Toluene	0.82	5.0	3.1	19
m,p-Xylene	0.82	1.4	3.6	6.1
Hexane	0.82	1.0	2.9	3.6
Acetone	3.3	11	7.8	26

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 1

Lab ID#: 0711309-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112727**	**Date of Collection:**	**11/14/07**
Dil. Factor:	**1.64**	**Date of Analysis:**	**11/28/07 07:57 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Freon 114	0.82	Not Detected	5.7	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Bromomethane	0.82	Not Detected	3.2	Not Detected
Chloroethane	0.82	Not Detected	2.2	Not Detected
Freon 11	0.82	Not Detected	4.6	Not Detected
1,1-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Freon 113	0.82	Not Detected	6.3	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Chloroform	0.82	Not Detected	4.0	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Carbon Tetrachloride	0.82	Not Detected	5.2	Not Detected
Benzene	0.82	1.4	2.6	4.4
1,2-Dichloroethane	0.82	Not Detected	3.3	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
1,2-Dichloropropane	0.82	Not Detected	3.8	Not Detected
cis-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
Toluene	0.82	5.0	3.1	19
trans-1,3-Dichloropropene	0.82	Not Detected	3.7	Not Detected
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	Not Detected
m,p-Xylene	0.82	1.4	3.6	6.1
o-Xylene	0.82	Not Detected	3.6	Not Detected
Styrene	0.82	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,2,4-Trimethylbenzene	0.82	Not Detected	4.0	Not Detected
1,3-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
alpha-Chlorotoluene	0.82	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Hexane	0.82	1.0	2.9	3.6
Cyclohexane	0.82	Not Detected	2.8	Not Detected

0020

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DW-AMS 1

Lab ID#: 0711309-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112727**	**Date of Collection: 11/14/07**	
Dil. Factor:	**1.64**	**Date of Analysis: 11/28/07 07:57 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Heptane	0.82	Not Detected	3.4	Not Detected
Bromodichloromethane	0.82	Not Detected	5.5	Not Detected
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
Propylbenzene	0.82	Not Detected	4.0	Not Detected
Chloromethane	3.3	Not Detected	6.8	Not Detected
1,2,4-Trichlorobenzene	3.3	Not Detected	24	Not Detected
Hexachlorobutadiene	3.3	Not Detected	35	Not Detected
Acetone	3.3	11	7.8	26
Carbon Disulfide	0.82	Not Detected	2.6	Not Detected
2-Propanol	3.3	Not Detected	8.1	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.82	Not Detected	2.4	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
1,4-Dioxane	3.3	Not Detected	12	Not Detected
4-Methyl-2-pentanone	0.82	Not Detected	3.4	Not Detected
2-Hexanone	3.3	Not Detected	13	Not Detected
Bromoform	0.82	Not Detected	8.5	Not Detected
4-Ethyltoluene	0.82	Not Detected	4.0	Not Detected
Ethanol	3.3	Not Detected	6.2	Not Detected
Methyl tert-butyl ether	0.82	Not Detected	3.0	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
2,2,4-Trimethylpentane	0.82	Not Detected	3.8	Not Detected
Naphthalene	3.3	Not Detected	17	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/27Nov2007.b/t112727.d
Lab Smp Id: 0711309-02A
Inj Date : 28-NOV-2007 07:57
Operator : lo Inst ID: msdt.i
Smp Info : 200ml #9546
Misc Info : 5.5"Hg -> 5psi
Comment :
Method : /chem/msdt.i/27Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 15:02 sscott Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1
Dil Factor: 1.64000
Integrator: HP RTE Compound Sublist: AT04.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	282773	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	221950			29.10- 129.10	78.49
13.865	13.865 (1.000)	49	296534			98.91- 198.91	104.87
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.635	15.607 (1.000)	114	1333704	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	208458			0.00- 66.07	15.63
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1039254	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	570520			4.93- 104.93	54.90
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.943	14.943 (1.078)	65	419253	23.0003	23.000	80.00- 120.00	100.00
14.943	14.943 (1.078)	67	211613			5.03- 105.03	50.47
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.206	18.206 (1.164)	98	1211400	26.8323	26.832	80.00- 120.00	100.00
18.206	18.206 (1.164)	70	135225			0.00- 61.02	11.16

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.206	18.206 (1.164)	100	843022			19.45- 119.45	69.59
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.796	22.796 (1.096)	174	652725	25.0029	25.003	80.00- 120.00	100.00
22.796	22.796 (1.096)	95	825130			78.50- 178.50	126.41
22.796	22.796 (1.096)	176	631684			47.58- 147.58	96.78
45 Acetone					CAS #: 67-64-1		
10.188	10.188 (0.735)	58	59407	6.62218	10.860	80.00- 120.00	100.00
10.188	10.188 (0.735)	43	182224			259.05- 359.05	306.74
65 Hexane					CAS #: 110-54-3		
11.902	11.902 (0.858)	57	20750	0.62921	1.032	80.00- 120.00	100.00
11.902	11.902 (0.858)	43	13635			6.67- 106.67	65.71
11.902	11.902 (0.858)	86	3600			0.00- 66.53	17.35
91 Benzene					CAS #: 71-43-2		
14.971	14.943 (0.958)	78	48052	0.84450	1.385	80.00- 120.00	100.00
14.943	14.943 (0.956)	77	11647			0.00- 72.49	24.24
114 Toluene					CAS #: 108-88-3		
18.317	18.317 (1.172)	91	192737	3.05291	5.007	80.00- 120.00	100.00
18.317	18.317 (1.172)	92	118832			10.79- 110.79	61.66
129 m,p-Xylene					CAS #: 108-38-3		
21.137	21.137 (1.016)	106	30149	0.85267	1.398	80.00- 120.00	100.00
21.137	21.137 (1.016)	91	60352			147.41- 247.41	200.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112727.d
Lab Smp Id: 0711309-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: lo
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 5.5"Hg -> 5psi

Calibration Date: 27-NOV-2007
Calibration Time: 09:05
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	363056	217834	508278	282773	-22.11
97 1,4-Difluorobenze	1717227	1030336	2404118	1333704	-22.33
126 Chlorobenzene-d5	1238462	743077	1733847	1039254	-16.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.63	0.18
126 Chlorobenzene-d5	20.81	20.48	21.14	20.81	0.00

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

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Nov2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 0711309-02A
Level: LOW Operator: lo
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04.sub
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 5.5"Hg -> 5psi

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	23.000	92.00	70-130
$ 113 Toluene-d8	25.000	26.832	107.33	70-130
$ 137 Bromofluorobenzene	25.000	25.003	100.01	70-130

Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

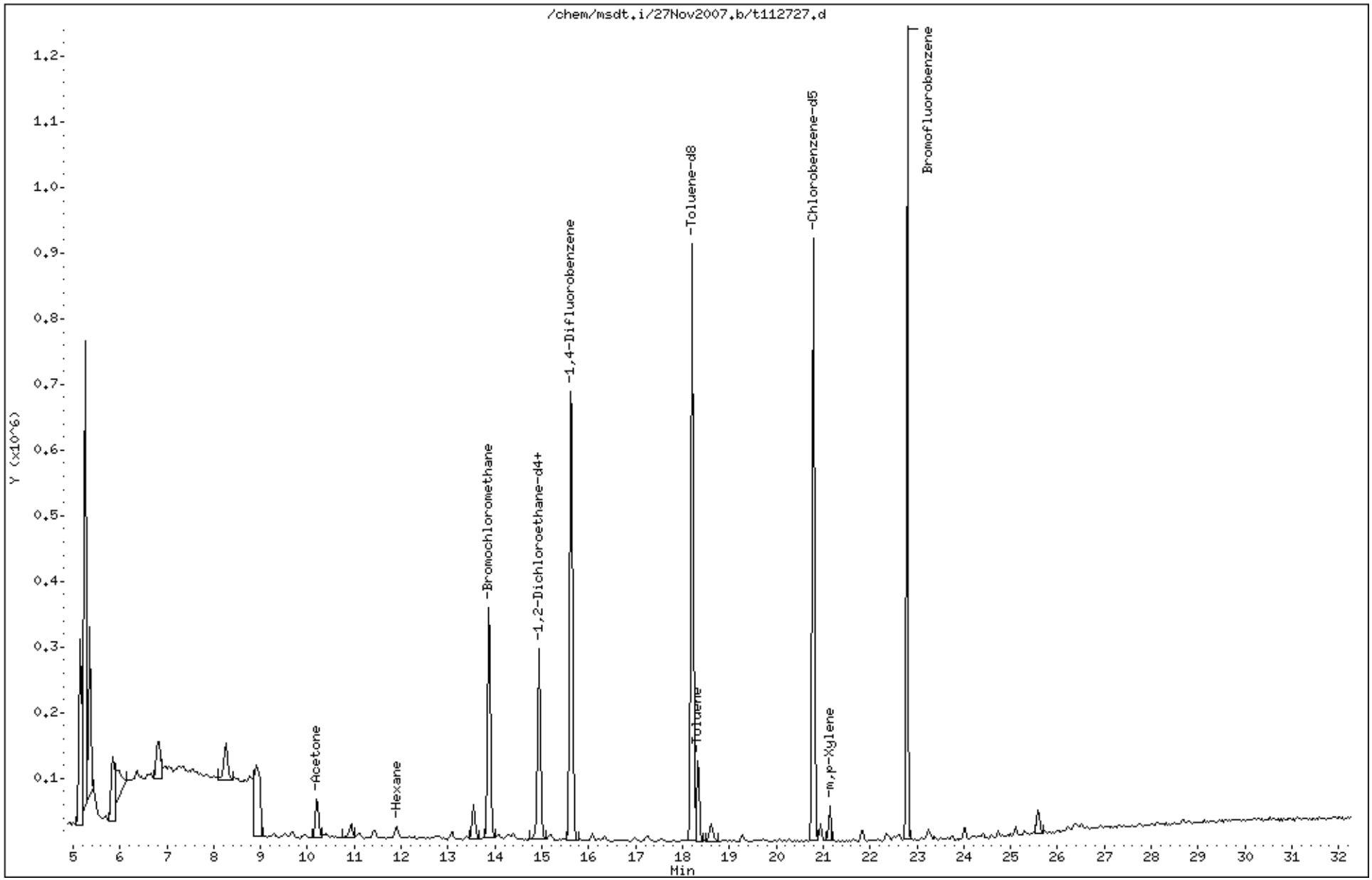
Sample Info: 200ml #9546

Column phase: RTx-624

Instrument: msdt.i

Operator: lo

Column diameter: 0.53



Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

Instrument: msdt.i

Sample Info: 200ml #9546

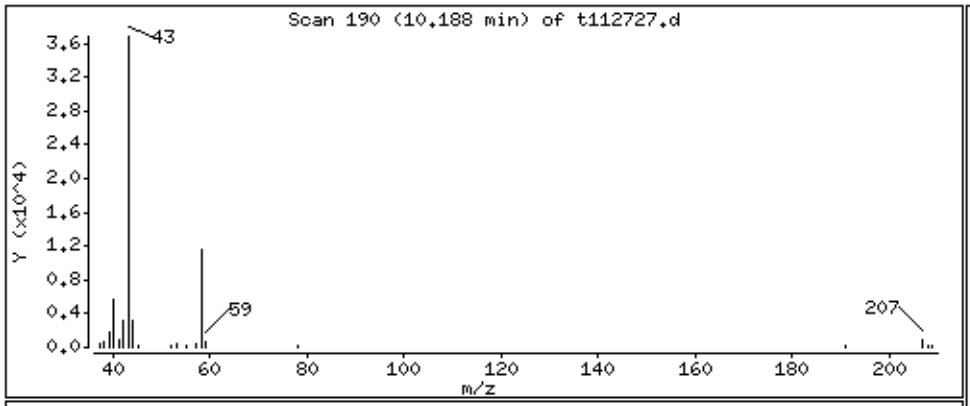
Operator: lo

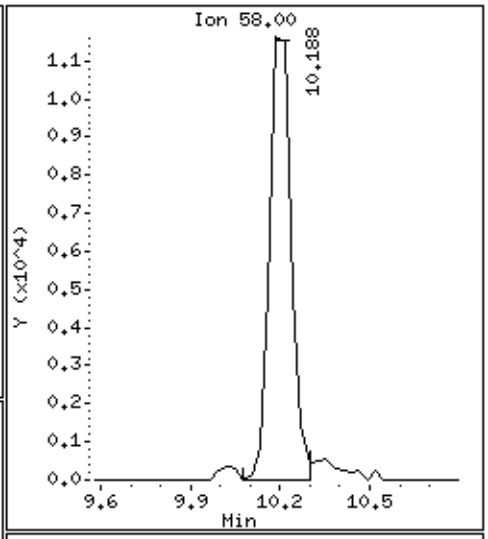
Column phase: RTx-624

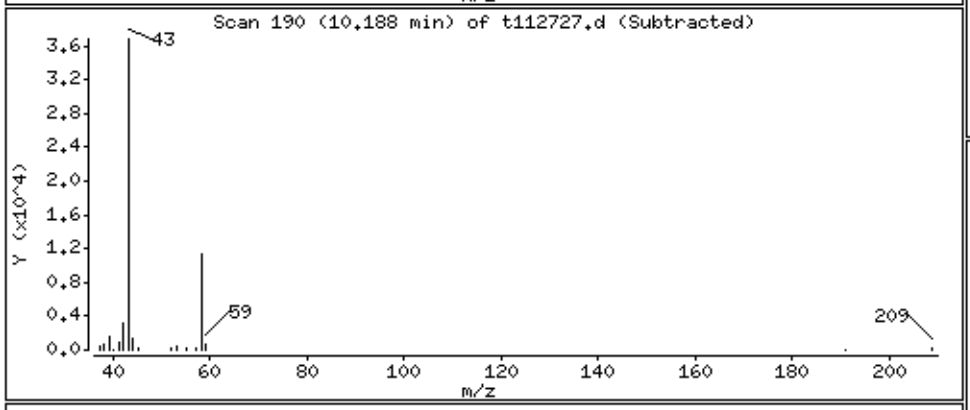
Column diameter: 0.53

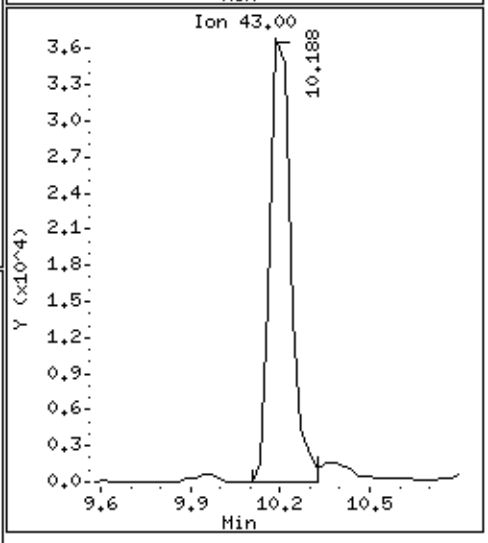
45 Acetone

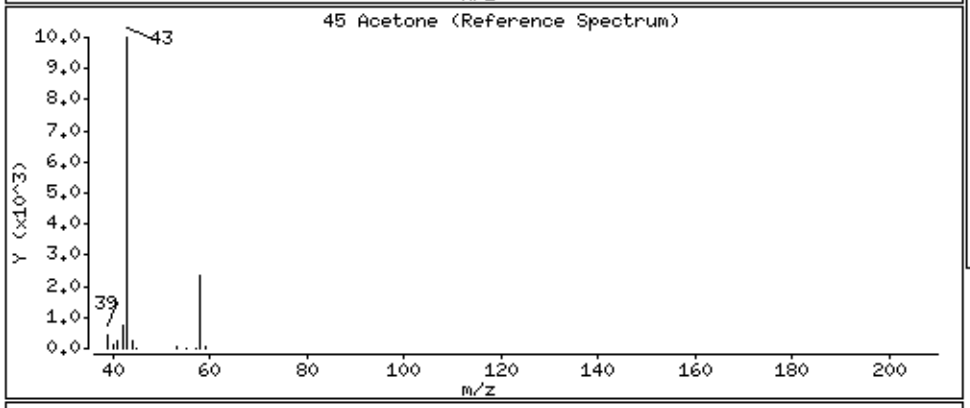
Concentration: 10.860 PPBV

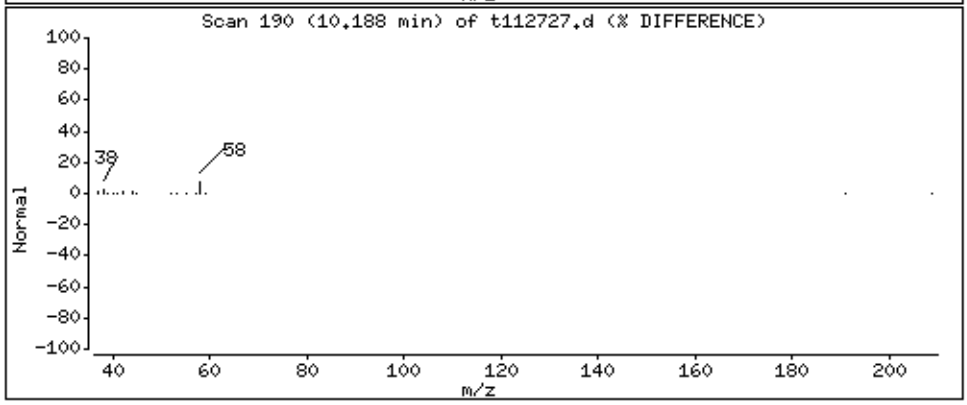












Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

Instrument: msdt.i

Sample Info: 200ml #9546

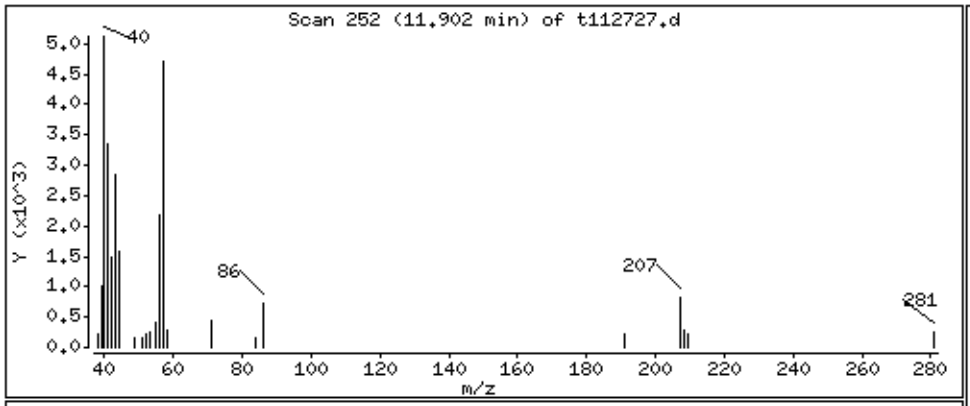
Operator: lo

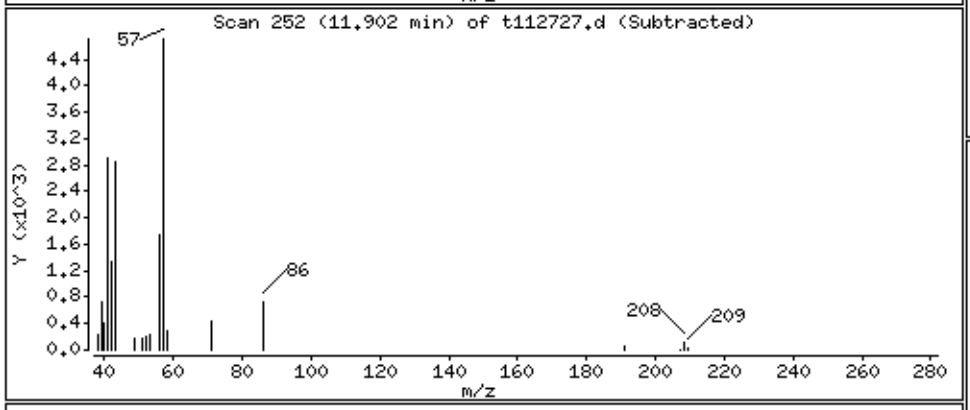
Column phase: RTx-624

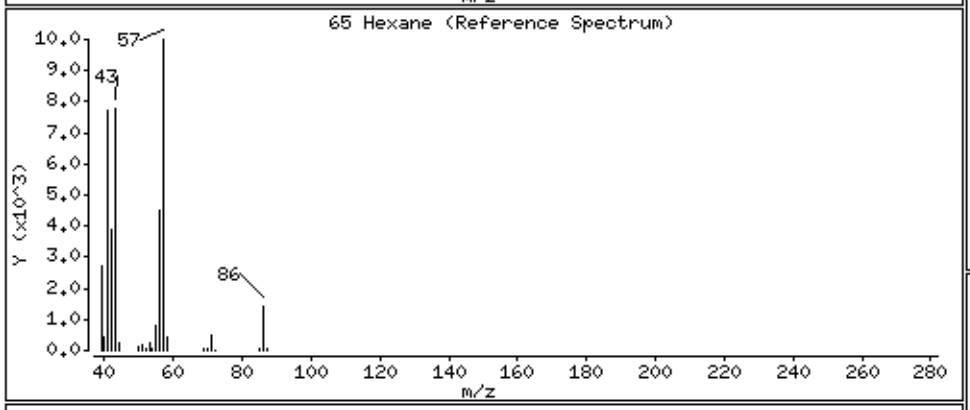
Column diameter: 0.53

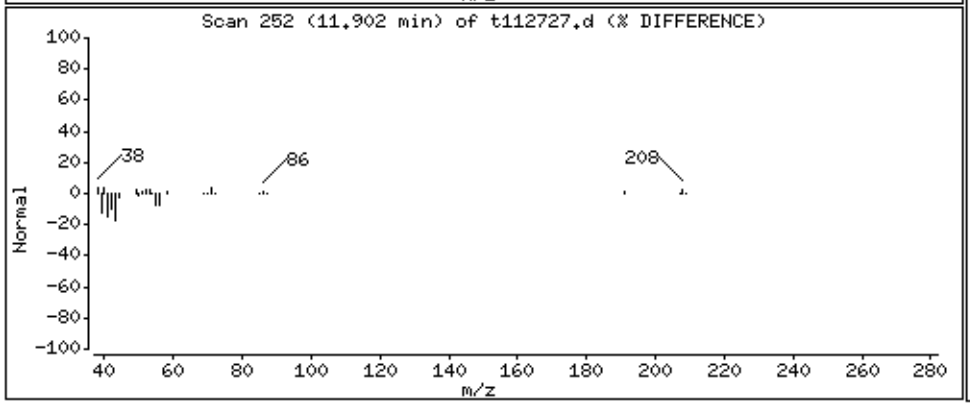
65 Hexane

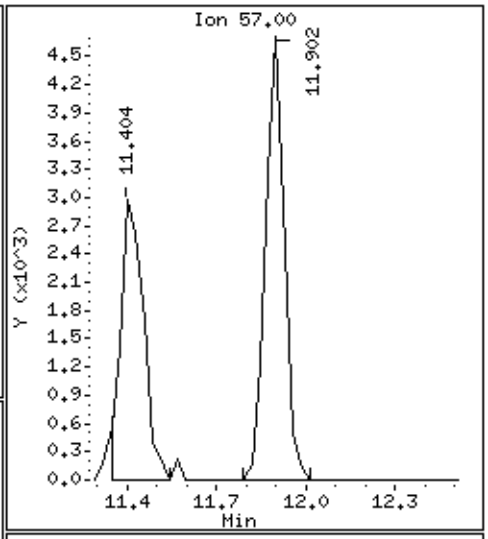
Concentration: 1.032 PPBV

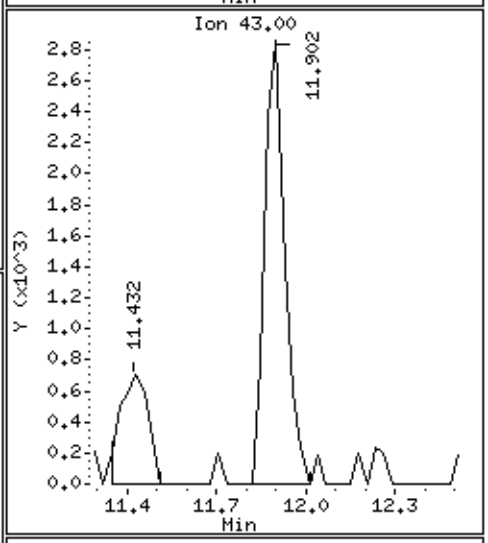


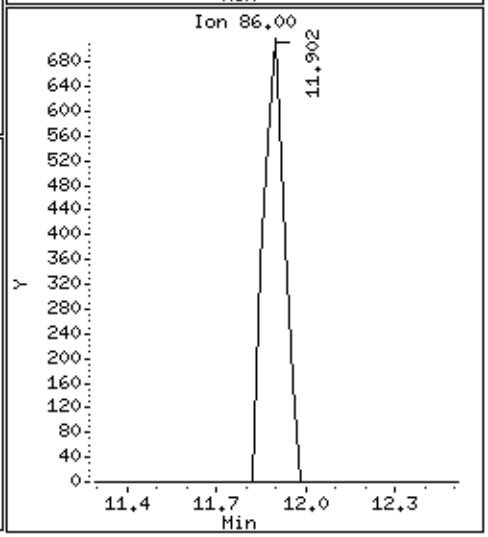












Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

Instrument: msdt.i

Sample Info: 200ml #9546

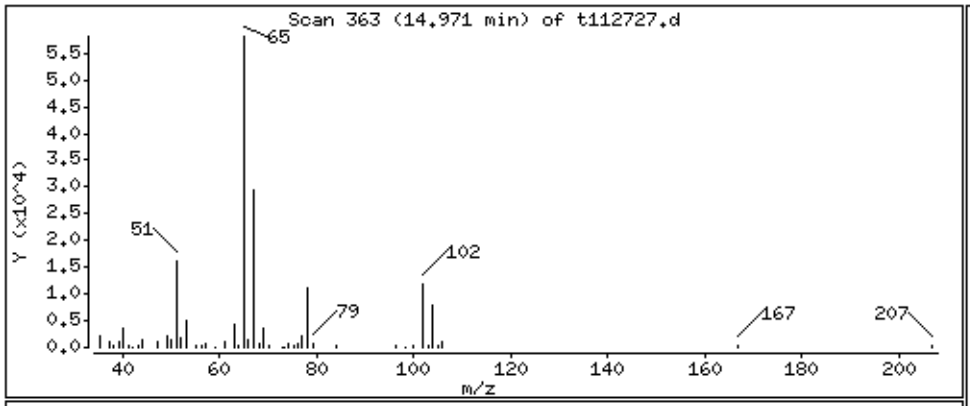
Operator: lo

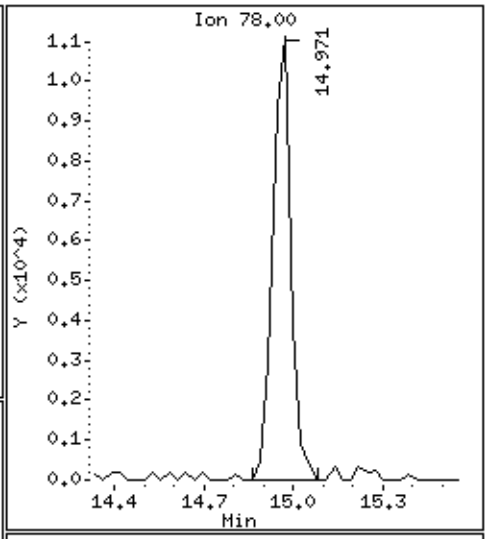
Column phase: RTx-624

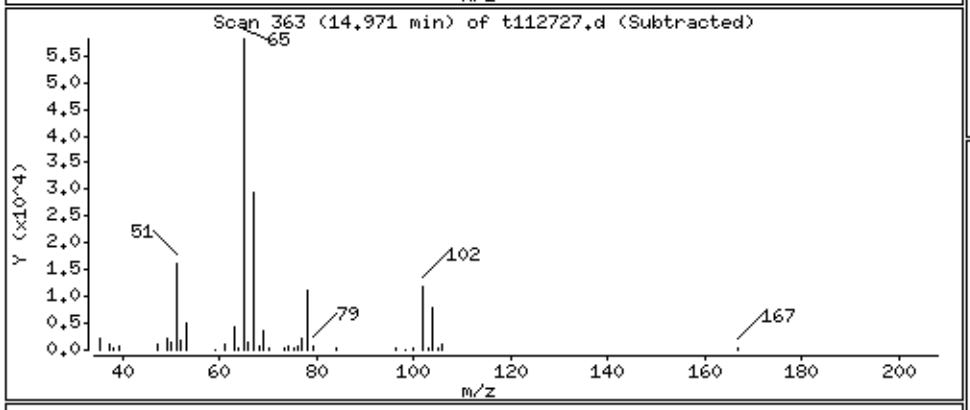
Column diameter: 0.53

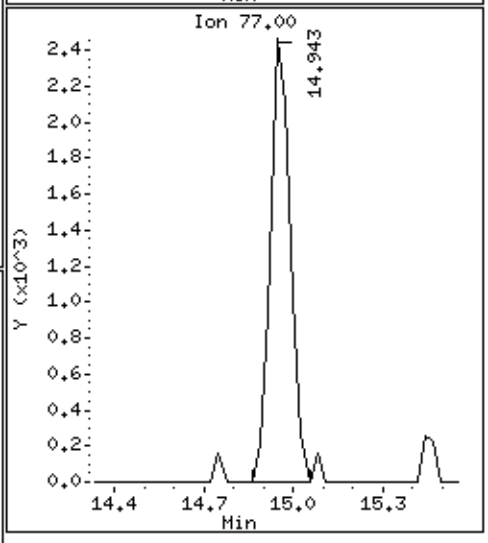
91 Benzene

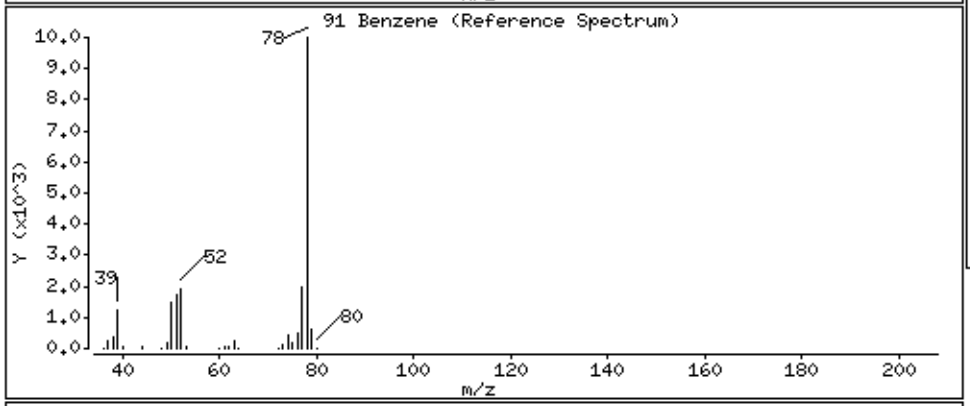
Concentration: 1.385 PPBV

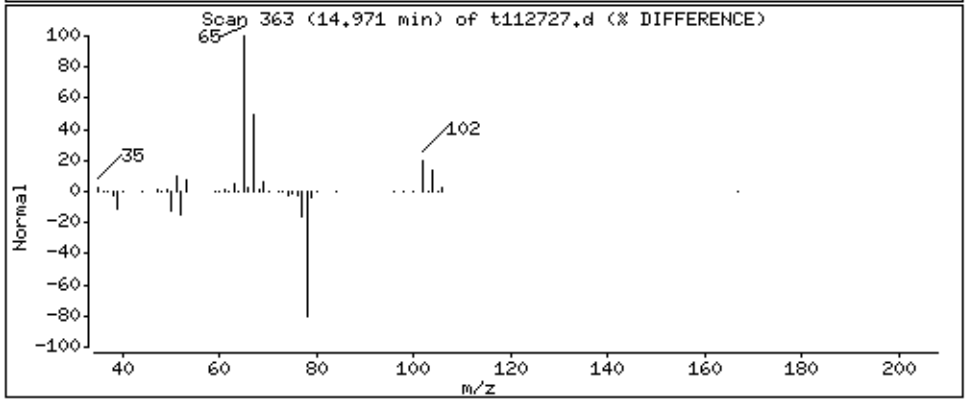












Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

Instrument: msdt.i

Sample Info: 200ml #9546

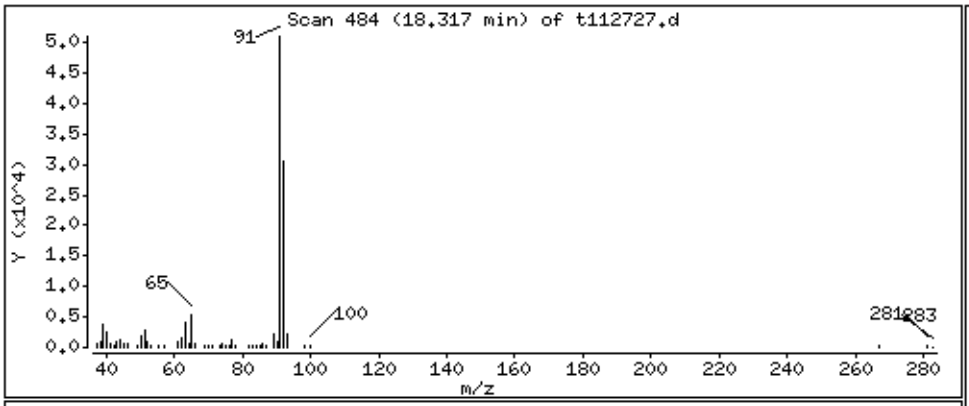
Operator: lo

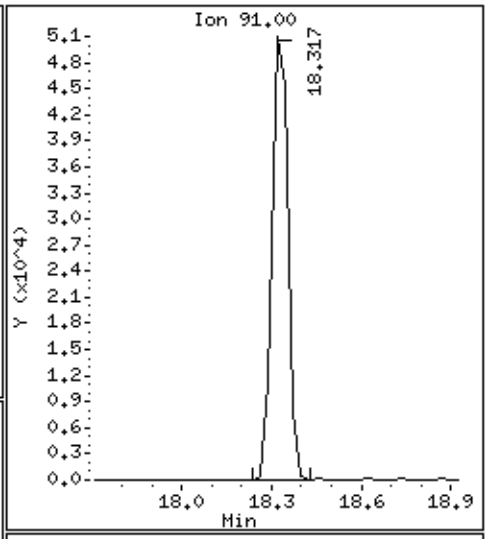
Column phase: RTx-624

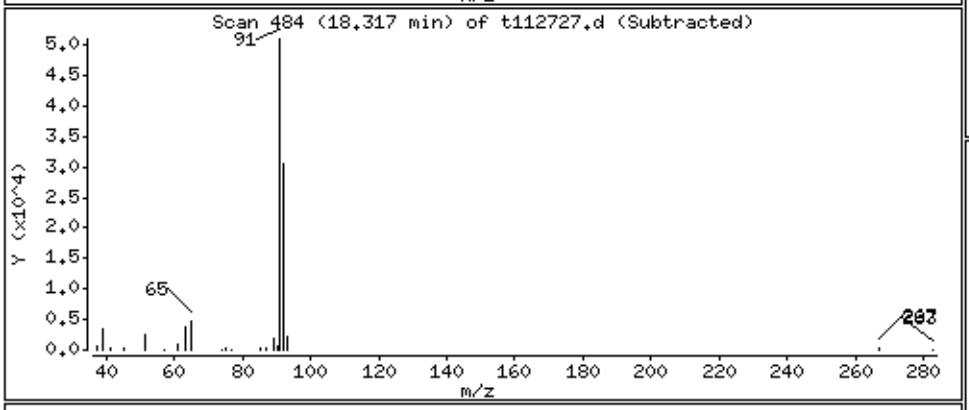
Column diameter: 0.53

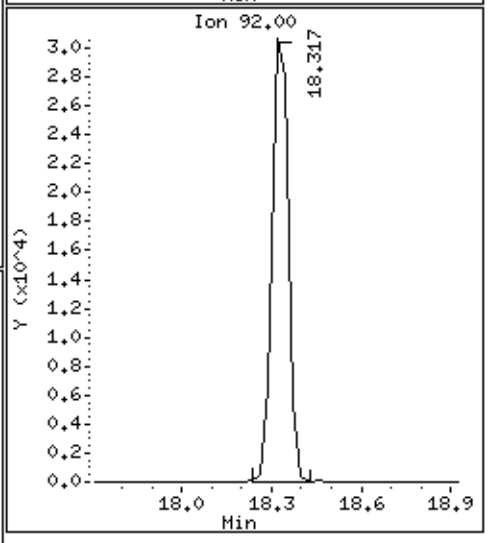
114 Toluene

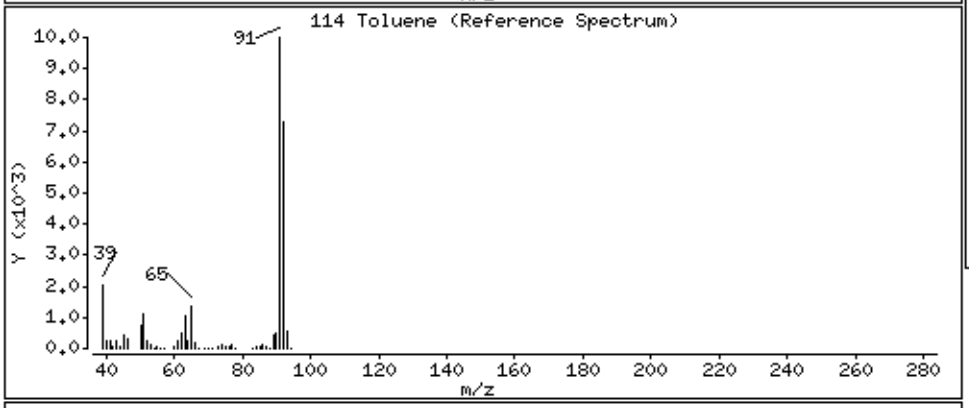
Concentration: 5.007 PPBV

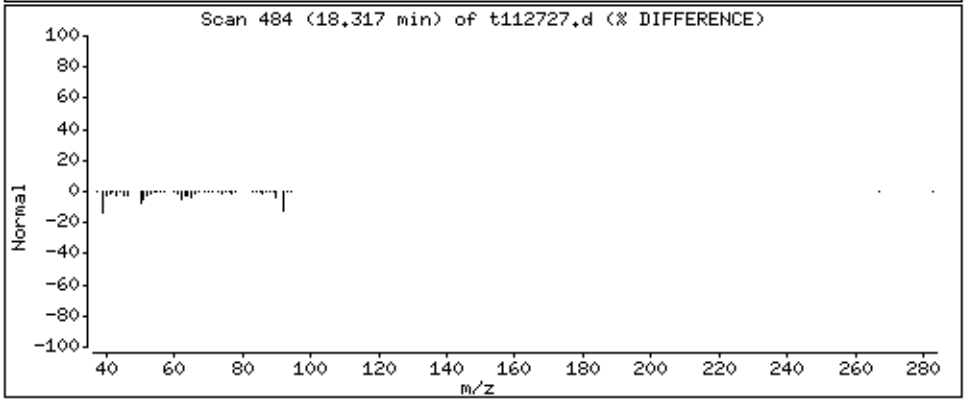












Data File: /chem/msdt.i/27Nov2007.b/t112727.d

Date : 28-NOV-2007 07:57

Client ID:

Instrument: msdt.i

Sample Info: 200ml #9546

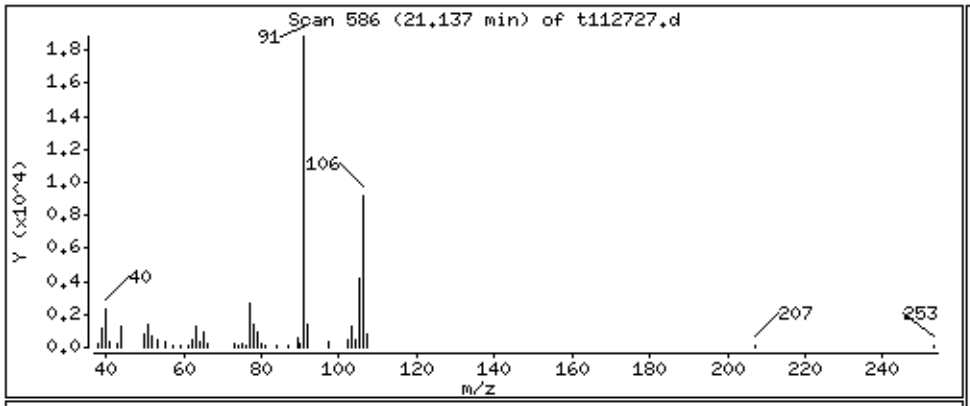
Operator: lo

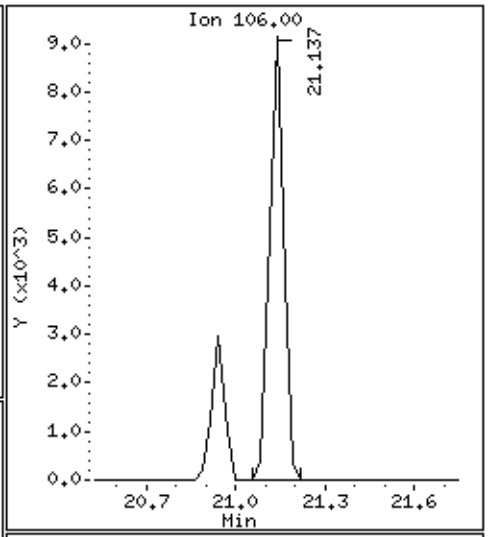
Column phase: RTx-624

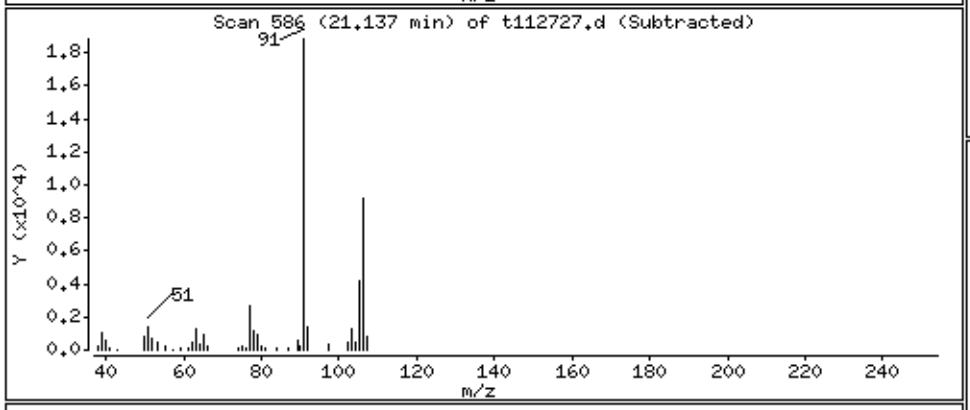
Column diameter: 0.53

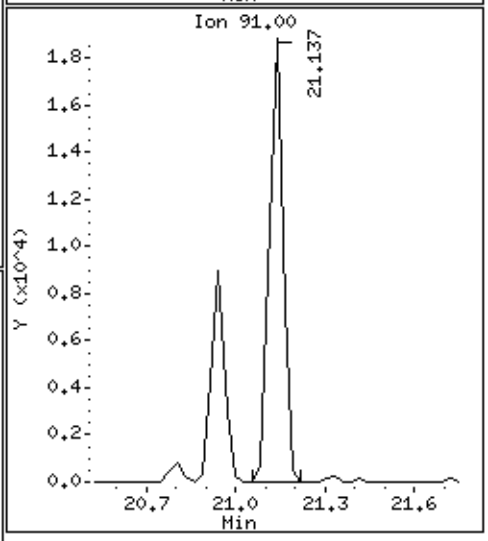
129 m,p-Xylene

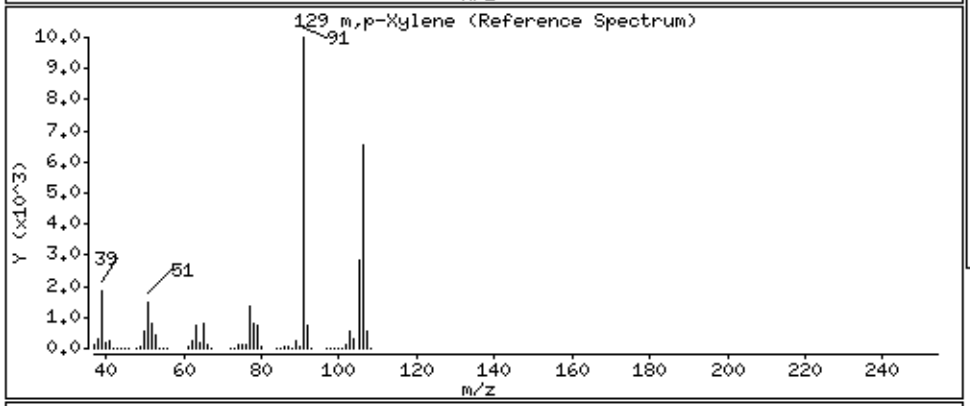
Concentration: 1.398 PPBV

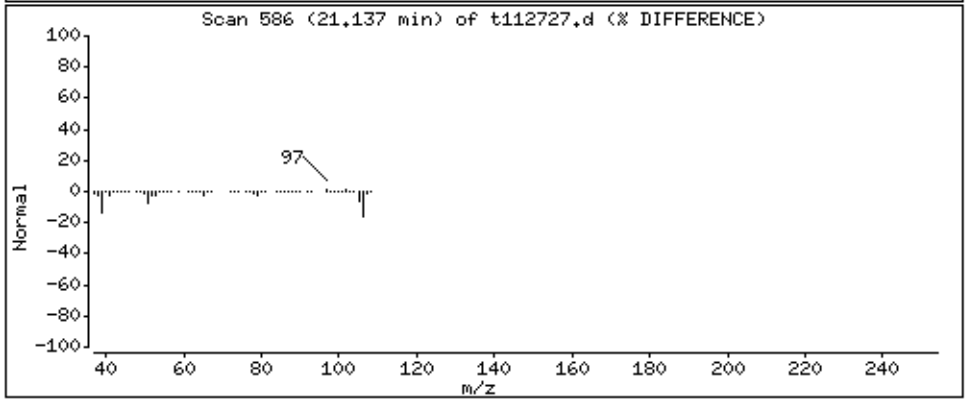












QC Results and Raw Data

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0711309-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 12:26 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#: 0711309-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 12:26 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/27Nov2007.b/t112705.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 27-NOV-2007 12:26
Operator : sjr Inst ID: msdt.i
Smp Info : 200mL #12941
Misc Info : Humid
Comment :
Method : /chem/msdt.i/27Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 12:38 sruth Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR+b.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	294840	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	227704			29.10- 129.10	77.23
13.865	13.865 (1.000)	49	293130			98.91- 198.91	99.42
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1368684	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	217952			0.00- 66.07	15.92
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1114089	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	609450			4.93- 104.93	54.70
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.944	14.943 (1.078)	65	429022	22.5730	22.573	80.00- 120.00	100.00
14.944	14.943 (1.078)	67	216796			5.03- 105.03	50.53
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.206	18.206 (1.167)	98	1258459	27.1623	27.162	80.00- 120.00	100.00
18.206	18.206 (1.167)	70	133016			0.00- 61.02	10.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.206	18.206 (1.167)	100	866883			19.45- 119.45	68.88
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.796	22.796 (1.096)	174	696595	24.8910	24.891	80.00- 120.00	100.00
22.796	22.796 (1.096)	95	878446			78.50- 178.50	126.11
22.796	22.796 (1.096)	176	669957			47.58- 147.58	96.18

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112705.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: Humid

Calibration Date: 27-NOV-2007
Calibration Time: 09:05
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	363056	217834	508278	294840	-18.79
97 1,4-Difluorobenze	1717227	1030336	2404118	1368684	-20.30
126 Chlorobenzene-d5	1238462	743077	1733847	1114089	-10.04

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.81	20.48	21.14	20.81	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-Nov-2007 12:50

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Nov2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR+b.sub
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: Humid

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90 1,2-Dichloroethane	25.000	22.573	90.29	70-130
$ 113 Toluene-d8	25.000	27.162	108.65	70-130
$ 137 Bromofluorobenzene	25.000	24.891	99.56	70-130

Data File: /chem/msdt.i/27Nov2007.b/t112705.d

Page 1

Date : 27-NOV-2007 12:26

Client ID: Lab Blank

Instrument: msdt.i

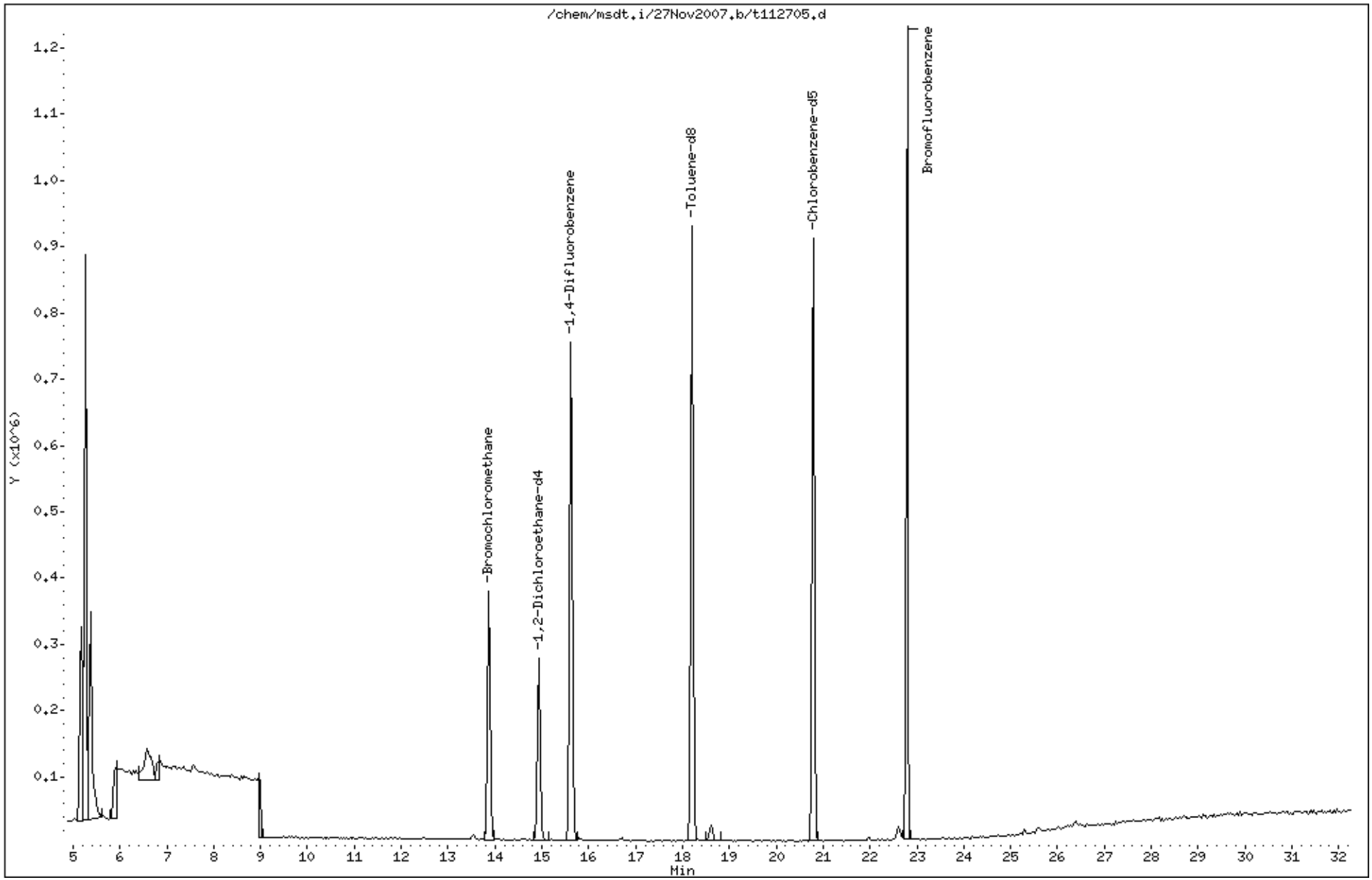
Sample Info: 200mL #12941

Operator: sjr

Column phase: RTx-624

Column diameter: 0.53

0039



LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 0711309

	CLIENT SAMPLE NO.	SURROGATE % RECOVERY								
		1,2-Dichloroethane-d4	#	Toluene-d8	#	4-Bromofluorobenzene	#		#	TOTAL OUT
01	UW-AMS 5	90		110		98				0
02	DW-AMS 1	92		107		100				0
03	Lab Blank	90		109		100				0
04	CCV	101		101		99				0
05	LCS	97		101		99				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: 0711309

Lab File ID: t112702.d | Date Analyzed: 11/27/2007

Instrument ID: msdt.i | Time Analyzed: 09:05 AM

		Chlorobenzene-d5 Area	#	RT	#	1,4-Difluorobenzene Area	#	RT	#	Bromochloromethane Area	#	RT	#
	24-HOUR STD	1238462		20.81		1717227		15.61		363056		13.87	
	UPPER LIMIT	1733847		21.14		2404118		15.94		508278		14.20	
	LOWER LIMIT	743077		20.48		1030336		15.28		217834		13.54	
	CLIENT SAMPLE NO												
01	UW-AMS 5	1082142		20.81		1312160		15.61		284687		13.87	
02	DW-AMS 1	1039254		20.81		1333704		15.63		282773		13.87	
03	Lab Blank	1114089		20.81		1368684		15.61		294840		13.87	
04	CCV	1238462		20.81		1717227		15.61		363056		13.87	
05	LCS	1210842		20.81		1669312		15.61		361063		13.86	
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 : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
Curve Type : Average

Calibration File Names:
Level 1: /chem/msdt.i/23Nov2007.b/t112302.d
Level 2: /chem/msdt.i/21Nov2007.b/t112103.d
Level 3: /chem/msdt.i/26Nov2007.b/t112602.d
Level 4: /chem/msdt.i/26Nov2007.b/t112608.d
Level 5: /chem/msdt.i/26Nov2007.b/t112603.d
Level 6: /chem/msdt.i/21Nov2007.b/t112107.d
Level 7: /chem/msdt.i/26Nov2007.b/t112604.d

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
1 Dimethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
204 Propane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
2 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
4 2-Methyl-1-Butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
5 Freon 143a	+++++	+++++	1.54655	1.31158	1.60651	+++++	1.96677	1.60785	16.856
6 Freon142b	+++++	+++++	2.21817	2.00205	2.55010	+++++	2.78722	2.38938	14.567

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Cal Date : 27-Nov-2007 14:03 lover
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							
7 Propanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
8 Freon 14	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
9 Freon 13	+++++	+++++	2.29492	2.11800	2.54471	+++++		
	1.76394						2.18039	15.053
199 Vinyl Fluoride	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
13 Freon 134a	+++++	+++++	1.09127	0.94650	1.16608	+++++		
	1.32228						1.13153	13.827
10 Bromoethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
11 Propylene	+++++	+++++	0.72558	0.65992	0.62849	0.59709		
	0.71954						0.66613	8.428
15 Freon 152a	+++++	+++++	0.56426	0.47439	0.60412	+++++		
	0.69961						0.58560	15.947
12 Dichlorodifluoromethane/Fr12	+++++	3.50242	3.60064	3.77635	3.57377	3.47716		
	4.09604						3.67107	6.355
17 Freon 22	+++++	+++++	0.28504	0.25517	0.30782	+++++		
	0.34774						0.29894	13.054

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
14 2,3-Dimethylbutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
16 Freon 114	+++++	2.33292	2.14875	2.49476	2.30497	2.24733	2.75549	2.38070	9.069
18 Chloromethane	+++++	+++++	0.90394	0.83722	0.79563	0.77526	0.92274	0.84696	7.666
21 Isobutane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
20 Vinyl Chloride	+++++	0.94156	1.11057	1.20736	1.17561	1.15564	1.36031	1.15851	11.758
19 Butane	+++++	+++++	0.21370	0.25678	0.22426	0.20885	0.23020	0.22676	8.282
22 1,3-Butadiene	+++++	0.81436	0.89224	1.12603	0.97142	0.90013	0.95504	0.94320	11.162
26 Methanol	+++++	+++++	+++++	0.23807	0.24297	+++++	0.28987	0.25697	11.129
25 Bromomethane	+++++	0.79613	0.87758	1.09925	1.08838	1.09367	1.33975	1.04913	18.282
28 2,4-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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 Chloroethane	+++++	0.38297	0.51840	0.59779	0.58379	0.59717	0.72760	0.56795	19.944
29 Isopentane	+++++	+++++	1.72717	2.05345	1.86900	1.79074	1.72025	1.83212	7.503
30 2-Butanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
34 Dichlorofluoromethane/Fr21	+++++	+++++	1.93431	1.62716	2.10340	+++++	2.34386	2.00218	15.046
35 1-Pentene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
31 Trichlorofluoromethane/Fr11	+++++	4.10981	4.59215	5.53054	4.91882	4.68522	4.75085	4.76457	9.734
37 Pentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
32 3-Methyl-1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
33 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
36 Methacrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD
38 Ethanol	+++++	+++++	0.54721	0.63212	0.54684	0.49185	0.49695	0.54299	10.382
39 Ethyl Ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
40 Freon123a	+++++	+++++	1.94260	1.69019	2.19782	+++++	2.01184	1.96061	10.713
41 Freon123	+++++	+++++	2.75451	2.36366	2.98234	+++++	2.75813	2.71466	9.472
44 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 Freon 113	+++++	2.31078	2.82918	3.24683	2.98951	2.96199	2.88629	2.87076	10.786
43 1,1-Dichloroethene	+++++	1.64263	2.10226	2.52865	2.31020	2.24547	2.21345	2.17378	13.623
45 Acetone	+++++	+++++	0.82475	0.86416	0.77868	0.75376	0.74424	0.79312	6.365
46 2-Propanol	+++++	+++++	3.62035	4.41221	4.08278	4.01334	3.80219	3.98617	7.518
48 Ethyl acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

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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							
47 Carbon Disulfide	+++++	2.86485	3.42390	4.04234	3.82908	3.83880		
	4.33590						3.72248	13.845
49 Iodomethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
50 Methyl Methacrylate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
23 Methyl acetate	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
51 3-Chloropropene	+++++	+++++	0.60369	0.85195	0.80655	0.80664		
	0.78926						0.77162	12.533
52 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
53 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
55 Cyclopentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
56 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
54 Methylene Chloride	+++++	1.32453	1.31636	1.41328	1.27362	1.21197		
	1.30724						1.30783	5.052

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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
57 tert-Butyl-Alcohol	+++++	+++++	1.88380	1.14965	1.21554	+++++	1.04786	1.32421	28.650
58 Freon143a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
59 2,3,4-Trimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
60 MTBE	+++++	1.78296	1.82181	2.10300	1.88646	2.15582	2.52558	2.04594	13.654
61 trans-1,2-Dichloroethene	+++++	1.44448	1.64779	1.95222	1.88004	1.88406	1.85676	1.77756	10.862
62 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
66 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
63 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
64 Pentanal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
65 Hexane	+++++	2.27569	2.67533	3.21369	3.05738	3.02708	3.24441	2.91560	12.803

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							
67 2,4,4-Trimethyl-1-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
68 Isopropyl ether	+++++	+++++	3.84074	3.37153	4.58385	+++++		
	4.62518						4.10532	14.801
69 Vinyl Acetate	+++++	+++++	0.36829	0.49620	0.48367	0.50840		
	0.52899						0.47711	13.222
70 1,1-Dichloroethane	+++++	2.30431	2.79046	3.43078	3.19713	3.19847		
	3.20270						3.02064	13.490
71 1-Propanol	+++++	+++++	0.23636	0.15769	0.23530	+++++		
	0.23478						0.21603	18.006
24 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
72 2,4,4-Trimethyl-2-pentene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
73 t-Butylethyl Ether	+++++	+++++	2.09818	1.71005	2.06590	+++++		
	2.10676						1.99522	9.569
74 Butanal	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
77 Ethyl Acetate	+++++	+++++	0.39633	0.37031	0.49078	+++++		
	0.47326						0.43267	13.499

Air Toxics Ltd.

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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
78 2,2-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
75 2-Butanone	+++++	0.68206	0.89205	1.09161	1.05019	1.07110	1.11493	0.98366	17.030
76 cis-1,2-Dichloroethene	+++++	1.60324	1.99804	2.46268	2.29353	2.32637	2.30679	2.16511	14.528
79 Methyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
80 Tetrahydrofuran	+++++	1.34629	1.48377	1.84256	1.70788	1.69733	1.70782	1.63094	11.095
82 Chloroform	2.29391	2.59340	3.36210	4.01510	3.73382	3.77471	3.80208	3.36787	19.771
84 2,3-Dimethylpentane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
83 1,1,1-Trichloroethane	+++++	2.80116	3.56183	3.85429	3.63065	3.61986	3.93333	3.56685	11.285
85 Cyclohexane	+++++	1.49426	1.73022	2.14652	2.09597	2.14083	2.39566	2.00058	16.360
86 1-Bromo-2-Chloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

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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	
88 1,1-Dichloropropene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
87 Carbon Tetrachloride	+++++	2.50109	3.24928	3.71050	3.48084	3.44130	3.70382	3.34780	13.434	
99 Isobutanol	+++++	+++++	0.00453	0.00425	0.00712	+++++	0.00888	0.00620	35.680	
89 2,2,4-Trimethylpentane	+++++	6.01625	7.00493	8.08998	7.15766	6.95976	7.40121	7.10496	9.498	
91 Benzene	0.95618	0.88915	1.00030	1.21177	1.14717	1.11999	1.14151	1.06658	11.101	
92 tert-amyl-Methyl Ether	+++++	+++++	2.71530	2.18238	2.43527	+++++	2.10997	2.36073	11.626	
96 2-Heptanone	+++++	+++++	1.03462	1.13205	2.01717	+++++	2.45903	1.66072	41.658	<-
93 1,2-Dichloroethane	+++++	0.41019	0.46753	0.58346	0.53344	0.51824	0.49587	0.50146	11.811	
94 Heptane	+++++	0.28573	0.32331	0.43539	0.42104	0.40486	0.43870	0.38484	16.750	
95 Thiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	

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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
98 1-Butanol	+++++	+++++	0.10085	0.09838	0.18297	+++++	+++++	0.12740	37.789
100 trans-1,4-dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
101 Trichloroethene	+++++	0.35627	0.47140	0.56368	0.51858	0.50233	0.50926	0.48692	14.505
102 Methyl Cyclohexane	+++++	2.05069	2.27887	2.76087	2.68838	2.70069	3.06190	2.59023	14.042
103 Alphamethylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
104 1,2-Dichloropropane	+++++	0.31528	0.35519	0.40116	0.37409	0.36079	0.38169	0.36470	7.999
106 1,4-Dioxane	+++++	+++++	0.25082	0.33304	0.33487	0.31599	0.34689	0.31632	12.089
105 Dibromomethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
107 Bromodichloromethane	+++++	0.58909	0.73929	0.91743	0.84992	0.82371	0.84741	0.79448	14.579
108 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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
200 2-Chloroethyl vinyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
109 Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
110 cis-1,3-Dichloropropene	+++++	0.39434	0.51807	0.66809	0.63512	0.60521	0.66529	0.58102	18.377
111 4-Methyl-2-pentanone	+++++	0.23698	0.27864	0.41546	0.40815	0.39500	0.44714	0.36356	23.304
112 Octane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
114 Toluene	+++++	0.91840	1.08008	1.30553	1.24428	1.19251	1.35961	1.18340	13.660
115 Undecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
116 trans-1,3-Dichloropropene	+++++	0.53829	0.77024	1.01467	0.94964	0.89862	0.88526	0.84279	20.127
117 1,1,2-Trichloroethane	+++++	0.40104	0.55971	0.71133	0.65246	0.61446	0.60301	0.59034	17.929
120 Tetrachloroethene	+++++	0.55819	0.75235	0.94980	0.87163	0.81833	0.78610	0.78940	16.822

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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							
121 2-Hexanone	+++++	+++++	0.53366	0.84422	0.83171	0.79943		
	0.81867						0.76554	17.070
118 1,3-Dichloropropane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
119 Butyl Acetate	+++++	+++++	0.19184	0.18494	0.29204	+++++		
	0.36585						0.25867	33.483
122 Dibromochloromethane	+++++	0.66292	0.89136	1.19834	1.10324	1.04375		
	0.99444						0.98234	19.072
123 1,2-Dibromoethane	+++++	0.65991	0.85652	1.12598	1.05468	1.00759		
	0.98964						0.94905	17.612
127 Chlorobenzene	+++++	1.05245	1.19171	1.52058	1.44322	1.37153		
	1.36077						1.32338	12.988
124 Nonane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
128 Ethyl Benzene	+++++	0.45011	0.63535	0.79402	0.76511	0.73019		
	0.73269						0.68458	18.507
125 1,1,1,2-Tetrachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
129 m,p-Xylene	+++++	0.57463	0.72712	0.99793	0.95797	0.92446		
	0.92128						0.85057	19.325

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
Curve Type : Average

Compound	0.20000 Level 1	0.50000 Level 2	2.000 Level 3	25.000 Level 4	50.000 Level 5	100.000 Level 6	200.000 Level 7	___ RRF	% RSD	
130 o-Xylene	+++++	0.54263	0.65293	0.92409	0.88543	0.85337	0.84399	0.78374	19.246	
131 Styrene	0.61568	0.83130	1.04212	1.58519	1.55527	1.51726	1.52483	1.23881	32.499	<-
132 alpha-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
133 Bromoform	+++++	0.64342	0.79330	1.07280	1.04595	1.02177	1.00056	0.92963	18.510	
134 Cumene	1.32332	1.52327	1.86225	2.53730	2.43673	2.35124	2.37283	2.05813	23.656	
135 Cyclohexanone	+++++	+++++	0.25675	0.25096	0.38587	+++++	0.44027	0.33346	28.368	
140 1,1,2,2-Tetrachloroethane	+++++	0.87915	1.14560	1.41240	1.36539	1.34501	1.33559	1.24719	16.212	
136 Bromobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
138 1,2,3-Trichloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
142 Propylbenzene	+++++	1.90562	2.29708	3.12509	3.04444	2.95229	2.94975	2.71238	18.195	

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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							
139 Decane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
144 beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
145 4-Ethyltoluene	+++++	1.57859	1.97893	2.67059	2.58333	2.51806		
	2.51156						2.30684	18.727
141 2-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
147 1,3,5-Trimethylbenzene	+++++	1.25786	1.68230	2.21802	2.14192	2.07872		
	2.08133						1.91002	19.359
143 4-Chlorotoluene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
146 Diisobutyl Ketone	+++++	+++++	0.57298	0.59865	1.00553	+++++		
	1.11376						0.82273	33.705
148 tert-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
150 1,2,4-Trimethylbenzene	+++++	1.20977	1.51065	2.13392	2.07891	2.00252		
	1.99497						1.82179	20.503
201 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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
152 D-Limonene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
149 sec-Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
151 bis(2-chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
153 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
155 1,3-Dichlorobenzene	+++++	1.00350	1.16648	1.44481	1.39055	1.34941	1.32623	1.28016	12.868
154 1,2,3-Trimethylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
156 1,4-Dichlorobenzene	+++++	0.99204	1.23462	1.47365	1.43574	1.38986	1.38305	1.31816	13.600
157 Indan	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
159 alpha-Chlorotoluene	+++++	1.20671	1.49327	2.14205	2.11516	2.09463	2.13159	1.86390	21.920
158 Butylbenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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							
160 Indene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
161 1,2-Dichlorobenzene	*****	0.94916	1.20554	1.42015	1.38921	1.32430		
	1.32138						1.26829	13.630
203 Hexachloroethane	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
162 1,2-Dibromo-3-Chloropropane	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
163 Aniline	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
164 Isooctyl Alcohol	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
165 1,2,4-Trichlorobenzene	*****	*****	1.18734	1.20115	1.32931	1.13822		
	1.20929						1.21306	5.819
166 Hexachlorobutadiene	*****	*****	0.92568	0.86990	0.92370	0.84984		
	0.86531						0.88689	3.981
167 Naphthalene	*****	*****	1.58028	1.69783	1.98661	1.66153		
	1.79853						1.74496	8.950
202 1,2,3-Trichlorobenzene	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Cal Date : 27-Nov-2007 14:03 lover
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
168 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
169 1,3,5-Trichlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
170 Isooctyl Acrylate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 90 1,2-Dichloroethane-d4	1.55234	1.60269	1.58244	1.57657	1.57184	1.65678	1.73821	1.61155	4.031
$ 113 Toluene-d8	0.82244	0.85056	0.84326	0.82462	0.82887	0.82348	0.93069	0.84627	4.580
$ 137 Bromofluorobenzene	0.57952	0.63358	0.62503	0.62525	0.63434	0.65043	0.64784	0.62800	3.754

Calibration History

Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Start Cal Date: 21-NOV-2007 14:44
End Cal Date : 26-NOV-2007 15:28

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.20000		
23-NOV-2007 08:54	AFCEElow	/chem/msdt.i/23Nov2007.b/t112302.d
Cal Level: 2 , Cal Amount: 0.50000		
21-NOV-2007 14:44	AT04low+ENSR	/chem/msdt.i/21Nov2007.b/t112103.d
Cal Level: 3 , Cal Amount: 2.00000		
26-NOV-2007 09:59	sp22b	/chem/msdt.i/26Nov2007.b/t112602.d
21-NOV-2007 15:48	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112104.d
Cal Level: 4 , Cal Amount: 25.00000		
26-NOV-2007 15:28	sp22b	/chem/msdt.i/26Nov2007.b/t112608.d
21-NOV-2007 16:33	AT04ENSR	/chem/msdt.i/21Nov2007.b/t112105.d
Cal Level: 5 , Cal Amount: 50.00000		
26-NOV-2007 10:49	sp22b	/chem/msdt.i/26Nov2007.b/t112603.d
21-NOV-2007 17:45	AT04ENSR	/chem/msdt.i/21Nov2007.b/t112106.d
Cal Level: 6 , Cal Amount: 100.00000		
21-NOV-2007 18:24	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112107.d
Cal Level: 7 , Cal Amount: 200.00000		
26-NOV-2007 11:39	sp22b	/chem/msdt.i/26Nov2007.b/t112604.d
21-NOV-2007 19:02	AT04mdl+ENSR	/chem/msdt.i/21Nov2007.b/t112108.d

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 50.000		
26-NOV-2007 12:34	AT04ENSR	/chem/msdt.i/26Nov2007.b/t112605.d
Ccal Level: 5 , Ccal Amount: 50.000		
26-NOV-2007 10:49	sp22b	/chem/msdt.i/26Nov2007.b/t112603.d
Ccal Level: 5 , Ccal Amount: 50.000		
26-NOV-2007 10:49	sp22bccv	/chem/msdt.i/26Nov2007.b/t112603a.d

Initial Calibration Narrative

A 7 point initial calibration was analyzed on MSD-T on November 21, 2007.

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

2. As noted on the accompanying analytical run logs, the 0.2ppbv, Level 1 point was re-analyzed due to:
   a. anomalous unacceptable linearity for Cumene and Styrene.

@ Air Toxics Ltd.

MSD-T

Logbook #: 1599

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	18.19
75	30.0 – 60.0% of mass 95	48.59
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.52
173	Less than 2.0% of mass 174	(0.75)[1]
174	Greater than 50.0% of mass 95	76.68
175	5.0 – 9.0% of mass 174	(7.15)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.60)[1]
177	5.0 – 9.0% of mass 176	(6.53)[2]

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

BFB Injection Date: 11/21/07
BFB Injection Time: 1334
BFB File ID: T112101
Tekmar Purge Flow: Z [initials] 11/21/07
Vacuum:

IS/S Std.#: 1443-355	Exp. Date: 2/5/08
BCM	306974
1,4-DFB	1370844
CB-d5	968009

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

Verify 176/174 m/z Ratio: 980730/1015296x100 = 96.595%

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(1136245)}{(1370844)} \times \frac{(25.00)}{(0.84627)} = 24.48584$

Reported Result 24.486

File ID:	T1121060
Compound:	Tol-d8
Initials:	[initials]

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	T112101	BFB TUNE CHECK	1467-5B	50ng	2.0uL	1.00	11/21/07	1334	[initials]	
2	X	02	ICAL level 1	176-92	0.2ppbV	0.2mL		↓	1406	[initials]	ICAL +14 @ 1121a
3	V	03	2	↓	0.5ppbv	0.5mL			1444	↓	
4	V	04	3		2.0ppbv	2.0mL			1548		
5	V	05	4		25ppbv	25mL			1633		
6	V	06	5		50ppbv	50mL			1745		
7	V	07	6		100ppbv	100mL			1824		
8	V	08	7	↓	200ppbv	200mL			1902		w level 2
9	X	09	System Blank	3490	Humid	200mL			2232	[initials]	

Signature: [signature]   Date: 11/23/07

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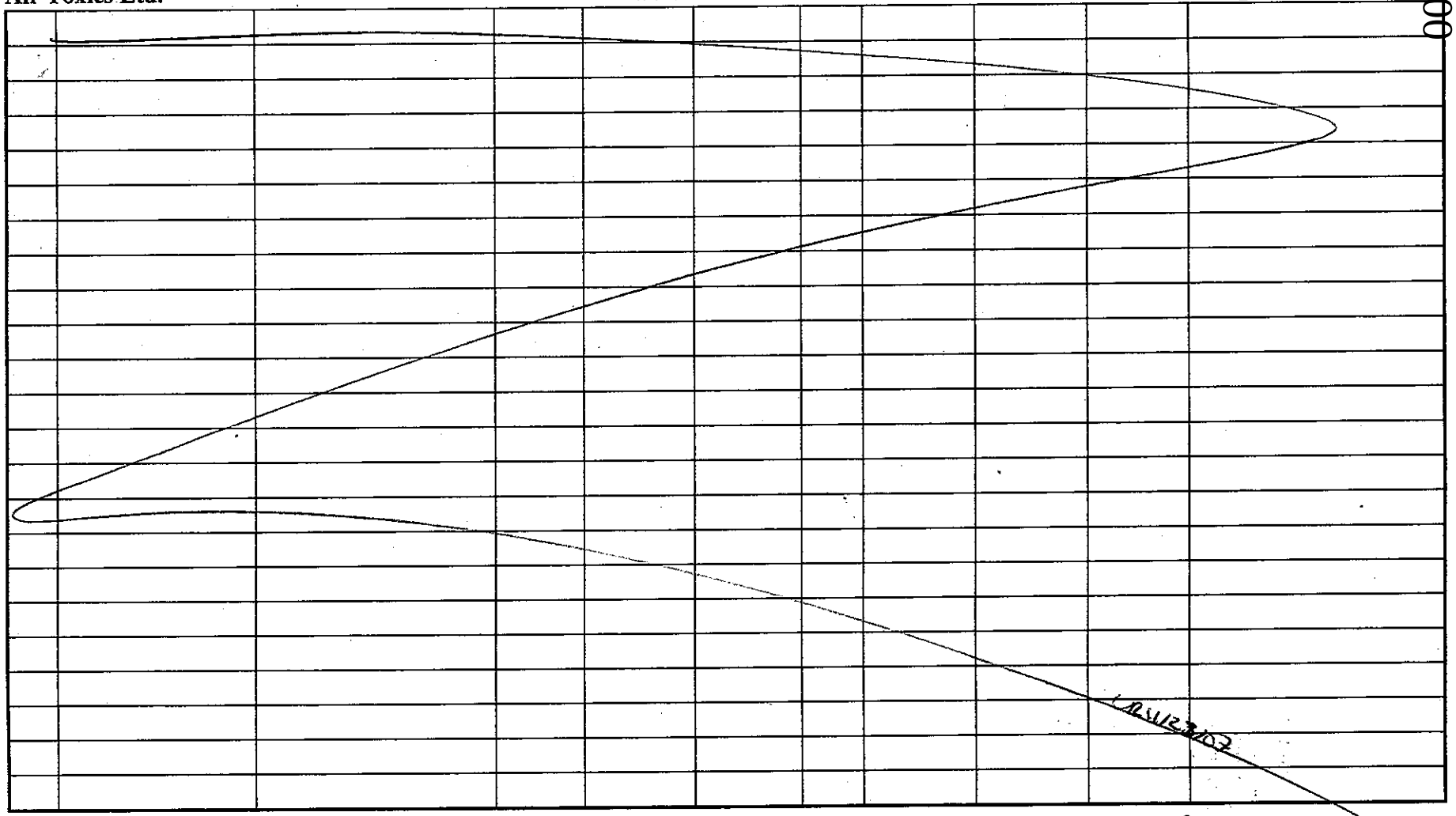
MSD-T

Logbook #: 1599

0064



Comments: Flow controller #AA98123220

Flow Meter #118812 Exp 7/11/08

Actual	Nominal
25 mL/min	22.9 mL/min

Signature

11/23/07
Date

@ Air Toxics Ltd.

MSD-T

Logbook #: 1599

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	16.15
75	30.0 – 60.0% of mass 95	45.87
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.44
173	Less than 2.0% of mass 174	(0.78)[1]
174	Greater than 50.0% of mass 95	74.26
175	5.0 – 9.0% of mass 174	(7.21)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.45)[1]
177	5.0 – 9.0% of mass 176	(6.50)[2]

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

BFB Injection Date: 11/23/07

BFB Injection Time: 0828

BFB File ID: T112301

Tekmar Purge Flow: 2

Vacuum: LR 11/21/07

IS/S Std.#: 1443-355	Exp. Date: 2/5/08
BCM 3048998	
1,4-DFB 17168160	
CB-d5 1199182	

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

Verify 176/174 m/z Ratio: 1105920/1146880 x100 = 96.43

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

Calculation Check:

ppbv of compound $= \frac{Area_{Sample}}{Area_{IS}} \times \frac{Conc._{IS}}{RRF} = \frac{(\ 1459719\ )}{(\ 1716816\ )} \times \frac{(\ 25.0\ )}{(\ 6.84627\ )} = 25.118$

Reported Result 25.117

File ID: T112303	
Compound: Tol-d8	
Initials: LR	

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	T112301	BFB Tune Check	1476-58	50mg	2µl	1.00	11/23/07	0828	LR	
2	✓	02	ICAL Lvl 1	1576-92	0.2ppbv	0.2mL			0854	LR	
3	✓	03	CCV-1 (200ppbv)	↓	50ppbv	50mL			0932	LR	
4	✓	04	LCS-1 (200ppbv)	1576-108	↓	↓			1012	LR	ICAL LCS
5	X	05	Lab Blank	34190	humid	200mL			1055	LR	
6	✓	06	Lab Blank	1579	↓	↓	↓		1143	LR	
7	X	07	071328-01A	13385	6.0"Hg→15psi	50mL	8.08		1225	LR	RR @ 35mL
8	✓	08	071328A-01A	03788	6.0"Hg→5psi	200mL	1.68		1303	LR	
9	✓	09	071092A-02A	35155	5.0"Hg→5psi	↓	1.61	↓	1351	XP/LR	

Signature

11/29/07
Date

@ Air Toxics Ltd.

MSD-T

Logbook #: 1599

9900

10	✓	T112310	071109 2A	-03A	33962	8.0	200ml	1.83	11-23-2007	1472	XP/QA
11	✓	11		-04A	34725	7.0		1.75		1511	XP/QA
12	✓	12		-05A	34242	21.0		4.67		1650	XP/QA
13	✓	13		-06A	05864	21.0		4.47		1629	XP/QA
14	✓	14	071120 3A	-01A	34431	4.0	2000ml	2.33		1714	XP/QA
15	✓	15		-02A	33386	4.0	200ml	2.33		1752	XP/QA
16	✓	16		-03A	5324	4.0	200ml	2.33		1834	XP/QA
17	✓	17		-04A	2061	25	200ml	2.20		1914	XP/QA
18	✓	18		-05A	34124	5.0	200ml	2.42		2006	XP/QA
19	✓	19		-06A	9464	25	200ml	2.20		2049	XP/QA
20	✓	20		-07A	9443	5.0	200ml	2.47		2127	XP/QA
21	✓	21		-09A	2203	0.0	200ml	2.03		2208	XP/QA
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											

QA 11/27/07

Comments:

QA 11/27/07

Signature

11/24/07
Date

@ Air Toxics Ltd.

MSD-T

Logbook #: 1599

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	17.59
75	30.0 – 60.0% of mass 95	48.58
95	Base peak, 100.00% relative abundance	100.00
96	5.0 – 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	(0.74)[1]
174	Greater than 50.0% of mass 95	73.17
175	5.0 – 9.0% of mass 174	(7.27)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(96.78)[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: 11/26/14

BFB Injection Time: 0857

BFB File ID: T112601

Tekmar Purge Flow: 4/20/07

Vacuum:

IS/S Std.#:	1443-358	Exp. Date: 7/5/2008
BCM	328029	
1,4-DFB	1590892	
CB-d5	1179054	

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

Verify 176/174 m/z Ratio: 1190058 / 1229653 X 100 = 96.78

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

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}}$ = $\frac{(\ 135352\ )}{(\ 1590892\ )} \times \frac{(\ 25.00\ )}{(\ 1284627\ )}$ = 25.00

11/26/14

Reported Result 25.00

File ID:	T112605
Compound:	Tol-d8
Initials:	EA

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	T112601	BFB TUNE CHECK	1467-58	50ng	2.0mL	1.00	11/26/14	0857	EA/KR	
2	✓	02	ICAL level 3	1467-62	2.0ppbv	2.0mL			0959	KR	
3	✓	03	" 5		50ppbv	50mL			1049	KR	4p22bcv
4	✓	04	" 7		200ppbv	200mL			1139	KR	
5	✓	05	LCS-1 (200ppbv)	1576-92	50ppbv	50mL			1234	EA/KR	
6	✓	06	LCSD-1 (200ppbv)	1576-108	"	"			1321	EA/KR	
7	X	07	System Blank	N/A	0ng	200mL			1409	KR	
8	✓	08	ICAL level 4	1467-42	80ppbv	0.8mL			1528	KR	
9	X	09	System Blank	1576	Humid	200mL	↓	↓	1609	KR	

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MSD-T

Logbook #: 1599

8000

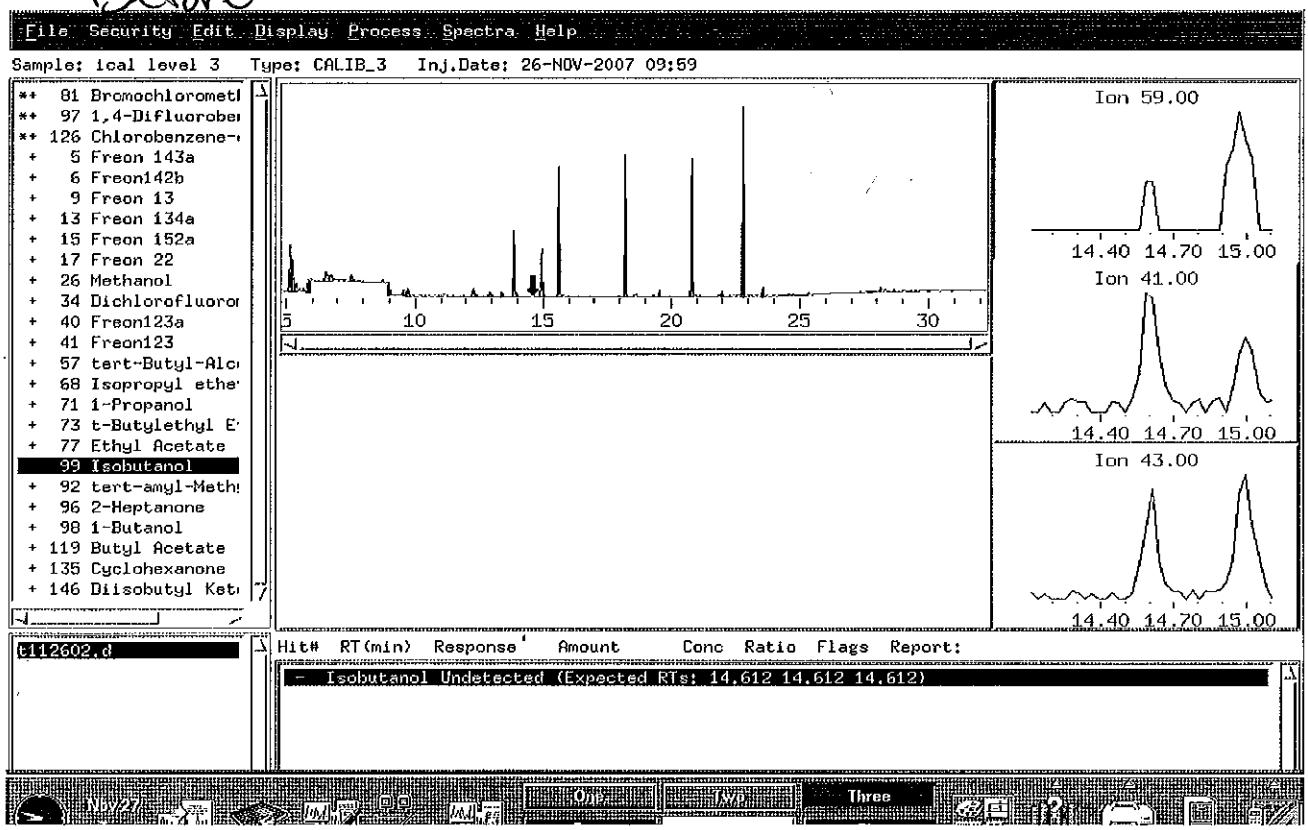
10	✓	T112610	Lab Blank	12941	Humid	200mL	1.00	11/26/07	1703	KR		
11	X	11	0711218-01A	94600	6.0"Hg-5psi	6mL	56.0		1753	KR	RR 3mL	
12	✓	12	-01A	↓	↓	3mL	112		1841	KR		
13	✓	13	-02A	9414	3.5"Hg-5psi	200mL	1.52		2017	KR		
14	✓	14	-03A	436	2.5"Hg-5psi	200mL	1.46		2115	KR		
15	✓	15	-04A	3730	6.0"Hg-5psi	2mL	168		2206	KR/LO		
16	✓	16	0711237A-02A	1734	3.0"Hg-15psi	200mL	2.24		2305	KR/		
17	X	17	-01A	31776	2.5"Hg-15psi	50mL	8.80		2350	KR/	RR@200mL	
18	✓	18	-01A	↓	↓	200mL	2.20	11/27/07	0042	KR/		
19	✓	19	-04A	1361	0.0"Hg-15psi	200mL	202		0135	KR/		
20	✓	20	-06A	1352	↓	200mL	↓		0232	KR/		
21	✓	21	-07A	12382	2.0"Hg-15psi	200mL	2.16		0337	KR/		
22	X	22	-05A	34096	0.0"Hg-15psi	1.0mL	404		0448	KR/	RR@2mL	
23	✓	23	-05A	↓	↓	2.0mL	202		0545	LO		
24	X	24	03A	122816	3.5"Hg-15psi	50mL	916		0710	LO	100X RR 15mL	
25												
26												
27												
28												
29												
30			LO 11/27/07									
31												
32												

Comments:

Laura Desmyn
Signature

11/27/07
Date

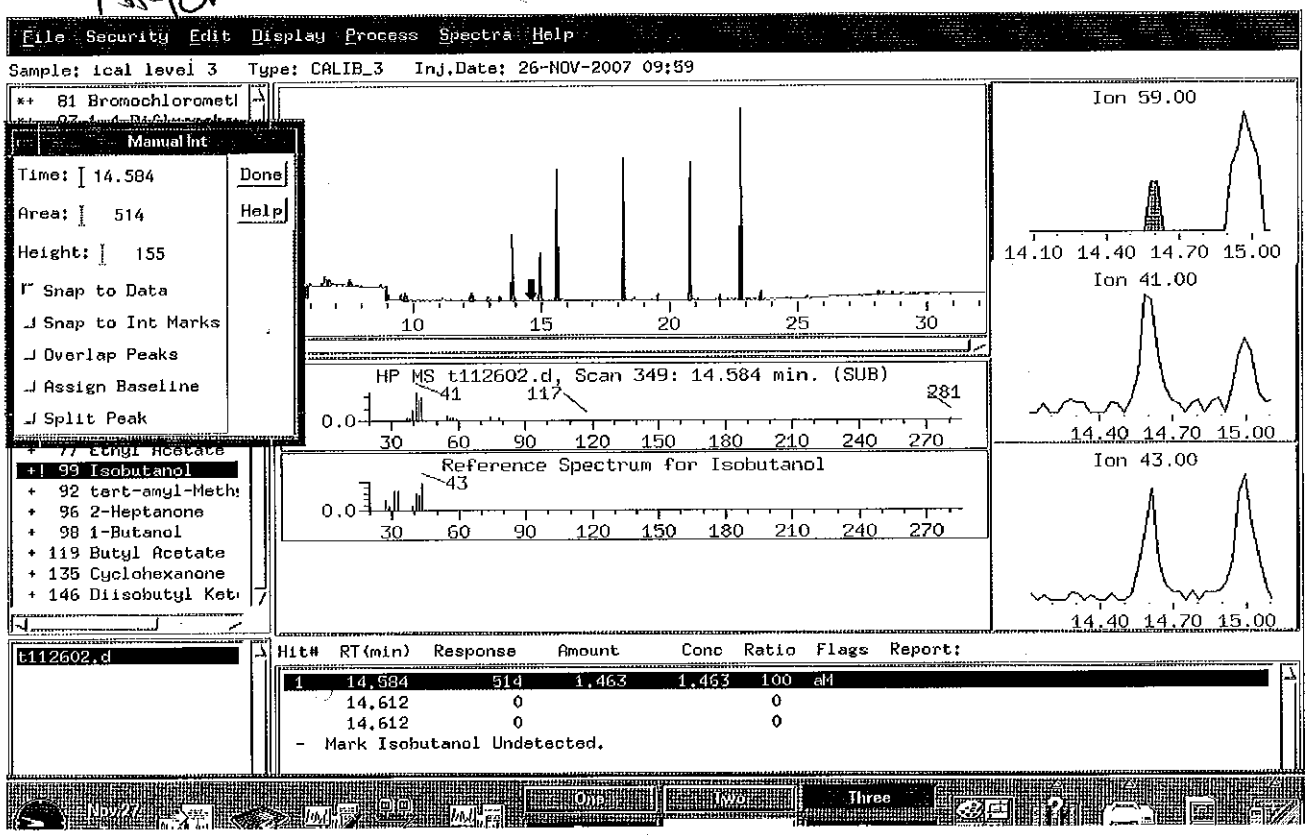
Before


File Security Edit Display Process Spectra Help
Sample: ical level 3 Type: CALIB_3 Inj.Date: 26-NOV-2007 09:59
** 81 Bromochloromet
** 97 1,4-Difluorobe
** 126 Chlorobenzene-
+ 5 Freon 143a
+ 6 Freon142b
+ 9 Freon 13
+ 13 Freon 134a
+ 15 Freon 152a
+ 17 Freon 22
+ 26 Methanol
+ 34 Dichlorofluoro
+ 40 Freon123a
+ 41 Freon123
+ 57 tert-Butyl-Alc
+ 68 Isopropyl ethe
+ 71 1-Propanol
+ 73 t-Butylethyl E
+ 77 Ethyl Acetate
99 Isobutanol
+ 92 tert-amyl-Meth
+ 96 2-Heptanone
+ 98 1-Butanol
+ 119 Butyl Acetate
+ 135 Cyclohexanone
+ 146 Diisobutyl Ket
5 10 15 20 25 30
Ion 59.00
14.40 14.70 15.00
Ion 41.00
14.40 14.70 15.00
Ion 43.00
14.40 14.70 15.00
t112602.d
Hit# RT(min) Response Amount Conc Ratio Flags Report:
- Isobutanol Undetected (Expected RTs: 14.612 14.612 14.612)
Three

Team VOC

Date / Initial	11/27/07 BD NE
Poor Integration	
Split Peak	
Peak Tailing	
Background Subtraction	
Zoom In	
Missed Peak	✓
Merged Peaks	

After



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 TO14

Data file : /chem/msdt.i/23Nov2007.b/t112304.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 23-NOV-2007 10:12
Operator : lmr Inst ID: msdt.i
Smp Info : 50mL #1576-108
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 23-Nov-2007 09:58 lrandolp Quant Type: ISTD
Cal Date : 21-NOV-2007 19:02 Cal File: t112108.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	CONCENTRATIONS FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	345602	25.0000		80.00- 120.00	100.00
13.886	13.886 (1.000)	128	267261			28.46- 128.46	77.33
13.858	13.886 (1.000)	49	527805			102.52- 202.52	152.72
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1616421	25.0000		80.00- 120.00	100.00
15.628	15.628 (1.000)	88	253705			0.00- 65.88	15.70
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	1161110	25.0000		80.00- 120.00	100.00
20.798	20.798 (1.000)	82	631332			5.79- 105.79	54.37
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.076)	65	520016	23.3419	23.342	80.00- 120.00	100.00
14.936	14.936 (1.076)	67	309915			5.03- 105.03	59.60
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.199	18.199 (1.165)	98	1383318	25.2812	25.281	80.00- 120.00	100.00
18.199	18.199 (1.165)	70	143669			0.00- 61.02	10.39

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	947577			19.45- 119.45	68.50
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	727133	24.9300	24.930	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	921888			76.90- 176.90	126.78
22.789	22.789 (1.096)	176	711661			47.13- 147.13	97.87
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	441628	47.9584	47.958	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	308557			17.24- 117.24	69.87
5.840	5.840 (0.421)	39	348929			27.83- 127.83	79.01
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	2546833	50.1848	50.185	80.00- 120.00	100.00
5.950	5.950 (0.429)	87	817789			0.00- 82.07	32.11
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	1699441	51.6374	51.637	80.00- 120.00	100.00
6.337	6.337 (0.456)	137	540263			0.00- 81.55	31.79
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	550071	46.9808	46.981	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	184235			0.00- 84.03	33.49
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	846205	52.8373	52.837	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	275651			0.00- 93.71	32.57
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	7.001 (0.502)	54	667534	51.1954	51.195	80.00- 120.00	100.00
6.973	7.001 (0.502)	39	579885			54.52- 154.52	86.87
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	831993	57.3662	57.366	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	771099			42.21- 142.21	92.68
27 Chloroethane					CAS #: 75-00-3		
8.218	8.245 (0.592)	64	433284	55.1854	55.185	80.00- 120.00	100.00
8.218	8.245 (0.592)	49	103282			0.00- 74.88	23.84
8.218	8.245 (0.592)	66	146740			0.00- 80.84	33.87
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.798 (0.632)	101	3479448	52.8264	52.826	80.00- 120.00	100.00
8.771	8.798 (0.632)	103	2260146			14.84- 114.84	64.96

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.268 (0.665)	45	301748	40.1988	40.199	80.00- 120.00	100.00
9.241	9.268 (0.665)	43	71898			0.00- 72.67	23.83
9.241	9.268 (0.665)	46	110076			0.00- 86.29	36.48
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	2497929	62.9429	62.943	80.00- 120.00	100.00
9.959	9.959 (0.717)	153	1592524			13.75- 113.75	63.75
9.959	9.959 (0.717)	101	3151153			76.91- 176.91	126.15
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	1791719	59.6237	59.624	80.00- 120.00	100.00
10.042	10.042 (0.723)	96	1232856			17.55- 117.55	68.81
10.042	10.042 (0.723)	98	788754			0.00- 93.10	44.02
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	549683	50.1346	50.134	80.00- 120.00	100.00
10.208	10.208 (0.735)	43	1544480			259.05- 359.05	280.98
46 2-Propanol					CAS #: 67-63-0		
10.374	10.402 (0.747)	45	1753750	31.8255	31.826	80.00- 120.00	100.00
10.374	10.402 (0.747)	43	397471			0.00- 73.80	22.66
10.374	10.402 (0.747)	59	79996			0.00- 54.08	4.56
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.568 (0.759)	76	2872861	55.8272	55.827	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.817	10.844 (0.779)	76	604360	56.6573	56.657	80.00- 120.00	100.00
10.817	10.844 (0.779)	41	1196047			185.00- 285.00	197.90
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	944253	52.2275	52.228	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	945467			48.72- 148.72	100.13
11.121	11.121 (0.801)	51	287755			0.00- 81.08	30.47
60 MTBE					CAS #: 1634-04-4		
11.453	11.480 (0.825)	73	1462094	51.6948	51.695	80.00- 120.00	100.00
11.453	11.480 (0.825)	57	274181			0.00- 68.82	18.75
11.453	11.480 (0.825)	41	249624			0.00- 69.31	17.07
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	1401932	57.0515	57.051	80.00- 120.00	100.00
11.563	11.563 (0.833)	61	1782798			77.06- 177.06	127.17
11.563	11.563 (0.833)	98	898305			11.49- 111.49	64.08

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	2205711	54.7248	54.725	80.00- 120.00	100.00
11.895	11.895 (0.857)	43	1188234			6.67- 106.67	53.87
11.895	11.895 (0.857)	86	421990			0.00- 66.53	19.13
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	377512	57.2367	57.237	80.00- 120.00	100.00
12.365	12.365 (0.890)	43	3030208			869.92- 969.92	802.68
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	2362793	56.5835	56.584	80.00- 120.00	100.00
12.393	12.393 (0.892)	65	765127			0.00- 82.09	32.38
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.964)	72	698251	51.3489	51.349	80.00- 120.00	100.00
13.388	13.388 (0.964)	43	2087453			322.34- 422.34	298.95
13.388	13.388 (0.964)	57	195319			0.00- 79.31	27.97
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.416	13.443 (0.966)	61	1555310	51.9638	51.964	80.00- 120.00	100.00
13.416	13.443 (0.966)	96	1340281			32.62- 132.62	86.17
13.416	13.443 (0.966)	98	868118			2.46- 102.46	55.82
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (0.998)	42	965405	42.8189	42.819	80.00- 120.00	100.00
13.858	13.858 (0.998)	71	559013			6.07- 106.07	57.90
13.858	13.858 (0.998)	72	604819			4.67- 104.67	62.65
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.004)	83	2771731	59.5332	59.533	80.00- 120.00	100.00
13.941	13.941 (1.004)	85	1792166			15.97- 115.97	64.66
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	2655666	53.8582	53.858	80.00- 120.00	100.00
14.300	14.300 (1.030)	99	1725115			14.66- 114.66	64.96
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	1599416	57.8322	57.832	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1476963			44.25- 144.25	92.34
14.300	14.300 (1.030)	41	713830			0.00- 95.33	44.63
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	2464228	53.2457	53.246	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	2630843			55.80- 155.80	106.76
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	5057034	51.4870	51.487	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.881	14.881 (1.072)	56	1636562			0.00- 82.34	32.36
14.881	14.881 (1.072)	41	1178685			0.00- 76.30	23.31
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	3845240	55.7590	55.759	80.00- 120.00	100.00
14.964	14.964 (0.958)	77	867043			0.00- 72.49	22.55
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	1685050	51.9716	51.972	80.00- 120.00	100.00
15.075	15.075 (0.965)	64	550676			0.00- 84.21	32.68
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	1419982	57.0677	57.068	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1758564			86.68- 186.68	123.84
15.185	15.185 (0.972)	57	1110922			32.20- 132.20	78.23
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	1736961	55.1719	55.172	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	1629796			44.61- 144.61	93.83
16.098	16.098 (1.030)	97	1112123			13.47- 113.47	64.03
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	1239973	52.5851	52.585	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	883668			20.86- 120.86	71.27
16.568	16.568 (1.060)	41	585062			0.00- 97.96	47.18
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	892397	43.6329	43.633	80.00- 120.00	100.00
16.706	16.706 (1.069)	58	485579			4.14- 104.14	54.41
16.706	16.706 (1.069)	57	161744			0.00- 69.74	18.12
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	2828699	55.0671	55.067	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1829439			14.51- 114.51	64.67
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	2143985	57.0711	57.071	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	685583			0.00- 81.98	31.98
17.784	17.784 (1.138)	39	818285			0.00- 88.23	38.17
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	983446	41.8370	41.837	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2083482			169.12- 269.12	211.86
17.978	17.978 (1.150)	85	523255			0.58- 100.58	53.21

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	4533918	59.2554	59.255	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	2772849			11.75- 111.75	61.16
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	2255005	57.6099	57.610	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	721978			0.00- 82.00	32.02
18.752	18.780 (0.902)	39	798118			0.00- 86.11	35.39
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	1564732	57.0700	57.070	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	988995			13.51- 113.51	63.21
19.111	19.111 (0.919)	83	1311677			34.03- 134.03	83.83
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	2089727	56.9979	56.998	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	1451434			19.14- 119.14	69.46
19.277	19.277 (0.927)	131	1392509			15.56- 115.56	66.64
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	1268673	35.6820	35.682	80.00- 120.00	100.00
19.416	19.416 (0.934)	43	1963258			107.04- 207.04	154.75
19.416	19.416 (0.934)	100	290751			0.00- 71.95	22.92
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	2549202	55.8738	55.874	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1958255			26.41- 126.41	76.82
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	2381551	54.0301	54.030	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	2244720			42.79- 142.79	94.25
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	3378462	54.9670	54.967	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	1063952			0.00- 81.38	31.49
20.853	20.853 (1.003)	77	1974920			7.76- 107.76	58.46
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	1760889	55.3828	55.383	80.00- 120.00	100.00
20.936	20.936 (1.007)	91	5478340			265.06- 365.06	311.11
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	2203949	55.7905	55.790	80.00- 120.00	100.00
21.130	21.130 (1.016)	91	4325255			147.41- 247.41	196.25
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	2057004	56.5107	56.511	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	4220982			154.00- 254.00	205.20
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	3252711	56.5339	56.534	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1595513			0.00- 97.90	49.05
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	2370180	54.8955	54.895	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	1222351			1.18- 101.18	51.57
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	5779932	60.4666	60.467	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	1525287			0.00- 75.99	26.39
22.429	22.429 (1.078)	51	425933			9.74- 109.74	7.37
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2924488	50.4876	50.488	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1919687			14.69- 114.69	65.64
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	6968077	55.3133	55.313	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	1560379			0.00- 72.67	22.39
23.121	23.121 (1.112)	105	256403			0.00- 53.69	3.68
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.286 (1.120)	105	5826772	54.3847	54.385	80.00- 120.00	100.00
23.287	23.286 (1.120)	120	1766633			0.00- 80.23	30.32
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	4726738	53.2831	53.283	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	2374015			1.60- 101.60	50.23
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	4511582	53.3208	53.321	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	2112554			0.00- 96.88	46.83
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	3081146	51.8220	51.822	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	1958779			14.03- 114.03	63.57
24.586	24.586 (1.182)	111	1260891			0.00- 91.33	40.92
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.724	24.724 (1.189)	146	3142006	51.3222	51.322	80.00- 120.00	100.00
24.724	24.724 (1.189)	148	2017964			15.04- 115.04	64.23
24.724	24.724 (1.189)	111	1240729			0.00- 89.92	39.49

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	4914198	56.7671	56.767	80.00- 120.00	100.00
24.945	24.945 (1.199)	126	954106			0.00- 70.12	19.42
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	2991993	50.7935	50.794	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	1911494			14.74- 114.74	63.89
25.360	25.360 (1.219)	111	1281862			0.00- 92.92	42.84
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	2583898	45.8626	45.863	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	2439198			46.14- 146.14	94.40
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	1876496	45.5561	45.556	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	1159566			14.10- 114.10	61.79
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	1224639	48.3524	48.352	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	976699			26.21- 126.21	79.75
19 Butane					CAS #: 106-97-8		
6.807	6.835 (0.490)	58	155438	49.5857	49.586	80.00- 120.00	100.00
6.807	6.835 (0.490)	43	1049185			668.04- 768.04	674.99
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.346	16.346 (1.177)	83	2031971	56.7469	56.747	80.00- 120.00	100.00
16.346	16.346 (1.177)	98	937052			0.00- 92.45	46.12
16.346	16.346 (1.177)	55	1315575			18.10- 118.10	64.74
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	4290476	52.9405	52.940	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	521052			0.00- 62.43	12.14

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112304.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 23-NOV-2007
Calibration Time: 09:32
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	364898	218939	510857	345602	-5.29
97 1,4-Difluorobenze	1716816	1030090	2403542	1616421	-5.85
126 Chlorobenzene-d5	1199182	719509	1678855	1161110	-3.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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-Nov-2007 10:33

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 23Nov2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: lmr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	50.185	100.37	70-130
16 Freon 114	50.000	51.637	103.27	70-130
18 Chloromethane	50.000	46.981	93.96	70-130
20 Vinyl Chloride	50.000	52.837	105.67	70-130
22 1,3-Butadiene	50.000	51.195	102.39	60-140
25 Bromomethane	50.000	57.366	114.73	70-130
27 Chloroethane	50.000	55.185	110.37	70-130
31 Trichlorofluoromet	50.000	52.826	105.65	70-130
38 Ethanol	50.000	40.199	80.40	60-140
42 Freon 113	50.000	62.943	125.89	70-130
43 1,1-Dichloroethene	50.000	59.624	119.25	70-130
45 Acetone	50.000	50.134	100.27	60-140
47 Carbon Disulfide	50.000	55.827	111.65	60-140
46 2-Propanol	50.000	31.826	63.65	60-140
54 Methylene Chloride	50.000	52.228	104.46	70-130
60 MTBE	50.000	51.695	103.39	60-140
61 trans-1,2-Dichloro	50.000	57.051	114.10	60-140
65 Hexane	50.000	54.725	109.45	60-140
70 1,1-Dichloroethane	50.000	56.584	113.17	70-130
76 cis-1,2-Dichloroet	50.000	51.964	103.93	70-130
75 2-Butanone	50.000	51.349	102.70	60-140
80 Tetrahydrofuran	50.000	42.819	85.64	60-140
82 Chloroform	50.000	59.533	119.07	70-130
85 Cyclohexane	50.000	57.832	115.66	60-140
83 1,1,1-Trichloroeth	50.000	53.858	107.72	70-130
87 Carbon Tetrachlori	50.000	53.246	106.49	70-130
91 Benzene	50.000	55.759	111.52	70-130
93 1,2-Dichloroethane	50.000	51.972	103.94	70-130
94 Heptane	50.000	57.068	114.14	60-140
101 Trichloroethene	50.000	55.172	110.34	70-130
104 1,2-Dichloropropan	50.000	52.585	105.17	70-130
106 1,4-Dioxane	50.000	43.633	87.27	60-140
107 Bromodichlorometha	50.000	55.067	110.13	60-140

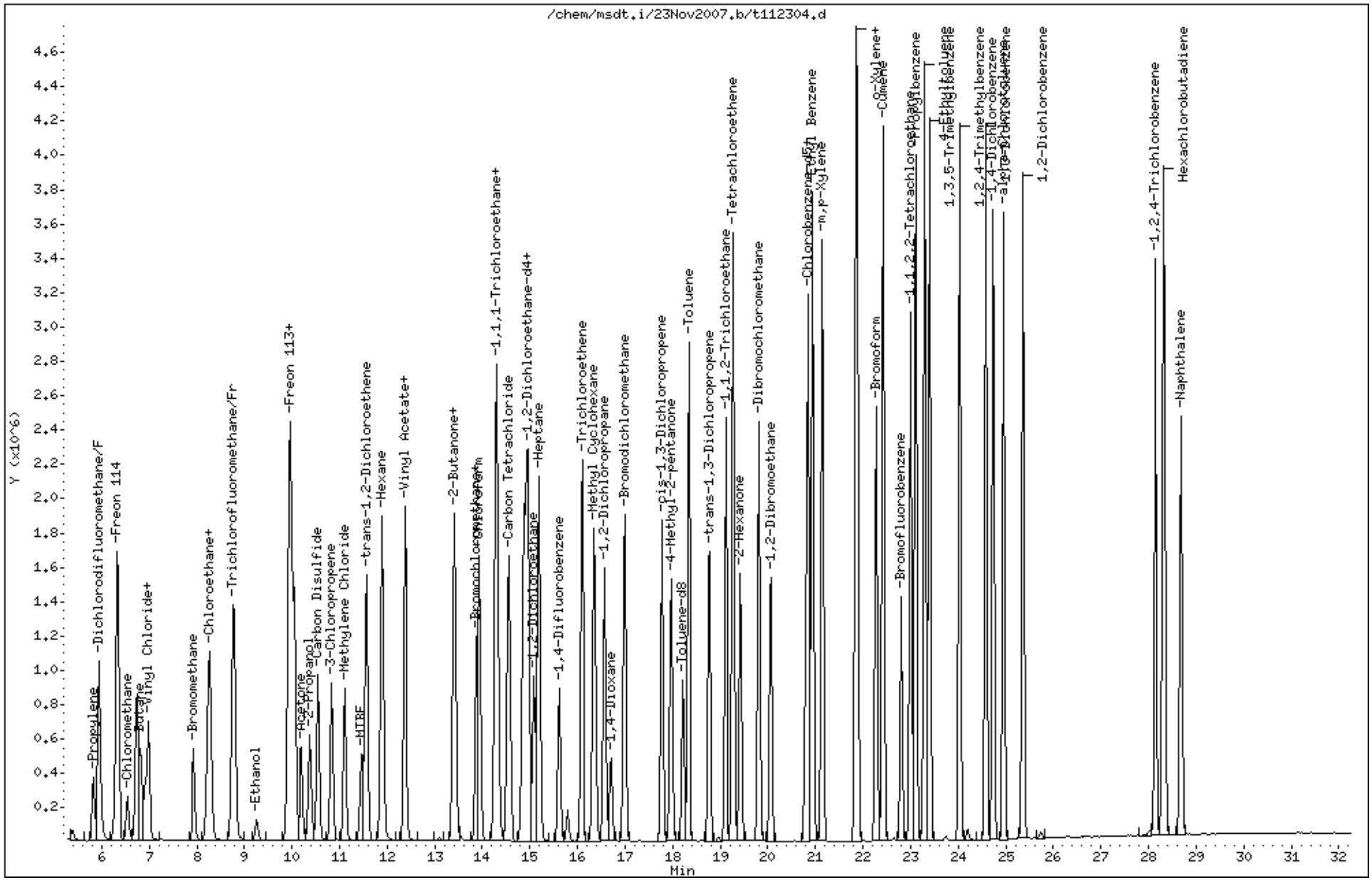
	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
110	cis-1,3-Dichloropr	50.000	57.071	114.14	70-130
111	4-Methyl-2-pentano	50.000	41.837	83.67	60-140
114	Toluene	50.000	59.255	118.51	70-130
116	trans-1,3-Dichloro	50.000	57.610	115.22	70-130
117	1,1,2-Trichloroeth	50.000	57.070	114.14	70-130
120	Tetrachloroethene	50.000	56.998	114.00	70-130
121	2-Hexanone	50.000	35.682	71.36	60-140
122	Dibromochlorometha	50.000	55.874	111.75	60-140
123	1,2-Dibromoethane	50.000	54.030	108.06	70-130
127	Chlorobenzene	50.000	54.967	109.93	70-130
128	Ethyl Benzene	50.000	55.383	110.77	70-130
129	m,p-Xylene	50.000	55.790	111.58	70-130
130	o-Xylene	50.000	56.511	113.02	70-130
131	Styrene	50.000	56.534	113.07	70-130
133	Bromoform	50.000	54.895	109.79	60-140
140	1,1,2,2-Tetrachlor	50.000	50.488	100.98	70-130
145	4-Ethyltoluene	50.000	54.385	108.77	60-140
147	1,3,5-Trimethylben	50.000	53.283	106.57	70-130
150	1,2,4-Trimethylben	50.000	53.321	106.64	70-130
155	1,3-Dichlorobenzen	50.000	51.822	103.64	70-130
156	1,4-Dichlorobenzen	50.000	51.322	102.64	70-130
159	alpha-Chlorotoluen	50.000	56.767	113.53	70-130
161	1,2-Dichlorobenzen	50.000	50.794	101.59	70-130
165	1,2,4-Trichloroben	50.000	45.863	91.73	70-130
166	Hexachlorobutadien	50.000	45.556	91.11	70-130
142	Propylbenzene	50.000	55.313	110.63	60-140
134	Cumene	50.000	60.467	120.93	60-140
51	3-Chloropropene	50.000	56.657	113.31	60-140
89	2,2,4-Trimethylpen	50.000	51.487	102.97	60-140
19	Butane	50.000	49.586	99.17	70-130
29	Isopentane	50.000	48.352	96.70	70-130
102	Methyl Cyclohexane	50.000	56.747	113.49	70-130
11	Propylene	50.000	47.958	95.92	60-140
167	Naphthalene	50.000	52.940	105.88	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90	1,2-Dichloroethane	25.000	23.342	93.37	70-130
$ 113	Toluene-d8	25.000	25.281	101.12	70-130
$ 137	Bromofluorobenzene	25.000	24.930	99.72	70-130

Data File: /chem/msdt.i/23Nov2007.b/t112304.d
Date : 23-NOV-2007 10:12
Client ID: LCS-1
Sample Info: 50mL #1576-108

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/23Nov2007.b/t112302.d
Lab Smp Id: ICAL Client Smp ID: Level 1
Inj Date : 23-NOV-2007 08:54
Operator : lmr Inst ID: msdt.i
Smp Info : 0.2ml #1576-92
Misc Info : 200ppbv-0.2ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 23-NOV-2007 08:54 Cal File: t112302.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.858	13.858 (1.000)	130	321558	25.0000		50.00- 150.00	100.00
13.858	13.858 (1.000)	128	249117			26.38- 126.38	77.47
13.858	13.858 (1.000)	49	321177			91.95- 191.95	99.88
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1636328	25.0000		50.00- 150.00	100.00
15.600	15.600 (1.000)	88	257171			0.00- 65.95	15.72
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	1105079	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	600415			5.79- 105.79	54.33
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.078)	65	499168	25.0000	24.081	50.00- 150.00	100.00
14.936	14.936 (1.078)	67	258807			5.03- 105.03	51.85
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.199	18.199 (1.165)	98	1345784	25.0000	24.296	50.00- 150.00	100.00
18.199	18.199 (1.165)	70	143075			0.00- 61.02	10.63

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	926659			19.45- 119.45	68.86
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	640413	25.0000	23.070	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	809759			77.33- 177.33	126.44
22.789	22.789 (1.096)	176	619711			46.56- 146.56	96.77
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.006)	83	5901	0.20000	0.1362	50.00- 150.00	100.00(a)
13.941	13.941 (1.006)	85	4052			16.84- 116.84	68.67
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	12517	0.20000	0.1793	50.00- 150.00	100.00(a)
14.964	14.964 (0.958)	77	2589			0.00- 72.49	20.68
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	5443	0.20000	0.09940	50.00- 150.00	100.00(a)
21.876	21.876 (1.052)	78	5509			9.19- 109.19	101.21
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	11699	0.20000	0.1286	50.00- 150.00	100.00(a)
22.429	22.429 (1.078)	120	2855			0.00- 75.99	24.40
22.789	22.789 (1.096)	51	37259			9.74- 109.74	318.48

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: msdt.i
Lab File ID: t112302.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: lmr
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-0.2ppbv

Calibration Date: 21-NOV-2007
Calibration Time: 17:45
Client Smp ID: Level 1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	306974	184184	429764	321558	4.75
97 1,4-Difluorobenze	1370844	822506	1919182	1636328	19.37
126 Chlorobenzene-d5	968009	580805	1355213	1105079	14.16

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.86	-0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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.

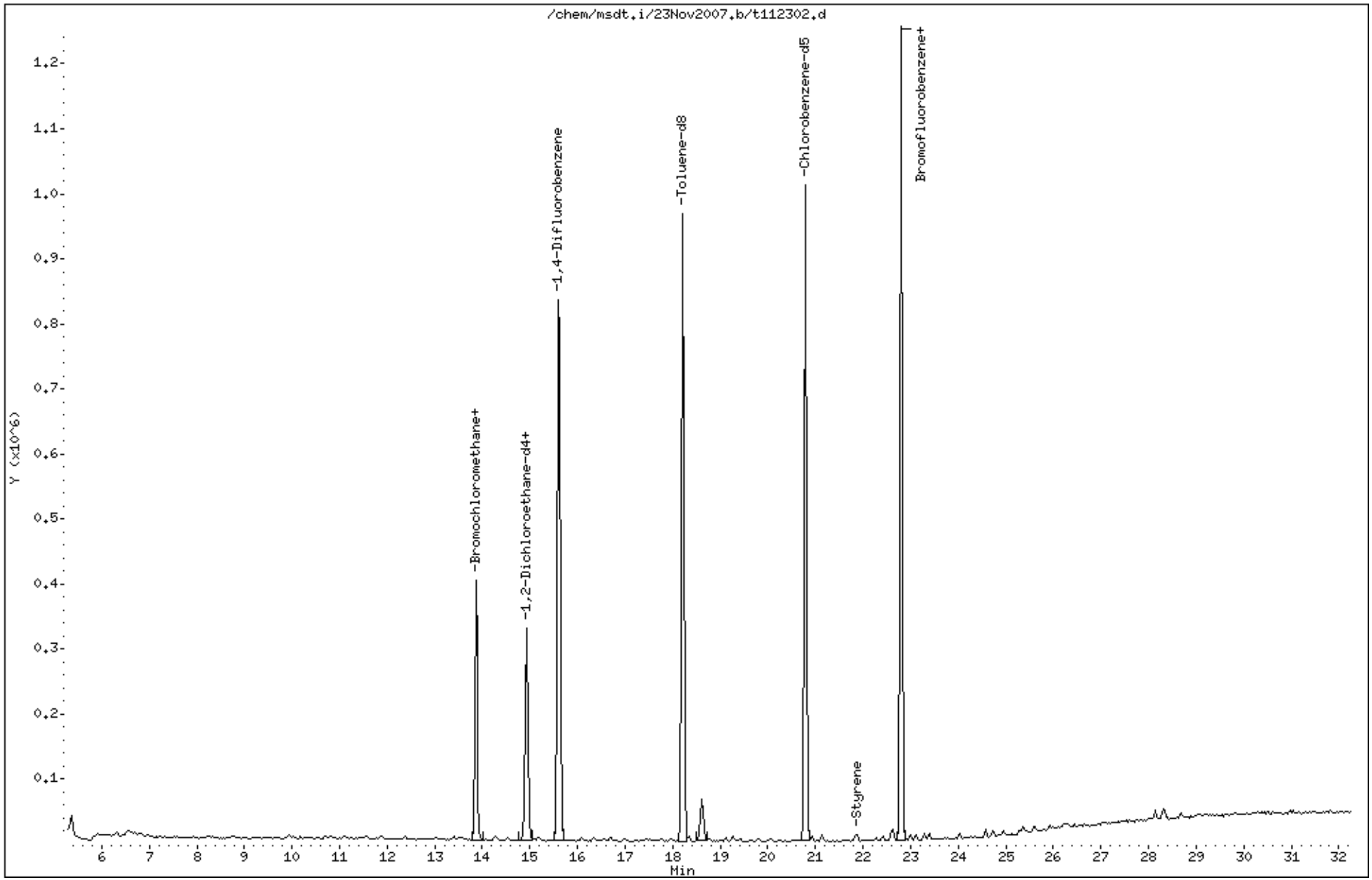
0087

Data File: /chem/msdt.i/23Nov2007.b/t112302.d
Date : 23-NOV-2007 08:54
Client ID: Level 1
Sample Info: 0.2ml #1576-92

Column phase: RTx-624

Instrument: msdt.i

Operator: lmr
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112103.d
Lab Smp Id: ical Client Smp ID: Level 2
Inj Date : 21-NOV-2007 14:44
Operator : ea Inst ID: msdt.i
Smp Info : 0.5ml #1576-92
Misc Info : 200ppbv-0.5ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 14:44 Cal File: t112103.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04low+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	255109	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	195113			26.38- 126.38	76.48
13.886	13.886 (1.000)	49	293855			91.95- 191.95	115.19
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1179442	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	188742			0.00- 65.95	16.00
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	864128	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	482719			5.79- 105.79	55.86
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.076)	65	408860	25.0000	24.862	50.00- 150.00	100.00
14.936	14.936 (1.076)	67	203960			5.03- 105.03	49.89
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.227	18.227 (1.166)	98	1003184	25.0000	25.127	50.00- 150.00	100.00
18.199	18.199 (1.165)	70	110544			0.00- 61.02	11.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	696584			19.45- 119.45	69.44
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	547492	25.0000	25.222	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	696572			77.33- 177.33	127.23
22.789	22.789 (1.096)	176	524599			46.56- 146.56	95.82
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	17870	0.50000	0.4770	50.00- 150.00	100.00(a)
5.950	5.950 (0.429)	87	5516			0.00- 82.07	30.87
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	11903	0.50000	0.4900	50.00- 150.00	100.00(a)
6.337	6.337 (0.456)	137	3146			0.00- 81.55	26.43
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	4804	0.50000	0.4064	50.00- 150.00	100.00(a)
6.918	6.918 (0.498)	64	3679			0.00- 93.71	76.58
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	4155	0.50000	0.4317	50.00- 150.00	100.00(a)
6.973	6.973 (0.502)	39	5909			54.52- 154.52	142.21
25 Bromomethane					CAS #: 74-83-9		
7.913	7.913 (0.570)	94	4062	0.50000	0.3794	50.00- 150.00	100.00(a)
7.941	7.941 (0.572)	96	4986			50.48- 150.48	122.75
27 Chloroethane					CAS #: 75-00-3		
8.218	8.218 (0.592)	64	1954	0.50000	0.3372	50.00- 150.00	100.00(a)
0.000	1.000 (0.000)	49	0			0.00- 74.88	0.00
0.000	1.000 (0.000)	66	0			0.00- 80.84	0.00
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.771 (0.632)	101	20969	0.50000	0.4313	50.00- 150.00	100.00(a)
8.798	8.798 (0.634)	103	14795			16.26- 116.26	70.56
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	11790	0.50000	0.4025	50.00- 150.00	100.00(a)
9.959	9.959 (0.717)	153	8372			15.23- 115.23	71.01
9.932	9.932 (0.715)	101	17052			83.14- 183.14	144.63
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	8381	0.50000	0.3778	50.00- 150.00	100.00(a)
10.042	10.042 (0.723)	96	6976			16.79- 116.79	83.24
10.042	10.042 (0.723)	98	3490			0.00- 90.88	41.64

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
47 Carbon Disulfide						CAS #: 75-15-0	
10.540	10.540 (0.759)	76	14617	0.50000	0.3848	50.00- 150.00	100.00(a)
54 Methylene Chloride						CAS #: 75-09-2	
11.121	11.121 (0.801)	49	6758	0.50000	0.5064	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	6176			40.01- 140.01	91.39
11.121	11.121 (0.801)	51	2199			0.00- 81.08	32.54
60 MTBE						CAS #: 1634-04-4	
11.453	11.453 (0.825)	73	9097	0.50000	0.4357	50.00- 150.00	100.00(a)
11.453	11.453 (0.825)	57	1688			0.00- 69.28	18.56
11.425	11.425 (0.823)	41	1640			0.00- 69.31	18.03
61 trans-1,2-Dichloroethene						CAS #: 156-60-5	
11.563	11.563 (0.833)	96	7370	0.50000	0.4063	50.00- 150.00	100.00(a)
11.563	11.563 (0.833)	61	9179			83.34- 183.34	124.55
11.563	11.563 (0.833)	98	3805			11.49- 111.49	51.63
65 Hexane						CAS #: 110-54-3	
11.895	11.895 (0.857)	57	11611	0.50000	0.3903	50.00- 150.00	100.00(a)
11.923	11.923 (0.859)	43	6045			6.67- 106.67	52.06
11.895	11.895 (0.857)	86	1416			0.00- 66.53	12.20
70 1,1-Dichloroethane						CAS #: 75-34-3	
12.393	12.393 (0.892)	63	11757	0.50000	0.3814	50.00- 150.00	100.00(a)
12.393	12.393 (0.892)	65	3648			0.00- 81.73	31.03
75 2-Butanone						CAS #: 78-93-3	
13.416	13.416 (0.966)	72	3480	0.50000	0.3467	50.00- 150.00	100.00(a)
13.416	13.416 (0.966)	43	15183			362.73- 462.73	436.29
13.388	13.388 (0.964)	57	1068			0.00- 79.31	30.69
76 cis-1,2-Dichloroethene						CAS #: 156-59-2	
13.416	13.416 (0.966)	61	8180	0.50000	0.3702	50.00- 150.00	100.00(a)
13.443	13.443 (0.968)	96	7497			30.20- 130.20	91.65
13.443	13.443 (0.968)	98	4213			0.03- 100.03	51.50
80 Tetrahydrofuran						CAS #: 109-99-9	
13.858	13.858 (0.998)	42	6869	0.50000	0.4127	50.00- 150.00	100.00(a)
13.858	13.858 (0.998)	71	2948			0.15- 100.15	42.92
13.886	13.886 (1.000)	72	3389			4.67- 104.67	49.34
82 Chloroform						CAS #: 67-66-3	
13.941	13.941 (1.004)	83	13232	0.50000	0.3850	50.00- 150.00	100.00(a)
13.941	13.941 (1.004)	85	9736			16.84- 116.84	73.58

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	14292	0.50000	0.3927	50.00- 150.00	100.00(a)
14.300	14.300 (1.030)	99	8590			13.29- 113.29	60.10
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	7624	0.50000	0.3734	50.00- 150.00	100.00(a)
14.300	14.300 (1.030)	56	7649			49.76- 149.76	100.33
14.328	14.328 (1.032)	41	4605			3.69- 103.69	60.40
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	12761	0.50000	0.3735	50.00- 150.00	100.00(a)
14.549	14.549 (1.048)	117	13106			54.35- 154.35	102.70
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	20974	0.50000	0.4168	50.00- 150.00	100.00(a)
14.964	14.964 (0.958)	77	4797			0.00- 72.49	22.87
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	30696	0.50000	0.4234	50.00- 150.00	100.00(a)
14.881	14.881 (1.072)	56	9763			0.00- 82.34	31.81
14.881	14.881 (1.072)	41	9210			0.00- 76.30	30.00
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.102	15.102 (0.966)	62	9676	0.50000	0.4090	50.00- 150.00	100.00(a)
15.102	15.102 (0.966)	64	3507			0.00- 84.21	36.24
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	6740	0.50000	0.3712	50.00- 150.00	100.00(a)
15.185	15.185 (0.972)	43	9197			86.68- 186.68	136.45
15.185	15.185 (0.972)	57	5330			32.20- 132.20	79.08
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	8404	0.50000	0.3658	50.00- 150.00	100.00(a)
16.098	16.098 (1.030)	130	8844			47.47- 147.47	105.24
16.098	16.098 (1.030)	97	5852			14.52- 114.52	69.63
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	7437	0.50000	0.4322	50.00- 150.00	100.00(a)
16.568	16.568 (1.060)	62	4207			17.52- 117.52	56.57
16.568	16.568 (1.060)	41	3749			0.97- 100.97	50.41
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	13896	0.50000	0.3707	50.00- 150.00	100.00(a)
17.010	17.010 (1.088)	85	9035			14.67- 114.67	65.02
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	9302	0.50000	0.3394	50.00- 150.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
110 cis-1,3-Dichloropropene (continued)							
17.784	17.784 (1.138)	77	3572			0.00- 83.04	38.40
17.784	17.784 (1.138)	39	4830			0.00- 93.89	51.92
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	5590	0.50000	0.3259	50.00- 150.00	100.00(a)
17.978	17.978 (1.150)	43	11462			169.12- 269.12	205.04
17.978	17.978 (1.150)	85	2632			0.58- 100.58	47.08
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	21664	0.50000	0.3880	50.00- 150.00	100.00(a)
18.337	18.337 (1.173)	92	12835			11.10- 111.10	59.25
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	9303	0.50000	0.3194	50.00- 150.00	100.00(a)
18.780	18.780 (0.903)	77	3603			0.00- 83.38	38.73
18.752	18.752 (0.902)	39	5121			0.00- 92.03	55.05
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	6931	0.50000	0.3397	50.00- 150.00	100.00(a)
19.111	19.111 (0.919)	99	4696			14.64- 114.64	67.75
19.111	19.111 (0.919)	83	6717			37.04- 137.04	96.91
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	9647	0.50000	0.3536	50.00- 150.00	100.00(a)
19.277	19.277 (0.927)	129	7518			21.89- 121.89	77.93
19.277	19.277 (0.927)	131	7782			19.59- 119.59	80.67
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	11457	0.50000	0.3374	50.00- 150.00	100.00(a)
19.803	19.803 (0.952)	127	8666			26.41- 126.41	75.64
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	11405	0.50000	0.3477	50.00- 150.00	100.00(a)
20.079	20.079 (0.965)	109	10987			43.48- 143.48	96.33
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	18189	0.50000	0.3976	50.00- 150.00	100.00(a)
20.853	20.853 (1.003)	114	6753			0.00- 83.18	37.13
20.853	20.853 (1.003)	77	18955			20.20- 120.20	104.21
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	7779	0.50000	0.3287	50.00- 150.00	100.00(a)
20.936	20.936 (1.007)	91	26854			265.06- 365.06	345.21
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	9931	0.50000	0.3378	50.00- 150.00	100.00(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
129 m,p-Xylene (continued)							
21.130	21.130 (1.016)	91	19834			147.41- 247.41	199.72
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	9378	0.50000	0.3462	50.00- 150.00	100.00(a)
21.849	21.849 (1.051)	91	18907			155.82- 255.82	201.61
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	14367	0.50000	0.3355	50.00- 150.00	100.00(a)
21.876	21.876 (1.052)	78	7723			9.19- 109.19	53.76
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	11120	0.50000	0.3461	50.00- 150.00	100.00(a)
22.291	22.291 (1.072)	171	5648			0.74- 100.74	50.79
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	26326	0.50000	0.3701	50.00- 150.00	100.00(a)
22.429	22.429 (1.078)	120	7002			0.00- 75.99	26.60
22.429	22.429 (1.078)	51	2246			9.74- 109.74	8.53
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	15194	0.50000	0.3524	50.00- 150.00	100.00(a)
23.010	23.010 (1.106)	85	10415			14.88- 114.88	68.55
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	32934	0.50000	0.3513	50.00- 150.00	100.00(a)
23.121	23.121 (1.112)	120	7508			0.00- 72.67	22.80
23.121	23.121 (1.112)	105	1269			0.00- 53.69	3.85
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.287 (1.120)	105	27282	0.50000	0.3422	50.00- 150.00	100.00(a)
23.287	23.287 (1.120)	120	8636			0.00- 80.49	31.65
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	21739	0.50000	0.3293	50.00- 150.00	100.00(a)
23.397	23.397 (1.125)	120	13029			1.60- 101.60	59.93
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	20908	0.50000	0.3320	50.00- 150.00	100.00(a)
24.033	24.033 (1.156)	120	9676			0.00- 96.88	46.28
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	17343	0.50000	0.3919	50.00- 150.00	100.00(a)
24.586	24.586 (1.182)	148	11301			14.03- 114.03	65.16
24.586	24.586 (1.182)	111	6914			0.00- 91.33	39.87

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	17145	0.50000	0.3763	50.00- 150.00	100.00(a)
24.752	24.752 (1.190)	148	12180			15.04- 115.04	71.04
24.724	24.724 (1.189)	111	7019			0.00- 89.92	40.94
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	20855	0.50000	0.3237	50.00- 150.00	100.00(a)
24.945	24.945 (1.199)	126	4631			0.00- 70.12	22.21
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	16404	0.50000	0.3742	50.00- 150.00	100.00(a)
25.360	25.360 (1.219)	148	11223			14.55- 114.55	68.42
25.360	25.360 (1.219)	111	7370			0.00- 93.18	44.93
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.346	16.346 (1.177)	83	10463	0.50000	0.3958	50.00- 150.00	100.00(a)
16.374	16.374 (1.179)	98	3342			0.00- 92.45	31.94
16.346	16.346 (1.177)	55	7060			18.10- 118.10	67.48

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: msdt.i
Lab File ID: t112103.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-0.5ppbv

Calibration Date: 23-NOV-2007
Calibration Time: 09:32
Client Smp ID: Level 2
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	364898	218939	510857	255109	-30.09
97 1,4-Difluorobenze	1716816	1030090	2403542	1179442	-31.30
126 Chlorobenzene-d5	1199182	719509	1678855	864128	-27.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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.

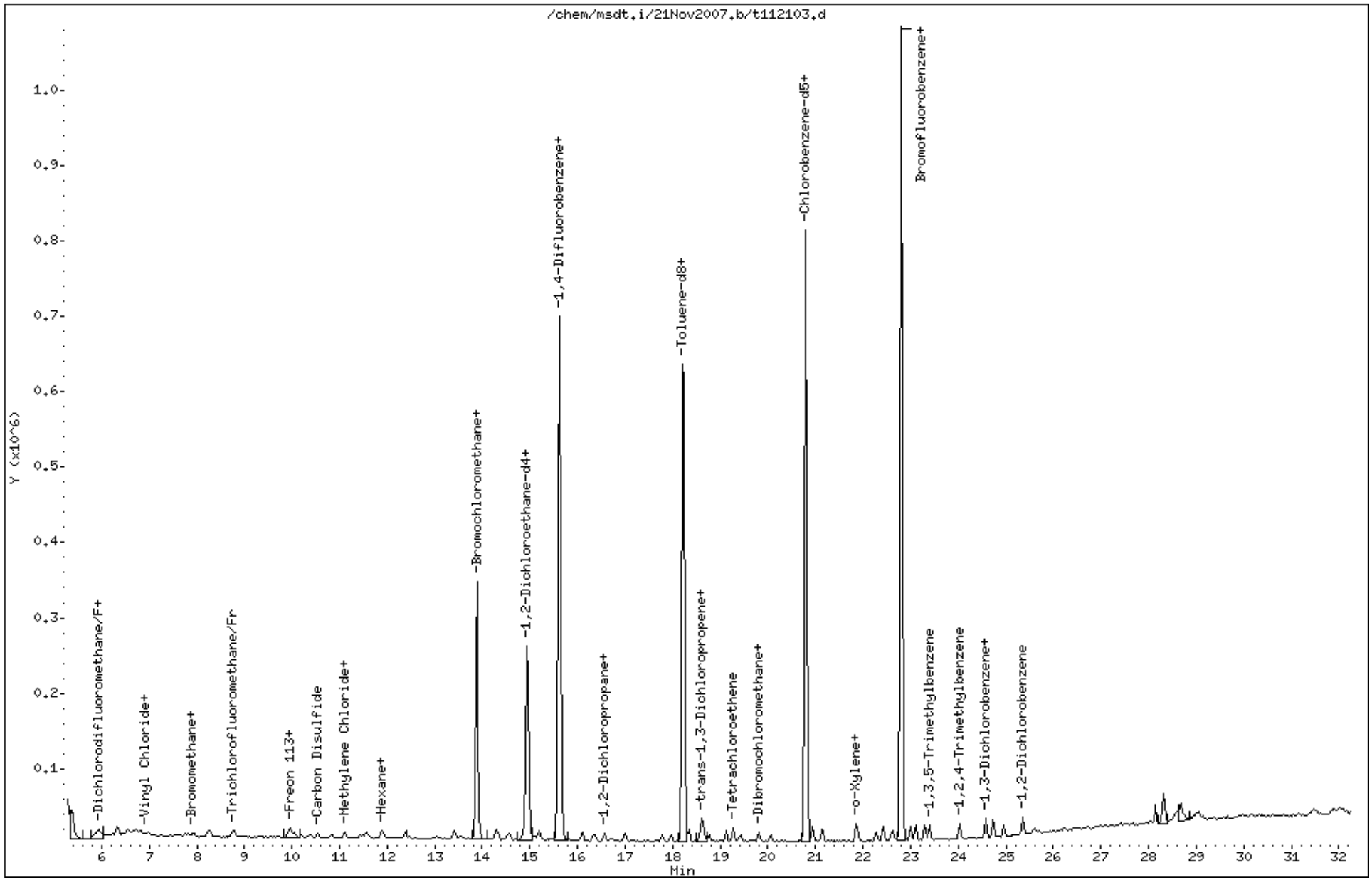
9606

Data File: /chem/msdt.i/21Nov2007.b/t112103.d
Date : 21-NOV-2007 14:44
Client ID: Level 2
Sample Info: 0.5ml #1576-92

Instrument: msdt.i

Operator: ea
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112602.d
Lab Smp Id: ical level 3
Inj Date : 26-NOV-2007 09:59
Operator : EA Inst ID: msdt.i
Smp Info : 2.0ml #1487-402
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 13:59 lover Quant Type: ISTD
Cal Date : 26-NOV-2007 09:59 Cal File: t112602.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
13.865	13.865 (1.000)	130	307636	25.0000		50.00- 150.00		100.00
13.865	13.865 (1.000)	128	239995			26.64- 126.64		78.01
13.865	13.865 (1.000)	49	316968			73.62- 173.62		103.03
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.607	15.607 (1.000)	114	1418212	25.0000		50.00- 150.00		100.00
15.607	15.607 (1.000)	88	226918			0.00- 65.84		16.00
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
20.805	20.805 (1.000)	117	1043769	25.0000		50.00- 150.00		100.00
20.805	20.805 (1.000)	82	573029			4.93- 104.93		54.90
5 Freon 143a					CAS #: 420-46-2			
5.535	5.535 (0.399)	69	38062	2.00000	1.924	50.00- 150.00		100.00(a)
6 Freon142b					CAS #: 75-68-3			
6.436	6.436 (0.464)	65	54591	2.00000	1.857	50.00- 150.00		100.00(a)
6.436	6.436 (0.464)	45	10818			0.00- 69.76		19.82

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Freon 13					CAS #: 75-72-9		
5.394	5.394 (0.389)	69	56480	2.00000	2.105	50.00- 150.00	100.00
5.394	5.394 (0.389)	85	18780			0.00- 82.40	33.25
5.394	5.394 (0.389)	87	5959			0.00- 60.56	10.55
13 Freon 134a					CAS #: 811-97-2		
5.675	5.675 (0.409)	83	26857	2.00000	1.929	50.00- 150.00	100.00(a)
5.675	5.675 (0.409)	69	20838			31.14- 131.14	77.59
15 Freon 152a					CAS #: 75-37-6		
5.844	5.844 (0.422)	65	13887	2.00000	1.927	50.00- 150.00	100.00(a)
5.844	5.844 (0.422)	51	22834			117.84- 217.84	164.43
5.844	5.844 (0.422)	47	4784			0.00- 88.39	34.45
17 Freon 22					CAS #: 75-45-6		
6.013	6.013 (0.434)	67	7015	2.00000	1.907	50.00- 150.00	100.00(a)
5.985	5.985 (0.432)	51	32761			439.12- 539.12	467.01
6.436	6.436 (0.464)	85	6962			0.00- 91.16	99.24
26 Methanol					CAS #: 67-56-1		
7.534	7.534 (0.543)	31	112331	12.0000	35.524	50.00- 150.00	100.00(a)
7.562	7.562 (0.545)	32	146475			73.38- 173.38	130.40
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.745	8.745 (0.631)	67	47605	2.00000	1.932	50.00- 150.00	100.00(a)
8.745	8.745 (0.631)	69	14457			0.00- 82.06	30.37
8.717	8.717 (0.629)	35	2340			0.00- 54.92	4.92
40 Freon123a					CAS #: 354-23-4		
9.552	9.552 (0.689)	67	47809	2.00000	1.982	50.00- 150.00	100.00(a)
9.552	9.552 (0.689)	117	39570			30.97- 130.97	82.77
41 Freon123					CAS #: 306-83-2		
9.718	9.718 (0.701)	83	67791	2.00000	2.029	50.00- 150.00	100.00
9.718	9.718 (0.701)	133	13633			0.00- 70.26	20.11
9.718	9.718 (0.701)	85	46138			17.95- 117.95	68.06
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.156	11.156 (0.805)	59	46362	2.00000	2.845	50.00- 150.00	100.00
11.156	11.156 (0.805)	41	13386			0.00- 78.87	28.87
11.156	11.156 (0.805)	57	5264			0.00- 61.35	11.35
68 Isopropyl ether					CAS #: 108-20-3		
12.262	12.262 (0.884)	45	94524	2.00000	1.871	50.00- 150.00	100.00(a)
12.289	12.289 (0.886)	87	33151			0.00- 84.51	35.07
12.289	12.289 (0.886)	59	12084			0.00- 62.64	12.78

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
71 1-Propanol					CAS #: 71-23-8		
12.400	12.400 (0.894)	42	5817	2.00000	2.188	50.00- 150.00	100.00(H)
12.400	12.400 (0.894)	59	5701			75.45- 175.45	98.01
12.400	12.400 (0.894)	41	4753			158.05- 258.05	81.71
73 t-Butylethyl Ether					CAS #: 637-92-3		
12.925	12.925 (0.932)	59	51638	2.00000	2.103	50.00- 150.00	100.00
12.925	12.925 (0.932)	87	23194			0.00- 95.70	44.92
12.898	12.898 (0.930)	41	11702			0.00- 69.82	22.66
77 Ethyl Acetate					CAS #: 141-78-6		
13.368	13.368 (0.964)	45	9754	2.00000	1.832	50.00- 150.00	100.00(a)
13.368	13.368 (0.964)	61	11407			63.70- 163.70	116.95
13.368	13.368 (0.964)	43	66817			641.02- 741.02	685.02
99 Isobutanol					CAS #: 78-83-1		
14.584	14.584 (0.934)	59	514	2.00000	1.462	50.00- 150.00	100.00(aM)
14.612	14.612 (0.936)	41	0			2254.31-2354.31	0.00
14.612	14.612 (0.936)	43	0			2684.91-2784.91	0.00
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
14.999	14.999 (1.082)	73	66826	2.00000	2.300	50.00- 150.00	100.00
14.999	14.999 (1.082)	87	17103			0.00- 75.09	25.59
14.999	14.999 (1.082)	55	17232			0.00- 74.77	25.79
96 2-Heptanone					CAS #: 110-43-0		
21.967	21.967 (1.584)	58	25463	2.00000	1.246	50.00- 150.00	100.00(a)
21.967	21.967 (1.584)	43	35182			85.60- 185.60	138.17
98 1-Butanol					CAS #: 71-36-3		
15.773	15.773 (1.011)	56	11442	2.00000	1.583	50.00- 150.00	100.00(a)
15.801	15.801 (1.012)	41	7906			17.89- 117.89	69.10
15.801	15.801 (1.012)	43	5616			0.00- 99.85	49.08
119 Butyl Acetate					CAS #: 123-86-4		
19.533	19.533 (1.252)	56	21766	2.00000	1.483	50.00- 150.00	100.00(a)
19.533	19.533 (1.252)	73	10174			0.00- 94.51	46.74
19.533	19.533 (1.252)	43	44854			163.30- 263.30	206.07
135 Cyclohexanone					CAS #: 108-94-1		
22.741	22.741 (1.093)	55	21439	2.00000	1.540	50.00- 150.00	100.00(a)
22.741	22.741 (1.093)	98	12520			6.71- 106.71	58.40
22.741	22.741 (1.093)	42	13067			11.68- 111.68	60.95
146 Diisobutyl Ketone					CAS #: 108-83-8		
23.570	23.570 (1.133)	57	47845	2.00000	1.393	50.00- 150.00	100.00(a)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Diisobutyl Ketone (continued)							
23.570	23.570 (1.133)	85	51453			53.67- 153.67	107.54
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112602.d
Lab Smp Id: ical level 3
Analysis Type: VOA
Quant Type: ISTD
Operator: EA
Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 10:49
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	301939	181163	422715	307636	1.89
97 1,4-Difluorobenze	1427711	856627	1998795	1418212	-0.67
126 Chlorobenzene-d5	1047767	628660	1466874	1043769	-0.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	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.

0102

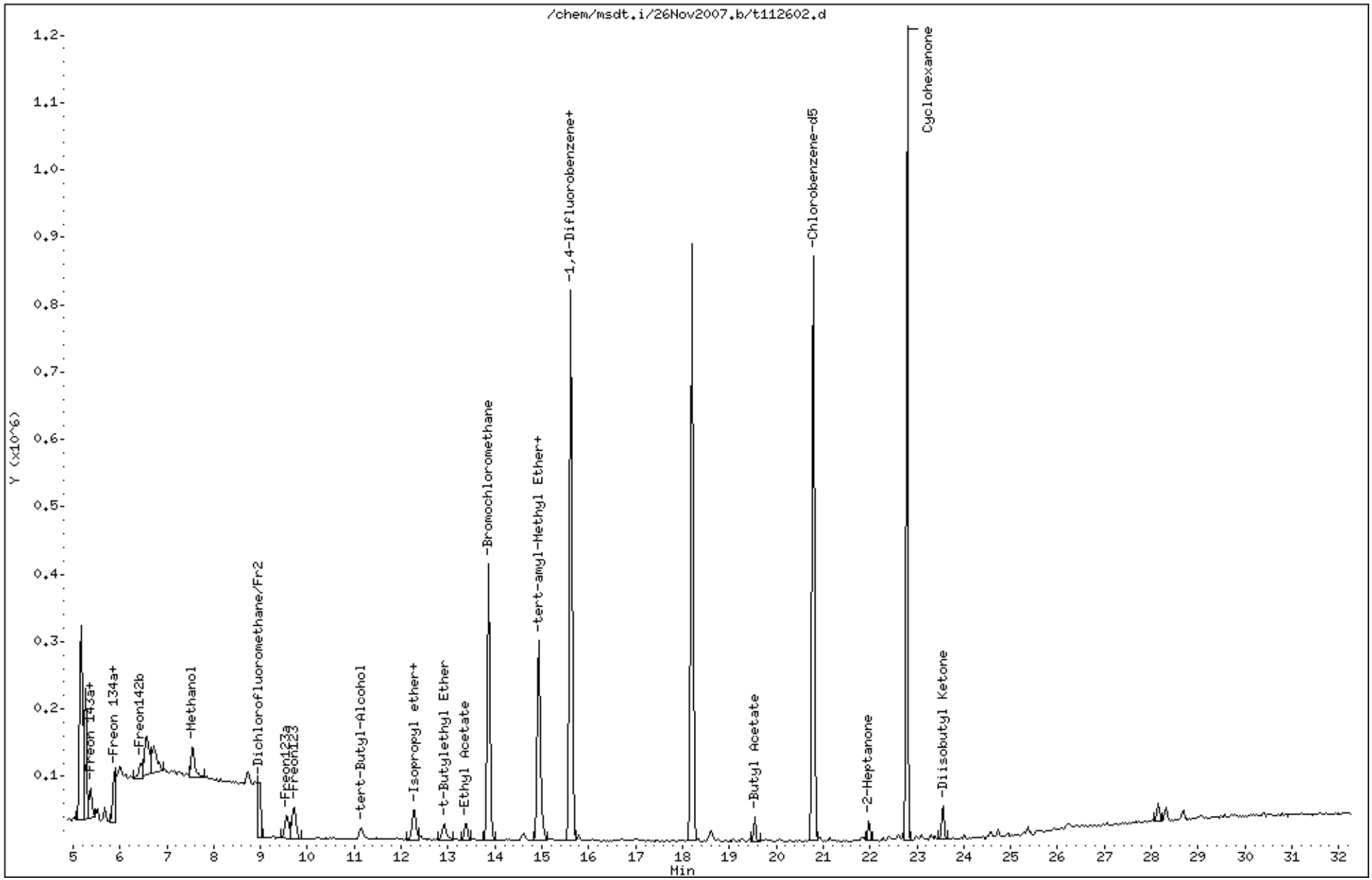
Data File: /chem/msdt.i/26Nov2007.b/t112602.d
Date : 26-NOV-2007 09:59
Client ID:
Sample Info: 2.0ml #1487-402

Instrument: msdt.i

Operator: EA

Column phase: RTx-624

Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112104.d
Lab Smp Id: ical Client Smp ID: Level 3
Inj Date : 21-NOV-2007 15:48
Operator : dm Inst ID: msdt.i
Smp Info : 2.0ml #1576-92
Misc Info : 200ppbv-2.0ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 15:48 Cal File: t112104.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	270233	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	205254			26.38- 126.38	75.95
13.858	13.858 (1.000)	49	318117			91.95- 191.95	117.72
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1278371	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	206294			0.00- 65.95	16.14
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	905933	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	513430			5.79- 105.79	56.67
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.076)	65	427628	25.0000	24.548	50.00- 150.00	100.00
14.936	14.936 (1.076)	67	218146			5.03- 105.03	51.01
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.199	18.199 (1.165)	98	1077996	25.0000	24.911	50.00- 150.00	100.00
18.199	18.199 (1.165)	70	121007			0.00- 61.02	11.23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	750536			19.45- 119.45	69.62
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	566238	25.0000	24.882	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	725935			77.33- 177.33	128.20
22.789	22.789 (1.096)	176	542502			46.56- 146.56	95.81
11 Propylene					CAS #: 115-07-1		
5.812	5.812 (0.419)	41	15686	2.00000	2.178	50.00- 150.00	100.00
5.812	5.812 (0.419)	42	9468			17.24- 117.24	60.36
5.812	5.812 (0.419)	39	11428			27.83- 127.83	72.85
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.923	5.923 (0.427)	85	77841	2.00000	1.962	50.00- 150.00	100.00
5.923	5.923 (0.427)	87	26374			0.00- 82.07	33.88
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	46453	2.00000	1.805	50.00- 150.00	100.00
6.310	6.310 (0.454)	137	16721			0.00- 81.55	36.00
18 Chloromethane					CAS #: 74-87-3		
6.531	6.531 (0.470)	50	19542	2.00000	2.134	50.00- 150.00	100.00
6.559	6.559 (0.472)	52	6940			0.00- 84.03	35.51
20 Vinyl Chloride					CAS #: 75-01-4		
6.890	6.890 (0.496)	62	24009	2.00000	1.917	50.00- 150.00	100.00
6.890	6.890 (0.496)	64	10524			0.00- 93.71	43.83
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	19289	2.00000	1.892	50.00- 150.00	100.00
6.973	6.973 (0.502)	39	19305			54.52- 154.52	100.08
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	18972	2.00000	1.673	50.00- 150.00	100.00
7.913	7.913 (0.570)	96	19402			50.48- 150.48	102.27
27 Chloroethane					CAS #: 75-00-3		
8.217	8.217 (0.592)	64	11207	2.00000	1.825	50.00- 150.00	100.00
8.217	8.217 (0.592)	49	2669			0.00- 74.88	23.82
8.217	8.217 (0.592)	66	2722			0.00- 80.84	24.29
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.770	8.770 (0.632)	101	99276	2.00000	1.928	50.00- 150.00	100.00
8.770	8.770 (0.632)	103	66003			16.26- 116.26	66.48

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.241 (0.665)	45	11830	2.00000	2.016	50.00- 150.00	100.00
9.241	9.241 (0.665)	43	2785			0.00- 72.67	23.54
9.241	9.241 (0.665)	46	4115			0.00- 86.29	34.78
42 Freon 113					CAS #: 76-13-1		
9.932	9.932 (0.715)	151	61163	2.00000	1.971	50.00- 150.00	100.00
9.959	9.959 (0.717)	153	38501			15.23- 115.23	62.95
9.932	9.932 (0.715)	101	82023			83.14- 183.14	134.11
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	45448	2.00000	1.934	50.00- 150.00	100.00
10.042	10.042 (0.723)	96	28699			16.79- 116.79	63.15
10.042	10.042 (0.723)	98	18735			0.00- 90.88	41.22
45 Acetone					CAS #: 67-64-1		
10.181	10.181 (0.733)	58	17830	2.00000	2.080	50.00- 150.00	100.00
10.181	10.181 (0.733)	43	54803			259.05- 359.05	307.36
46 2-Propanol					CAS #: 67-63-0		
10.374	10.374 (0.747)	45	78267	2.00000	1.816	50.00- 150.00	100.00(a)
10.374	10.374 (0.747)	43	23025			0.00- 73.80	29.42
10.374	10.374 (0.747)	59	2768			0.00- 54.08	3.54
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.540 (0.759)	76	74020	2.00000	1.840	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.817	10.817 (0.779)	76	13051	2.00000	1.565	50.00- 150.00	100.00
10.817	10.817 (0.779)	41	34903			185.00- 285.00	267.44
54 Methylene Chloride					CAS #: 75-09-2		
11.093	11.093 (0.799)	49	28458	2.00000	2.013	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	23660			40.01- 140.01	83.14
11.093	11.093 (0.799)	51	8308			0.00- 81.08	29.19
60 MTBE					CAS #: 1634-04-4		
11.452	11.452 (0.825)	73	39385	2.00000	1.781	50.00- 150.00	100.00
11.452	11.452 (0.825)	57	7932			0.00- 69.28	20.14
11.425	11.425 (0.823)	41	8689			0.00- 69.31	22.06
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.535	11.535 (0.831)	96	35623	2.00000	1.854	50.00- 150.00	100.00
11.535	11.535 (0.831)	61	47960			83.34- 183.34	134.63
11.535	11.535 (0.831)	98	23301			11.49- 111.49	65.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	57837	2.00000	1.835	50.00- 150.00	100.00
11.895	11.895 (0.857)	43	33997			6.67- 106.67	58.78
11.895	11.895 (0.857)	86	9821			0.00- 66.53	16.98
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	7962	2.00000	1.544	50.00- 150.00	100.00(a)
12.365	12.365 (0.890)	43	79015			869.92- 969.92	992.40
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.365	12.365 (0.890)	63	60326	2.00000	1.848	50.00- 150.00	100.00
12.365	12.365 (0.890)	65	18985			0.00- 81.73	31.47
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.964)	72	19285	2.00000	1.814	50.00- 150.00	100.00
13.388	13.388 (0.964)	43	81219			362.73- 462.73	421.15
13.388	13.388 (0.964)	57	5458			0.00- 79.31	28.30
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.416	13.416 (0.966)	61	43195	2.00000	1.846	50.00- 150.00	100.00
13.416	13.416 (0.966)	96	34309			30.20- 130.20	79.43
13.416	13.416 (0.966)	98	21557			0.03- 100.03	49.91
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (0.998)	42	32077	2.00000	1.820	50.00- 150.00	100.00
13.858	13.858 (0.998)	71	16512			0.15- 100.15	51.48
13.858	13.858 (0.998)	72	17589			4.67- 104.67	54.83
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.004)	83	72684	2.00000	1.996	50.00- 150.00	100.00
13.941	13.941 (1.004)	85	45987			16.84- 116.84	63.27
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.273	14.273 (1.028)	97	77002	2.00000	1.997	50.00- 150.00	100.00
14.273	14.273 (1.028)	99	48432			13.29- 113.29	62.90
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	37405	2.00000	1.730	50.00- 150.00	100.00
14.300	14.300 (1.030)	56	37684			49.76- 149.76	100.75
14.300	14.300 (1.030)	41	21198			3.69- 103.69	56.67
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	70245	2.00000	1.941	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	71438			54.35- 154.35	101.70
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	102300	2.00000	1.876	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	23703			0.00- 72.49	23.17
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	151437	2.00000	1.972	50.00- 150.00	100.00
14.881	14.881 (1.072)	56	49574			0.00- 82.34	32.74
14.881	14.881 (1.072)	41	40871			0.00- 76.30	26.99
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	47814	2.00000	1.865	50.00- 150.00	100.00
15.075	15.075 (0.965)	64	17650			0.00- 84.21	36.91
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	33065	2.00000	1.680	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	48610			86.68- 186.68	147.01
15.185	15.185 (0.972)	57	29672			32.20- 132.20	89.74
101 Trichloroethene					CAS #: 79-01-6		
16.070	16.070 (1.028)	95	48210	2.00000	1.936	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	47074			47.47- 147.47	97.64
16.070	16.070 (1.028)	97	29616			14.52- 114.52	61.43
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	36325	2.00000	1.948	50.00- 150.00	100.00
16.568	16.568 (1.060)	62	23692			17.52- 117.52	65.22
16.568	16.568 (1.060)	41	18467			0.97- 100.97	50.84
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	25651	2.00000	1.586	50.00- 150.00	100.00(a)
16.706	16.706 (1.069)	58	15206			6.89- 106.89	59.28
16.678	16.678 (1.067)	57	5300			0.00- 69.74	20.66
107 Bromodichloromethane					CAS #: 75-27-4		
16.982	16.982 (1.087)	83	75607	2.00000	1.861	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	48721			14.67- 114.67	64.44
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	52983	2.00000	1.783	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	16415			0.00- 83.04	30.98
17.784	17.784 (1.138)	39	23843			0.00- 93.89	45.00
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	28496	2.00000	1.533	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	63824			169.12- 269.12	223.98
17.978	17.978 (1.150)	85	14750			0.58- 100.58	51.76

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	110459	2.00000	1.825	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	67078			11.10- 111.10	60.73
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.752	18.752 (0.902)	75	55823	2.00000	1.828	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	17877			0.00- 83.38	32.02
18.752	18.752 (0.902)	39	22899			0.00- 92.03	41.02
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	40565	2.00000	1.896	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	26631			14.64- 114.64	65.65
19.111	19.111 (0.919)	83	35194			37.04- 137.04	86.76
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	54526	2.00000	1.906	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	38721			21.89- 121.89	71.01
19.277	19.277 (0.927)	131	36803			19.59- 119.59	67.50
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	38677	2.00000	1.394	50.00- 150.00	100.00(a)
19.416	19.416 (0.934)	43	66721			114.75- 214.75	172.51
19.443	19.443 (0.935)	100	8102			0.00- 71.95	20.95
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	64601	2.00000	1.815	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	49230			26.41- 126.41	76.21
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	62076	2.00000	1.805	50.00- 150.00	100.00
20.051	20.051 (0.964)	109	57247			43.48- 143.48	92.22
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	86369	2.00000	1.801	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	29287			0.00- 83.18	33.91
20.853	20.853 (1.003)	77	60790			20.20- 120.20	70.38
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	46047	2.00000	1.856	50.00- 150.00	100.00
20.936	20.936 (1.007)	91	137670			265.06- 365.06	298.98
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	52698	2.00000	1.710	50.00- 150.00	100.00
21.130	21.130 (1.016)	91	106531			147.41- 247.41	202.15
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	47321	2.00000	1.666	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	100495			155.82- 255.82	212.37
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	75527	2.00000	1.682	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	40665			9.19- 109.19	53.84
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	57494	2.00000	1.707	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	27789			0.74- 100.74	48.33
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	134966	2.00000	1.810	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	35077			0.00- 75.99	25.99
22.429	22.429 (1.078)	51	11297			9.74- 109.74	8.37
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	83027	2.00000	1.837	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	51158			14.88- 114.88	61.62
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	166480	2.00000	1.694	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	38470			0.00- 72.67	23.11
23.121	23.121 (1.112)	105	6241			0.00- 53.69	3.75
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	143422	2.00000	1.716	50.00- 150.00	100.00
23.286	23.286 (1.120)	120	42561			0.00- 80.49	29.68
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	121924	2.00000	1.762	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	60226			1.60- 101.60	49.40
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	109484	2.00000	1.658	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	52557			0.00- 96.88	48.00
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	84540	2.00000	1.822	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	53837			14.03- 114.03	63.68
24.586	24.586 (1.182)	111	36137			0.00- 91.33	42.75
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.724	24.724 (1.189)	146	89479	2.00000	1.873	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	55939			15.04- 115.04	62.52
24.724	24.724 (1.189)	111	34706			0.00- 89.92	38.79

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	108224	2.00000	1.602	50.00- 150.00	100.00
24.945	24.945 (1.199)	126	21240			0.00- 70.12	19.63
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	87371	2.00000	1.901	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	54625			14.55- 114.55	62.52
25.360	25.360 (1.219)	111	36061			0.00- 93.18	41.27
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	86052	2.00000	1.958	50.00- 150.00	100.00(a)
28.153	28.153 (1.354)	182	80453			44.49- 144.49	93.49
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	67088	2.00000	2.087	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	45189			14.10- 114.10	67.36
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	4620	2.00000	1.885	50.00- 150.00	100.00(a)
6.807	6.807 (0.490)	43	34782			668.04- 768.04	752.86
29 Isopentane					CAS #: 78-78-4		
8.245	8.245 (0.594)	43	37339	2.00000	1.885	50.00- 150.00	100.00(a)
8.273	8.273 (0.596)	57	28657			26.21- 126.21	76.75
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.346	16.346 (1.177)	83	49266	2.00000	1.760	50.00- 150.00	100.00
16.346	16.346 (1.177)	98	21906			0.00- 92.45	44.46
16.346	16.346 (1.177)	55	34981			18.10- 118.10	71.00
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	114530	2.00000	1.811	50.00- 150.00	100.00(a)
28.678	28.678 (1.379)	127	15017			0.00- 62.43	13.11

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112104.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: dm
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-2.0ppbv

Calibration Date: 23-NOV-2007
Calibration Time: 09:32
Client Smp ID: Level 3
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	364898	218939	510857	270233	-25.94
97 1,4-Difluorobenze	1716816	1030090	2403542	1278371	-25.54
126 Chlorobenzene-d5	1199182	719509	1678855	905933	-24.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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.

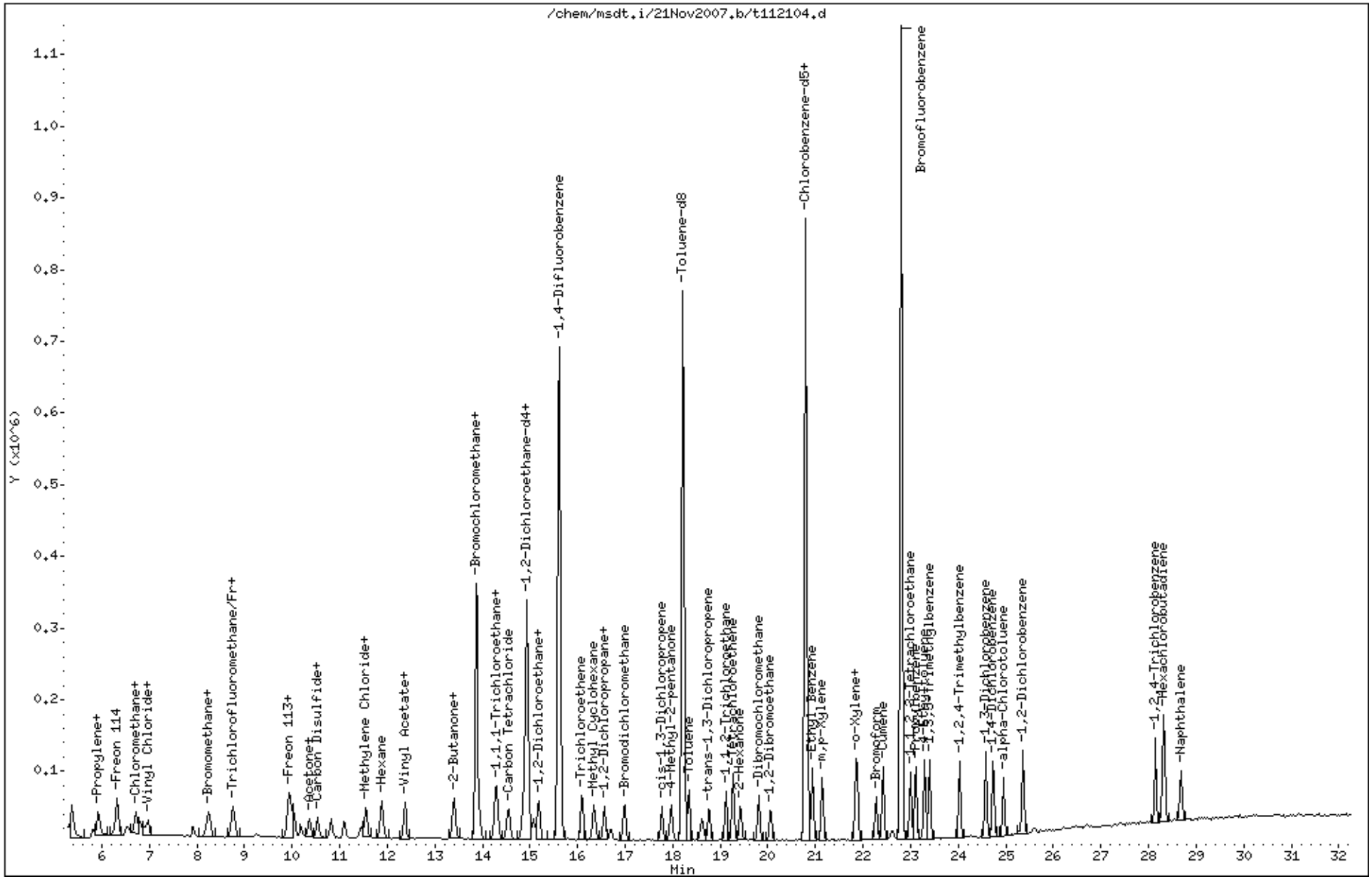
0112

Data File: /chem/msdt.i/21Nov2007.b/t112104.d
Date : 21-NOV-2007 15:48
Client ID: Level 3
Sample Info: 2.0ml #1576-92

Instrument: msdt.i

Operator: dm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112608.d
Lab Smp Id: ical level 4
Inj Date : 26-NOV-2007 15:28
Operator : ea Inst ID: msdt.i
Smp Info : 8.0ml #1487-402
Misc Info : 200ppbv-8ppbv
Comment :
Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.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
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
13.865	13.865 (1.000)	130	305186	25.0000		50.00- 150.00		100.00
13.865	13.865 (1.000)	128	230653			26.64- 126.64		75.58
13.865	13.865 (1.000)	49	315789			73.62- 173.62		103.47
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.607	15.607 (1.000)	114	1391788	25.0000		50.00- 150.00		100.00
15.607	15.607 (1.000)	88	215127			0.00- 65.84		15.46
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
20.805	20.805 (1.000)	117	1019619	25.0000		50.00- 150.00		100.00
20.805	20.805 (1.000)	82	551342			4.93- 104.93		54.07
5 Freon 143a					CAS #: 420-46-2			
5.535	5.535 (0.399)	69	128088	8.00000	6.526	50.00- 150.00		100.00
6 Freon142b					CAS #: 75-68-3			
6.464	6.464 (0.466)	65	195519	8.00000	6.703	50.00- 150.00		100.00
6.464	6.464 (0.466)	45	39080			0.00- 69.76		19.99

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Freon 13					CAS #: 75-72-9		
5.394	5.394 (0.389)	69	206843	8.00000	7.771	50.00- 150.00	100.00
5.394	5.394 (0.389)	85	66311			0.00- 82.40	32.06
5.394	5.394 (0.389)	87	22108			0.00- 60.56	10.69
13 Freon 134a					CAS #: 811-97-2		
5.704	5.704 (0.411)	83	92435	8.00000	6.692	50.00- 150.00	100.00
5.675	5.675 (0.409)	69	77312			31.14- 131.14	83.64
15 Freon 152a					CAS #: 75-37-6		
5.844	5.844 (0.422)	65	46329	8.00000	6.481	50.00- 150.00	100.00
5.844	5.844 (0.422)	51	80641			117.84- 217.84	174.06
5.872	5.872 (0.424)	47	19070			0.00- 88.39	41.16
17 Freon 22					CAS #: 75-45-6		
6.013	6.013 (0.434)	67	24920	8.00000	6.829	50.00- 150.00	100.00
6.013	6.013 (0.434)	51	124488			439.12- 539.12	499.55
6.013	6.013 (0.434)	85	3727			0.00- 91.16	14.96
26 Methanol					CAS #: 67-56-1		
7.562	7.562 (0.545)	31	139497	48.0000	44.470	50.00- 150.00	100.00(a)
7.562	7.562 (0.545)	32	225660			73.38- 173.38	161.77
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.745	8.745 (0.631)	67	158908	8.00000	6.502	50.00- 150.00	100.00
8.745	8.745 (0.631)	69	52258			0.00- 82.06	32.89
8.745	8.745 (0.631)	35	7914			0.00- 54.92	4.98
40 Freon123a					CAS #: 354-23-4		
9.580	9.580 (0.691)	67	165063	8.00000	6.896	50.00- 150.00	100.00
9.580	9.580 (0.691)	117	133947			30.97- 130.97	81.15
41 Freon123					CAS #: 306-83-2		
9.718	9.718 (0.701)	83	230834	8.00000	6.966	50.00- 150.00	100.00
9.718	9.718 (0.701)	133	46626			0.00- 70.26	20.20
9.718	9.718 (0.701)	85	156974			17.95- 117.95	68.00
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.156	11.156 (0.805)	59	112274	8.00000	6.945	50.00- 150.00	100.00
11.156	11.156 (0.805)	41	24251			0.00- 78.87	21.60
11.156	11.156 (0.805)	57	11822			0.00- 61.35	10.53
68 Isopropyl ether					CAS #: 108-20-3		
12.289	12.289 (0.886)	45	329262	8.00000	6.570	50.00- 150.00	100.00
12.289	12.289 (0.886)	87	117116			0.00- 84.51	35.57
12.289	12.289 (0.886)	59	42262			0.00- 62.64	12.84

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
71 1-Propanol					CAS #: 71-23-8		
12.400	12.400 (0.894)	42	15400	8.00000	5.840	50.00- 150.00	100.00(H)
12.400	12.400 (0.894)	59	20411			75.45- 175.45	132.54
12.289	12.289 (0.886)	41	70405			158.05- 258.05	457.18
73 t-Butylethyl Ether					CAS #: 637-92-3		
12.925	12.925 (0.932)	59	167003	8.00000	6.856	50.00- 150.00	100.00
12.925	12.925 (0.932)	87	77183			0.00- 95.70	46.22
12.925	12.925 (0.932)	41	31852			0.00- 69.82	19.07
77 Ethyl Acetate					CAS #: 141-78-6		
13.395	13.395 (0.966)	45	36164	8.00000	6.847	50.00- 150.00	100.00
13.395	13.395 (0.966)	61	39462			63.70- 163.70	109.12
13.395	13.395 (0.966)	43	247242			641.02- 741.02	683.67
99 Isobutanol					CAS #: 78-83-1		
14.612	14.612 (0.936)	59	1891	8.00000	5.482	50.00- 150.00	100.00
14.612	14.612 (0.936)	41	47030			2254.31-2354.31	2487.04
14.612	14.612 (0.936)	43	51667			2684.91-2784.91	2732.26
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
14.999	14.999 (1.082)	73	213130	8.00000	7.396	50.00- 150.00	100.00
14.999	14.999 (1.082)	87	52173			0.00- 75.09	24.48
14.999	14.999 (1.082)	55	52659			0.00- 74.77	24.71
96 2-Heptanone					CAS #: 110-43-0		
21.966	21.966 (1.584)	58	110555	8.00000	5.453	50.00- 150.00	100.00
21.966	21.966 (1.584)	43	145663			85.60- 185.60	131.76
98 1-Butanol					CAS #: 71-36-3		
15.801	15.801 (1.012)	56	43814	8.00000	6.178	50.00- 150.00	100.00
15.801	15.801 (1.012)	41	30834			17.89- 117.89	70.37
15.801	15.801 (1.012)	43	22424			0.00- 99.85	51.18
119 Butyl Acetate					CAS #: 123-86-4		
19.533	19.533 (1.252)	56	82367	8.00000	5.720	50.00- 150.00	100.00
19.533	19.533 (1.252)	73	36423			0.00- 94.51	44.22
19.533	19.533 (1.252)	43	180360			163.30- 263.30	218.97
135 Cyclohexanone					CAS #: 108-94-1		
22.741	22.741 (1.093)	55	81884	8.00000	6.021	50.00- 150.00	100.00
22.741	22.741 (1.093)	98	44200			6.71- 106.71	53.98
22.741	22.741 (1.093)	42	49745			11.68- 111.68	60.75
146 Diisobutyl Ketone					CAS #: 108-83-8		
23.570	23.570 (1.133)	57	195328	8.00000	5.821	50.00- 150.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Diisobutyl Ketone (continued)							
23.570	23.570 (1.133)	85	198925			53.67- 153.67	101.84
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

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

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112608.d
Lab Smp Id: ical level 4
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m
Misc Info: 200ppbv-8ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 10:49
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	301939	181163	422715	305186	1.08
97 1,4-Difluorobenze	1427711	856627	1998795	1391788	-2.52
126 Chlorobenzene-d5	1047767	628660	1466874	1019619	-2.69

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	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.

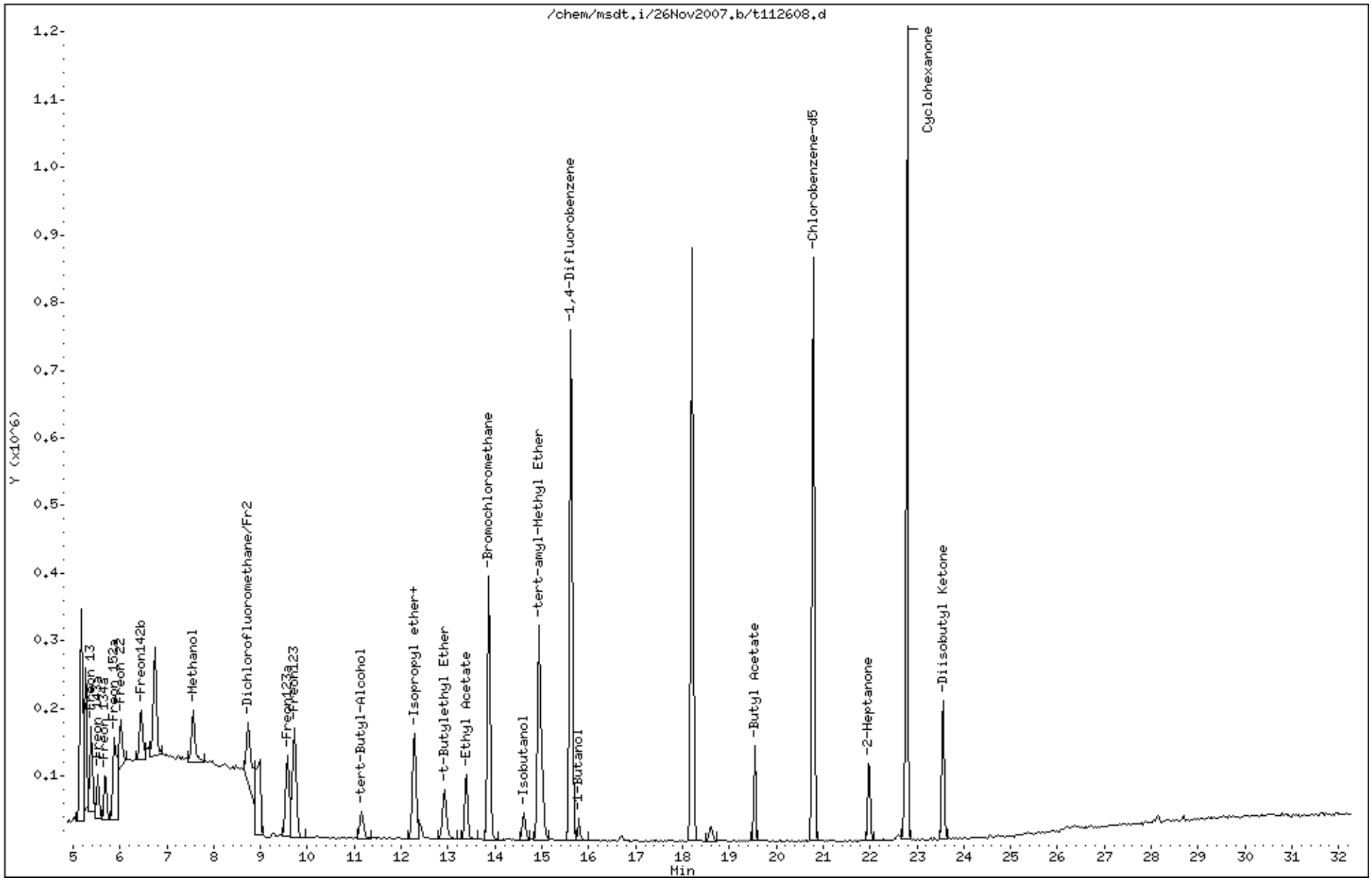
0118

Data File: /chem/msdt.i/26Nov2007.b/t112608.d
Date : 26-NOV-2007 15:28
Client ID:
Sample Info: 8.0ml #1487-402

Column phase: RTx-624

Instrument: msdt.i

Operator: ea
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112105.d
Lab Smp Id: ical Client Smp ID: Level 4
Inj Date : 21-NOV-2007 16:33
Operator : dm Inst ID: msdt.i
Smp Info : 25ml #1576-92
Misc Info : 200ppbv-25ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 16:33 Cal File: t112105.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
13.858	13.858 (1.000)	130	307764	25.0000		50.00- 150.00		100.00
13.858	13.858 (1.000)	128	233821			26.38- 126.38		75.97
13.858	13.858 (1.000)	49	443512			91.95- 191.95		144.11
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.628	15.628 (1.000)	114	1370043	25.0000		50.00- 150.00		100.00
15.628	15.628 (1.000)	88	216005			0.00- 65.95		15.77
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
20.798	20.798 (1.000)	117	940060	25.0000		50.00- 150.00		100.00
20.798	20.798 (1.000)	82	521343			5.79- 105.79		55.46
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
14.936	14.936 (1.078)	65	485211	25.0000	24.457	50.00- 150.00		100.00
14.936	14.936 (1.078)	67	266945			5.03- 105.03		55.02
$ 113 Toluene-d8					CAS #: 2037-26-5			
18.199	18.199 (1.165)	98	1129764	25.0000	24.360	50.00- 150.00		100.00
18.199	18.199 (1.165)	70	124723			0.00- 61.02		11.04

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	772981			19.45- 119.45	68.42
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	587777	25.0000	24.891	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	754934			77.33- 177.33	128.44
22.789	22.789 (1.096)	176	572655			46.56- 146.56	97.43
11 Propylene					CAS #: 115-07-1		
5.812	5.812 (0.419)	41	203101	25.0000	24.767	50.00- 150.00	100.00
5.812	5.812 (0.419)	42	142941			17.24- 117.24	70.38
5.812	5.812 (0.419)	39	164882			27.83- 127.83	81.18
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.923	5.923 (0.427)	85	1162226	25.0000	25.717	50.00- 150.00	100.00
5.923	5.923 (0.427)	87	368302			0.00- 82.07	31.69
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.455)	135	767796	25.0000	26.198	50.00- 150.00	100.00
6.310	6.310 (0.455)	137	244740			0.00- 81.55	31.88
18 Chloromethane					CAS #: 74-87-3		
6.531	6.531 (0.471)	50	257665	25.0000	24.712	50.00- 150.00	100.00
6.531	6.531 (0.471)	52	86986			0.00- 84.03	33.76
20 Vinyl Chloride					CAS #: 75-01-4		
6.890	6.890 (0.497)	62	371581	25.0000	26.054	50.00- 150.00	100.00
6.890	6.890 (0.497)	64	123575			0.00- 93.71	33.26
22 1,3-Butadiene					CAS #: 106-99-0		
6.946	6.946 (0.501)	54	346553	25.0000	29.846	50.00- 150.00	100.00
6.946	6.946 (0.501)	39	330061			54.52- 154.52	95.24
25 Bromomethane					CAS #: 74-83-9		
7.913	7.913 (0.571)	94	338309	25.0000	26.194	50.00- 150.00	100.00
7.913	7.913 (0.571)	96	311427			50.48- 150.48	92.05
27 Chloroethane					CAS #: 75-00-3		
8.190	8.190 (0.591)	64	183978	25.0000	26.313	50.00- 150.00	100.00
8.190	8.190 (0.591)	49	46568			0.00- 74.88	25.31
8.190	8.190 (0.591)	66	58516			0.00- 80.84	31.81
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.771 (0.633)	101	1702100	25.0000	29.019	50.00- 150.00	100.00
8.771	8.771 (0.633)	103	1102413			16.26- 116.26	64.77

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.241 (0.667)	45	194543	25.0000	29.103	50.00- 150.00	100.00
9.241	9.241 (0.667)	43	45550			0.00- 72.67	23.41
9.241	9.241 (0.667)	46	70896			0.00- 86.29	36.44
42 Freon 113					CAS #: 76-13-1		
9.932	9.932 (0.717)	151	999258	25.0000	28.275	50.00- 150.00	100.00
9.932	9.932 (0.717)	153	643765			15.23- 115.23	64.42
9.932	9.932 (0.717)	101	1298899			83.14- 183.14	129.99
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.015	10.015 (0.723)	61	778227	25.0000	29.081	50.00- 150.00	100.00
10.043	10.043 (0.725)	96	476604			16.79- 116.79	61.24
10.043	10.043 (0.725)	98	307293			0.00- 90.88	39.49
45 Acetone					CAS #: 67-64-1		
10.181	10.181 (0.735)	58	265958	25.0000	27.239	50.00- 150.00	100.00
10.181	10.181 (0.735)	43	843581			259.05- 359.05	317.19
46 2-Propanol					CAS #: 67-63-0		
10.374	10.374 (0.749)	45	1357918	25.0000	27.672	50.00- 150.00	100.00
10.374	10.374 (0.749)	43	305750			0.00- 73.80	22.52
10.374	10.374 (0.749)	59	56586			0.00- 54.08	4.17
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.540 (0.761)	76	1244087	25.0000	27.148	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.817	10.817 (0.781)	76	262201	25.0000	27.603	50.00- 150.00	100.00
10.817	10.817 (0.781)	41	611959			185.00- 285.00	233.39
54 Methylene Chloride					CAS #: 75-09-2		
11.093	11.093 (0.800)	49	434956	25.0000	27.016	50.00- 150.00	100.00
11.093	11.093 (0.800)	84	385491			40.01- 140.01	88.63
11.093	11.093 (0.800)	51	135319			0.00- 81.08	31.11
60 MTBE					CAS #: 1634-04-4		
11.453	11.453 (0.826)	73	647227	25.0000	25.697	50.00- 150.00	100.00
11.453	11.453 (0.826)	57	125806			0.00- 69.28	19.44
11.453	11.453 (0.826)	41	129401			0.00- 69.31	19.99
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.536	11.536 (0.832)	96	600822	25.0000	27.456	50.00- 150.00	100.00
11.536	11.536 (0.832)	61	832371			83.34- 183.34	138.54
11.536	11.536 (0.832)	98	380971			11.49- 111.49	63.41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.858)	57	989059	25.0000	27.556	50.00- 150.00	100.00
11.895	11.895 (0.858)	43	580537			6.67- 106.67	58.70
11.895	11.895 (0.858)	86	173680			0.00- 66.53	17.56
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.892)	86	152714	25.0000	26.000	50.00- 150.00	100.00
12.337	12.337 (0.890)	43	1439290			869.92- 969.92	942.47
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.365	12.365 (0.892)	63	1055871	25.0000	28.394	50.00- 150.00	100.00
12.365	12.365 (0.892)	65	337767			0.00- 81.73	31.99
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.966)	72	335958	25.0000	27.744	50.00- 150.00	100.00
13.388	13.388 (0.966)	43	1404803			362.73- 462.73	418.15
13.388	13.388 (0.966)	57	100302			0.00- 79.31	29.86
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.416	13.416 (0.968)	61	757924	25.0000	28.436	50.00- 150.00	100.00
13.416	13.416 (0.968)	96	565959			30.20- 130.20	74.67
13.416	13.416 (0.968)	98	371322			0.03- 100.03	48.99
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (1.000)	42	567073	25.0000	28.244	50.00- 150.00	100.00
13.858	13.858 (1.000)	71	281975			0.15- 100.15	49.72
13.858	13.858 (1.000)	72	313041			4.67- 104.67	55.20
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.006)	83	1235702	25.0000	29.804	50.00- 150.00	100.00
13.941	13.941 (1.006)	85	804653			16.84- 116.84	65.12
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.273	14.273 (1.030)	97	1186213	25.0000	27.015	50.00- 150.00	100.00
14.273	14.273 (1.030)	99	762914			13.29- 113.29	64.32
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.032)	84	660623	25.0000	26.824	50.00- 150.00	100.00
14.300	14.300 (1.032)	56	676088			49.76- 149.76	102.34
14.300	14.300 (1.032)	41	349221			3.69- 103.69	52.86
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.050)	119	1141957	25.0000	27.708	50.00- 150.00	100.00
14.549	14.549 (1.050)	117	1206884			54.35- 154.35	105.69
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.074)	57	2489804	25.0000	28.466	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.881	14.881 (1.074)	56	810762			0.00- 82.34	32.56
14.881	14.881 (1.074)	41	636707			0.00- 76.30	25.57
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	1660183	25.0000	28.403	50.00- 150.00	100.00
14.964	14.964 (0.958)	77	385311			0.00- 72.49	23.21
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	799362	25.0000	29.088	50.00- 150.00	100.00
15.075	15.075 (0.965)	64	262062			0.00- 84.21	32.78
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	596501	25.0000	28.284	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	818532			86.68- 186.68	137.22
15.185	15.185 (0.972)	57	484028			32.20- 132.20	81.14
101 Trichloroethene					CAS #: 79-01-6		
16.070	16.070 (1.028)	95	772261	25.0000	28.941	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	738216			47.47- 147.47	95.59
16.070	16.070 (1.028)	97	490876			14.52- 114.52	63.56
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	549610	25.0000	27.500	50.00- 150.00	100.00
16.568	16.568 (1.060)	62	400505			17.52- 117.52	72.87
16.568	16.568 (1.060)	41	287303			0.97- 100.97	52.27
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	456280	25.0000	26.321	50.00- 150.00	100.00
16.678	16.678 (1.067)	58	262102			6.89- 106.89	57.44
16.678	16.678 (1.067)	57	92473			0.00- 69.74	20.27
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	1256923	25.0000	28.869	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	811506			14.67- 114.67	64.56
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	915311	25.0000	28.746	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	288098			0.00- 83.04	31.48
17.784	17.784 (1.138)	39	386195			0.00- 93.89	42.19
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	569196	25.0000	28.569	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	1290577			169.12- 269.12	226.74
17.978	17.978 (1.150)	85	289445			0.58- 100.58	50.85

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	1788626	25.0000	27.580	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	1106169			11.10- 111.10	61.84
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	953850	25.0000	30.099	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	309448			0.00- 83.38	32.44
18.752	18.752 (0.902)	39	371463			0.00- 92.03	38.94
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.112	19.112 (0.919)	97	668692	25.0000	30.124	50.00- 150.00	100.00
19.112	19.112 (0.919)	99	421262			14.64- 114.64	63.00
19.112	19.112 (0.919)	83	553240			37.04- 137.04	82.73
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	892868	25.0000	30.080	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	628626			21.89- 121.89	70.41
19.277	19.277 (0.927)	131	595581			19.59- 119.59	66.70
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	793615	25.0000	27.569	50.00- 150.00	100.00
19.416	19.416 (0.934)	43	1310507			114.75- 214.75	165.13
19.416	19.416 (0.934)	100	176970			0.00- 71.95	22.30
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	1126515	25.0000	30.497	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	857120			26.41- 126.41	76.09
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	1058488	25.0000	29.661	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	982242			43.48- 143.48	92.80
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	1429441	25.0000	28.725	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	456716			0.00- 83.18	31.95
20.853	20.853 (1.003)	77	843032			20.20- 120.20	58.98
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	746430	25.0000	28.997	50.00- 150.00	100.00
20.936	20.936 (1.007)	91	2313958			265.06- 365.06	310.00
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	938114	25.0000	29.331	50.00- 150.00	100.00
21.130	21.130 (1.016)	91	1826519			147.41- 247.41	194.70
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	868697	25.0000	29.477	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	1782003			155.82- 255.82	205.14
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	1490172	25.0000	31.990	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	734187			9.19- 109.19	49.27
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	1008497	25.0000	28.850	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	512105			0.74- 100.74	50.78
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	2385218	25.0000	30.820	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	626586			0.00- 75.99	26.27
22.429	22.429 (1.078)	51	187659			9.74- 109.74	7.87
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	1327737	25.0000	28.312	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	864174			14.88- 114.88	65.09
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	2937772	25.0000	28.804	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	670514			0.00- 72.67	22.82
23.121	23.121 (1.112)	105	105034			0.00- 53.69	3.58
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.287 (1.120)	105	2510514	25.0000	28.942	50.00- 150.00	100.00
23.287	23.287 (1.120)	120	769258			0.00- 80.49	30.64
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	2085075	25.0000	29.031	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	1036589			1.60- 101.60	49.71
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	2006013	25.0000	29.283	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	933491			0.00- 96.88	46.53
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	1358210	25.0000	28.215	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	865122			14.03- 114.03	63.70
24.586	24.586 (1.182)	111	560571			0.00- 91.33	41.27
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.724	24.724 (1.189)	146	1385318	25.0000	27.949	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	889542			15.04- 115.04	64.21
24.724	24.724 (1.189)	111	557925			0.00- 89.92	40.27

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.946 (1.199)	91	2013651	25.0000	28.731	50.00- 150.00	100.00
24.946	24.946 (1.199)	126	392538			0.00- 70.12	19.49
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	1335025	25.0000	27.993	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	862150			14.55- 114.55	64.58
25.360	25.360 (1.219)	111	582972			0.00- 93.18	43.67
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	1129157	25.0000	24.754	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	1078030			44.49- 144.49	95.47
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	817762	25.0000	24.521	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	520302			14.10- 114.10	63.63
29 Isopentane					CAS #: 78-78-4		
8.245	8.245 (0.595)	43	631978	25.0000	28.020	50.00- 150.00	100.00
8.245	8.245 (0.595)	57	475192			26.21- 126.21	75.19
19 Butane					CAS #: 106-97-8		
6.808	6.808 (0.491)	58	79028	25.0000	28.310	50.00- 150.00	100.00
6.808	6.808 (0.491)	43	568956			668.04- 768.04	719.94
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.347	16.347 (1.180)	83	849696	25.0000	26.647	50.00- 150.00	100.00
16.347	16.347 (1.180)	98	382502			0.00- 92.45	45.02
16.347	16.347 (1.180)	55	585600			18.10- 118.10	68.92
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	1596060	25.0000	24.325	50.00- 150.00	100.00
28.678	28.678 (1.379)	127	196302			0.00- 62.43	12.30

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112105.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: dm
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-25ppbv

Calibration Date: 23-NOV-2007
Calibration Time: 09:32
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	364898	218939	510857	307764	-15.66
97 1,4-Difluorobenze	1716816	1030090	2403542	1370043	-20.20
126 Chlorobenzene-d5	1199182	719509	1678855	940060	-21.61

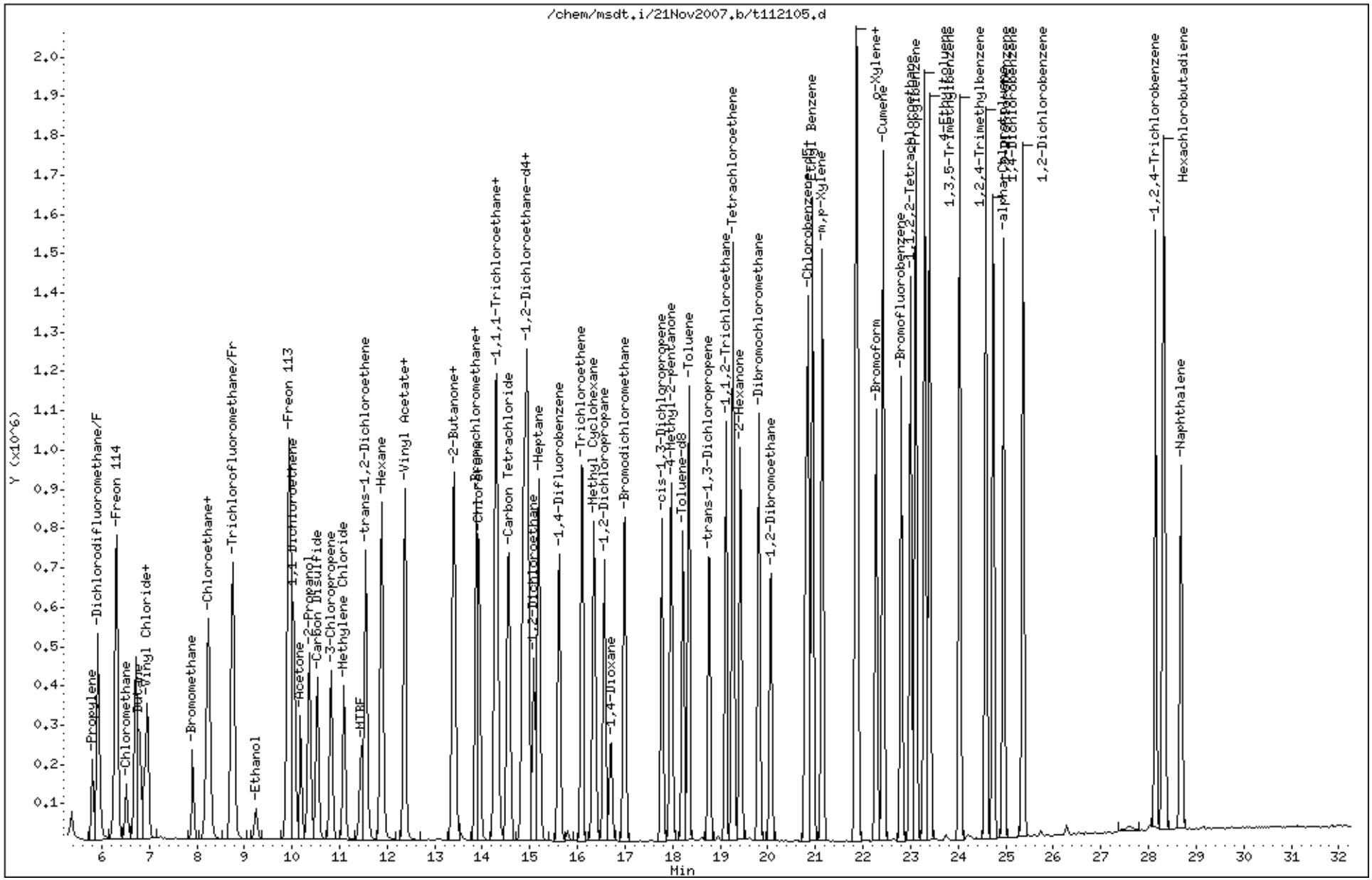
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.86	-0.20
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

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/msdt.i/21Nov2007.b/t112105.d
Date : 21-NOV-2007 16:33
Client ID: Level 4
Sample Info: 25ml #1576-92

Instrument: msdt.i
Operator: dm
Column diameter: 0.53

Column phase: RTx-624



0128

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112603.d
Lab Smp Id: ical level 5
Inj Date : 26-NOV-2007 10:49
Operator : ea Inst ID: msdt.i
Smp Info : 50ml #1487-402
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
Cal Date : 26-NOV-2007 10:49 Cal File: t112603.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	301939	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	227251			25.26- 125.26	75.26
13.865	13.865 (1.000)	49	328319			58.74- 158.74	108.74
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1427711	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	225620			0.00- 65.80	15.80
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1047767	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	572517			4.93- 104.93	54.64
5 Freon 143a					CAS #: 420-46-2		
5.534	5.534 (0.399)	69	970137	50.0000	49.958	80.00- 120.00	100.00
6 Freon142b					CAS #: 75-68-3		
6.435	6.435 (0.464)	65	1539948	50.0000	53.363	80.00- 120.00	100.00
6.435	6.435 (0.464)	45	299709			0.00- 69.76	19.46

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
9 Freon 13					CAS #: 75-72-9		
5.394	5.394 (0.389)	69	1536694	50.0000	58.354	80.00- 120.00	100.00
5.394	5.394 (0.389)	85	485823			0.00- 82.40	31.61
5.394	5.394 (0.389)	87	160398			0.00- 60.56	10.44
13 Freon 134a					CAS #: 811-97-2		
5.675	5.675 (0.409)	83	704170	50.0000	51.527	80.00- 120.00	100.00
5.675	5.675 (0.409)	69	571710			31.14- 131.14	81.19
15 Freon 152a					CAS #: 75-37-6		
5.844	5.844 (0.422)	65	364815	50.0000	51.582	80.00- 120.00	100.00
5.844	5.844 (0.422)	51	617020			117.84- 217.84	169.13
5.844	5.844 (0.422)	47	142188			0.00- 88.39	38.98
17 Freon 22					CAS #: 75-45-6		
6.013	6.013 (0.434)	67	185884	50.0000	51.485	80.00- 120.00	100.00
5.985	5.985 (0.432)	51	930890			439.12- 539.12	500.79
6.013	6.013 (0.434)	85	17226			0.00- 91.16	9.27
26 Methanol					CAS #: 67-56-1		
7.562	7.562 (0.545)	31	880334	300.000	283.66	80.00- 120.00	100.00
7.562	7.562 (0.545)	32	686349			27.96- 127.96	77.96
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.745	8.745 (0.631)	67	1270200	50.0000	52.528	80.00- 120.00	100.00
8.745	8.745 (0.631)	69	418270			0.00- 82.06	32.93
8.745	8.745 (0.631)	35	61603			0.00- 54.92	4.85
40 Freon123a					CAS #: 354-23-4		
9.579	9.579 (0.691)	67	1327213	50.0000	56.049	80.00- 120.00	100.00
9.579	9.579 (0.691)	117	1048353			30.97- 130.97	78.99
41 Freon123					CAS #: 306-83-2		
9.718	9.718 (0.701)	83	1800972	50.0000	54.930	80.00- 120.00	100.00
9.718	9.718 (0.701)	133	368793			0.00- 70.26	20.48
9.718	9.718 (0.701)	85	1220714			17.95- 117.95	67.78
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.155	11.155 (0.805)	59	734039	50.0000	45.897	80.00- 120.00	100.00
11.155	11.155 (0.805)	41	158689			0.00- 78.87	21.62
11.155	11.155 (0.805)	57	73344			0.00- 61.35	9.99
68 Isopropyl ether					CAS #: 108-20-3		
12.289	12.289 (0.886)	45	2768086	50.0000	55.828	80.00- 120.00	100.00
12.289	12.289 (0.886)	87	910274			0.00- 84.51	32.88
12.289	12.289 (0.886)	59	340233			0.00- 62.64	12.29

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
71 1-Propanol					CAS #: 71-23-8		
12.400	12.400 (0.894)	42	142090	50.0000	54.459	80.00- 120.00	100.00(H)
12.400	12.400 (0.894)	59	207169			75.45- 175.45	145.80
12.400	12.400 (0.894)	41	121148			158.05- 258.05	85.26
73 t-Butylethyl Ether					CAS #: 637-92-3		
12.925	12.925 (0.932)	59	1247549	50.0000	51.771	80.00- 120.00	100.00
12.925	12.925 (0.932)	87	573435			0.00- 95.70	45.96
12.925	12.925 (0.932)	41	221058			0.00- 69.82	17.72
77 Ethyl Acetate					CAS #: 141-78-6		
13.367	13.367 (0.964)	45	296370	50.0000	56.715	80.00- 120.00	100.00
13.395	13.395 (0.966)	61	340888			63.70- 163.70	115.02
13.367	13.367 (0.964)	43	2087536			641.02- 741.02	704.37
99 Isobutanol					CAS #: 78-83-1		
14.612	14.612 (0.936)	59	20336	50.0000	57.476	80.00- 120.00	100.00
14.612	14.612 (0.936)	41	431442			2254.31-2354.31	2121.57
14.612	14.612 (0.936)	43	556712			2684.91-2784.91	2737.57
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
14.999	14.999 (1.082)	73	1470603	50.0000	51.579	80.00- 120.00	100.00
14.999	14.999 (1.082)	87	370638			0.00- 75.09	25.20
14.999	14.999 (1.082)	55	350216			0.00- 74.77	23.81
96 2-Heptanone					CAS #: 110-43-0		
21.966	21.966 (1.584)	58	1218125	50.0000	60.732	80.00- 120.00	100.00
21.966	21.966 (1.584)	43	1667188			85.60- 185.60	136.87
98 1-Butanol					CAS #: 71-36-3		
15.773	15.773 (1.011)	56	522460	50.0000	71.810	80.00- 120.00	100.00
15.773	15.773 (1.011)	41	335388			17.89- 117.89	64.19
15.773	15.773 (1.011)	43	257584			0.00- 99.85	49.30
119 Butyl Acetate					CAS #: 123-86-4		
19.533	19.533 (1.252)	56	833903	50.0000	56.451	80.00- 120.00	100.00
19.533	19.533 (1.252)	73	355029			0.00- 92.57	42.57
19.533	19.533 (1.252)	43	1791673			164.85- 264.85	214.85
135 Cyclohexanone					CAS #: 108-94-1		
22.740	22.740 (1.093)	55	808609	50.0000	57.858	80.00- 120.00	100.00
22.740	22.740 (1.093)	98	460924			6.71- 106.71	57.00
22.740	22.740 (1.093)	42	504515			11.68- 111.68	62.39
146 Diisobutyl Ketone					CAS #: 108-83-8		
23.570	23.570 (1.133)	57	2107113	50.0000	61.109	80.00- 120.00	100.00

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Diisobutyl Ketone (continued)							
23.570	23.570 (1.133)	85	2141357			51.63- 151.63	101.63
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112603.d
Lab Smp Id: ical level 5
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 10:49
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	301939	181163	422715	301939	0.00
97 1,4-Difluorobenze	1427711	856627	1998795	1427711	0.00
126 Chlorobenzene-d5	1047767	628660	1466874	1047767	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.80	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.

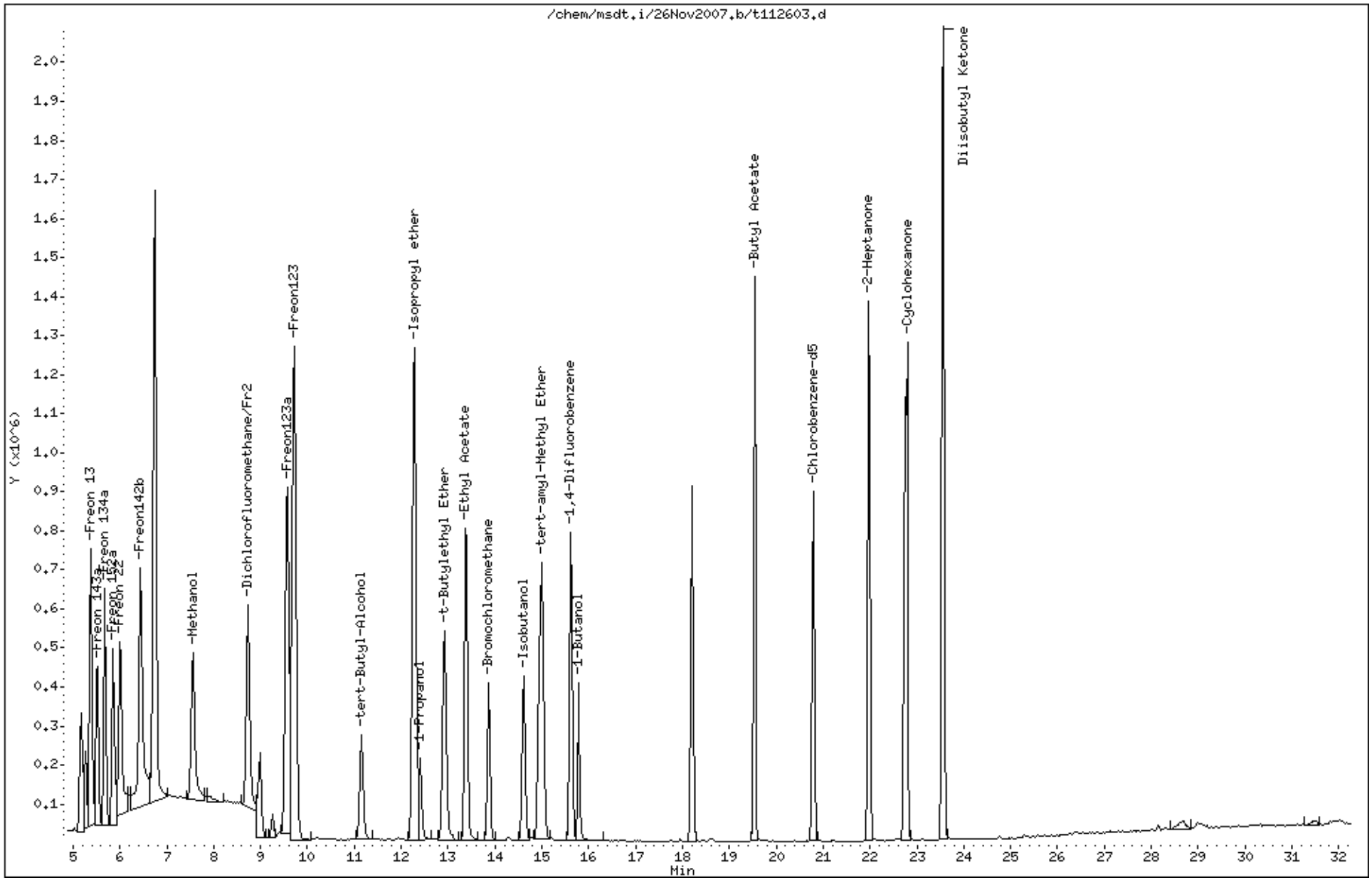
0134

Data File: /chem/msdt.i/26Nov2007.b/t112603.d
Date : 26-NOV-2007 10:49
Client ID:
Sample Info: 50ml #1487-402

Column phase: RTx-624

Instrument: msdt.i

Operator: ea
Column diameter: 0.53



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112106.d
Lab Smp Id: ical Client Smp ID: Level 5
Inj Date : 21-NOV-2007 17:45
Operator : dm Inst ID: msdt.i
Smp Info : 50ml #1576-92
Misc Info : 200ppbv-50ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 17:45 Cal File: t112106.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS				
				CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE		RATIO
==	====== ========	====	========	=======	=======	==========		=====
* 81 Bromochloromethane					CAS #: 74-97-5			
13.886	13.886 (1.000)	130	306974	25.0000		80.00- 120.00		100.00
13.886	13.886 (1.000)	128	231444			25.40- 125.40		75.40
13.858	13.858 (1.000)	49	501563			113.39- 213.39		163.39
* 97 1,4-Difluorobenzene					CAS #: 540-36-3			
15.628	15.628 (1.000)	114	1370844	25.0000		80.00- 120.00		100.00
15.628	15.628 (1.000)	88	219266			0.00- 65.99		15.99
* 126 Chlorobenzene-d5					CAS #: 3114-55-4			
20.798	20.798 (1.000)	117	968009	25.0000		80.00- 120.00		100.00
20.798	20.798 (1.000)	82	548507			5.79- 105.79		56.66
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0			
14.936	14.936 (1.076)	65	482515	25.0000	24.384	80.00- 120.00		100.00
14.936	14.936 (1.076)	67	283002			5.03- 105.03		58.65
$ 113 Toluene-d8					CAS #: 2037-26-5			
18.199	18.199 (1.165)	98	1136245	25.0000	24.486	80.00- 120.00		100.00
18.199	18.199 (1.165)	70	127751			0.00- 61.02		11.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	801934			19.45- 119.45	70.58
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	614051	25.0000	25.252	80.00- 120.00	100.00
22.789	22.789 (1.096)	95	779691			76.97- 176.97	126.97
22.789	22.789 (1.096)	176	598873			47.53- 147.53	97.53
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	385861	50.0000	47.175	80.00- 120.00	100.00
5.840	5.840 (0.421)	42	264082			17.24- 117.24	68.44
5.840	5.840 (0.421)	39	295849			27.83- 127.83	76.67
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.429)	85	2194110	50.0000	48.675	80.00- 120.00	100.00
5.950	5.950 (0.429)	87	698953			0.00- 82.07	31.86
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	1415131	50.0000	48.409	80.00- 120.00	100.00
6.337	6.337 (0.456)	137	444794			0.00- 81.55	31.43
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	488474	50.0000	46.970	80.00- 120.00	100.00
6.559	6.559 (0.472)	52	162671			0.00- 84.03	33.30
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	721766	50.0000	50.738	80.00- 120.00	100.00
6.918	6.918 (0.498)	64	232075			0.00- 93.71	32.15
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	596404	50.0000	51.496	80.00- 120.00	100.00
6.973	6.973 (0.502)	39	563277			54.52- 154.52	94.45
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	668207	50.0000	51.871	80.00- 120.00	100.00
7.941	7.941 (0.572)	96	616900			42.32- 142.32	92.32
27 Chloroethane					CAS #: 75-00-3		
8.218	8.218 (0.592)	64	358418	50.0000	51.394	80.00- 120.00	100.00
8.218	8.218 (0.592)	49	91457			0.00- 74.88	25.52
8.218	8.218 (0.592)	66	115803			0.00- 80.84	32.31
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.771 (0.632)	101	3019902	50.0000	51.619	80.00- 120.00	100.00
8.771	8.771 (0.632)	103	1957279			14.81- 114.81	64.81

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.241 (0.665)	45	335731	50.0000	50.354	80.00- 120.00	100.00
9.241	9.241 (0.665)	43	74658			0.00- 72.67	22.24
9.241	9.241 (0.665)	46	125664			0.00- 86.29	37.43
42 Freon 113					CAS #: 76-13-1		
9.960	9.960 (0.717)	151	1835401	50.0000	52.068	80.00- 120.00	100.00
9.960	9.960 (0.717)	153	1168018			13.64- 113.64	63.64
9.960	9.960 (0.717)	101	2356538			78.39- 178.39	128.39
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	1418340	50.0000	53.138	80.00- 120.00	100.00
10.042	10.042 (0.723)	96	887168			12.55- 112.55	62.55
10.042	10.042 (0.723)	98	579752			0.00- 90.88	40.88
45 Acetone					CAS #: 67-64-1		
10.181	10.181 (0.733)	58	478069	50.0000	49.090	80.00- 120.00	100.00
10.181	10.181 (0.733)	43	1469854			259.05- 359.05	307.46
46 2-Propanol					CAS #: 67-63-0		
10.374	10.374 (0.747)	45	2506615	50.0000	51.212	80.00- 120.00	100.00
10.374	10.374 (0.747)	43	549569			0.00- 73.80	21.92
10.374	10.374 (0.747)	59	106668			0.00- 54.08	4.26
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.540 (0.759)	76	2350858	50.0000	51.432	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.817	10.817 (0.779)	76	495181	50.0000	52.264	80.00- 120.00	100.00
10.817	10.817 (0.779)	41	1099560			185.00- 285.00	222.05
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	781937	50.0000	48.692	80.00- 120.00	100.00
11.121	11.121 (0.801)	84	728967			43.23- 143.23	93.23
11.121	11.121 (0.801)	51	247001			0.00- 81.08	31.59
60 MTBE					CAS #: 1634-04-4		
11.453	11.453 (0.825)	73	1158187	50.0000	46.102	80.00- 120.00	100.00
11.453	11.453 (0.825)	57	223270			0.00- 69.28	19.28
11.453	11.453 (0.825)	41	215770			0.00- 69.31	18.63
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	1154247	50.0000	52.883	80.00- 120.00	100.00
11.536	11.536 (0.831)	61	1566623			85.73- 185.73	135.73
11.563	11.563 (0.833)	98	730817			11.49- 111.49	63.32

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	1877074	50.0000	52.431	80.00- 120.00	100.00
11.895	11.895 (0.857)	43	1073680			6.67- 106.67	57.20
11.895	11.895 (0.857)	86	335031			0.00- 66.53	17.85
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	296951	50.0000	50.688	80.00- 120.00	100.00
12.365	12.365 (0.890)	43	2637395			869.92- 969.92	888.16
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.365	12.365 (0.890)	63	1962874	50.0000	52.921	80.00- 120.00	100.00
12.365	12.365 (0.890)	65	629061			0.00- 82.05	32.05
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.964)	72	644762	50.0000	53.382	80.00- 120.00	100.00
13.388	13.388 (0.964)	43	2575109			349.39- 449.39	399.39
13.388	13.388 (0.964)	57	184834			0.00- 79.31	28.67
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.416	13.416 (0.966)	61	1408111	50.0000	52.966	80.00- 120.00	100.00
13.416	13.416 (0.966)	96	1089296			27.36- 127.36	77.36
13.416	13.416 (0.966)	98	702357			0.00- 99.88	49.88
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (0.998)	42	1048548	50.0000	52.359	80.00- 120.00	100.00
13.858	13.858 (0.998)	71	554252			2.86- 102.86	52.86
13.858	13.858 (0.998)	72	591011			4.67- 104.67	56.36
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.004)	83	2292374	50.0000	55.433	80.00- 120.00	100.00
13.941	13.941 (1.004)	85	1499462			15.41- 115.41	65.41
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.273	14.273 (1.028)	97	2229030	50.0000	50.894	80.00- 120.00	100.00
14.273	14.273 (1.028)	99	1442792			14.73- 114.73	64.73
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	1286814	50.0000	52.384	80.00- 120.00	100.00
14.300	14.300 (1.030)	56	1261596			48.04- 148.04	98.04
14.300	14.300 (1.030)	41	648237			0.38- 100.38	50.38
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	2137056	50.0000	51.987	80.00- 120.00	100.00
14.549	14.549 (1.048)	117	2261592			55.83- 155.83	105.83
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	4394428	50.0000	50.371	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.881	14.881 (1.072)	56	1414423			0.00- 82.34	32.19
14.881	14.881 (1.072)	41	1079114			0.00- 76.30	24.56
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	3145178	50.0000	53.778	80.00- 120.00	100.00
14.964	14.964 (0.958)	77	707221			0.00- 72.49	22.49
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	1462534	50.0000	53.189	80.00- 120.00	100.00
15.075	15.075 (0.965)	64	476594			0.00- 84.21	32.59
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	1154348	50.0000	54.703	80.00- 120.00	100.00
15.185	15.185 (0.972)	43	1536175			86.68- 186.68	133.08
15.185	15.185 (0.972)	57	938839			32.20- 132.20	81.33
101 Trichloroethene					CAS #: 79-01-6		
16.070	16.070 (1.028)	95	1421786	50.0000	53.251	80.00- 120.00	100.00
16.098	16.098 (1.030)	130	1349496			44.92- 144.92	94.92
16.070	16.070 (1.028)	97	913111			14.22- 114.22	64.22
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	1025638	50.0000	51.287	80.00- 120.00	100.00
16.568	16.568 (1.060)	62	733918			21.56- 121.56	71.56
16.568	16.568 (1.060)	41	530420			1.72- 101.72	51.72
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	918112	50.0000	52.932	80.00- 120.00	100.00
16.678	16.678 (1.067)	58	509400			5.48- 105.48	55.48
16.678	16.678 (1.067)	57	174053			0.00- 69.74	18.96
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	2330204	50.0000	53.489	80.00- 120.00	100.00
17.010	17.010 (1.088)	85	1510910			14.84- 114.84	64.84
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	1741298	50.0000	54.656	80.00- 120.00	100.00
17.784	17.784 (1.138)	77	559421			0.00- 82.13	32.13
17.784	17.784 (1.138)	39	703234			0.00- 90.39	40.39
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	1119007	50.0000	56.132	80.00- 120.00	100.00
17.978	17.978 (1.150)	43	2471601			169.12- 269.12	220.87
17.978	17.978 (1.150)	85	573438			0.58- 100.58	51.25

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	3411418	50.0000	52.572	80.00- 120.00	100.00
18.337	18.337 (1.173)	92	2125137			12.29- 112.29	62.29
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.752	18.752 (0.902)	75	1838516	50.0000	56.339	80.00- 120.00	100.00
18.780	18.780 (0.903)	77	582018			0.00- 81.66	31.66
18.752	18.752 (0.902)	39	696200			0.00- 87.87	37.87
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	1263176	50.0000	55.262	80.00- 120.00	100.00
19.111	19.111 (0.919)	99	804390			13.68- 113.68	63.68
19.111	19.111 (0.919)	83	1060442			33.95- 133.95	83.95
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	1687491	50.0000	55.208	80.00- 120.00	100.00
19.277	19.277 (0.927)	129	1182528			20.08- 120.08	70.08
19.277	19.277 (0.927)	131	1122308			16.51- 116.51	66.51
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	1610205	50.0000	54.322	80.00- 120.00	100.00
19.416	19.416 (0.934)	43	2608372			111.99- 211.99	161.99
19.416	19.416 (0.934)	100	357315			0.00- 71.95	22.19
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	2135886	50.0000	56.153	80.00- 120.00	100.00
19.803	19.803 (0.952)	127	1647526			26.41- 126.41	77.14
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.052	20.052 (0.964)	107	2041878	50.0000	55.565	80.00- 120.00	100.00
20.079	20.079 (0.965)	109	1907903			43.44- 143.44	93.44
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	2794094	50.0000	54.528	80.00- 120.00	100.00
20.853	20.853 (1.003)	114	880145			0.00- 81.50	31.50
20.853	20.853 (1.003)	77	1644261			8.85- 108.85	58.85
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	1481268	50.0000	55.882	80.00- 120.00	100.00
20.936	20.936 (1.007)	91	4576538			265.06- 365.06	308.96
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	1854655	50.0000	56.314	80.00- 120.00	100.00
21.130	21.130 (1.016)	91	3625989			147.41- 247.41	195.51
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	1714209	50.0000	56.488	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	3512526			154.91- 254.91	204.91
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	3011030	50.0000	62.773	80.00- 120.00	100.00
21.876	21.876 (1.052)	78	1464593			0.00- 98.64	48.64
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	2024973	50.0000	56.256	80.00- 120.00	100.00
22.291	22.291 (1.072)	171	1051180			1.91- 101.91	51.91
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	4717551	50.0000	59.198	80.00- 120.00	100.00
22.429	22.429 (1.078)	120	1248725			0.00- 75.99	26.47
22.429	22.429 (1.078)	51	359936			9.74- 109.74	7.63
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	2643415	50.0000	54.739	80.00- 120.00	100.00
23.010	23.010 (1.106)	85	1708300			14.62- 114.62	64.62
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	5894083	50.0000	56.121	80.00- 120.00	100.00
23.121	23.121 (1.112)	120	1314078			0.00- 72.67	22.29
23.121	23.121 (1.112)	105	217164			0.00- 53.69	3.68
145 4-Ethyltoluene					CAS #: 622-96-8		
23.287	23.287 (1.120)	105	5001374	50.0000	55.993	80.00- 120.00	100.00
23.287	23.287 (1.120)	120	1515133			0.00- 80.29	30.29
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	4146796	50.0000	56.070	80.00- 120.00	100.00
23.397	23.397 (1.125)	120	2074119			1.60- 101.60	50.02
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	4024803	50.0000	57.057	80.00- 120.00	100.00
24.033	24.033 (1.156)	120	1884630			0.00- 96.88	46.83
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	2692128	50.0000	54.311	80.00- 120.00	100.00
24.586	24.586 (1.182)	148	1724779			14.03- 114.03	64.07
24.586	24.586 (1.182)	111	1120893			0.00- 91.33	41.64
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.724	24.724 (1.189)	146	2779624	50.0000	54.460	80.00- 120.00	100.00
24.724	24.724 (1.189)	148	1761078			15.04- 115.04	63.36
24.724	24.724 (1.189)	111	1107951			0.00- 89.92	39.86

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.946	24.946 (1.199)	91	4094995	50.0000	56.740	80.00- 120.00	100.00
24.946	24.946 (1.199)	126	806210			0.00- 70.12	19.69
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	2689537	50.0000	54.767	80.00- 120.00	100.00
25.360	25.360 (1.219)	148	1714158			13.73- 113.73	63.73
25.360	25.360 (1.219)	111	1162894			0.00- 93.24	43.24
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	2573571	50.0000	54.792	80.00- 120.00	100.00
28.153	28.153 (1.354)	182	2431397			44.48- 144.48	94.48
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	1788302	50.0000	52.075	80.00- 120.00	100.00
28.319	28.319 (1.362)	223	1129433			14.10- 114.10	63.16
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	1147470	50.0000	51.006	80.00- 120.00	100.00
8.273	8.273 (0.596)	57	862339			26.21- 126.21	75.15
19 Butane					CAS #: 106-97-8		
6.808	6.808 (0.490)	58	137683	50.0000	49.449	80.00- 120.00	100.00
6.808	6.808 (0.490)	43	977603			668.04- 768.04	710.04
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.347	16.347 (1.177)	83	1650527	50.0000	51.895	80.00- 120.00	100.00
16.347	16.347 (1.177)	98	746918			0.00- 92.45	45.25
16.347	16.347 (1.177)	55	1108676			18.10- 118.10	67.17
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	3846111	50.0000	56.924	80.00- 120.00	100.00
28.678	28.678 (1.379)	127	465303			0.00- 62.43	12.10

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112106.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: dm
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-50ppbv

Calibration Date: 21-NOV-2007
Calibration Time: 17:45
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	306974	184184	429764	306974	0.00
97 1,4-Difluorobenze	1370844	822506	1919182	1370844	0.00
126 Chlorobenzene-d5	968009	580805	1355213	968009	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

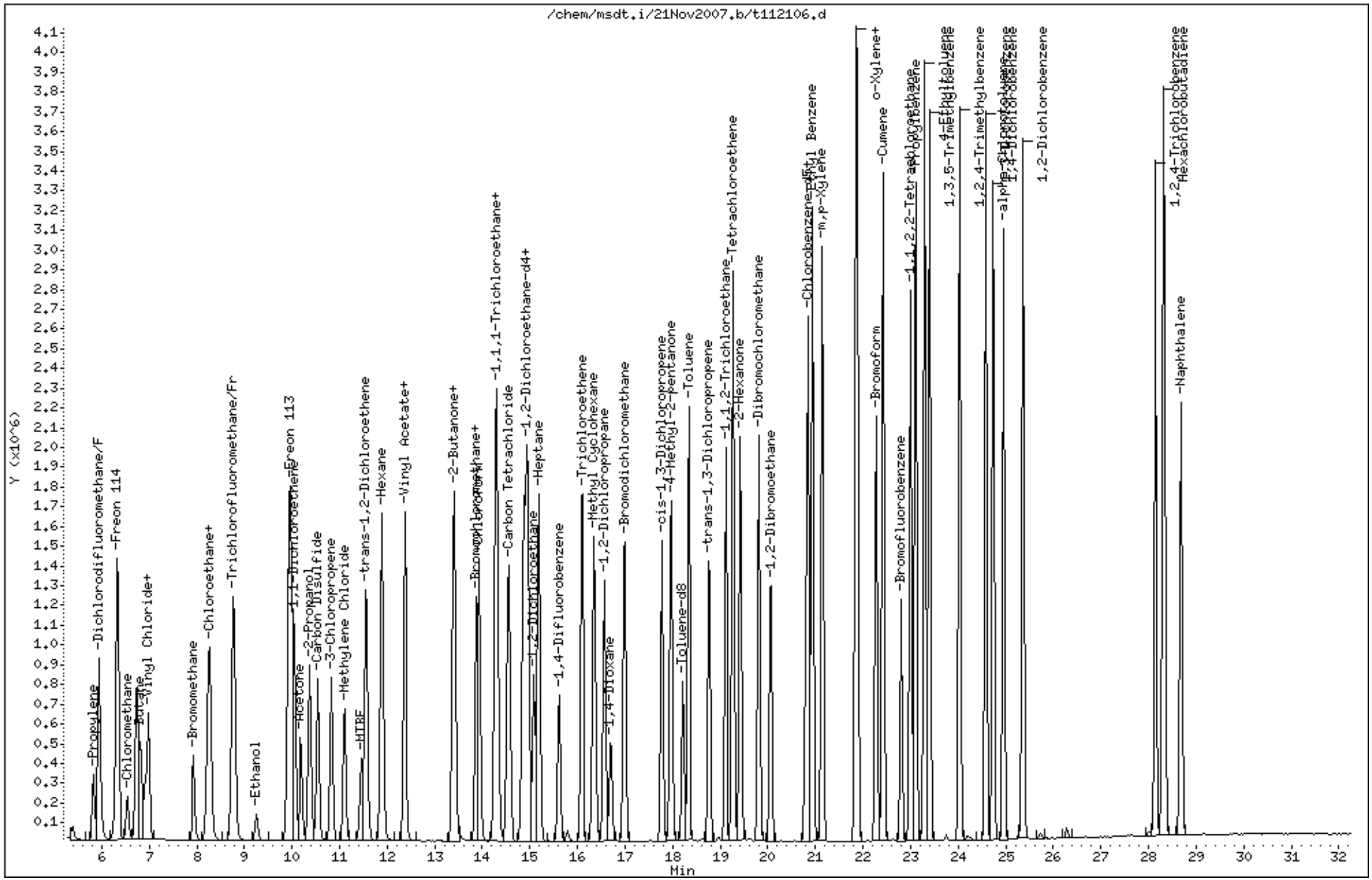
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0144

Data File: /chem/msdt.i/21Nov2007.b/t112106.d
Date : 21-NOV-2007 17:45
Client ID: Level 5
Sample Info: 50ml #1576-92

Instrument: msdt.i
Operator: dm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112107.d
Lab Smp Id: ical Client Smp ID: Level 6
Inj Date : 21-NOV-2007 18:24
Operator : dm Inst ID: msdt.i
Smp Info : 100ml #1576-92
Misc Info : 200ppbv-100ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 18:24 Cal File: t112107.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	317570	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	244573			26.38- 126.38	77.01
13.886	13.886 (1.000)	49	671350			91.95- 191.95	211.40
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1449348	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	232923			0.00- 65.95	16.07
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	1025130	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	571651			5.79- 105.79	55.76
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.076)	65	526143	25.0000	25.702	50.00- 150.00	100.00
14.936	14.936 (1.076)	67	335416			5.03- 105.03	63.75
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.199	18.199 (1.165)	98	1193506	25.0000	24.327	50.00- 150.00	100.00
18.199	18.199 (1.165)	70	130822			0.00- 61.02	10.96

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.199	18.199 (1.165)	100	832711			19.45- 119.45	69.77
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	666776	25.0000	25.893	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	844819			77.33- 177.33	126.70
22.789	22.789 (1.096)	176	640372			46.56- 146.56	96.04
11 Propylene					CAS #: 115-07-1		
5.812	5.812 (0.419)	41	758476	100.000	89.637	50.00- 150.00	100.00
5.812	5.812 (0.419)	42	529301			17.24- 117.24	69.78
5.812	5.812 (0.419)	39	611315			27.83- 127.83	80.60
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.923	5.923 (0.427)	85	4416961	100.000	94.718	50.00- 150.00	100.00
5.923	5.923 (0.427)	87	1416862			0.00- 82.07	32.08
16 Freon 114					CAS #: 76-14-2		
6.310	6.310 (0.454)	135	2854734	100.000	94.398	50.00- 150.00	100.00
6.310	6.310 (0.454)	137	913695			0.00- 81.55	32.01
18 Chloromethane					CAS #: 74-87-3		
6.531	6.531 (0.470)	50	984803	100.000	91.535	50.00- 150.00	100.00
6.531	6.531 (0.470)	52	330325			0.00- 84.03	33.54
20 Vinyl Chloride					CAS #: 75-01-4		
6.890	6.890 (0.496)	62	1467986	100.000	99.752	50.00- 150.00	100.00
6.890	6.890 (0.496)	64	480189			0.00- 93.71	32.71
22 1,3-Butadiene					CAS #: 106-99-0		
6.973	6.973 (0.502)	54	1143421	100.000	95.433	50.00- 150.00	100.00
6.973	6.973 (0.502)	39	1036260			54.52- 154.52	90.63
25 Bromomethane					CAS #: 74-83-9		
7.913	7.913 (0.570)	94	1389268	100.000	104.24	50.00- 150.00	100.00
7.913	7.913 (0.570)	96	1292025			50.48- 150.48	93.00
27 Chloroethane					CAS #: 75-00-3		
8.218	8.218 (0.592)	64	758567	100.000	105.14	50.00- 150.00	100.00
8.218	8.218 (0.592)	49	188832			0.00- 74.88	24.89
8.218	8.218 (0.592)	66	248587			0.00- 80.84	32.77
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.771	8.771 (0.632)	101	5951538	100.000	98.335	50.00- 150.00	100.00
8.771	8.771 (0.632)	103	3849306			16.26- 116.26	64.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.241	9.241 (0.665)	45	624783	100.000	90.580	50.00- 150.00	100.00
9.241	9.241 (0.665)	43	134222			0.00- 72.67	21.48
9.241	9.241 (0.665)	46	228119			0.00- 86.29	36.51
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	3762555	100.000	103.18	50.00- 150.00	100.00
9.959	9.959 (0.717)	153	2413297			15.23- 115.23	64.14
9.932	9.932 (0.715)	101	4837345			83.14- 183.14	128.57
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	2852377	100.000	103.30	50.00- 150.00	100.00
10.042	10.042 (0.723)	96	1818784			16.79- 116.79	63.76
10.042	10.042 (0.723)	98	1174129			0.00- 90.88	41.16
45 Acetone					CAS #: 67-64-1		
10.181	10.181 (0.733)	58	957492	100.000	95.038	50.00- 150.00	100.00
10.181	10.181 (0.733)	43	2912564			259.05- 359.05	304.19
46 2-Propanol					CAS #: 67-63-0		
10.374	10.374 (0.747)	45	5098065	100.000	100.68	50.00- 150.00	100.00
10.374	10.374 (0.747)	43	1087980			0.00- 73.80	21.34
10.374	10.374 (0.747)	59	221605			0.00- 54.08	4.35
47 Carbon Disulfide					CAS #: 75-15-0		
10.540	10.540 (0.759)	76	4876353	100.000	103.12	50.00- 150.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.817	10.817 (0.779)	76	1024662	100.000	104.54	50.00- 150.00	100.00
10.817	10.817 (0.779)	41	2224941			185.00- 285.00	217.14
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	1539537	100.000	92.670	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	1442251			40.01- 140.01	93.68
11.121	11.121 (0.801)	51	476901			0.00- 81.08	30.98
60 MTBE					CAS #: 1634-04-4		
11.453	11.453 (0.825)	73	2738499	100.000	105.37	50.00- 150.00	100.00
11.453	11.453 (0.825)	57	520393			0.00- 69.28	19.00
11.453	11.453 (0.825)	41	488927			0.00- 69.31	17.85
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	2393283	100.000	105.99	50.00- 150.00	100.00
11.563	11.563 (0.833)	61	3189683			83.34- 183.34	133.28
11.563	11.563 (0.833)	98	1523969			11.49- 111.49	63.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	3845245	100.000	103.82	50.00- 150.00	100.00
11.895	11.895 (0.857)	43	2175889			6.67- 106.67	56.59
11.895	11.895 (0.857)	86	694175			0.00- 66.53	18.05
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	645807	100.000	106.56	50.00- 150.00	100.00
12.365	12.365 (0.890)	43	5532270			869.92- 969.92	856.64
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	4062951	100.000	105.89	50.00- 150.00	100.00
12.393	12.393 (0.892)	65	1304759			0.00- 81.73	32.11
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.964)	72	1360599	100.000	108.89	50.00- 150.00	100.00
13.388	13.388 (0.964)	43	5288225			362.73- 462.73	388.67
13.388	13.388 (0.964)	57	395121			0.00- 79.31	29.04
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.416	13.416 (0.966)	61	2955145	100.000	107.45	50.00- 150.00	100.00
13.416	13.416 (0.966)	96	2301188			30.20- 130.20	77.87
13.416	13.416 (0.966)	98	1473937			0.03- 100.03	49.88
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (0.998)	42	2156079	100.000	104.07	50.00- 150.00	100.00
13.858	13.858 (0.998)	71	1159695			0.15- 100.15	53.79
13.858	13.858 (0.998)	72	1242013			4.67- 104.67	57.61
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.004)	83	4794939	100.000	112.08	50.00- 150.00	100.00
13.941	13.941 (1.004)	85	3116049			16.84- 116.84	64.99
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	4598237	100.000	101.49	50.00- 150.00	100.00
14.300	14.300 (1.030)	99	2961328			13.29- 113.29	64.40
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	2719449	100.000	107.01	50.00- 150.00	100.00
14.300	14.300 (1.030)	56	2646864			49.76- 149.76	97.33
14.300	14.300 (1.030)	41	1308553			3.69- 103.69	48.12
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	4371413	100.000	102.79	50.00- 150.00	100.00
14.549	14.549 (1.048)	117	4625525			54.35- 154.35	105.81
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	6492998	100.000	105.01	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	1463588			0.00- 72.49	22.54
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	8840839	100.000	97.956	50.00- 150.00	100.00
14.881	14.881 (1.072)	56	2864766			0.00- 82.34	32.40
14.881	14.881 (1.072)	41	2156711			0.00- 76.30	24.39
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	3004435	100.000	103.35	50.00- 150.00	100.00
15.075	15.075 (0.965)	64	977611			0.00- 84.21	32.54
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	2347146	100.000	105.20	50.00- 150.00	100.00
15.185	15.185 (0.972)	43	3042340			86.68- 186.68	129.62
15.185	15.185 (0.972)	57	1870799			32.20- 132.20	79.71
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	2912228	100.000	103.16	50.00- 150.00	100.00
16.098	16.098 (1.030)	130	2736246			47.47- 147.47	93.96
16.098	16.098 (1.030)	97	1856868			14.52- 114.52	63.76
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	2091646	100.000	98.928	50.00- 150.00	100.00
16.568	16.568 (1.060)	62	1493529			17.52- 117.52	71.40
16.568	16.568 (1.060)	41	1037307			0.97- 100.97	49.59
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	1831915	100.000	99.895	50.00- 150.00	100.00
16.706	16.706 (1.069)	58	1013838			6.89- 106.89	55.34
16.706	16.706 (1.069)	57	349306			0.00- 69.74	19.07
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	4775366	100.000	103.68	50.00- 150.00	100.00
17.010	17.010 (1.088)	85	3078671			14.67- 114.67	64.47
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	3508657	100.000	104.16	50.00- 150.00	100.00
17.784	17.784 (1.138)	77	1130281			0.00- 83.04	32.21
17.784	17.784 (1.138)	39	1402441			0.00- 93.89	39.97
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	2289944	100.000	108.65	50.00- 150.00	100.00
17.978	17.978 (1.150)	43	5014130			169.12- 269.12	218.96
17.978	17.978 (1.150)	85	1189987			0.58- 100.58	51.97

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	6913435	100.000	100.77	50.00- 150.00	100.00
18.337	18.337 (1.173)	92	4242576			11.10- 111.10	61.37
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	3684793	100.000	106.62	50.00- 150.00	100.00
18.780	18.780 (0.903)	77	1180933			0.00- 83.38	32.05
18.780	18.780 (0.903)	39	1372578			0.00- 92.03	37.25
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	2519624	100.000	104.09	50.00- 150.00	100.00
19.111	19.111 (0.919)	99	1590024			14.64- 114.64	63.11
19.111	19.111 (0.919)	83	2137099			37.04- 137.04	84.82
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	3355578	100.000	103.66	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	2350484			21.89- 121.89	70.05
19.277	19.277 (0.927)	131	2233846			19.59- 119.59	66.57
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	3278076	100.000	104.43	50.00- 150.00	100.00
19.416	19.416 (0.934)	43	5224831			114.75- 214.75	159.39
19.443	19.443 (0.935)	100	733216			0.00- 71.95	22.37
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	4279928	100.000	106.25	50.00- 150.00	100.00
19.803	19.803 (0.952)	127	3294908			26.41- 126.41	76.99
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	4131636	100.000	106.17	50.00- 150.00	100.00
20.079	20.079 (0.965)	109	3825999			43.48- 143.48	92.60
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	5623967	100.000	103.64	50.00- 150.00	100.00
20.853	20.853 (1.003)	114	1765473			0.00- 83.18	31.39
20.853	20.853 (1.003)	77	3293263			20.20- 120.20	58.56
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	2994164	100.000	106.66	50.00- 150.00	100.00
20.936	20.936 (1.007)	91	9346849			265.06- 365.06	312.17
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	3790763	100.000	108.69	50.00- 150.00	100.00
21.130	21.130 (1.016)	91	7391775			147.41- 247.41	194.99
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	3499245	100.000	108.88	50.00- 150.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	7176195			155.82- 255.82	205.08
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	6221561	100.000	122.48	50.00- 150.00	100.00
21.876	21.876 (1.052)	78	3011290			9.19- 109.19	48.40
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	4189777	100.000	109.91	50.00- 150.00	100.00
22.291	22.291 (1.072)	171	2174773			0.74- 100.74	51.91
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	9641309	100.000	114.24	50.00- 150.00	100.00
22.429	22.429 (1.078)	120	2525535			0.00- 75.99	26.19
22.429	22.429 (1.078)	51	731351			9.74- 109.74	7.59
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	5515221	100.000	107.84	50.00- 150.00	100.00
23.010	23.010 (1.106)	85	3558989			14.88- 114.88	64.53
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	12105925	100.000	108.84	50.00- 150.00	100.00
23.121	23.121 (1.112)	120	2699879			0.00- 72.67	22.30
23.121	23.121 (1.112)	105	432078			0.00- 53.69	3.57
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	10325354	100.000	109.16	50.00- 150.00	100.00
23.286	23.286 (1.120)	120	3117064			0.00- 80.49	30.19
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	8523839	100.000	108.83	50.00- 150.00	100.00
23.397	23.397 (1.125)	120	4170568			1.60- 101.60	48.93
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	8211375	100.000	109.92	50.00- 150.00	100.00
24.033	24.033 (1.156)	120	3840796			0.00- 96.88	46.77
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	5533285	100.000	105.41	50.00- 150.00	100.00
24.586	24.586 (1.182)	148	3515255			14.03- 114.03	63.53
24.586	24.586 (1.182)	111	2275673			0.00- 91.33	41.13
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	5699141	100.000	105.44	50.00- 150.00	100.00
24.752	24.752 (1.190)	148	3651283			15.04- 115.04	64.07
24.724	24.724 (1.189)	111	2264530			0.00- 89.92	39.73

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	8589075	100.000	112.38	50.00- 150.00	100.00
24.945	24.945 (1.199)	126	1680285			0.00- 70.12	19.56
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	5430331	100.000	104.42	50.00- 150.00	100.00
25.360	25.360 (1.219)	148	3447045			14.55- 114.55	63.48
25.360	25.360 (1.219)	111	2323140			0.00- 93.18	42.78
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	4667282	100.000	93.830	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	4411534			44.49- 144.49	94.52
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	3484780	100.000	95.823	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	2169757			14.10- 114.10	62.26
19 Butane					CAS #: 106-97-8		
6.807	6.807 (0.490)	58	265295	100.000	92.101	50.00- 150.00	100.00
6.807	6.807 (0.490)	43	1828714			668.04- 768.04	689.31
29 Isopentane					CAS #: 78-78-4		
8.245	8.245 (0.594)	43	2274736	100.000	97.741	50.00- 150.00	100.00
8.245	8.245 (0.594)	57	1768258			26.21- 126.21	77.73
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.346	16.346 (1.177)	83	3430627	100.000	104.26	50.00- 150.00	100.00
16.346	16.346 (1.177)	98	1562675			0.00- 92.45	45.55
16.346	16.346 (1.177)	55	2261362			18.10- 118.10	65.92
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	6813152	100.000	95.219	50.00- 150.00	100.00
28.678	28.678 (1.379)	127	833287			0.00- 62.43	12.23

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112107.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: dm
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-100ppbv

Calibration Date: 21-NOV-2007
Calibration Time: 17:45
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	306974	184184	429764	317570	3.45
97 1,4-Difluorobenze	1370844	822506	1919182	1449348	5.73
126 Chlorobenzene-d5	968009	580805	1355213	1025130	5.90

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	0.00

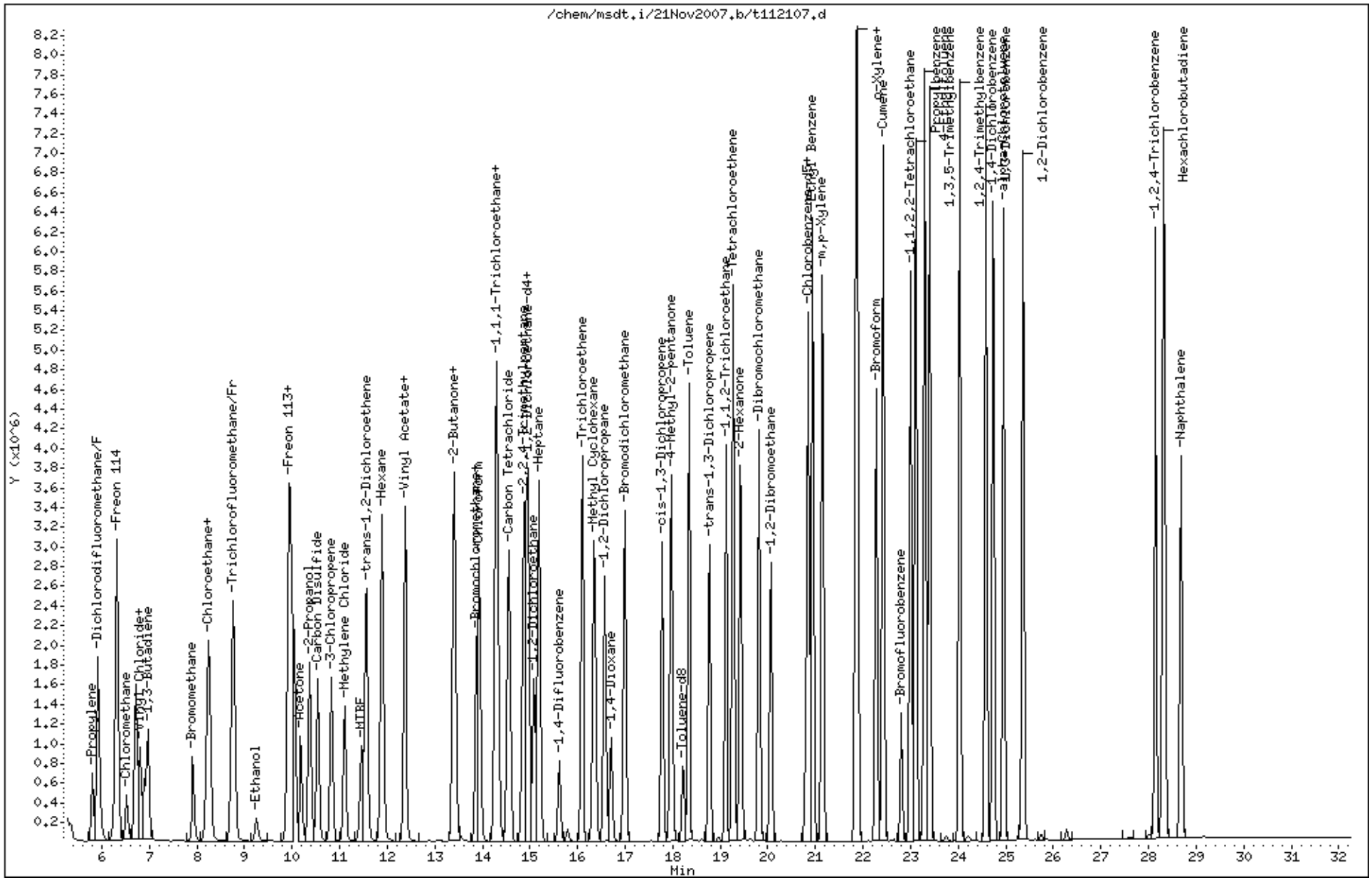
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0154

Data File: /chem/msdt.i/21Nov2007.b/t112107.d
Date : 21-NOV-2007 18:24
Client ID: Level 6
Sample Info: 100ml #1576-92

Instrument: msdt.i
Operator: dm
Column diameter: 0.53

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/26Nov2007.b/t112604.d
Lab Smp Id: ical level 7
Inj Date : 26-NOV-2007 11:39
Operator : ea Inst ID: msdt.i
Smp Info : 200ml #1487-402
Misc Info : 200ppbv -> 200ppbv
Comment :
Method : /chem/msdt.i/26Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 14:00 lover Quant Type: ISTD
Cal Date : 26-NOV-2007 11:39 Cal File: t112604.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: sp22b.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
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	278721	25.0000		50.00- 150.00	100.00
13.865	13.865 (1.000)	128	211706			26.64- 126.64	75.96
13.865	13.865 (1.000)	49	288312			73.62- 173.62	103.44
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1222361	25.0000		50.00- 150.00	100.00
15.607	15.607 (1.000)	88	195675			0.00- 65.84	16.01
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1036408	25.0000		50.00- 150.00	100.00
20.805	20.805 (1.000)	82	570145			4.93- 104.93	55.01
5 Freon 143a					CAS #: 420-46-2		
5.535	5.535 (0.399)	69	4385439	200.000	244.64	50.00- 150.00	100.00(A)
6 Freon142b					CAS #: 75-68-3		
6.436	6.436 (0.464)	65	6214860	200.000	233.30	50.00- 150.00	100.00(A)
6.436	6.436 (0.464)	45	1191575			0.00- 69.76	19.17

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
9 Freon 13					CAS #: 75-72-9		
5.394	5.394 (0.389)	69	3933175	200.000	161.80	50.00- 150.00	100.00
5.394	5.394 (0.389)	85	1284944			0.00- 82.40	32.67
5.394	5.394 (0.389)	87	415334			0.00- 60.56	10.56
13 Freon 134a					CAS #: 811-97-2		
5.704	5.704 (0.411)	83	2948377	200.000	233.71	50.00- 150.00	100.00(A)
5.704	5.704 (0.411)	69	2422081			31.14- 131.14	82.15
15 Freon 152a					CAS #: 75-37-6		
5.872	5.872 (0.424)	65	1559967	200.000	238.94	50.00- 150.00	100.00(A)
5.872	5.872 (0.424)	51	2554141			117.84- 217.84	163.73
5.872	5.872 (0.424)	47	607999			0.00- 88.39	38.98
17 Freon 22					CAS #: 75-45-6		
6.013	6.013 (0.434)	67	775372	200.000	232.64	50.00- 150.00	100.00(A)
6.013	6.013 (0.434)	51	3988336			439.12- 539.12	514.38
6.013	6.013 (0.434)	85	80595			0.00- 91.16	10.39
26 Methanol					CAS #: 67-56-1		
7.562	7.562 (0.545)	31	3878016	1200.00	1353.6	50.00- 150.00	100.00(A)
7.562	7.562 (0.545)	32	2827690			73.38- 173.38	72.92
34 Dichlorofluoromethane/Fr21					CAS #: 75-43-4		
8.745	8.745 (0.631)	67	5226273	200.000	234.13	50.00- 150.00	100.00(A)
8.745	8.745 (0.631)	69	1694566			0.00- 82.06	32.42
8.745	8.745 (0.631)	35	259938			0.00- 54.92	4.97
40 Freon123a					CAS #: 354-23-4		
9.580	9.580 (0.691)	67	4485934	200.000	205.22	50.00- 150.00	100.00(A)
9.580	9.580 (0.691)	117	3618530			30.97- 130.97	80.66
41 Freon123					CAS #: 306-83-2		
9.718	9.718 (0.701)	83	6150000	200.000	203.20	50.00- 150.00	100.00
9.718	9.718 (0.701)	133	1253319			0.00- 70.26	20.38
9.718	9.718 (0.701)	85	4155434			17.95- 117.95	67.57
57 tert-Butyl-Alcohol					CAS #: 75-65-0		
11.156	11.156 (0.805)	59	2336495	200.000	158.26	50.00- 150.00	100.00
11.156	11.156 (0.805)	41	480203			0.00- 78.87	20.55
11.156	11.156 (0.805)	57	237173			0.00- 61.35	10.15
68 Isopropyl ether					CAS #: 108-20-3		
12.289	12.289 (0.886)	45	10313074	200.000	225.32	50.00- 150.00	100.00(A)
12.289	12.289 (0.886)	87	3472544			0.00- 84.51	33.67
12.289	12.289 (0.886)	59	1244633			0.00- 62.64	12.07

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
71 1-Propanol					CAS #: 71-23-8		
12.400	12.400 (0.894)	42	523507	200.000	217.36	50.00- 150.00	100.00(AH)
12.400	12.400 (0.894)	59	761145			75.45- 175.45	145.39
12.400	12.400 (0.894)	41	367154			158.05- 258.05	70.13
73 t-Butylethyl Ether					CAS #: 637-92-3		
12.925	12.925 (0.932)	59	4697576	200.000	211.18	50.00- 150.00	100.00(A)
12.925	12.925 (0.932)	87	2129092			0.00- 95.70	45.32
12.925	12.925 (0.932)	41	756608			0.00- 69.82	16.11
77 Ethyl Acetate					CAS #: 141-78-6		
13.395	13.395 (0.966)	45	1055266	200.000	218.76	50.00- 150.00	100.00(A)
13.395	13.395 (0.966)	61	1215125			63.70- 163.70	115.15
13.395	13.395 (0.966)	43	7334786			641.02- 741.02	695.07
99 Isobutanol					CAS #: 78-83-1		
14.612	14.612 (0.936)	59	86876	200.000	286.79	50.00- 150.00	100.00(A)
14.612	14.612 (0.936)	41	1712195			2254.31-2354.31	1970.85
14.612	14.612 (0.936)	43	2262965			2684.91-2784.91	2604.82
92 tert-amyl-Methyl Ether					CAS #: 994-05-8		
14.999	14.999 (1.082)	73	4704738	200.000	178.76	50.00- 150.00	100.00
14.999	14.999 (1.082)	87	1168644			0.00- 75.09	24.84
14.999	14.999 (1.082)	55	1058139			0.00- 74.77	22.49
96 2-Heptanone					CAS #: 110-43-0		
21.966	21.966 (1.584)	58	5483071	200.000	296.14	50.00- 150.00	100.00(A)
21.966	21.966 (1.584)	43	7373377			85.60- 185.60	134.48
98 1-Butanol					CAS #: 71-36-3		
15.773	15.773 (1.011)	56	2236493	200.000	359.04	50.00- 150.00	100.00(A)
15.773	15.773 (1.011)	41	1406755			17.89- 117.89	62.90
15.773	15.773 (1.011)	43	1077912			0.00- 99.85	48.20
119 Butyl Acetate					CAS #: 123-86-4		
19.533	19.533 (1.252)	56	3577651	200.000	282.87	50.00- 150.00	100.00(A)
19.533	19.533 (1.252)	73	1526966			0.00- 94.51	42.68
19.533	19.533 (1.252)	43	7725128			163.30- 263.30	215.93
135 Cyclohexanone					CAS #: 108-94-1		
22.741	22.741 (1.093)	55	3650405	200.000	264.06	50.00- 150.00	100.00(A)
22.741	22.741 (1.093)	98	2097956			6.71- 106.71	57.47
22.741	22.741 (1.093)	42	2286673			11.68- 111.68	62.64
146 Diisobutyl Ketone					CAS #: 108-83-8		
23.570	23.570 (1.133)	57	9234437	200.000	270.75	50.00- 150.00	100.00(A)

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
146 Diisobutyl Ketone (continued)							
23.570	23.570 (1.133)	85	9407882			53.67- 153.67	101.88
0.000	1.000 (0.000)	0	0			0.00- 50.00	0.00

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Report Date: 27-Nov-2007 14:00

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112604.d
Lab Smp Id: ical level 7
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msdt.i/26Nov2007.b/t14q1121b.m
Misc Info: 200ppbv -> 200ppbv

Calibration Date: 26-NOV-2007
Calibration Time: 10:49
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	301939	181163	422715	278721	-7.69
97 1,4-Difluorobenze	1427711	856627	1998795	1222361	-14.38
126 Chlorobenzene-d5	1047767	628660	1466874	1036408	-1.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.80	20.48	21.13	20.81	0.00

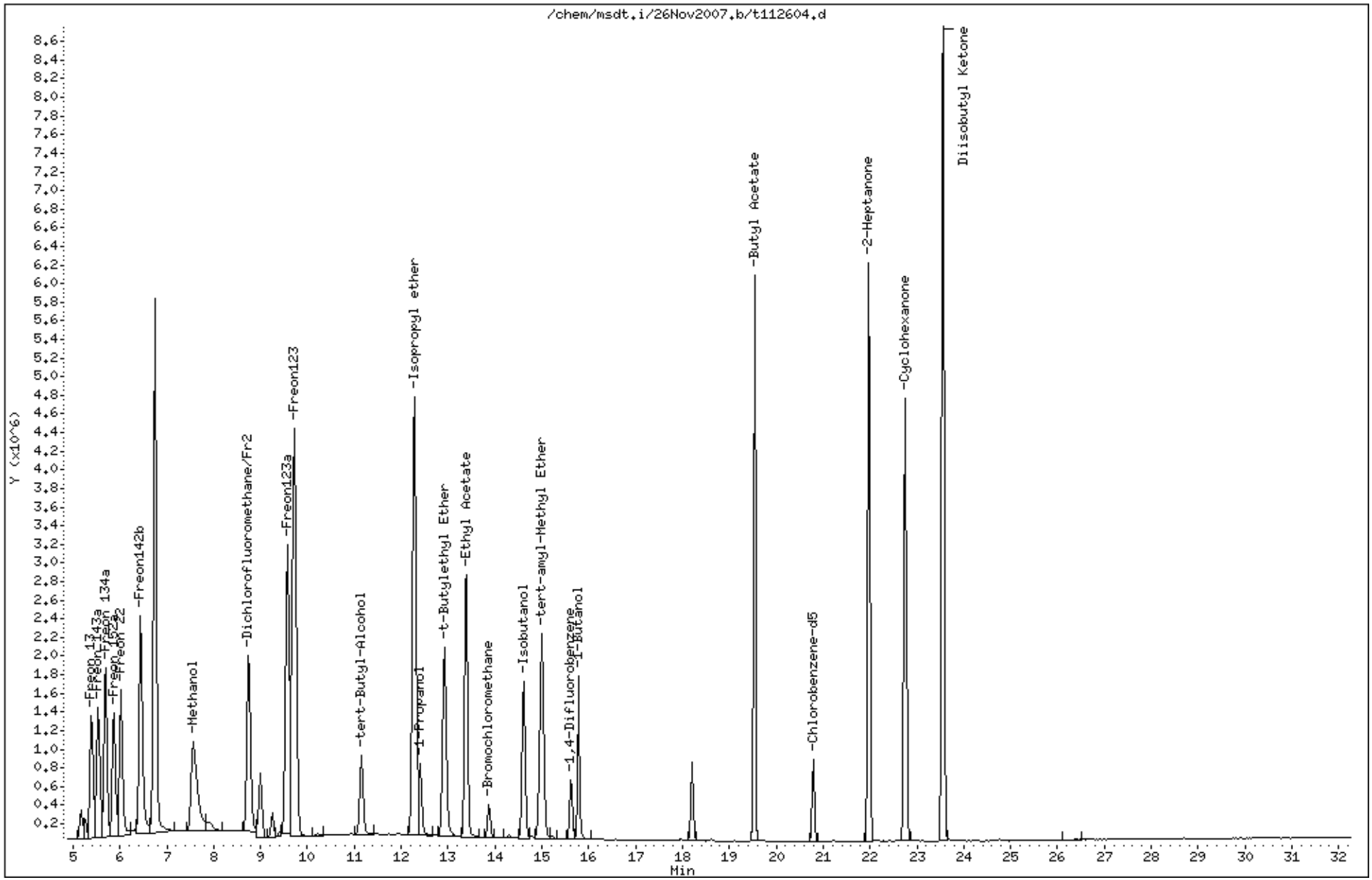
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

0160

Data File: /chem/msdt.i/26Nov2007.b/t112604.d
Date : 26-NOV-2007 11:39
Client ID:
Sample Info: 200ml #1487-402

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

Column phase: RTx-624



Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/21Nov2007.b/t112108.d
Lab Smp Id: ical Client Smp ID: Level 7
Inj Date : 21-NOV-2007 19:02
Operator : dm Inst ID: msdt.i
Smp Info : 200ml #1576-92
Misc Info : 200ppbv-200ppbv
Comment :
Method : /chem/msdt.i/23Nov2007.b/t14q1121a.m
Meth Date : 26-Nov-2007 15:03 cleonard Quant Type: ISTD
Cal Date : 21-NOV-2007 19:02 Cal File: t112108.d
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04mdl+ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.886	13.886 (1.000)	130	261482	25.0000		50.00- 150.00	100.00
13.886	13.886 (1.000)	128	204602			26.38- 126.38	78.25
13.941	13.941 (1.000)	49	823542			91.95- 191.95	314.95
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.628	15.628 (1.000)	114	1257992	25.0000		50.00- 150.00	100.00
15.628	15.628 (1.000)	88	200990			0.00- 65.95	15.98
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.798	20.798 (1.000)	117	1020523	25.0000		50.00- 150.00	100.00
20.798	20.798 (1.000)	82	570123			5.79- 105.79	55.87
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.936	14.936 (1.076)	65	454510	25.0000	26.965	50.00- 150.00	100.00
14.936	14.936 (1.076)	67	348906			5.03- 105.03	76.77
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.227	18.227 (1.166)	98	1170796	25.0000	27.494	50.00- 150.00	100.00
18.199	18.199 (1.165)	70	124984			0.00- 61.02	10.68

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.227	18.227 (1.166)	100	811182			19.45- 119.45	69.28
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.789	22.789 (1.096)	174	661131	25.0000	25.790	50.00- 150.00	100.00
22.789	22.789 (1.096)	95	822026			77.33- 177.33	124.34
22.789	22.789 (1.096)	176	638532			46.56- 146.56	96.58
11 Propylene					CAS #: 115-07-1		
5.840	5.840 (0.421)	41	1505176	200.000	216.04	50.00- 150.00	100.00(A)
5.840	5.840 (0.421)	42	1050035			17.24- 117.24	69.76
5.840	5.840 (0.421)	39	1178284			27.83- 127.83	78.28
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.950	5.950 (0.428)	85	8568330	200.000	223.15	50.00- 150.00	100.00(A)
5.950	5.950 (0.428)	87	2729690			0.00- 82.07	31.86
16 Freon 114					CAS #: 76-14-2		
6.337	6.337 (0.456)	135	5764093	200.000	231.48	50.00- 150.00	100.00(A)
6.337	6.337 (0.456)	137	1831723			0.00- 81.55	31.78
18 Chloromethane					CAS #: 74-87-3		
6.559	6.559 (0.472)	50	1930247	200.000	217.90	50.00- 150.00	100.00(A)
6.559	6.559 (0.472)	52	654586			0.00- 84.03	33.91
20 Vinyl Chloride					CAS #: 75-01-4		
6.918	6.918 (0.498)	62	2845566	200.000	234.84	50.00- 150.00	100.00(A)
6.918	6.918 (0.498)	64	920131			0.00- 93.71	32.34
22 1,3-Butadiene					CAS #: 106-99-0		
7.001	7.001 (0.504)	54	1997802	200.000	202.51	50.00- 150.00	100.00(A)
7.001	7.001 (0.504)	39	1789672			54.52- 154.52	89.58
25 Bromomethane					CAS #: 74-83-9		
7.941	7.941 (0.572)	94	2802560	200.000	255.40	50.00- 150.00	100.00(A)
7.941	7.941 (0.572)	96	2591932			50.48- 150.48	92.48
27 Chloroethane					CAS #: 75-00-3		
8.217	8.217 (0.592)	64	1522039	200.000	256.22	50.00- 150.00	100.00(A)
8.217	8.217 (0.592)	49	368452			0.00- 74.88	24.21
8.217	8.217 (0.592)	66	502675			0.00- 80.84	33.03
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.798	8.798 (0.634)	101	9938104	200.000	199.42	50.00- 150.00	100.00
8.798	8.798 (0.634)	103	6449487			16.26- 116.26	64.90

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.268	9.268 (0.667)	45	1039555	200.000	183.04	50.00- 150.00	100.00
9.268	9.268 (0.667)	43	224837			0.00- 72.67	21.63
9.268	9.268 (0.667)	46	379839			0.00- 86.29	36.54
42 Freon 113					CAS #: 76-13-1		
9.959	9.959 (0.717)	151	6037693	200.000	201.08	50.00- 150.00	100.00(A)
9.959	9.959 (0.717)	153	3834789			15.23- 115.23	63.51
9.959	9.959 (0.717)	101	7707198			83.14- 183.14	127.65
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.042	10.042 (0.723)	61	4630214	200.000	203.65	50.00- 150.00	100.00(A)
10.042	10.042 (0.723)	96	3052165			16.79- 116.79	65.92
10.070	10.070 (0.725)	98	1959657			0.00- 90.88	42.32
45 Acetone					CAS #: 67-64-1		
10.208	10.208 (0.735)	58	1556845	200.000	187.67	50.00- 150.00	100.00
10.208	10.208 (0.735)	43	4523890			259.05- 359.05	290.58
46 2-Propanol					CAS #: 67-63-0		
10.402	10.402 (0.749)	45	7953631	200.000	190.77	50.00- 150.00	100.00
10.402	10.402 (0.749)	43	1650886			0.00- 73.80	20.76
10.402	10.402 (0.749)	59	356067			0.00- 54.08	4.48
47 Carbon Disulfide					CAS #: 75-15-0		
10.568	10.568 (0.761)	76	9070071	200.000	232.96	50.00- 150.00	100.00(A)
51 3-Chloropropene					CAS #: 107-05-1		
10.844	10.844 (0.781)	76	1651016	200.000	204.57	50.00- 150.00	100.00(A)
10.817	10.817 (0.779)	41	3452254			185.00- 285.00	209.10
54 Methylene Chloride					CAS #: 75-09-2		
11.121	11.121 (0.801)	49	2734562	200.000	199.91	50.00- 150.00	100.00
11.121	11.121 (0.801)	84	2614097			40.01- 140.01	95.59
11.121	11.121 (0.801)	51	845716			0.00- 81.08	30.93
60 MTBE					CAS #: 1634-04-4		
11.480	11.480 (0.827)	73	5283151	200.000	246.89	50.00- 150.00	100.00(A)
11.480	11.480 (0.827)	57	991360			0.00- 69.28	18.76
11.452	11.452 (0.825)	41	891223			0.00- 69.31	16.87
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.563	11.563 (0.833)	96	3884077	200.000	208.91	50.00- 150.00	100.00(A)
11.563	11.563 (0.833)	61	5043253			83.34- 183.34	129.84
11.563	11.563 (0.833)	98	2478084			11.49- 111.49	63.80

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.895	11.895 (0.857)	57	6786841	200.000	222.56	50.00- 150.00	100.00(A)
11.895	11.895 (0.857)	43	3721720			6.67- 106.67	54.84
11.895	11.895 (0.857)	86	1256145			0.00- 66.53	18.51
69 Vinyl Acetate					CAS #: 108-05-4		
12.365	12.365 (0.890)	86	1106568	200.000	221.75	50.00- 150.00	100.00(A)
12.365	12.365 (0.890)	43	9140470			869.92- 969.92	826.02
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.393	12.393 (0.892)	63	6699585	200.000	212.05	50.00- 150.00	100.00(A)
12.393	12.393 (0.892)	65	2158962			0.00- 81.73	32.23
75 2-Butanone					CAS #: 78-93-3		
13.388	13.388 (0.964)	72	2332276	200.000	226.69	50.00- 150.00	100.00(A)
13.388	13.388 (0.964)	43	8834186			362.73- 462.73	378.78
13.388	13.388 (0.964)	57	656312			0.00- 79.31	28.14
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.443	13.443 (0.968)	61	4825465	200.000	213.09	50.00- 150.00	100.00(A)
13.443	13.443 (0.968)	96	3846208			30.20- 130.20	79.71
13.443	13.443 (0.968)	98	2462257			0.03- 100.03	51.03
80 Tetrahydrofuran					CAS #: 109-99-9		
13.858	13.858 (0.998)	42	3572517	200.000	209.43	50.00- 150.00	100.00(A)
13.858	13.858 (0.998)	71	1978703			0.15- 100.15	55.39
13.858	13.858 (0.998)	72	2115505			4.67- 104.67	59.22
82 Chloroform					CAS #: 67-66-3		
13.941	13.941 (1.004)	83	7953400	200.000	225.78	50.00- 150.00	100.00(A)
13.941	13.941 (1.004)	85	5185796			16.84- 116.84	65.20
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.300	14.300 (1.030)	97	8227969	200.000	220.55	50.00- 150.00	100.00(A)
14.300	14.300 (1.030)	99	5295209			13.29- 113.29	64.36
85 Cyclohexane					CAS #: 110-82-7		
14.300	14.300 (1.030)	84	5011386	200.000	239.50	50.00- 150.00	100.00(A)
14.300	14.300 (1.030)	56	4791832			49.76- 149.76	95.62
14.300	14.300 (1.030)	41	2331711			3.69- 103.69	46.53
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.549	14.549 (1.048)	119	7747860	200.000	221.27	50.00- 150.00	100.00(A)
14.549	14.549 (1.048)	117	8245309			54.35- 154.35	106.42
91 Benzene					CAS #: 71-43-2		
14.964	14.964 (0.958)	78	11488082	200.000	214.05	50.00- 150.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
91 Benzene (continued)							
14.964	14.964 (0.958)	77	2570571			0.00- 72.49	22.38
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.881	14.881 (1.072)	57	15482276	200.000	208.34	50.00- 150.00	100.00(A)
14.881	14.881 (1.072)	56	4983916			0.00- 82.34	32.19
14.881	14.881 (1.072)	41	3669177			0.00- 76.30	23.70
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.075	15.075 (0.965)	62	4990424	200.000	197.77	50.00- 150.00	100.00
15.075	15.075 (0.965)	64	1615439			0.00- 84.21	32.37
94 Heptane					CAS #: 142-82-5		
15.185	15.185 (0.972)	71	4415071	200.000	227.99	50.00- 150.00	100.00(A)
15.185	15.185 (0.972)	43	5659807			86.68- 186.68	128.19
15.185	15.185 (0.972)	57	3536428			32.20- 132.20	80.10
101 Trichloroethene					CAS #: 79-01-6		
16.098	16.098 (1.030)	95	5125142	200.000	209.18	50.00- 150.00	100.00(A)
16.098	16.098 (1.030)	130	4763395			47.47- 147.47	92.94
16.098	16.098 (1.030)	97	3248658			14.52- 114.52	63.39
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.568	16.568 (1.060)	63	3841268	200.000	209.32	50.00- 150.00	100.00(A)
16.568	16.568 (1.060)	62	2719674			17.52- 117.52	70.80
16.568	16.568 (1.060)	41	1836122			0.97- 100.97	47.80
106 1,4-Dioxane					CAS #: 123-91-1		
16.706	16.706 (1.069)	88	3491098	200.000	219.33	50.00- 150.00	100.00(A)
16.706	16.706 (1.069)	58	1909329			6.89- 106.89	54.69
16.706	16.706 (1.069)	57	651640			0.00- 69.74	18.67
107 Bromodichloromethane					CAS #: 75-27-4		
17.010	17.010 (1.088)	83	8528290	200.000	213.32	50.00- 150.00	100.00(A)
17.010	17.010 (1.088)	85	5476808			14.67- 114.67	64.22
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.784	17.784 (1.138)	75	6695398	200.000	229.01	50.00- 150.00	100.00(A)
17.784	17.784 (1.138)	77	2140873			0.00- 83.04	31.98
17.784	17.784 (1.138)	39	2601443			0.00- 93.89	38.85
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.978	17.978 (1.150)	58	4500034	200.000	245.98	50.00- 150.00	100.00(A)
17.978	17.978 (1.150)	43	9772760			169.12- 269.12	217.17
17.978	17.978 (1.150)	85	2341011			0.58- 100.58	52.02

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.337	18.337 (1.173)	91	13683042	200.000	229.78	50.00- 150.00	100.00(A)
18.337	18.337 (1.173)	92	8331741			11.10- 111.10	60.89
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.780	18.780 (0.903)	75	7227455	200.000	210.08	50.00- 150.00	100.00(A)
18.780	18.780 (0.903)	77	2296509			0.00- 83.38	31.77
18.780	18.780 (0.903)	39	2626173			0.00- 92.03	36.34
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.111	19.111 (0.919)	97	4923054	200.000	204.29	50.00- 150.00	100.00(A)
19.111	19.111 (0.919)	99	3110953			14.64- 114.64	63.19
19.111	19.111 (0.919)	83	4175230			37.04- 137.04	84.81
120 Tetrachloroethene					CAS #: 127-18-4		
19.277	19.277 (0.927)	166	6417881	200.000	199.16	50.00- 150.00	100.00
19.277	19.277 (0.927)	129	4459146			21.89- 121.89	69.48
19.277	19.277 (0.927)	131	4249913			19.59- 119.59	66.22
121 2-Hexanone					CAS #: 591-78-6		
19.416	19.416 (0.934)	58	6683784	200.000	213.88	50.00- 150.00	100.00(A)
19.416	19.416 (0.934)	43	10560772			114.75- 214.75	158.01
19.443	19.443 (0.935)	100	1503065			0.00- 71.95	22.49
122 Dibromochloromethane					CAS #: 124-48-1		
19.803	19.803 (0.952)	129	8118801	200.000	202.46	50.00- 150.00	100.00(A)
19.803	19.803 (0.952)	127	6252380			26.41- 126.41	77.01
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.079	20.079 (0.965)	107	8079575	200.000	208.55	50.00- 150.00	100.00(A)
20.079	20.079 (0.965)	109	7475928			43.48- 143.48	92.53
127 Chlorobenzene					CAS #: 108-90-7		
20.853	20.853 (1.003)	112	11109579	200.000	205.65	50.00- 150.00	100.00(A)
20.853	20.853 (1.003)	114	3440140			0.00- 83.18	30.97
20.853	20.853 (1.003)	77	6541974			20.20- 120.20	58.89
128 Ethyl Benzene					CAS #: 100-41-4		
20.936	20.936 (1.007)	106	5981781	200.000	214.05	50.00- 150.00	100.00(A)
20.936	20.936 (1.007)	91	18860474			265.06- 365.06	315.30
129 m,p-Xylene					CAS #: 108-38-3		
21.130	21.130 (1.016)	106	7521514	200.000	216.63	50.00- 150.00	100.00(A)
21.130	21.130 (1.016)	91	14922197			147.41- 247.41	198.39
130 o-Xylene					CAS #: 95-47-6		
21.849	21.849 (1.051)	106	6890459	200.000	215.37	50.00- 150.00	100.00(A)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.849	21.849 (1.051)	91	14428568			155.82- 255.82	209.40
131 Styrene					CAS #: 100-42-5		
21.876	21.876 (1.052)	104	12448952	200.000	246.18	50.00- 150.00	100.00(A)
21.876	21.876 (1.052)	78	5925128			9.19- 109.19	47.60
133 Bromoform					CAS #: 75-25-2		
22.291	22.291 (1.072)	173	8168757	200.000	215.26	50.00- 150.00	100.00(A)
22.291	22.291 (1.072)	171	4179261			0.74- 100.74	51.16
134 Cumene					CAS #: 98-82-8		
22.429	22.429 (1.078)	105	19372181	200.000	230.58	50.00- 150.00	100.00(A)
22.429	22.429 (1.078)	120	5021121			0.00- 75.99	25.92
22.429	22.429 (1.078)	51	1444162			9.74- 109.74	7.45
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.010	23.010 (1.106)	83	10903987	200.000	214.18	50.00- 150.00	100.00(A)
23.010	23.010 (1.106)	85	7005100			14.88- 114.88	64.24
142 Propylbenzene					CAS #: 103-65-1		
23.121	23.121 (1.112)	91	24082267	200.000	217.50	50.00- 150.00	100.00(A)
23.121	23.121 (1.112)	120	5272139			0.00- 72.67	21.89
23.121	23.121 (1.112)	105	855002			0.00- 53.69	3.55
145 4-Ethyltoluene					CAS #: 622-96-8		
23.286	23.286 (1.120)	105	20504810	200.000	217.75	50.00- 150.00	100.00(A)
23.286	23.286 (1.120)	120	6095494			0.00- 80.49	29.73
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.397	23.397 (1.125)	105	16992345	200.000	217.94	50.00- 150.00	100.00(A)
23.397	23.397 (1.125)	120	8301290			1.60- 101.60	48.85
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.033	24.033 (1.156)	105	16287302	200.000	219.01	50.00- 150.00	100.00(A)
24.033	24.033 (1.156)	120	7556559			0.00- 96.88	46.40
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.586	24.586 (1.182)	146	10827568	200.000	207.20	50.00- 150.00	100.00(A)
24.586	24.586 (1.182)	148	6861597			14.03- 114.03	63.37
24.586	24.586 (1.182)	111	4451405			0.00- 91.33	41.11
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.752	24.752 (1.190)	146	11291436	200.000	209.84	50.00- 150.00	100.00(A)
24.752	24.752 (1.190)	148	7145811			15.04- 115.04	63.29
24.724	24.724 (1.189)	111	4417182			0.00- 89.92	39.12

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.945	24.945 (1.199)	91	17402662	200.000	228.72	50.00- 150.00	100.00(A)
24.945	24.945 (1.199)	126	3358930			0.00- 70.12	19.30
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.360	25.360 (1.219)	146	10787952	200.000	208.37	50.00- 150.00	100.00(A)
25.360	25.360 (1.219)	148	6854943			14.55- 114.55	63.54
25.360	25.360 (1.219)	111	4594691			0.00- 93.18	42.59
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.153	28.153 (1.354)	180	9872838	200.000	199.38	50.00- 150.00	100.00
28.153	28.153 (1.354)	182	9371797			44.49- 144.49	94.93
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.319	28.319 (1.362)	225	7064577	200.000	195.14	50.00- 150.00	100.00
28.319	28.319 (1.362)	223	4454710			14.10- 114.10	63.06
19 Butane					CAS #: 106-97-8		
6.835	6.835 (0.492)	58	481552	200.000	203.04	50.00- 150.00	100.00(A)
6.835	6.835 (0.492)	43	3273555			668.04- 768.04	679.79
29 Isopentane					CAS #: 78-78-4		
8.273	8.273 (0.596)	43	3598505	200.000	187.79	50.00- 150.00	100.00
8.273	8.273 (0.596)	57	2837925			26.21- 126.21	78.86
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.374	16.374 (1.179)	83	6405056	200.000	236.42	50.00- 150.00	100.00(A)
16.374	16.374 (1.179)	98	2886481			0.00- 92.45	45.07
16.346	16.346 (1.177)	55	4201357			18.10- 118.10	65.59
167 Naphthalene					CAS #: 91-20-3		
28.678	28.678 (1.379)	128	14683545	200.000	206.14	50.00- 150.00	100.00(A)
28.678	28.678 (1.379)	127	1764730			0.00- 62.43	12.02

QC Flag Legend

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

Report Date: 26-Nov-2007 15:03

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112108.d
Lab Smp Id: ical
Analysis Type: VOA
Quant Type: ISTD
Operator: dm
Method File: /chem/msdt.i/23Nov2007.b/t14q1121a.m
Misc Info: 200ppbv-200ppbv

Calibration Date: 21-NOV-2007
Calibration Time: 17:45
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	306974	184184	429764	261482	-14.82
97 1,4-Difluorobenze	1370844	822506	1919182	1257992	-8.23
126 Chlorobenzene-d5	968009	580805	1355213	1020523	5.42

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.89	13.56	14.22	13.89	0.00
97 1,4-Difluorobenze	15.63	15.30	15.96	15.63	0.00
126 Chlorobenzene-d5	20.80	20.47	21.13	20.80	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/msdt.i/21Nov2007.b/t112108.d

Date : 21-NOV-2007 19:02

Client ID: Level 7

Sample Info: 200ml #1576-92

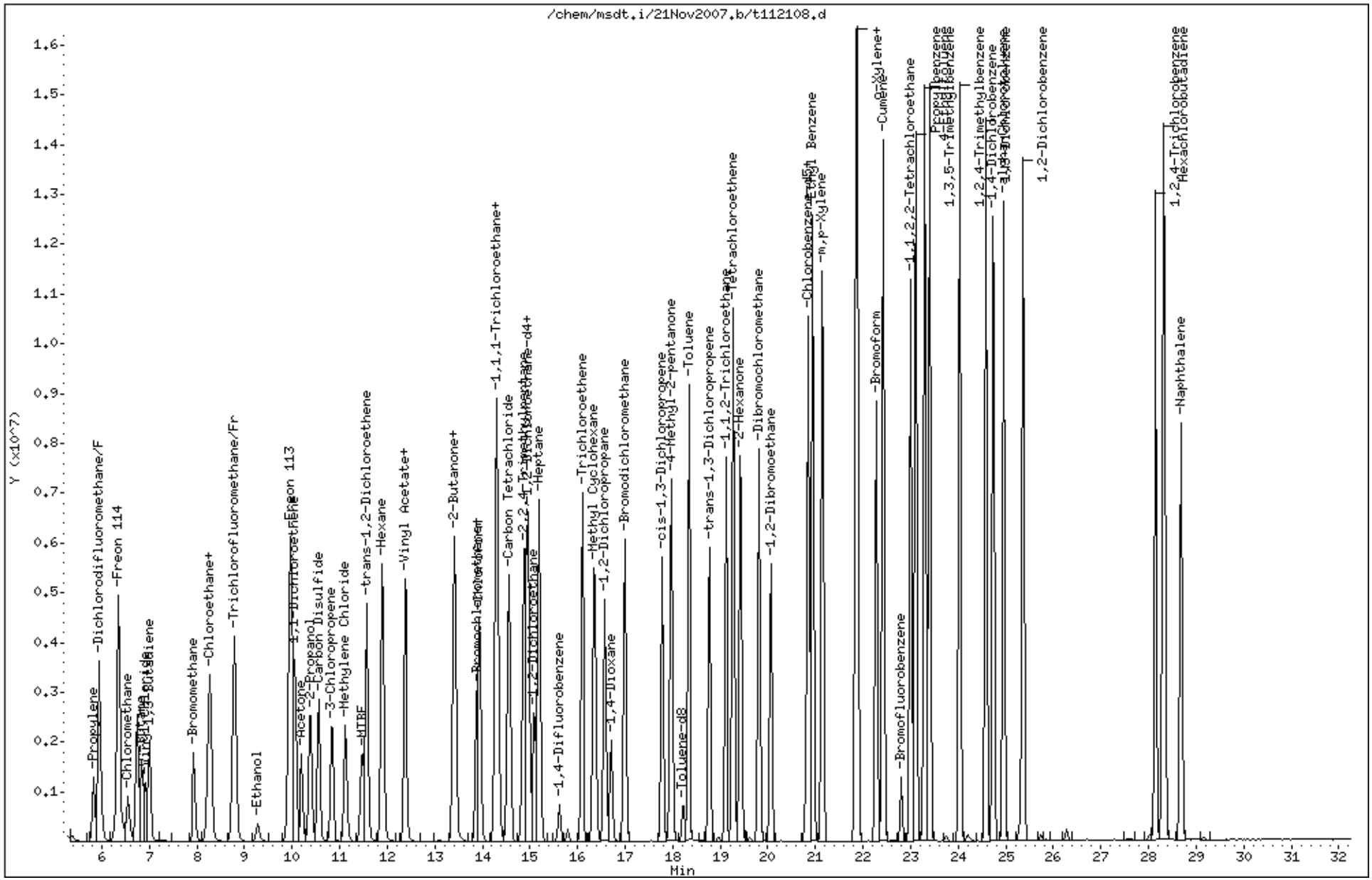
Column phase: RTx-624

Instrument: msdt.i

Operator: dm

Column diameter: 0.53

0170



AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0711309-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 09:05 AM**	

Compound	%Recovery
Freon 12	99
Freon 114	101
Vinyl Chloride	102
Bromomethane	115
Chloroethane	108
Freon 11	104
1,1-Dichloroethene	103
Freon 113	113
Methylene Chloride	90
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	105
Chloroform	114
1,1,1-Trichloroethane	102
Carbon Tetrachloride	98
Benzene	107
1,2-Dichloroethane	99
Trichloroethene	107
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	106
Toluene	107
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	108
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	107
Chlorobenzene	103
Ethyl Benzene	106
m,p-Xylene	107
o-Xylene	107
Styrene	120
1,1,2,2-Tetrachloroethane	105
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	102
1,3-Butadiene	103
Hexane	104
Cyclohexane	111

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0711309-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 09:05 AM**	

Compound	%Recovery
Heptane	106
Bromodichloromethane	104
Dibromochloromethane	102
Cumene	114
Propylbenzene	108
Chloromethane	88
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	94
Acetone	97
Carbon Disulfide	110
2-Propanol	94
trans-1,2-Dichloroethene	113
2-Butanone (Methyl Ethyl Ketone)	114
Tetrahydrofuran	91
1,4-Dioxane	108
4-Methyl-2-pentanone	106
2-Hexanone	101
Bromoform	106
4-Ethyltoluene	110
Ethanol	92
Methyl tert-butyl ether	115
3-Chloropropene	109
2,2,4-Trimethylpentane	98
Naphthalene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 27-NOV-2007 09:05
Lab File ID: t112702.d Init. Cal. Date(s): 21-NOV-2007 26-NOV-2007
Analysis Type: AIR Init. Cal. Times: 14:44 15:28
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdt.i/27Nov2007.b/t14q1121b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
$ 90 1,2-Dichloroethane-d4	1.61155	1.62169	0.010	-0.62916	30.00000	Averaged
$ 113 Toluene-d8	0.84627	0.85392	0.010	-0.90394	30.00000	Averaged
$ 137 Bromofluorobenzene	0.62800	0.61986	0.010	1.29591	30.00000	Averaged
11 Propylene	0.66613	0.55896	0.010	16.08780	30.00000	Averaged
12 Dichlorodifluoromethane/Fr1	3.67107	3.62763	0.010	1.18328	30.00000	Averaged
16 Freon 114	2.38070	2.41010	0.010	-1.23462	30.00000	Averaged
18 Chloromethane	0.84696	0.74274	0.010	12.30530	30.00000	Averaged
20 Vinyl Chloride	1.15851	1.18323	0.010	-2.13441	30.00000	Averaged
22 1,3-Butadiene	0.94320	0.97159	0.010	-3.00945	30.00000	Averaged
25 Bromomethane	1.04913	1.20744	0.010	-15.09036	30.00000	Averaged
27 Chloroethane	0.56795	0.61223	0.010	-7.79553	30.00000	Averaged
31 Trichlorofluoromethane/Fr11	4.76457	4.94186	0.010	-3.72120	30.00000	Averaged
38 Ethanol	0.54299	0.49843	0.010	8.20760	30.00000	Averaged
42 Freon 113	2.87076	3.23400	0.010	-12.65318	30.00000	Averaged
43 1,1-Dichloroethene	2.17378	2.24850	0.010	-3.43767	30.00000	Averaged
45 Acetone	0.79312	0.76636	0.010	3.37454	30.00000	Averaged
46 2-Propanol	3.98617	3.72735	0.010	6.49310	30.00000	Averaged
47 Carbon Disulfide	3.72248	4.09664	0.010	-10.05127	30.00000	Averaged
51 3-Chloropropene	0.77162	0.84479	0.010	-9.48225	30.00000	Averaged
54 Methylene Chloride	1.30783	1.17289	0.010	10.31786	30.00000	Averaged
60 MTBE	2.04594	2.35684	0.010	-15.19599	30.00000	Averaged
61 trans-1,2-Dichloroethene	1.77756	2.00813	0.010	-12.97132	30.00000	Averaged
65 Hexane	2.91560	3.01783	0.010	-3.50645	30.00000	Averaged
69 Vinyl Acetate	0.47711	0.54666	0.010	-14.57798	30.00000	Averaged
70 1,1-Dichloroethane	3.02064	3.20893	0.010	-6.23334	30.00000	Averaged
75 2-Butanone	0.98366	1.11646	0.010	-13.50097	30.00000	Averaged
76 cis-1,2-Dichloroethene	2.16511	2.26984	0.010	-4.83709	30.00000	Averaged
80 Tetrahydrofuran	1.63094	1.49219	0.010	8.50725	30.00000	Averaged
82 Chloroform	3.36787	3.82631	0.010	-13.61213	30.00000	Averaged
83 1,1,1-Trichloroethane	3.56685	3.64325	0.010	-2.14187	30.00000	Averaged
85 Cyclohexane	2.00058	2.21751	0.010	-10.84338	30.00000	Averaged
87 Carbon Tetrachloride	3.34780	3.28568	0.010	1.85569	30.00000	Averaged
89 2,2,4-Trimethylpentane	7.10496	6.95049	0.010	2.17419	30.00000	Averaged
91 Benzene	1.06658	1.14618	0.010	-7.46294	30.00000	Averaged
93 1,2-Dichloroethane	0.50146	0.49871	0.010	0.54804	30.00000	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdt.i Injection Date: 27-NOV-2007 09:05
Lab File ID: t112702.d Init. Cal. Date(s): 21-NOV-2007 26-NOV-2007
Analysis Type: AIR Init. Cal. Times: 14:44 15:28
Lab Sample ID: CCV-1 Quant Type: ISTD
Method: /chem/msdt.i/27Nov2007.b/t14q1121b.m

COMPOUND	RRF / AMOUNT	RF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
94 Heptane	0.38484	0.40685	0.010	-5.71889	30.00000	Averaged
101 Trichloroethene	0.48692	0.51943	0.010	-6.67675	30.00000	Averaged
104 1,2-Dichloropropane	0.36470	0.35838	0.010	1.73257	30.00000	Averaged
106 1,4-Dioxane	0.31632	0.34116	0.010	-7.85189	30.00000	Averaged
107 Bromodichloromethane	0.79448	0.82653	0.010	-4.03502	30.00000	Averaged
110 cis-1,3-Dichloropropene	0.58102	0.61839	0.010	-6.43105	30.00000	Averaged
111 4-Methyl-2-pentanone	0.36356	0.38644	0.010	-6.29356	30.00000	Averaged
114 Toluene	1.18340	1.26874	0.010	-7.21107	30.00000	Averaged
116 trans-1,3-Dichloropropene	0.84279	0.88732	0.010	-5.28435	30.00000	Averaged
117 1,1,2-Trichloroethane	0.59034	0.63672	0.010	-7.85653	30.00000	Averaged
120 Tetrachloroethene	0.78940	0.82118	0.010	-4.02624	30.00000	Averaged
121 2-Hexanone	0.76554	0.77245	0.010	-0.90278	30.00000	Averaged
122 Dibromochloromethane	0.98234	1.00054	0.010	-1.85265	30.00000	Averaged
123 1,2-Dibromoethane	0.94905	1.01441	0.010	-6.88628	30.00000	Averaged
127 Chlorobenzene	1.32338	1.36729	0.010	-3.31819	30.00000	Averaged
128 Ethyl Benzene	0.68458	0.72736	0.010	-6.24863	30.00000	Averaged
129 m,p-Xylene	0.85057	0.91108	0.010	-7.11428	30.00000	Averaged
130 o-Xylene	0.78374	0.83663	0.010	-6.74825	30.00000	Averaged
131 Styrene	1.23881	1.48815	0.010	-20.12803	30.00000	Averaged
133 Bromoform	0.92963	0.98180	0.010	-5.61133	30.00000	Averaged
134 Cumene	2.05813	2.34794	0.010	-14.08108	30.00000	Averaged
140 1,1,2,2-Tetrachloroethane	1.24719	1.31513	0.010	-5.44749	30.00000	Averaged
142 Propylbenzene	2.71238	2.91664	0.010	-7.53086	30.00000	Averaged
145 4-Ethyltoluene	2.30684	2.54663	0.010	-10.39448	30.00000	Averaged
147 1,3,5-Trimethylbenzene	1.91002	1.99811	0.010	-4.61192	30.00000	Averaged
150 1,2,4-Trimethylbenzene	1.82179	1.94748	0.010	-6.89927	30.00000	Averaged
155 1,3-Dichlorobenzene	1.28016	1.27822	0.010	0.15200	30.00000	Averaged
156 1,4-Dichlorobenzene	1.31816	1.33379	0.010	-1.18603	30.00000	Averaged
159 alpha-Chlorotoluene	1.86390	1.99873	0.010	-7.23372	30.00000	Averaged
161 1,2-Dichlorobenzene	1.26829	1.29474	0.010	-2.08541	30.00000	Averaged
165 1,2,4-Trichlorobenzene	1.21306	1.23438	0.010	-1.75701	30.00000	Averaged
166 Hexachlorobutadiene	0.88689	0.83763	0.010	5.55354	30.00000	Averaged
29 Isopentane	1.83212	1.63528	0.010	10.74357	30.00000	Averaged
19 Butane	0.22676	0.21868	0.010	3.56230	30.00000	Averaged
102 Methyl Cyclohexane	2.59023	2.77098	0.010	-6.97799	30.00000	Averaged
167 Naphthalene	1.74496	1.79952	0.010	-3.12707	30.00000	Averaged

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/27Nov2007.b/t112702.d
Lab Smp Id: CCV-1 Client Smp ID: CCV-1
Inj Date : 27-NOV-2007 09:05
Operator : sjr Inst ID: msdt.i
Smp Info : 50mL #1576-92
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdt.i/27Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 12:38 sruth Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				AMOUNTS			
				CAL-AMT	ON-COL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
==	====== ========	====	========	=======	=======	==========	=====
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	363056	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	287161			29.10- 129.10	79.10
13.865	13.865 (1.000)	49	540637			98.91- 198.91	148.91
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1717227	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	275972			0.00- 66.07	16.07
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1238462	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	681313			4.93- 104.93	55.01
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.943	14.943 (1.078)	65	588765	25.0000	25.157	80.00- 120.00	100.00
14.943	14.943 (1.078)	67	338731			5.03- 105.03	57.53
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.206	18.206 (1.167)	98	1466378	25.0000	25.226	80.00- 120.00	100.00
18.206	18.206 (1.167)	70	155221			0.00- 61.02	10.59

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.206	18.206 (1.167)	100	1000093			19.45- 119.45	68.20
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.796	22.796 (1.096)	174	767674	25.0000	24.676	80.00- 120.00	100.00
22.796	22.796 (1.096)	95	986446			78.50- 178.50	128.50
22.796	22.796 (1.096)	176	749122			47.58- 147.58	97.58
11 Propylene					CAS #: 115-07-1		
5.844	5.844 (0.422)	41	405868	50.0000	41.956	80.00- 120.00	100.00
5.844	5.844 (0.422)	42	279295			17.24- 117.24	68.81
5.844	5.844 (0.422)	39	319205			27.83- 127.83	78.65
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.957	5.957 (0.430)	85	2634063	50.0000	49.408	80.00- 120.00	100.00
5.957	5.957 (0.430)	87	839908			0.00- 82.07	31.89
16 Freon 114					CAS #: 76-14-2		
6.323	6.323 (0.456)	135	1749999	50.0000	50.617	80.00- 120.00	100.00
6.323	6.323 (0.456)	137	567589			0.00- 81.55	32.43
18 Chloromethane					CAS #: 74-87-3		
6.548	6.548 (0.472)	50	539311	50.0000	43.847	80.00- 120.00	100.00
6.548	6.548 (0.472)	52	180199			0.00- 84.03	33.41
20 Vinyl Chloride					CAS #: 75-01-4		
6.914	6.914 (0.499)	62	859161	50.0000	51.067	80.00- 120.00	100.00
6.914	6.914 (0.499)	64	277848			0.00- 93.71	32.34
22 1,3-Butadiene					CAS #: 106-99-0		
6.971	6.971 (0.503)	54	705483	50.0000	51.505	80.00- 120.00	100.00
6.971	6.971 (0.503)	39	608665			54.52- 154.52	86.28
25 Bromomethane					CAS #: 74-83-9		
7.928	7.928 (0.572)	94	876738	50.0000	57.545	80.00- 120.00	100.00
7.928	7.928 (0.572)	96	819545			43.48- 143.48	93.48
27 Chloroethane					CAS #: 75-00-3		
8.210	8.210 (0.592)	64	444546	50.0000	53.898	80.00- 120.00	100.00
8.210	8.210 (0.592)	49	103059			0.00- 74.88	23.18
8.210	8.210 (0.592)	66	146191			0.00- 80.84	32.89
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.773	8.773 (0.633)	101	3588347	50.0000	51.860	80.00- 120.00	100.00
8.773	8.773 (0.633)	103	2330532			14.95- 114.95	64.95

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.248	9.248 (0.667)	45	361914	50.0000	45.896	80.00- 120.00	100.00
9.248	9.248 (0.667)	43	84074			0.00- 72.67	23.23
9.248	9.248 (0.667)	46	137507			0.00- 86.29	37.99
42 Freon 113					CAS #: 76-13-1		
9.939	9.939 (0.717)	151	2348249	50.0000	56.326	80.00- 120.00	100.00
9.939	9.939 (0.717)	153	1498720			13.82- 113.82	63.82
9.939	9.939 (0.717)	101	3036160			79.29- 179.29	129.29
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.049	10.049 (0.725)	61	1632665	50.0000	51.719	80.00- 120.00	100.00
10.049	10.049 (0.725)	96	1144497			20.10- 120.10	70.10
10.049	10.049 (0.725)	98	741951			0.00- 95.44	45.44
45 Acetone					CAS #: 67-64-1		
10.188	10.188 (0.735)	58	556460	50.0000	48.313	80.00- 120.00	100.00
10.188	10.188 (0.735)	43	1566235			259.05- 359.05	281.46
46 2-Propanol					CAS #: 67-63-0		
10.381	10.381 (0.749)	45	2706471	50.0000	46.753	80.00- 120.00	100.00
10.381	10.381 (0.749)	43	588285			0.00- 73.80	21.74
10.381	10.381 (0.749)	59	130215			0.00- 54.08	4.81
47 Carbon Disulfide					CAS #: 75-15-0		
10.547	10.547 (0.761)	76	2974616	50.0000	55.026	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.824	10.824 (0.781)	76	613410	50.0000	54.741	80.00- 120.00	100.00
10.824	10.824 (0.781)	41	1129719			185.00- 285.00	184.17
54 Methylene Chloride					CAS #: 75-09-2		
11.100	11.100 (0.801)	49	851652	50.0000	44.841	80.00- 120.00	100.00
11.100	11.100 (0.801)	84	903501			56.09- 156.09	106.09
11.100	11.100 (0.801)	51	267404			0.00- 81.08	31.40
60 MTBE					CAS #: 1634-04-4		
11.460	11.460 (0.826)	73	1711329	50.0000	57.598	80.00- 120.00	100.00
11.460	11.460 (0.826)	57	314936			0.00- 68.40	18.40
11.460	11.460 (0.826)	41	273439			0.00- 69.31	15.98
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.543	11.543 (0.832)	96	1458128	50.0000	56.486	80.00- 120.00	100.00
11.543	11.543 (0.832)	61	1789802			72.75- 172.75	122.75
11.543	11.543 (0.832)	98	936644			11.49- 111.49	64.24

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.902	11.902 (0.858)	57	2191285	50.0000	51.753	80.00- 120.00	100.00
11.902	11.902 (0.858)	43	1122215			6.67- 106.67	51.21
11.902	11.902 (0.858)	86	434274			0.00- 66.53	19.82
69 Vinyl Acetate					CAS #: 108-05-4		
12.344	12.344 (0.890)	86	396940	50.0000	57.289	80.00- 120.00	100.00
12.344	12.344 (0.890)	43	2941994			869.92- 969.92	741.17
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.372	12.372 (0.892)	63	2330042	50.0000	53.117	80.00- 120.00	100.00
12.372	12.372 (0.892)	65	754813			0.00- 82.39	32.39
75 2-Butanone					CAS #: 78-93-3		
13.395	13.395 (0.966)	72	810676	50.0000	56.750	80.00- 120.00	100.00
13.395	13.395 (0.966)	43	2820611			297.93- 397.93	347.93
13.395	13.395 (0.966)	57	222536			0.00- 79.31	27.45
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.423	13.423 (0.968)	61	1648156	50.0000	52.418	80.00- 120.00	100.00
13.423	13.423 (0.968)	96	1391244			34.41- 134.41	84.41
13.423	13.423 (0.968)	98	886256			3.77- 103.77	53.77
80 Tetrahydrofuran					CAS #: 109-99-9		
13.865	13.865 (1.000)	42	1083498	50.0000	45.746	80.00- 120.00	100.00
13.865	13.865 (1.000)	71	682728			13.01- 113.01	63.01
13.865	13.865 (1.000)	72	739454			4.67- 104.67	68.25
82 Chloroform					CAS #: 67-66-3		
13.948	13.948 (1.006)	83	2778332	50.0000	56.806	80.00- 120.00	100.00
13.948	13.948 (1.006)	85	1824435			15.67- 115.67	65.67
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.280	14.280 (1.030)	97	2645409	50.0000	51.071	80.00- 120.00	100.00
14.280	14.280 (1.030)	99	1712205			14.72- 114.72	64.72
85 Cyclohexane					CAS #: 110-82-7		
14.307	14.307 (1.032)	84	1610159	50.0000	55.422	80.00- 120.00	100.00
14.307	14.307 (1.032)	56	1449921			40.05- 140.05	90.05
14.307	14.307 (1.032)	41	698390			0.00- 93.37	43.37
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.529	14.529 (1.048)	119	2385771	50.0000	49.072	80.00- 120.00	100.00
14.529	14.529 (1.048)	117	2545985			56.72- 156.72	106.72
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.888	14.888 (1.074)	57	5046833	50.0000	48.913	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.888	14.888 (1.074)	56	1637177			0.00- 82.34	32.44
14.888	14.888 (1.074)	41	1171325			0.00- 76.30	23.21
91 Benzene					CAS #: 71-43-2		
14.943	14.943 (0.957)	78	3936499	50.0000	53.731	80.00- 120.00	100.00
14.943	14.943 (0.957)	77	905875			0.00- 72.49	23.01
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.082	15.082 (0.966)	62	1712788	50.0000	49.726	80.00- 120.00	100.00
15.082	15.082 (0.966)	64	553681			0.00- 84.21	32.33
94 Heptane					CAS #: 142-82-5		
15.165	15.165 (0.972)	71	1397296	50.0000	52.859	80.00- 120.00	100.00
15.165	15.165 (0.972)	43	1661052			86.68- 186.68	118.88
15.165	15.165 (0.972)	57	1092867			32.20- 132.20	78.21
101 Trichloroethene					CAS #: 79-01-6		
16.077	16.077 (1.030)	95	1783960	50.0000	53.338	80.00- 120.00	100.00
16.077	16.077 (1.030)	130	1579386			38.53- 138.53	88.53
16.077	16.077 (1.030)	97	1122346			12.91- 112.91	62.91
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.547	16.547 (1.060)	63	1230841	50.0000	49.134	80.00- 120.00	100.00
16.547	16.547 (1.060)	62	867114			20.45- 120.45	70.45
16.547	16.547 (1.060)	41	581882			0.00- 97.28	47.28
106 1,4-Dioxane					CAS #: 123-91-1		
16.685	16.685 (1.069)	88	1171696	50.0000	53.926	80.00- 120.00	100.00
16.685	16.685 (1.069)	58	606976			1.80- 101.80	51.80
16.685	16.685 (1.069)	57	205672			0.00- 69.74	17.55
107 Bromodichloromethane					CAS #: 75-27-4		
16.989	16.989 (1.089)	83	2838688	50.0000	52.018	80.00- 120.00	100.00
16.989	16.989 (1.089)	85	1836985			14.71- 114.71	64.71
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.791	17.791 (1.140)	75	2123816	50.0000	53.216	80.00- 120.00	100.00
17.791	17.791 (1.140)	77	668862			0.00- 81.49	31.49
17.764	17.764 (1.138)	39	791303			0.00- 87.26	37.26
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.957	17.957 (1.151)	58	1327211	50.0000	53.147	80.00- 120.00	100.00
17.957	17.957 (1.151)	43	2732837			169.12- 269.12	205.91
17.957	17.957 (1.151)	85	716657			0.58- 100.58	54.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.317	18.317 (1.174)	91	4357413	50.0000	53.606	80.00- 120.00	100.00
18.317	18.317 (1.174)	92	2648921			10.79- 110.79	60.79
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.759	18.759 (0.902)	75	2197829	50.0000	52.642	80.00- 120.00	100.00
18.759	18.759 (0.902)	77	709823			0.00- 82.30	32.30
18.759	18.759 (0.902)	39	782969			0.00- 85.62	35.62
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.118	19.118 (0.919)	97	1577096	50.0000	53.928	80.00- 120.00	100.00
19.118	19.118 (0.919)	99	1005621			13.76- 113.76	63.76
19.118	19.118 (0.919)	83	1305181			32.76- 132.76	82.76
120 Tetrachloroethene					CAS #: 127-18-4		
19.284	19.284 (0.927)	166	2034008	50.0000	52.013	80.00- 120.00	100.00
19.284	19.284 (0.927)	129	1398712			18.77- 118.77	68.77
19.284	19.284 (0.927)	131	1321751			14.98- 114.98	64.98
121 2-Hexanone					CAS #: 591-78-6		
19.423	19.423 (0.934)	58	1913298	50.0000	50.451	80.00- 120.00	100.00
19.423	19.423 (0.934)	43	2905278			101.85- 201.85	151.85
19.423	19.423 (0.934)	100	445151			0.00- 71.95	23.27
122 Dibromochloromethane					CAS #: 124-48-1		
19.810	19.810 (0.952)	129	2478267	50.0000	50.926	80.00- 120.00	100.00
19.810	19.810 (0.952)	127	1895291			26.41- 126.41	76.48
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.059	20.059 (0.964)	107	2512610	50.0000	53.443	80.00- 120.00	100.00
20.059	20.059 (0.964)	109	2322191			42.42- 142.42	92.42
127 Chlorobenzene					CAS #: 108-90-7		
20.860	20.860 (1.003)	112	3386670	50.0000	51.659	80.00- 120.00	100.00
20.860	20.860 (1.003)	114	1058858			0.00- 81.27	31.27
20.833	20.833 (1.001)	77	1970024			8.17- 108.17	58.17
128 Ethyl Benzene					CAS #: 100-41-4		
20.943	20.943 (1.007)	106	1801604	50.0000	53.124	80.00- 120.00	100.00
20.943	20.943 (1.007)	91	5751787			265.06- 365.06	319.26
129 m,p-Xylene					CAS #: 108-38-3		
21.137	21.137 (1.016)	106	2256669	50.0000	53.557	80.00- 120.00	100.00
21.137	21.137 (1.016)	91	4541299			147.41- 247.41	201.24
130 o-Xylene					CAS #: 95-47-6		
21.828	21.828 (1.049)	106	2072261	50.0000	53.374	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.828	21.828 (1.049)	91	4357831			160.29- 260.29	210.29
131 Styrene					CAS #: 100-42-5		
21.883	21.883 (1.052)	104	3686042	50.0000	60.064	80.00- 120.00	100.00
21.883	21.883 (1.052)	78	1774584			0.00- 98.14	48.14
133 Bromoform					CAS #: 75-25-2		
22.270	22.270 (1.070)	173	2431838	50.0000	52.806	80.00- 120.00	100.00
22.270	22.270 (1.070)	171	1244593			1.18- 101.18	51.18
134 Cumene					CAS #: 98-82-8		
22.409	22.409 (1.077)	105	5815674	50.0000	57.040	80.00- 120.00	100.00
22.409	22.409 (1.077)	120	1492119			0.00- 75.99	25.66
22.409	22.409 (1.077)	51	430950			9.74- 109.74	7.41
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
22.989	22.989 (1.105)	83	3257474	50.0000	52.724	80.00- 120.00	100.00
22.989	22.989 (1.105)	85	2133251			15.49- 115.49	65.49
142 Propylbenzene					CAS #: 103-65-1		
23.100	23.100 (1.110)	91	7224301	50.0000	53.765	80.00- 120.00	100.00
23.100	23.100 (1.110)	120	1568426			0.00- 72.67	21.71
23.100	23.100 (1.110)	105	259505			0.00- 53.69	3.59
145 4-Ethyltoluene					CAS #: 622-96-8		
23.294	23.294 (1.120)	105	6307798	50.0000	55.197	80.00- 120.00	100.00
23.294	23.294 (1.120)	120	1889773			0.00- 79.96	29.96
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.376	23.376 (1.124)	105	4949176	50.0000	52.306	80.00- 120.00	100.00
23.376	23.376 (1.124)	120	2405390			1.60- 101.60	48.60
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.012	24.012 (1.154)	105	4823763	50.0000	53.450	80.00- 120.00	100.00
24.012	24.012 (1.154)	120	2211921			0.00- 96.88	45.85
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.593	24.593 (1.182)	146	3166045	50.0000	49.924	80.00- 120.00	100.00
24.593	24.593 (1.182)	148	2022785			14.03- 114.03	63.89
24.593	24.593 (1.182)	111	1310186			0.00- 91.33	41.38
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.731	24.731 (1.189)	146	3303706	50.0000	50.593	80.00- 120.00	100.00
24.731	24.731 (1.189)	148	2109464			15.04- 115.04	63.85
24.731	24.731 (1.189)	111	1313381			0.00- 89.92	39.75

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.953	24.953 (1.199)	91	4950701	50.0000	53.617	80.00- 120.00	100.00
24.953	24.953 (1.199)	126	955550			0.00- 70.12	19.30
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.367	25.367 (1.219)	146	3206971	50.0000	51.043	80.00- 120.00	100.00
25.367	25.367 (1.219)	148	2045930			13.80- 113.80	63.80
25.367	25.367 (1.219)	111	1382280			0.00- 93.10	43.10
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.132	28.132 (1.352)	180	3057454	50.0000	50.878	80.00- 120.00	100.00
28.132	28.132 (1.352)	182	2901526			44.90- 144.90	94.90
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.326	28.326 (1.361)	225	2074753	50.0000	47.223	80.00- 120.00	100.00
28.326	28.326 (1.361)	223	1288812			14.10- 114.10	62.12
29 Isopentane					CAS #: 78-78-4		
8.266	8.266 (0.596)	43	1187400	50.0000	44.628	80.00- 120.00	100.00
8.266	8.266 (0.596)	57	1026560			26.21- 126.21	86.45
19 Butane					CAS #: 106-97-8		
6.830	6.830 (0.493)	58	158787	50.0000	48.219	80.00- 120.00	100.00
6.830	6.830 (0.493)	43	1028054			668.04- 768.04	647.44
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.354	16.354 (1.179)	83	2012041	50.0000	53.489	80.00- 120.00	100.00
16.354	16.354 (1.179)	98	913113			0.00- 92.45	45.38
16.354	16.354 (1.179)	55	1274062			18.10- 118.10	63.32
167 Naphthalene					CAS #: 91-20-3		
28.685	28.685 (1.379)	128	4457279	50.0000	51.564	80.00- 120.00	100.00
28.658	28.658 (1.377)	127	538491			0.00- 62.43	12.08

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112702.d
Lab Smp Id: CCV-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 10:37
Client Smp ID: CCV-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	345188	207113	483263	363056	5.18
97 1,4-Difluorobenze	1748928	1049357	2448499	1717227	-1.81
126 Chlorobenzene-d5	1201077	720646	1681508	1238462	3.11

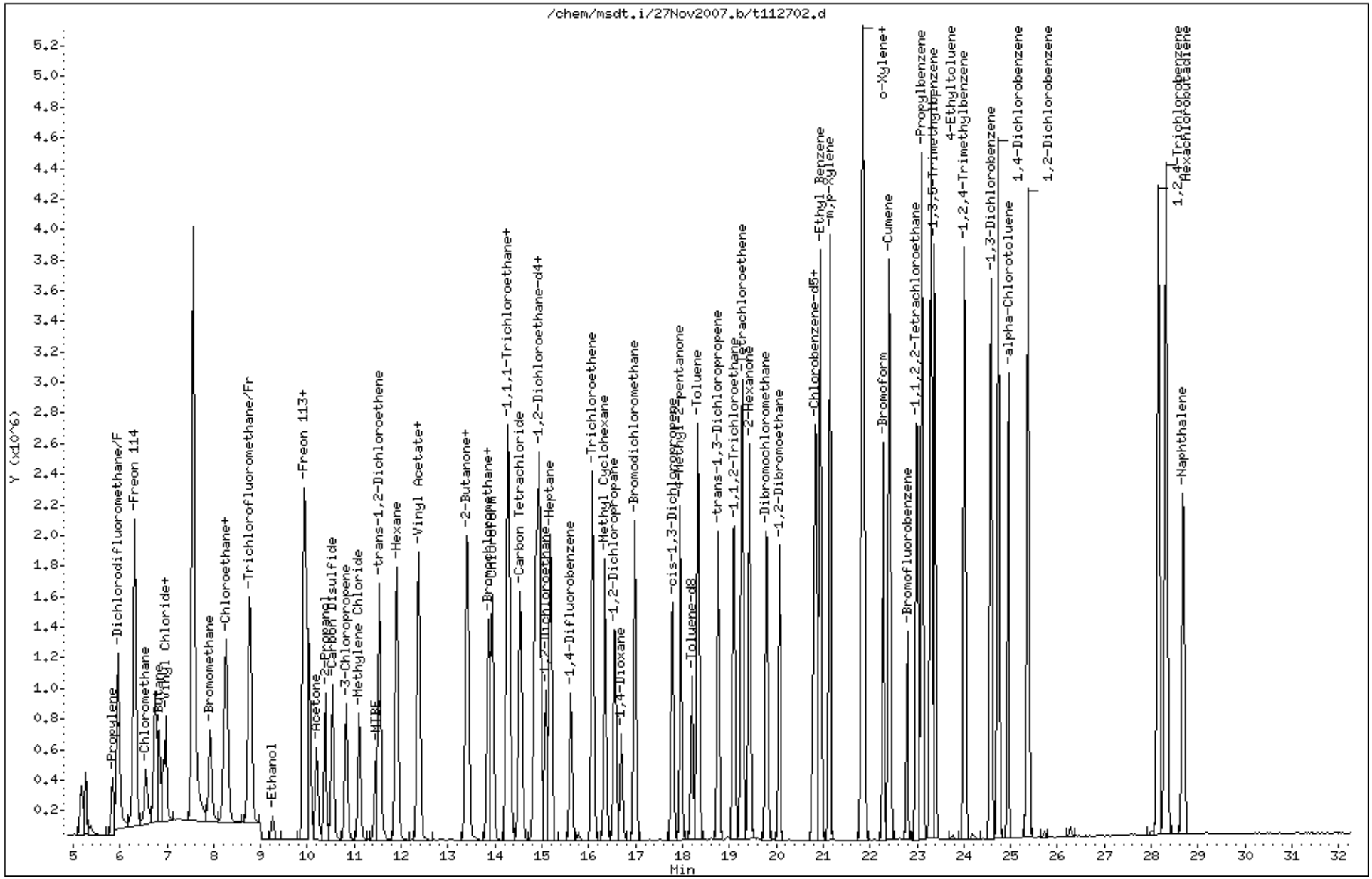
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.81	20.48	21.14	20.81	0.00

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/msdt.i/27Nov2007.b/t112702.d
Date : 27-NOV-2007 09:05
Client ID: CCV-1
Sample Info: 50mL #1576-92

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

Column phase: RTx-624



0184

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0711309-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 09:51 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	102
Vinyl Chloride	103
Bromomethane	118
Chloroethane	108
Freon 11	104
1,1-Dichloroethene	116
Freon 113	124
Methylene Chloride	99
1,1-Dichloroethane	111
cis-1,2-Dichloroethene	102
Chloroform	118
1,1,1-Trichloroethane	106
Carbon Tetrachloride	103
Benzene	112
1,2-Dichloroethane	103
Trichloroethene	110
1,2-Dichloropropane	101
cis-1,3-Dichloropropene	111
Toluene	116
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	110
Tetrachloroethene	109
1,2-Dibromoethane (EDB)	107
Chlorobenzene	108
Ethyl Benzene	109
m,p-Xylene	111
o-Xylene	111
Styrene	113
1,1,2,2-Tetrachloroethane	103
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	103
1,3-Butadiene	98
Hexane	106
Cyclohexane	112

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0711309-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t112703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/27/07 09:51 AM**	

Compound	%Recovery
Heptane	112
Bromodichloromethane	110
Dibromochloromethane	107
Cumene	121
Propylbenzene	113
Chloromethane	89
1,2,4-Trichlorobenzene	89
Hexachlorobutadiene	89
Acetone	98
Carbon Disulfide	112
2-Propanol	60
trans-1,2-Dichloroethene	114
2-Butanone (Methyl Ethyl Ketone)	102
Tetrahydrofuran	80
1,4-Dioxane	89
4-Methyl-2-pentanone	81
2-Hexanone	69
Bromoform	110
4-Ethyltoluene	114
Ethanol	78
Methyl tert-butyl ether	109
3-Chloropropene	110
2,2,4-Trimethylpentane	98
Naphthalene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	99	70-130

Report Date: 27-Nov-2007 11:09

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 27Nov2007
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Level: LOW Operator: sjr
Data Type: MS DATA SampleType: LCS
SpikeList File: 2926Spectra.spk Quant Type: ISTD
Sublist File: AT04ENSR.sub
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 200ppbv -> 50ppbv

SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
12 Dichlorodifluorome	50.000	50.353	100.71	70-130
16 Freon 114	50.000	50.863	101.73	70-130
18 Chloromethane	50.000	44.587	89.17	70-130
20 Vinyl Chloride	50.000	51.670	103.34	70-130
22 1,3-Butadiene	50.000	49.280	98.56	60-140
25 Bromomethane	50.000	59.111	118.22	70-130
27 Chloroethane	50.000	54.053	108.11	70-130
31 Trichlorofluoromet	50.000	51.886	103.77	70-130
38 Ethanol	50.000	39.118	78.24	60-140
42 Freon 113	50.000	61.957	123.91	70-130
43 1,1-Dichloroethene	50.000	57.808	115.62	70-130
45 Acetone	50.000	49.213	98.43	60-140
47 Carbon Disulfide	50.000	55.772	111.54	60-140
46 2-Propanol	50.000	29.910	59.82*	60-140
54 Methylene Chloride	50.000	49.412	98.82	70-130
60 MTBE	50.000	54.433	108.87	60-140
61 trans-1,2-Dichloro	50.000	56.968	113.94	60-140
65 Hexane	50.000	53.207	106.41	60-140
70 1,1-Dichloroethane	50.000	55.438	110.88	70-130
76 cis-1,2-Dichloroet	50.000	51.100	102.20	70-130
75 2-Butanone	50.000	51.250	102.50	60-140
80 Tetrahydrofuran	50.000	40.153	80.31	60-140
82 Chloroform	50.000	59.056	118.11	70-130
85 Cyclohexane	50.000	55.892	111.78	60-140
83 1,1,1-Trichloroeth	50.000	52.872	105.74	70-130
87 Carbon Tetrachlori	50.000	51.370	102.74	70-130
91 Benzene	50.000	55.759	111.52	70-130
93 1,2-Dichloroethane	50.000	51.592	103.18	70-130
94 Heptane	50.000	55.802	111.60	60-140
101 Trichloroethene	50.000	55.137	110.27	70-130
104 1,2-Dichloropropan	50.000	50.616	101.23	70-130
106 1,4-Dioxane	50.000	44.642	89.28	60-140
107 Bromodichlorometha	50.000	54.813	109.63	60-140

	SPIKE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
110	cis-1,3-Dichloropr	50.000	55.649	111.30	70-130
111	4-Methyl-2-pentano	50.000	40.590	81.18	60-140
114	Toluene	50.000	58.266	116.53	70-130
116	trans-1,3-Dichloro	50.000	54.906	109.81	70-130
117	1,1,2-Trichloroeth	50.000	55.073	110.15	70-130
120	Tetrachloroethene	50.000	54.673	109.35	70-130
121	2-Hexanone	50.000	34.719	69.44	60-140
122	Dibromochlorometha	50.000	53.312	106.62	60-140
123	1,2-Dibromoethane	50.000	53.712	107.42	70-130
127	Chlorobenzene	50.000	53.779	107.56	70-130
128	Ethyl Benzene	50.000	54.544	109.09	70-130
129	m,p-Xylene	50.000	55.492	110.98	70-130
130	o-Xylene	50.000	55.667	111.33	70-130
131	Styrene	50.000	56.435	112.87	70-130
133	Bromoform	50.000	55.118	110.24	60-140
140	1,1,2,2-Tetrachlor	50.000	51.617	103.23	70-130
145	4-Ethyltoluene	50.000	57.018	114.04	60-140
147	1,3,5-Trimethylben	50.000	52.875	105.75	70-130
150	1,2,4-Trimethylben	50.000	53.620	107.24	70-130
155	1,3-Dichlorobenzen	50.000	51.749	103.50	70-130
156	1,4-Dichlorobenzen	50.000	51.715	103.43	70-130
159	alpha-Chlorotoluen	50.000	57.529	115.06	70-130
161	1,2-Dichlorobenzen	50.000	51.335	102.67	70-130
165	1,2,4-Trichloroben	50.000	44.431	88.86	70-130
166	Hexachlorobutadien	50.000	44.670	89.34	70-130
142	Propylbenzene	50.000	56.384	112.77	60-140
134	Cumene	50.000	60.537	121.07	60-140
51	3-Chloropropene	50.000	54.875	109.75	60-140
89	2,2,4-Trimethylpen	50.000	48.888	97.78	60-140
19	Butane	50.000	48.491	96.98	70-130
29	Isopentane	50.000	43.389	86.78	70-130
102	Methyl Cyclohexane	50.000	55.641	111.28	70-130
11	Propylene	50.000	43.817	87.63	60-140
167	Naphthalene	50.000	49.783	99.57	60-140

	SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 90	1,2-Dichloroethane	25.000	24.167	96.67	70-130
$ 113	Toluene-d8	25.000	25.269	101.07	70-130
$ 137	Bromofluorobenzene	25.000	24.740	98.96	70-130

Air Toxics Ltd.

AMBIENT AIR METHOD TO14

Data file : /chem/msdt.i/27Nov2007.b/t112703.d
Lab Smp Id: LCS-1 Client Smp ID: LCS-1
Inj Date : 27-NOV-2007 09:51
Operator : sjr Inst ID: msdt.i
Smp Info : 50mL #1576-108
Misc Info : 200ppbv -> 50ppbv
Comment :
Method : /chem/msdt.i/27Nov2007.b/t14q1121b.m
Meth Date : 27-Nov-2007 11:09 sruth Quant Type: ISTD
Cal Date : 26-NOV-2007 15:28 Cal File: t112608.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT04ENSR.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

				CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO
* 81 Bromochloromethane					CAS #: 74-97-5		
13.865	13.865 (1.000)	130	361063	25.0000		80.00- 120.00	100.00
13.865	13.865 (1.000)	128	278519			29.10- 129.10	77.14
13.865	13.865 (1.000)	49	544790			98.91- 198.91	150.89
* 97 1,4-Difluorobenzene					CAS #: 540-36-3		
15.607	15.607 (1.000)	114	1669312	25.0000		80.00- 120.00	100.00
15.607	15.607 (1.000)	88	272338			0.00- 66.07	16.31
* 126 Chlorobenzene-d5					CAS #: 3114-55-4		
20.805	20.805 (1.000)	117	1210842	25.0000		80.00- 120.00	100.00
20.805	20.805 (1.000)	82	665990			4.93- 104.93	55.00
$ 90 1,2-Dichloroethane-d4					CAS #: 17060-07-0		
14.943	14.943 (1.078)	65	562488	24.1672	24.167	80.00- 120.00	100.00
14.943	14.943 (1.078)	67	317567			5.03- 105.03	56.46
$ 113 Toluene-d8					CAS #: 2037-26-5		
18.206	18.206 (1.167)	98	1427876	25.2687	25.269	80.00- 120.00	100.00
18.206	18.206 (1.167)	70	151853			0.00- 61.02	10.63

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
$ 113 Toluene-d8 (continued)							
18.206	18.206 (1.167)	100	976567			19.45- 119.45	68.39
$ 137 Bromofluorobenzene					CAS #: 460-00-4		
22.796	22.796 (1.096)	174	752507	24.7402	24.740	80.00- 120.00	100.00
22.796	22.796 (1.096)	95	961621			78.50- 178.50	127.79
22.796	22.796 (1.096)	176	737908			47.58- 147.58	98.06
11 Propylene					CAS #: 115-07-1		
5.816	5.844 (0.419)	41	421542	43.8169	43.817	80.00- 120.00	100.00
5.816	5.844 (0.419)	42	286158			17.24- 117.24	67.88
5.816	5.844 (0.419)	39	340955			27.83- 127.83	80.88
12 Dichlorodifluoromethane/Fr12					CAS #: 75-71-8		
5.929	5.957 (0.428)	85	2669699	50.3532	50.353	80.00- 120.00	100.00
5.929	5.957 (0.428)	87	850846			0.00- 82.07	31.87
16 Freon 114					CAS #: 76-14-2		
6.323	6.323 (0.456)	135	1748828	50.8626	50.863	80.00- 120.00	100.00
6.323	6.323 (0.456)	137	557009			0.00- 81.55	31.85
18 Chloromethane					CAS #: 74-87-3		
6.548	6.548 (0.472)	50	545395	44.5868	44.587	80.00- 120.00	100.00
6.548	6.548 (0.472)	52	181027			0.00- 84.03	33.19
20 Vinyl Chloride					CAS #: 75-01-4		
6.886	6.914 (0.497)	62	864526	51.6697	51.670	80.00- 120.00	100.00
6.886	6.914 (0.497)	64	283723			0.00- 93.71	32.82
22 1,3-Butadiene					CAS #: 106-99-0		
6.971	6.971 (0.503)	54	671301	49.2797	49.280	80.00- 120.00	100.00
6.971	6.971 (0.503)	39	564545			54.52- 154.52	84.10
25 Bromomethane					CAS #: 74-83-9		
7.928	7.928 (0.572)	94	895651	59.1110	59.111	80.00- 120.00	100.00
7.928	7.928 (0.572)	96	829859			43.48- 143.48	92.65
27 Chloroethane					CAS #: 75-00-3		
8.210	8.210 (0.592)	64	443378	54.0529	54.053	80.00- 120.00	100.00
8.210	8.210 (0.592)	49	101589			0.00- 74.88	22.91
8.210	8.210 (0.592)	66	147386			0.00- 80.84	33.24
31 Trichlorofluoromethane/Fr11					CAS #: 75-69-4		
8.773	8.773 (0.633)	101	3570405	51.8861	51.886	80.00- 120.00	100.00
8.773	8.773 (0.633)	103	2325809			14.95- 114.95	65.14

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
38 Ethanol					CAS #: 64-17-5		
9.248	9.248 (0.667)	45	306770	39.1178	39.118	80.00- 120.00	100.00
9.248	9.248 (0.667)	43	67999			0.00- 72.67	22.17
9.248	9.248 (0.667)	46	112883			0.00- 86.29	36.80
42 Freon 113					CAS #: 76-13-1		
9.939	9.939 (0.717)	151	2568793	61.9568	61.957	80.00- 120.00	100.00
9.939	9.939 (0.717)	153	1628502			13.82- 113.82	63.40
9.939	9.939 (0.717)	101	3323118			79.29- 179.29	129.36
43 1,1-Dichloroethene					CAS #: 75-35-4		
10.022	10.049 (0.723)	61	1814876	57.8082	57.808	80.00- 120.00	100.00
10.049	10.049 (0.725)	96	1281268			20.10- 120.10	70.60
10.049	10.049 (0.725)	98	814398			0.00- 95.44	44.87
45 Acetone					CAS #: 67-64-1		
10.188	10.188 (0.735)	58	563719	49.2131	49.213	80.00- 120.00	100.00
10.188	10.188 (0.735)	43	1534293			259.05- 359.05	272.17
46 2-Propanol					CAS #: 67-63-0		
10.381	10.381 (0.749)	45	1721945	29.9103	29.910	80.00- 120.00	100.00(R)
10.381	10.381 (0.749)	43	388588			0.00- 73.80	22.57
10.381	10.381 (0.749)	59	83407			0.00- 54.08	4.84
47 Carbon Disulfide					CAS #: 75-15-0		
10.547	10.547 (0.761)	76	2998424	55.7722	55.772	80.00- 120.00	100.00
51 3-Chloropropene					CAS #: 107-05-1		
10.824	10.824 (0.781)	76	611532	54.8748	54.875	80.00- 120.00	100.00
10.824	10.824 (0.781)	41	1135318			185.00- 285.00	185.65
54 Methylene Chloride					CAS #: 75-09-2		
11.100	11.100 (0.801)	49	933311	49.4118	49.412	80.00- 120.00	100.00
11.100	11.100 (0.801)	84	991815			56.09- 156.09	106.27
11.100	11.100 (0.801)	51	294035			0.00- 81.08	31.50
60 MTBE					CAS #: 1634-04-4		
11.460	11.460 (0.826)	73	1608423	54.4333	54.433	80.00- 120.00	100.00
11.460	11.460 (0.826)	57	294265			0.00- 68.40	18.30
11.460	11.460 (0.826)	41	251827			0.00- 69.31	15.66
61 trans-1,2-Dichloroethene					CAS #: 156-60-5		
11.542	11.543 (0.832)	96	1462498	56.9677	56.968	80.00- 120.00	100.00
11.542	11.543 (0.832)	61	1788053			72.75- 172.75	122.26
11.542	11.543 (0.832)	98	927180			11.49- 111.49	63.40

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
65 Hexane					CAS #: 110-54-3		
11.902	11.902 (0.858)	57	2240491	53.2074	53.207	80.00- 120.00	100.00
11.902	11.902 (0.858)	43	1147625			6.67- 106.67	51.22
11.902	11.902 (0.858)	86	438702			0.00- 66.53	19.58
69 Vinyl Acetate					CAS #: 108-05-4		
12.344	12.344 (0.890)	86	403647	58.5786	58.578	80.00- 120.00	100.00
12.344	12.344 (0.890)	43	3030359			869.92- 969.92	750.74
70 1,1-Dichloroethane					CAS #: 75-34-3		
12.372	12.372 (0.892)	63	2418501	55.4375	55.438	80.00- 120.00	100.00
12.372	12.372 (0.892)	65	785247			0.00- 82.39	32.47
75 2-Butanone					CAS #: 78-93-3		
13.395	13.395 (0.966)	72	728084	51.2501	51.250	80.00- 120.00	100.00
13.395	13.395 (0.966)	43	2068349			297.93- 397.93	284.08
13.395	13.395 (0.966)	57	197622			0.00- 79.31	27.14
76 cis-1,2-Dichloroethene					CAS #: 156-59-2		
13.423	13.423 (0.968)	61	1597891	51.1004	51.100	80.00- 120.00	100.00
13.423	13.423 (0.968)	96	1411388			34.41- 134.41	88.33
13.423	13.423 (0.968)	98	908973			3.77- 103.77	56.89
80 Tetrahydrofuran					CAS #: 109-99-9		
13.865	13.865 (1.000)	42	945802	40.1531	40.153	80.00- 120.00	100.00
13.865	13.865 (1.000)	71	582287			13.01- 113.01	61.57
13.865	13.865 (1.000)	72	632468			4.67- 104.67	66.87
82 Chloroform					CAS #: 67-66-3		
13.948	13.948 (1.006)	83	2872530	59.0562	59.056	80.00- 120.00	100.00
13.948	13.948 (1.006)	85	1880610			15.67- 115.67	65.47
83 1,1,1-Trichloroethane					CAS #: 71-55-6		
14.280	14.280 (1.030)	97	2723659	52.8718	52.872	80.00- 120.00	100.00
14.280	14.280 (1.030)	99	1764503			14.72- 114.72	64.78
85 Cyclohexane					CAS #: 110-82-7		
14.307	14.307 (1.032)	84	1614919	55.8924	55.892	80.00- 120.00	100.00
14.307	14.307 (1.032)	56	1477963			40.05- 140.05	91.52
14.307	14.307 (1.032)	41	698518			0.00- 93.37	43.25
87 Carbon Tetrachloride					CAS #: 56-23-5		
14.529	14.529 (1.048)	119	2483765	51.3698	51.370	80.00- 120.00	100.00
14.529	14.529 (1.048)	117	2639648			56.72- 156.72	106.28
89 2,2,4-Trimethylpentane					CAS #: 540-84-1		
14.888	14.888 (1.074)	57	5016575	48.8880	48.888	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
89 2,2,4-Trimethylpentane (continued)							
14.888	14.888 (1.074)	56	1614056			0.00- 82.34	32.17
14.888	14.888 (1.074)	41	1148965			0.00- 76.30	22.90
91 Benzene					CAS #: 71-43-2		
14.943	14.943 (0.957)	78	3971052	55.7589	55.759	80.00- 120.00	100.00
14.943	14.943 (0.957)	77	900025			0.00- 72.49	22.66
93 1,2-Dichloroethane					CAS #: 107-06-2		
15.082	15.082 (0.966)	62	1727470	51.5918	51.592	80.00- 120.00	100.00
15.082	15.082 (0.966)	64	569017			0.00- 84.21	32.94
94 Heptane					CAS #: 142-82-5		
15.165	15.165 (0.972)	71	1433919	55.8019	55.802	80.00- 120.00	100.00
15.165	15.165 (0.972)	43	1699422			86.68- 186.68	118.52
15.165	15.165 (0.972)	57	1104564			32.20- 132.20	77.03
101 Trichloroethene					CAS #: 79-01-6		
16.077	16.077 (1.030)	95	1792677	55.1375	55.137	80.00- 120.00	100.00
16.077	16.077 (1.030)	130	1594962			38.53- 138.53	88.97
16.077	16.077 (1.030)	97	1132277			12.91- 112.91	63.16
104 1,2-Dichloropropane					CAS #: 78-87-5		
16.547	16.547 (1.060)	63	1232605	50.6165	50.616	80.00- 120.00	100.00
16.547	16.547 (1.060)	62	870382			20.45- 120.45	70.61
16.547	16.547 (1.060)	41	578616			0.00- 97.28	46.94
106 1,4-Dioxane					CAS #: 123-91-1		
16.685	16.685 (1.069)	88	942918	44.6423	44.642	80.00- 120.00	100.00
16.685	16.685 (1.069)	58	484849			1.80- 101.80	51.42
16.685	16.685 (1.069)	57	170611			0.00- 69.74	18.09
107 Bromodichloromethane					CAS #: 75-27-4		
16.989	16.989 (1.089)	83	2907779	54.8130	54.813	80.00- 120.00	100.00
16.989	16.989 (1.089)	85	1875972			14.71- 114.71	64.52
110 cis-1,3-Dichloropropene					CAS #: 10061-01-5		
17.791	17.791 (1.140)	75	2158966	55.6490	55.649	80.00- 120.00	100.00
17.791	17.791 (1.140)	77	693845			0.00- 81.49	32.14
17.764	17.764 (1.138)	39	806869			0.00- 87.26	37.37
111 4-Methyl-2-pentanone					CAS #: 108-10-1		
17.957	17.957 (1.151)	58	985364	40.5904	40.590	80.00- 120.00	100.00
17.957	17.957 (1.151)	43	2014900			169.12- 269.12	204.48
17.957	17.957 (1.151)	85	524023			0.58- 100.58	53.18

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
114 Toluene					CAS #: 108-88-3		
18.317	18.317 (1.174)	91	4604133	58.2665	58.266	80.00- 120.00	100.00
18.317	18.317 (1.174)	92	2804141			10.79- 110.79	60.90
116 trans-1,3-Dichloropropene					CAS #: 10061-02-6		
18.759	18.759 (0.902)	75	2241222	54.9060	54.906	80.00- 120.00	100.00
18.759	18.759 (0.902)	77	718760			0.00- 82.30	32.07
18.759	18.759 (0.902)	39	791113			0.00- 85.62	35.30
117 1,1,2-Trichloroethane					CAS #: 79-00-5		
19.118	19.118 (0.919)	97	1574654	55.0730	55.073	80.00- 120.00	100.00
19.118	19.118 (0.919)	99	1012004			13.76- 113.76	64.27
19.118	19.118 (0.919)	83	1334466			32.76- 132.76	84.75
120 Tetrachloroethene					CAS #: 127-18-4		
19.284	19.284 (0.927)	166	2090357	54.6734	54.673	80.00- 120.00	100.00
19.284	19.284 (0.927)	129	1445828			18.77- 118.77	69.17
19.284	19.284 (0.927)	131	1363326			14.98- 114.98	65.22
121 2-Hexanone					CAS #: 591-78-6		
19.423	19.423 (0.934)	58	1287304	34.7190	34.719	80.00- 120.00	100.00
19.423	19.423 (0.934)	43	1924775			101.85- 201.85	149.52
19.423	19.423 (0.934)	100	296732			0.00- 71.95	23.05
122 Dibromochloromethane					CAS #: 124-48-1		
19.810	19.810 (0.952)	129	2536486	53.3116	53.312	80.00- 120.00	100.00
19.810	19.810 (0.952)	127	1943790			26.41- 126.41	76.63
123 1,2-Dibromoethane					CAS #: 106-93-4		
20.058	20.059 (0.964)	107	2468943	53.7122	53.712	80.00- 120.00	100.00
20.058	20.059 (0.964)	109	2278795			42.42- 142.42	92.30
127 Chlorobenzene					CAS #: 108-90-7		
20.860	20.860 (1.003)	112	3447014	53.7789	53.779	80.00- 120.00	100.00
20.860	20.860 (1.003)	114	1072069			0.00- 81.27	31.10
20.833	20.833 (1.001)	77	1977667			8.17- 108.17	57.37
128 Ethyl Benzene					CAS #: 100-41-4		
20.943	20.943 (1.007)	106	1808511	54.5444	54.544	80.00- 120.00	100.00
20.943	20.943 (1.007)	91	5739779			265.06- 365.06	317.38
129 m,p-Xylene					CAS #: 108-38-3		
21.137	21.137 (1.016)	106	2286057	55.4922	55.492	80.00- 120.00	100.00
21.137	21.137 (1.016)	91	4498761			147.41- 247.41	196.79
130 o-Xylene					CAS #: 95-47-6		
21.856	21.828 (1.050)	106	2113083	55.6670	55.667	80.00- 120.00	100.00

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO
130 o-Xylene (continued)							
21.828	21.828 (1.049)	91	4400058			160.29- 260.29	208.23
131 Styrene					CAS #: 100-42-5		
21.883	21.883 (1.052)	104	3386087	56.4349	56.435	80.00- 120.00	100.00
21.883	21.883 (1.052)	78	1669534			0.00- 98.14	49.31
133 Bromoform					CAS #: 75-25-2		
22.270	22.270 (1.070)	173	2481718	55.1180	55.118	80.00- 120.00	100.00
22.270	22.270 (1.070)	171	1266283			1.18- 101.18	51.02
134 Cumene					CAS #: 98-82-8		
22.409	22.409 (1.077)	105	6034546	60.5373	60.537	80.00- 120.00	100.00
22.436	22.409 (1.078)	120	1559111			0.00- 75.99	25.84
22.409	22.409 (1.077)	51	454934			9.74- 109.74	7.54
140 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5		
23.017	22.989 (1.106)	83	3117985	51.6172	51.617	80.00- 120.00	100.00
23.017	22.989 (1.106)	85	2023114			15.49- 115.49	64.89
142 Propylbenzene					CAS #: 103-65-1		
23.100	23.100 (1.110)	91	7407267	56.3846	56.384	80.00- 120.00	100.00
23.100	23.100 (1.110)	120	1598171			0.00- 72.67	21.58
23.100	23.100 (1.110)	105	264821			0.00- 53.69	3.58
145 4-Ethyltoluene					CAS #: 622-96-8		
23.293	23.294 (1.120)	105	6370591	57.0183	57.018	80.00- 120.00	100.00
23.293	23.294 (1.120)	120	1895430			0.00- 79.96	29.75
147 1,3,5-Trimethylbenzene					CAS #: 108-67-8		
23.376	23.376 (1.124)	105	4891436	52.8749	52.875	80.00- 120.00	100.00
23.404	23.376 (1.125)	120	2391969			1.60- 101.60	48.90
150 1,2,4-Trimethylbenzene					CAS #: 95-63-6		
24.012	24.012 (1.154)	105	4731215	53.6200	53.620	80.00- 120.00	100.00
24.040	24.012 (1.155)	120	2170785			0.00- 96.88	45.88
155 1,3-Dichlorobenzene					CAS #: 541-73-1		
24.593	24.593 (1.182)	146	3208587	51.7489	51.749	80.00- 120.00	100.00
24.593	24.593 (1.182)	148	2067797			14.03- 114.03	64.45
24.593	24.593 (1.182)	111	1321237			0.00- 91.33	41.18
156 1,4-Dichlorobenzene					CAS #: 106-46-7		
24.731	24.731 (1.189)	146	3301647	51.7148	51.715	80.00- 120.00	100.00
24.731	24.731 (1.189)	148	2115798			15.04- 115.04	64.08
24.731	24.731 (1.189)	111	1306324			0.00- 89.92	39.57

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO
159 alpha-Chlorotoluene					CAS #: 100-44-7		
24.952	24.953 (1.199)	91	5193447	57.5288	57.529	80.00- 120.00	100.00
24.952	24.953 (1.199)	126	989606			0.00- 70.12	19.05
161 1,2-Dichlorobenzene					CAS #: 95-50-1		
25.367	25.367 (1.219)	146	3153389	51.3347	51.335	80.00- 120.00	100.00
25.367	25.367 (1.219)	148	2001752			13.80- 113.80	63.48
25.367	25.367 (1.219)	111	1357274			0.00- 93.10	43.04
165 1,2,4-Trichlorobenzene					CAS #: 120-82-1		
28.132	28.132 (1.352)	180	2610439	44.4307	44.431	80.00- 120.00	100.00
28.132	28.132 (1.352)	182	2475806			44.90- 144.90	94.84
166 Hexachlorobutadiene					CAS #: 87-68-3		
28.326	28.326 (1.361)	225	1918805	44.6699	44.670	80.00- 120.00	100.00
28.326	28.326 (1.361)	223	1199977			14.10- 114.10	62.54
29 Isopentane					CAS #: 78-78-4		
8.266	8.266 (0.596)	43	1148097	43.3892	43.389	80.00- 120.00	100.00
8.266	8.266 (0.596)	57	985170			26.21- 126.21	85.81
19 Butane					CAS #: 106-97-8		
6.802	6.830 (0.491)	58	158807	48.4911	48.491	80.00- 120.00	100.00
6.802	6.830 (0.491)	43	1037132			668.04- 768.04	653.08
102 Methyl Cyclohexane					CAS #: 108-87-2		
16.353	16.354 (1.179)	83	2081492	55.6407	55.641	80.00- 120.00	100.00
16.353	16.354 (1.179)	98	948745			0.00- 92.45	45.58
16.353	16.354 (1.179)	55	1323039			18.10- 118.10	63.56
167 Naphthalene					CAS #: 91-20-3		
28.685	28.685 (1.379)	128	4207360	49.7826	49.783	80.00- 120.00	100.00
28.657	28.658 (1.377)	127	516013			0.00- 62.43	12.26

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdt.i
Lab File ID: t112703.d
Lab Smp Id: LCS-1
Analysis Type: VOA
Quant Type: ISTD
Operator: sjr
Method File: /chem/msdt.i/27Nov2007.b/t14q1121b.m
Misc Info: 200ppbv -> 50ppbv

Calibration Date: 27-NOV-2007
Calibration Time: 09:05
Client Smp ID: LCS-1
Level: LOW
Sample Type: AIR

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	363056	217834	508278	361063	-0.55
97 1,4-Difluorobenze	1717227	1030336	2404118	1669312	-2.79
126 Chlorobenzene-d5	1238462	743077	1733847	1210842	-2.23

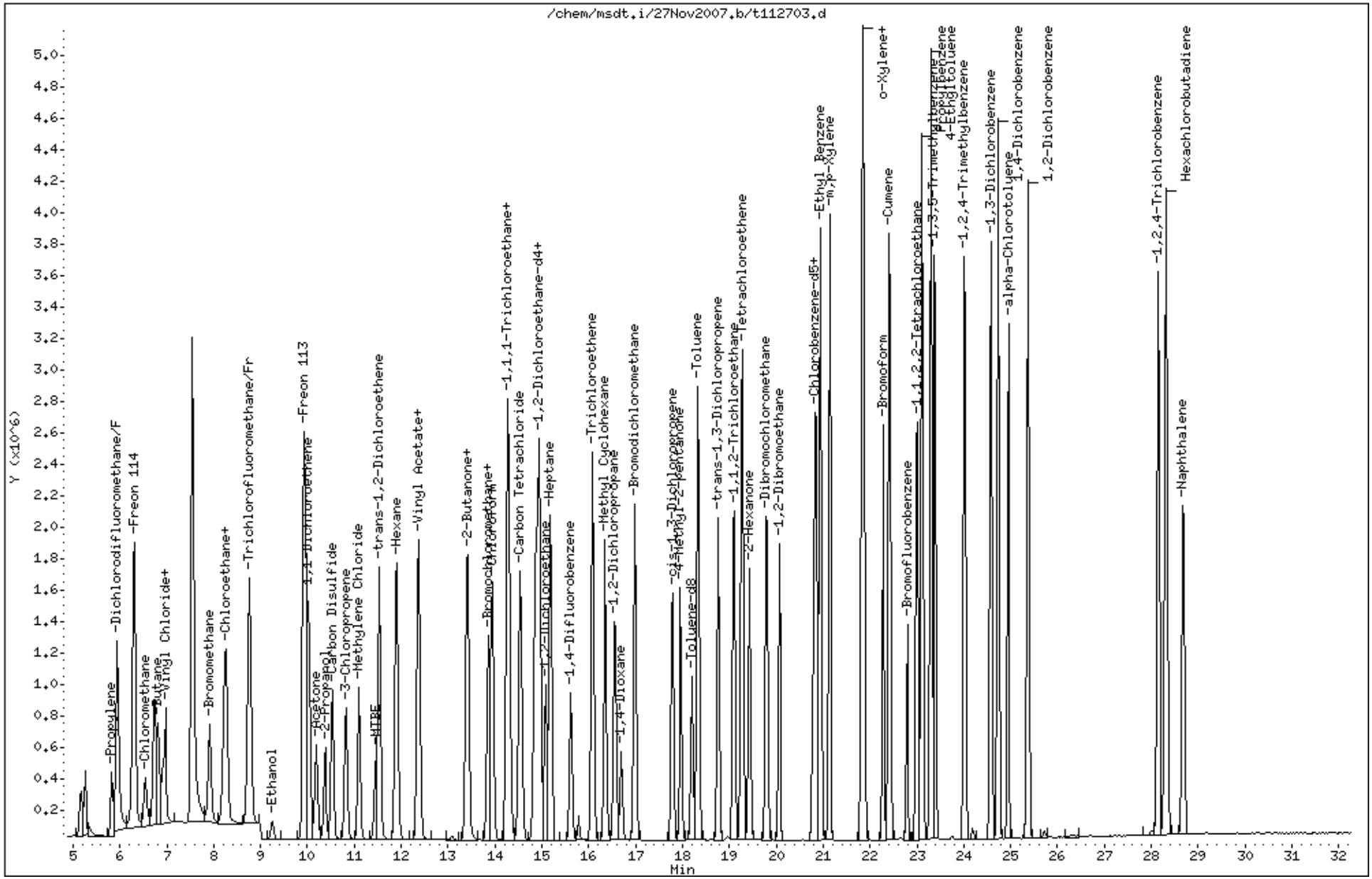
		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
81 Bromochloromethan	13.87	13.54	14.20	13.87	0.00
97 1,4-Difluorobenze	15.61	15.28	15.94	15.61	0.00
126 Chlorobenzene-d5	20.81	20.48	21.14	20.81	0.00

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/msdt.i/27Nov2007.b/t112703.d
Date : 27-NOV-2007 09:51
Client ID: LCS-1
Sample Info: 50mL #1576-108

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

Column phase: RTx-624



0198

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MSD-T

Logbook #: 1599

m/z	ION ABUNDANCE CRITERIA	% REL. ABUNDANCE
50	15.0 – 40.0% of mass 95	16.90
75	30.0 – 60.0% of mass 95	47.32
95	Base peak, 100.00% relative abundance	100
96	5.0 – 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	(0.77)[1]
174	Greater than 50.0% of mass 95	58.30
175	5.0 – 9.0% of mass 174	(7.57)[1]
176	Greater than 95.0% but less than 101.0% of mass 174	(95.70)[1]
177	5.0 – 9.0% of mass 176	(6.71)[2]

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

BFB Injection Date: 11/27/07
BFB Injection Time: 0828
BFB File ID: t112701
Tekmar Purge Flow: 21.3 mL/min
Vacuum: 4.28e-5

IS/S Std.#:	1443-355 Exp. Date: 2/5/08
BCM	363056
1,4-DFB	1717227
CB-d5	1238462

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

Verify 176/174 m/z Ratio: 1128960 / 1179648 x 100 = 95.70

NOAH Cart #: NA File #: NA

Calculation Check:

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc.}_{\text{IS}}}{\text{RRF}} = \frac{(1466378)}{(1717227)} \times \frac{(25.0)}{(0.84627)} = 25.226$

File ID:	t112702
Compound:	Tol-d8
Initials:	

Reported Result 25.226

	Use	File #	Sample / Client Name	Can #	Pressure	Amt Loaded	DF	Date Analyzed	Time Analyzed	Review Init.	Comments
1	✓	t112701	BFB Tune Check	1467-69	50psig	2mL	1.00	11/27/07	0828		Apex -1
2	✓	02	CCV-1 (200ppbv)	576-92	50psig	50mL			0905		8 out
3	✓	03	LCS-1	576-108					0951		1 out
4	✓	04	CCVsp	1467-405					1037		sp22bCCV
5	✓	05	Lab blank	12941	Humid	200mL			1226		
6	✓	06	0711237A-03A	12286	3.5"Hg-15psi	15mL	3050 3052		1317		100X
7	X	07	0711237A-01A	34428	2.0"Hg-5psi	700mL	1.44		1432		Canx 34428
8		08	0711237A-01AA	34428	2.0"Hg-5psi	200mL	2.89		1512		
9		09	J -01AA			100mL	2.93		1550		

Signature

11/27/07
Date

0199

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MSD-T

Logbook #: 1599

0200

10	✓	T112710	0711464-05A	12934	8.0"Hg-5psi	200mL	1.83	11/27/07	1654	SS	
11	✓	11	~~05AA~~ 06A	1439	7.0"Hg-5psi	200mL	1.75		1741	SS	
12	✓	12	07A	9914	8.0"Hg-5psi	200mL	1.83		1820	SS	
13	✓	13	08A	34370	8.5"Hg-5psi	200mL	1.87		1909	SS	
14	✓	14	08AA	↓	↓		↓		2014	SS	
15	✓	15	09A	33537	7.0"Hg-5psi		1.75		2053	SS	
16	✓	16	10A	12959	10.5"Hg-5psi	↓	2.06		2131	SS	
17	X	17	0711374A-01A	33906	9.5"Hg-5psi	1.0mL	392		2214	fo	RR @ 3mL
18	✓	18	-01AA	↓	↓	3.0mL	131		2311		dil due to NT
19	✓	19	-02A	31437	13.0"Hg-5psi	200mL	2.36	↓	2354		
20	✓	20	-03A	9408	12.5"Hg-5psi	200mL	2.30	11/28/07	0050		
21	✓	21	-04A	33970	6.5"Hg-5psi	200mL	1.71		0132		
22	✓	22	↓ -01A	33906	9.5"Hg-5psi	6.0mL	65.3		0229		Dil due to NT
23	✓	23	0711307A-01A	SC53	1.0"Hg-15psi	200mL	2.09		0335		
24	X	24	-02A	SC97	0.0"Hg-15psi	25mL	3230		0445	↓	200X
25	✓	25	-02A	↓	↓	150mL	539		0531	fo	Surr ↑ matrix
26	✓	~~26~~	0711309-01A	4294	7.0"Hg-5psi	200mL	1.75		0719	fo	
27		27	-02A	9540	5.5"Hg-5psi	200mL	1.64		0757		
28											
29											
30											
31											
32											

Comments:

11/28/07

Signature

Date 11/28/07

Revision 08/2007
Page 158

Air Toxics Ltd.

Data file : /chem/msdt.i/21Nov2007.b/t112101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 21-NOV-2007 13:34
Operator : ea Inst ID: msdt.i
Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
Misc Info : 50ng
Comment :
Method : /chem/msdt.i/21Nov2007.b/bfb.m
Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.137	8.228	-0.091	95	1324074			100.00- 100.00	100.00
8.137	8.228	-0.091	50	240909			15.00- 40.00	18.19
8.137	8.228	-0.091	75	643395			30.00- 60.00	48.59
8.137	8.228	-0.091	96	86351			5.00- 9.00	6.52
8.137	8.228	-0.091	173	7626			0.00- 2.00	0.75
8.137	8.228	-0.091	174	1015296			50.00- 100.00	76.68
8.137	8.228	-0.091	175	72603			5.00- 9.00	7.15
8.137	8.228	-0.091	176	980730			95.00- 101.00	96.60
8.137	8.228	-0.091	177	64069			5.00- 9.00	6.53

Data File: /chem/msdt.i/21Nov2007.b/t112101.d

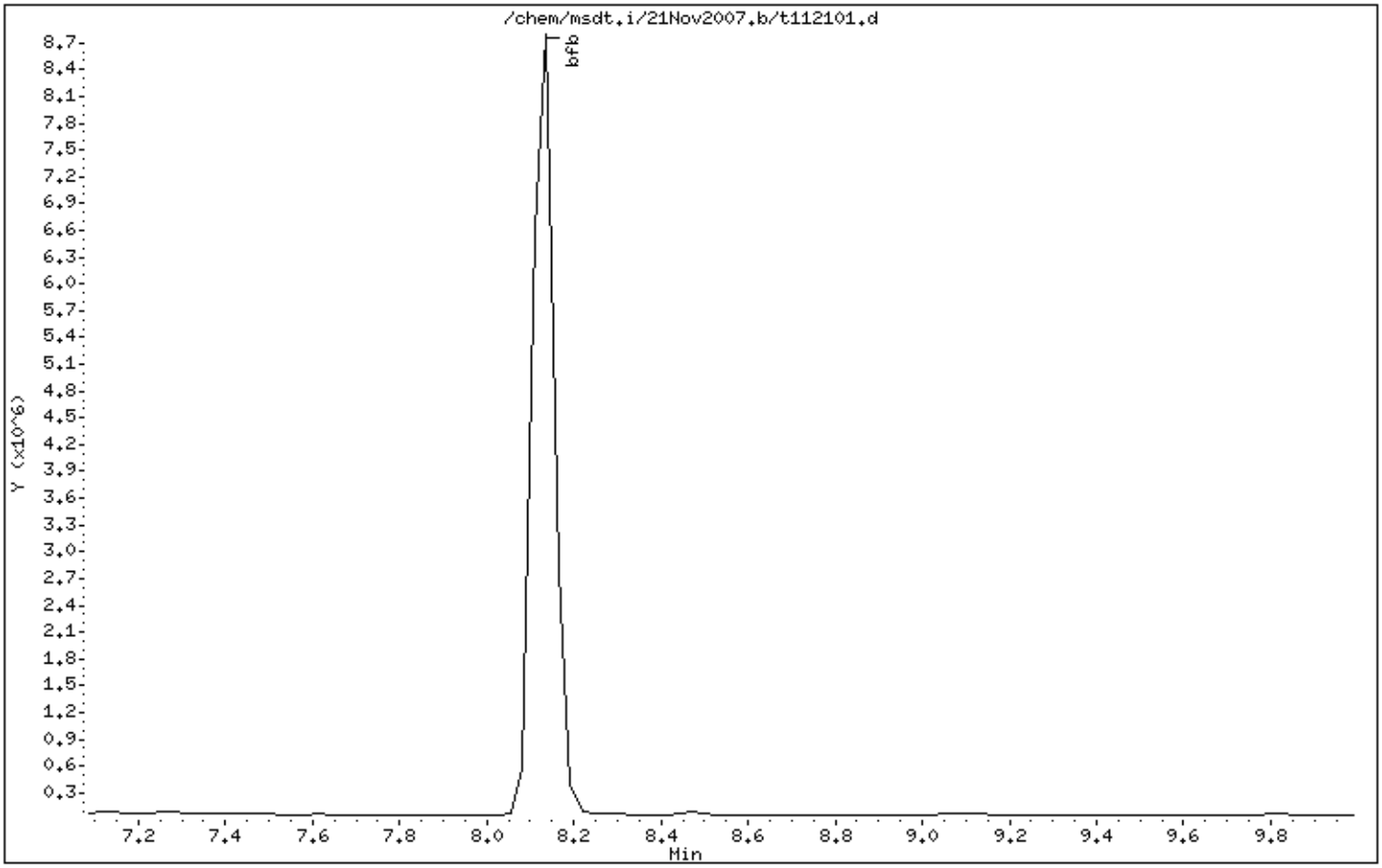
Date : 21-NOV-2007 13:34

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00



Data File: /chem/msdt.i/21Nov2007.b/t112101.d

Date : 21-NOV-2007 13:34

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

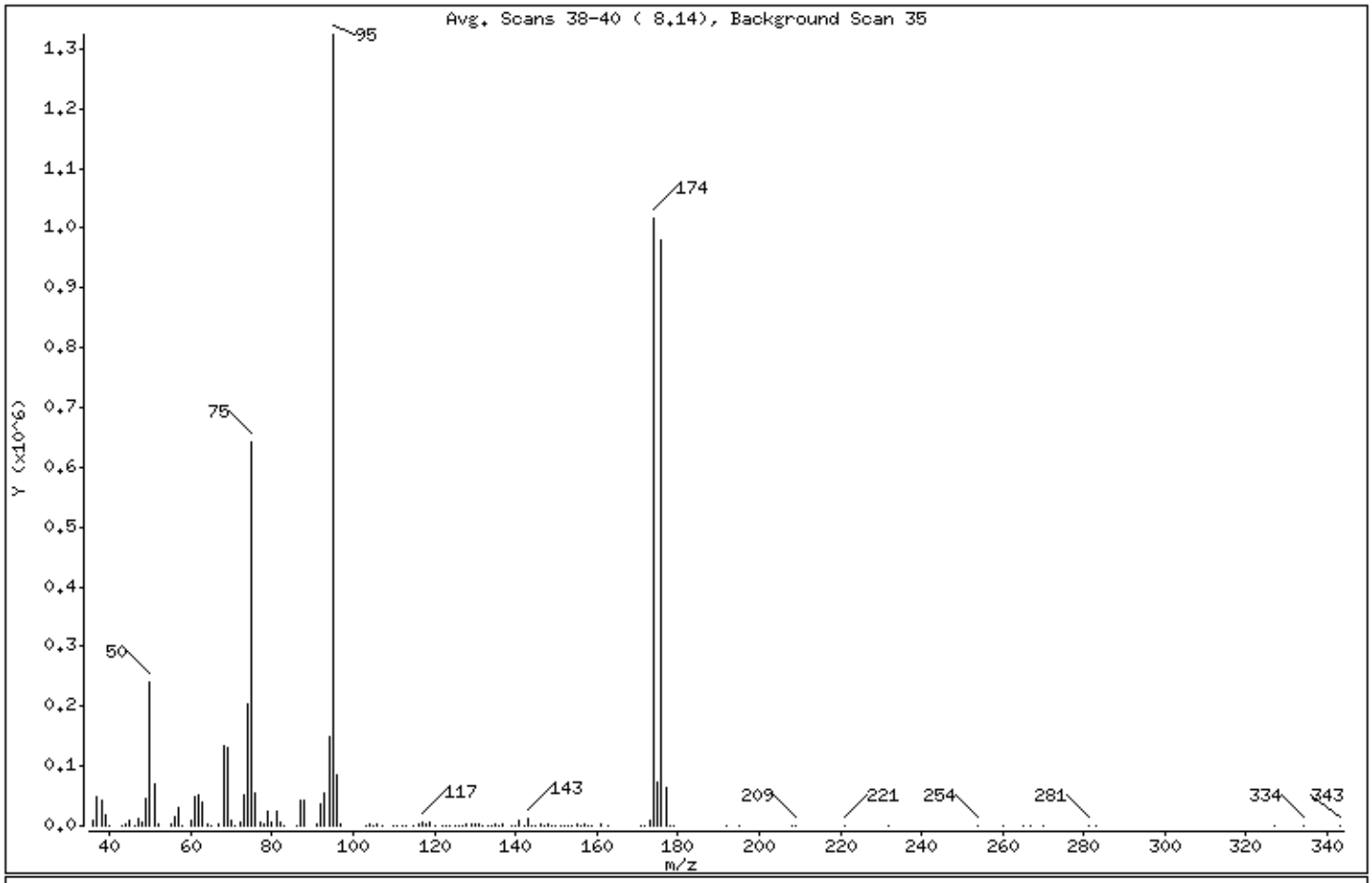
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.19
75	30.00 - 60.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.52
173	Less than 2.00% of mass 174	0.58 (0.75)
174	50.00 - 100.00% of mass 95	76.68
175	5.00 - 9.00% of mass 174	5.48 (7.15)
176	95.00 - 101.00% of mass 174	74.07 (96.60)
177	5.00 - 9.00% of mass 176	4.84 (6.53)

Date : 21-NOV-2007 13:34

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00

Data File: t112101.d
Spectrum: Avg. Scans 38-40 (8.14), Background Scan 35
Location of Maximum: 95.00
Number of points: 131

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	8359	75.00	643392	120.00	116	155.00	2943
37.00	48480	76.00	55440	122.00	229	156.00	627
38.00	44072	77.00	6270	123.00	322	157.00	1923
39.00	18648	78.00	3492	124.00	693	158.00	285
40.00	53	79.00	24424	125.00	526	159.00	1437
43.00	32	80.00	7396	126.00	537	161.00	1530
44.00	3908	81.00	24768	127.00	614	163.00	15
45.00	9338	82.00	5292	128.00	4229	171.00	116
46.00	712	83.00	642	129.00	2123	172.00	749
47.00	11836	86.00	972	130.00	4242	173.00	7626
48.00	5386	87.00	44056	131.00	1735	174.00	1015296
49.00	44976	88.00	42496	132.00	155	175.00	72600
50.00	240896	91.00	3363	133.00	107	176.00	980672
51.00	71192	92.00	35536	134.00	28	177.00	64064
52.00	3086	93.00	56184	135.00	1572	178.00	1469
55.00	2406	94.00	147776	136.00	463	179.00	254
56.00	15885	95.00	1324032	137.00	1714	192.00	163
57.00	30872	96.00	86344	139.00	435	195.00	111
58.00	1309	97.00	2730	140.00	677	208.00	37
60.00	9377	103.00	408	141.00	10427	209.00	399
61.00	49888	104.00	4551	142.00	1222	221.00	100
62.00	52984	105.00	1476	143.00	11105	232.00	53
63.00	40856	106.00	4235	144.00	576	254.00	129
64.00	3498	107.00	1315	145.00	1019	260.00	100
65.00	725	110.00	442	146.00	1684	265.00	106
67.00	2785	111.00	891	147.00	779	267.00	54
68.00	134400	112.00	526	148.00	2927	270.00	295
69.00	131264	113.00	748	149.00	904	281.00	362
70.00	9142	115.00	1364	150.00	1271	283.00	128
71.00	329	116.00	3433	151.00	108	327.00	116
72.00	5634	117.00	6543	152.00	554	334.00	215
73.00	50440	118.00	3528	153.00	949	343.00	12
74.00	204288	119.00	5447	154.00	593		

Air Toxics Ltd.

Data file : /chem/msdt.i/23Nov2007.b/t112301.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 23-NOV-2007 08:28
Operator : lmr Inst ID: msdt.i
Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
Misc Info : 50ng
Comment :
Method : /chem/msdt.i/23Nov2007.b/bfb.m
Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.110	8.228	-0.118	95	1544582			100.00- 100.00	100.00
8.110	8.228	-0.118	50	249387			15.00- 40.00	16.15
8.110	8.228	-0.118	75	708475			30.00- 60.00	45.87
8.110	8.228	-0.118	96	99480			5.00- 9.00	6.44
8.110	8.228	-0.118	173	8891			0.00- 2.00	0.78
8.110	8.228	-0.118	174	1146976			50.00- 100.00	74.26
8.110	8.228	-0.118	175	82689			5.00- 9.00	7.21
8.110	8.228	-0.118	176	1106265			95.00- 101.00	96.45
8.110	8.228	-0.118	177	71876			5.00- 9.00	6.50

Data File: /chem/msdt.i/23Nov2007.b/t112301.d

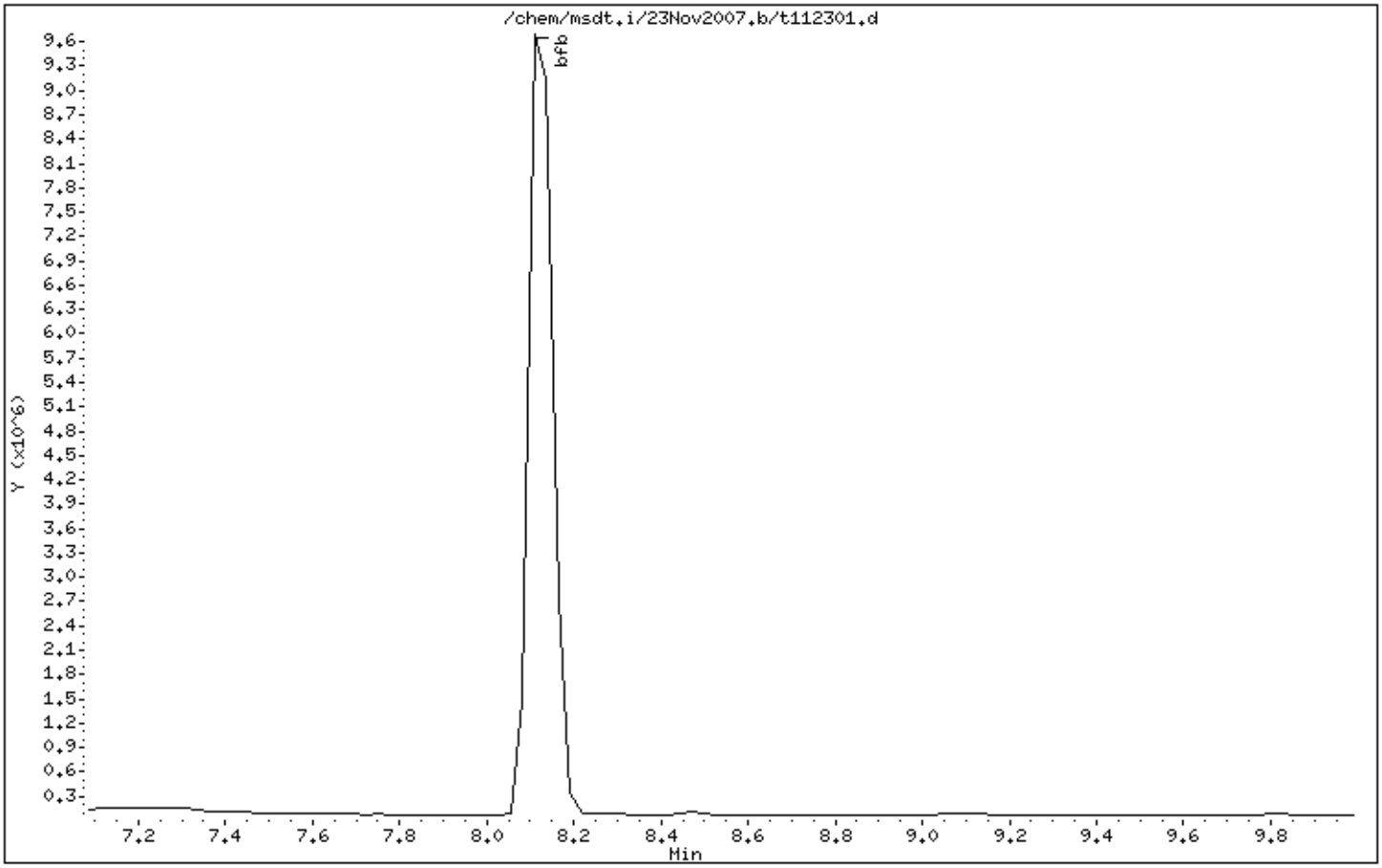
Date : 23-NOV-2007 08:28

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00



Data File: /chem/msdt.i/23Nov2007.b/t112301.d

Date : 23-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

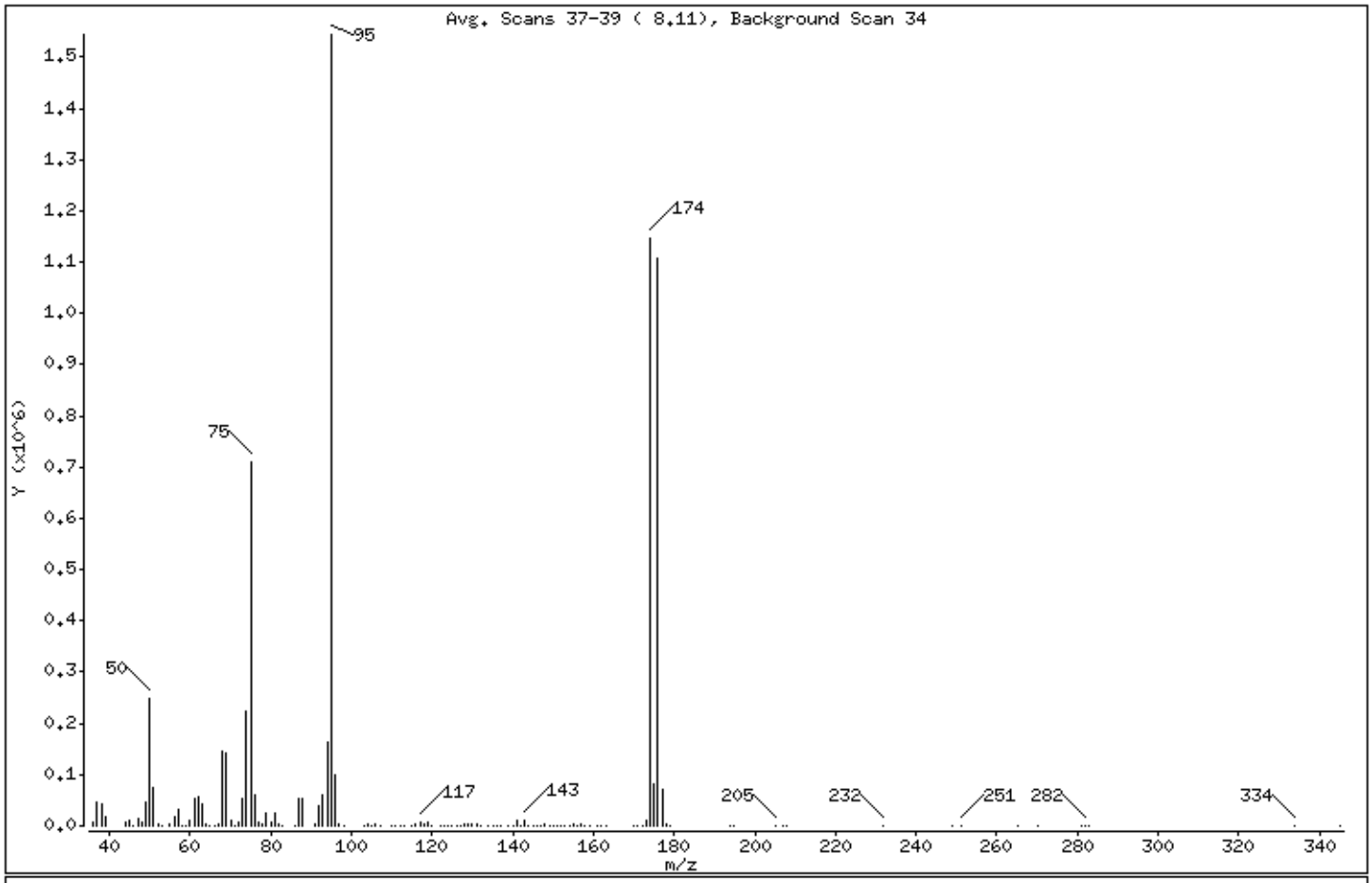
Volume Injected (uL): 1.0

Operator: lmr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.15
75	30.00 - 60.00% of mass 95	45.87
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.58 (0.78)
174	50.00 - 100.00% of mass 95	74.26
175	5.00 - 9.00% of mass 174	5.35 (7.21)
176	95.00 - 101.00% of mass 174	71.62 (96.45)
177	5.00 - 9.00% of mass 176	4.65 (6.50)

Date : 23-NOV-2007 08:28

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: lmr

Column phase: Column diameter: 2.00

Data File: t112301.d
Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34
Location of Maximum: 95.00
Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	7347	75.00	708416	120.00	268	157.00	2260
37.00	46552	76.00	60808	122.00	396	158.00	118
38.00	43296	77.00	6814	123.00	348	159.00	1410
39.00	17696	78.00	4637	124.00	619	161.00	1458
44.00	5687	79.00	24416	125.00	403	162.00	107
45.00	9713	80.00	7616	126.00	418	163.00	5
46.00	654	81.00	26112	127.00	480	170.00	109
47.00	13200	82.00	4774	128.00	4222	171.00	147
48.00	5831	83.00	428	129.00	2165	172.00	493
49.00	45528	86.00	1134	130.00	4391	173.00	8891
50.00	249344	87.00	54248	131.00	2111	174.00	1146880
51.00	73384	88.00	51824	132.00	217	175.00	82688
52.00	3180	91.00	3547	134.00	407	176.00	1105920
53.00	66	92.00	37384	135.00	1421	177.00	71872
55.00	2614	93.00	59568	136.00	354	178.00	2073
56.00	17040	94.00	163968	137.00	1731	179.00	261
57.00	32480	95.00	1544192	139.00	431	194.00	101
58.00	1440	96.00	99480	140.00	623	195.00	104
59.00	5	97.00	3083	141.00	9617	205.00	230
60.00	9678	98.00	110	142.00	1052	207.00	199
61.00	54528	103.00	221	143.00	10141	208.00	75
62.00	55712	104.00	4703	144.00	499	232.00	349
63.00	42584	105.00	1539	145.00	894	249.00	55
64.00	3568	106.00	4553	146.00	1749	251.00	206
65.00	316	107.00	1280	147.00	766	265.00	98
66.00	126	110.00	504	148.00	3102	270.00	16
67.00	2565	111.00	733	149.00	789	281.00	84
68.00	145344	112.00	501	150.00	1096	282.00	245
69.00	142912	113.00	907	151.00	115	283.00	15
70.00	10376	115.00	1328	152.00	543	334.00	477
71.00	446	116.00	4122	153.00	932	345.00	103
72.00	6480	117.00	6699	154.00	805		
73.00	54576	118.00	3979	155.00	3308		
74.00	223936	119.00	5501	156.00	480		

Air Toxics Ltd.

Data file : /chem/msdt.i/26Nov2007.b/t112601.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 26-NOV-2007 08:57
Operator : ea Inst ID: msdt.i
Smp Info : 2uL #1467-58;BFB Tune check;BFB Tune check
Misc Info : 50ng
Comment :
Method : /chem/msdt.i/26Nov2007.b/bfb.m
Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
8.110	8.228	-0.118	95	1680625			100.00- 100.00	100.00
8.110	8.228	-0.118	50	295583			15.00- 40.00	17.59
8.110	8.228	-0.118	75	816391			30.00- 60.00	48.58
8.110	8.228	-0.118	96	110109			5.00- 9.00	6.55
8.110	8.228	-0.118	173	9302			0.00- 2.00	0.76
8.110	8.228	-0.118	174	1229653			50.00- 100.00	73.17
8.110	8.228	-0.118	175	89370			5.00- 9.00	7.27
8.110	8.228	-0.118	176	1190058			95.00- 101.00	96.78
8.110	8.228	-0.118	177	77646			5.00- 9.00	6.52

Data File: /chem/msdt.i/26Nov2007.b/t112601.d

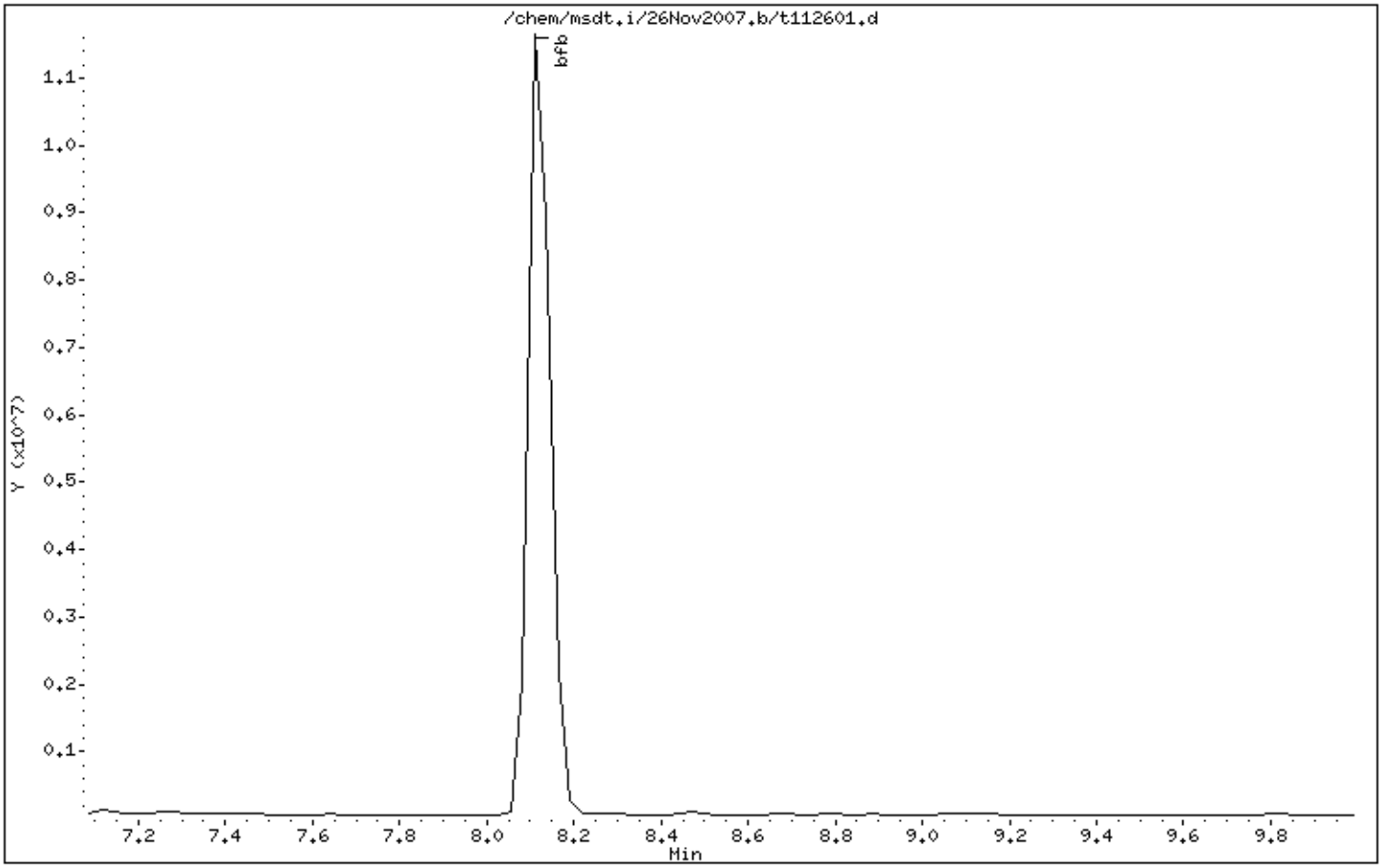
Date : 26-NOV-2007 08:57

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00



Data File: /chem/msdt.i/26Nov2007.b/t112601.d

Date : 26-NOV-2007 08:57

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

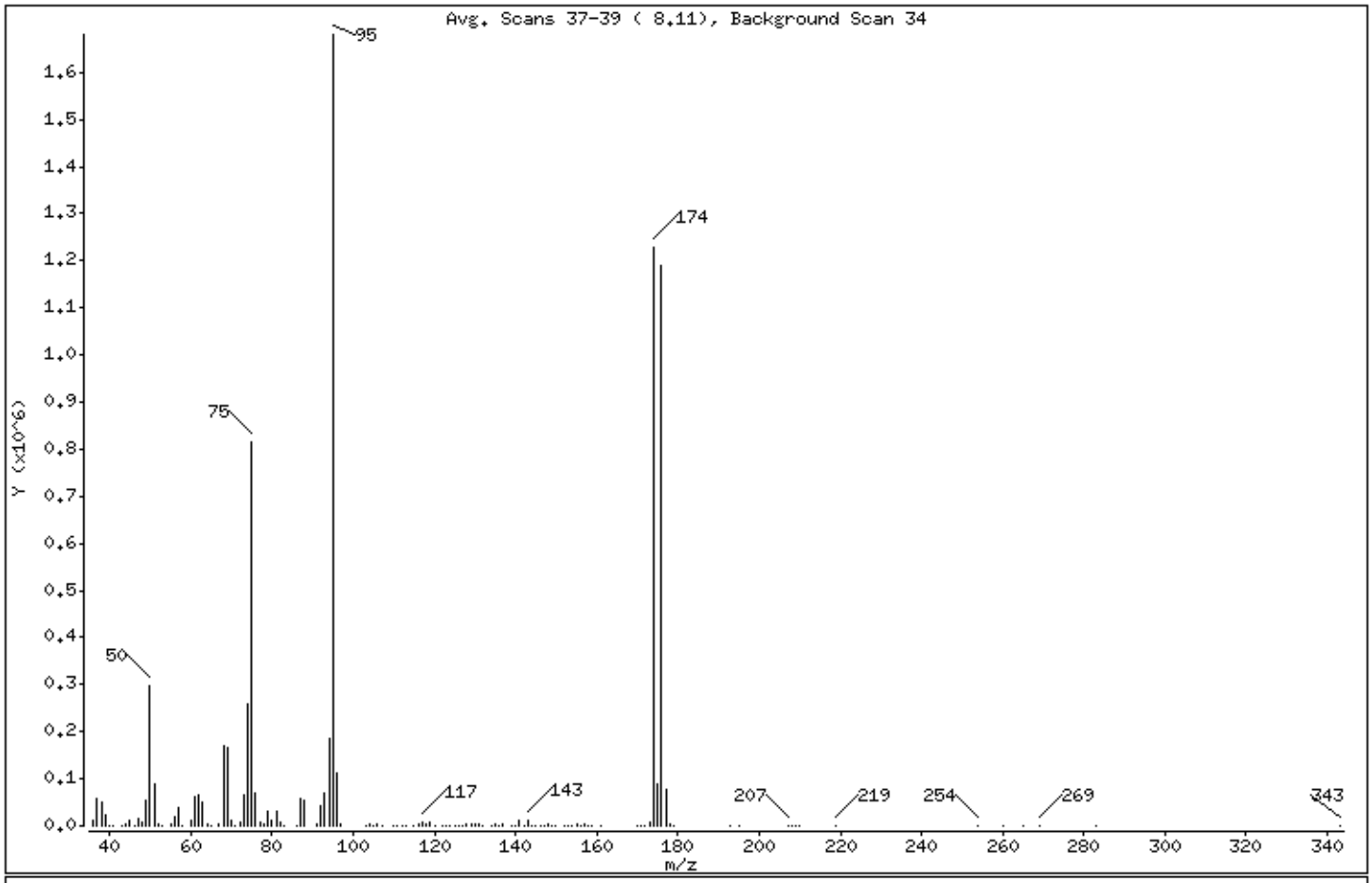
Volume Injected (uL): 1.0

Operator: ea

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.59
75	30.00 - 60.00% of mass 95	48.58
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.55 (0.76)
174	50.00 - 100.00% of mass 95	73.17
175	5.00 - 9.00% of mass 174	5.32 (7.27)
176	95.00 - 101.00% of mass 174	70.81 (96.78)
177	5.00 - 9.00% of mass 176	4.62 (6.52)

Date : 26-NOV-2007 08:57

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-58;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: ea

Column phase: Column diameter: 2.00

Data File: t112601.d
Spectrum: Avg. Scans 37-39 (8.11), Background Scan 34
Location of Maximum: 95.00
Number of points: 128

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	9975	73.00	64312	118.00	4454	155.00	3705
37.00	56856	74.00	258304	119.00	6442	156.00	633
38.00	51368	75.00	816384	120.00	316	157.00	2290
39.00	21288	76.00	69184	122.00	338	158.00	389
40.00	241	77.00	7692	123.00	375	159.00	1791
41.00	92	78.00	4642	124.00	749	161.00	1550
43.00	144	79.00	31264	125.00	644	170.00	252
44.00	5635	80.00	9849	126.00	636	171.00	224
45.00	11500	81.00	32192	127.00	301	172.00	677
46.00	872	82.00	6684	128.00	5010	173.00	9302
47.00	14225	83.00	679	129.00	2400	174.00	1229312
48.00	7444	86.00	1228	130.00	4985	175.00	89368
49.00	54520	87.00	57024	131.00	2008	176.00	1189888
50.00	295552	88.00	53880	132.00	253	177.00	77640
51.00	89008	91.00	4165	134.00	473	178.00	2331
52.00	3949	92.00	43800	135.00	2211	179.00	258
53.00	251	93.00	68632	136.00	354	193.00	514
55.00	3349	94.00	184064	137.00	1982	195.00	231
56.00	20288	95.00	1680384	139.00	378	207.00	1551
57.00	38912	96.00	110104	140.00	832	208.00	357
58.00	1422	97.00	3378	141.00	12061	209.00	203
60.00	11435	103.00	578	142.00	1356	210.00	107
61.00	63704	104.00	5490	143.00	12222	219.00	111
62.00	67056	105.00	1749	144.00	601	254.00	208
63.00	51424	106.00	5112	145.00	1021	260.00	30
64.00	4623	107.00	1455	146.00	1745	265.00	148
65.00	553	110.00	615	147.00	1083	269.00	48
67.00	3551	111.00	825	148.00	3338	283.00	10
68.00	171264	112.00	544	149.00	1085	343.00	193
69.00	167168	113.00	790	150.00	1437		
70.00	11705	115.00	1293	152.00	591		
71.00	329	116.00	4910	153.00	928		
72.00	7062	117.00	7803	154.00	837		

Air Toxics Ltd.

Data file : /chem/msdt.i/27Nov2007.b/t112701.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 27-NOV-2007 08:28
Operator : sjr Inst ID: msdt.i
Smp Info : 2uL #1467-64;BFB Tune check;BFB Tune check
Misc Info : 50ng
Comment :
Method : /chem/msdt.i/27Nov2007.b/bfb.m
Meth Date : 23-Mar-2007 09:33 tsanfel Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

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

Cpnd Variable Local Compound Variable

					CONCENTRATIONS ON-COL	FINAL		
RT	EXP RT	DLT RT	MASS	RESPONSE	(ug/L)	(ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.137	8.228	-0.091	95	2023424			100.00- 100.00	100.00
8.137	8.228	-0.091	50	342016			15.00- 40.00	16.90
8.137	8.228	-0.091	75	957440			30.00- 60.00	47.32
8.137	8.228	-0.091	96	133824			5.00- 9.00	6.61
8.137	8.228	-0.091	173	9104			0.00- 2.00	0.77
8.137	8.228	-0.091	174	1179648			50.00- 100.00	58.30
8.137	8.228	-0.091	175	89296			5.00- 9.00	7.57
8.137	8.228	-0.091	176	1128960			95.00- 101.00	95.70
8.137	8.228	-0.091	177	75704			5.00- 9.00	6.71

Data File: /chem/msdt.i/27Nov2007.b/t112701.d

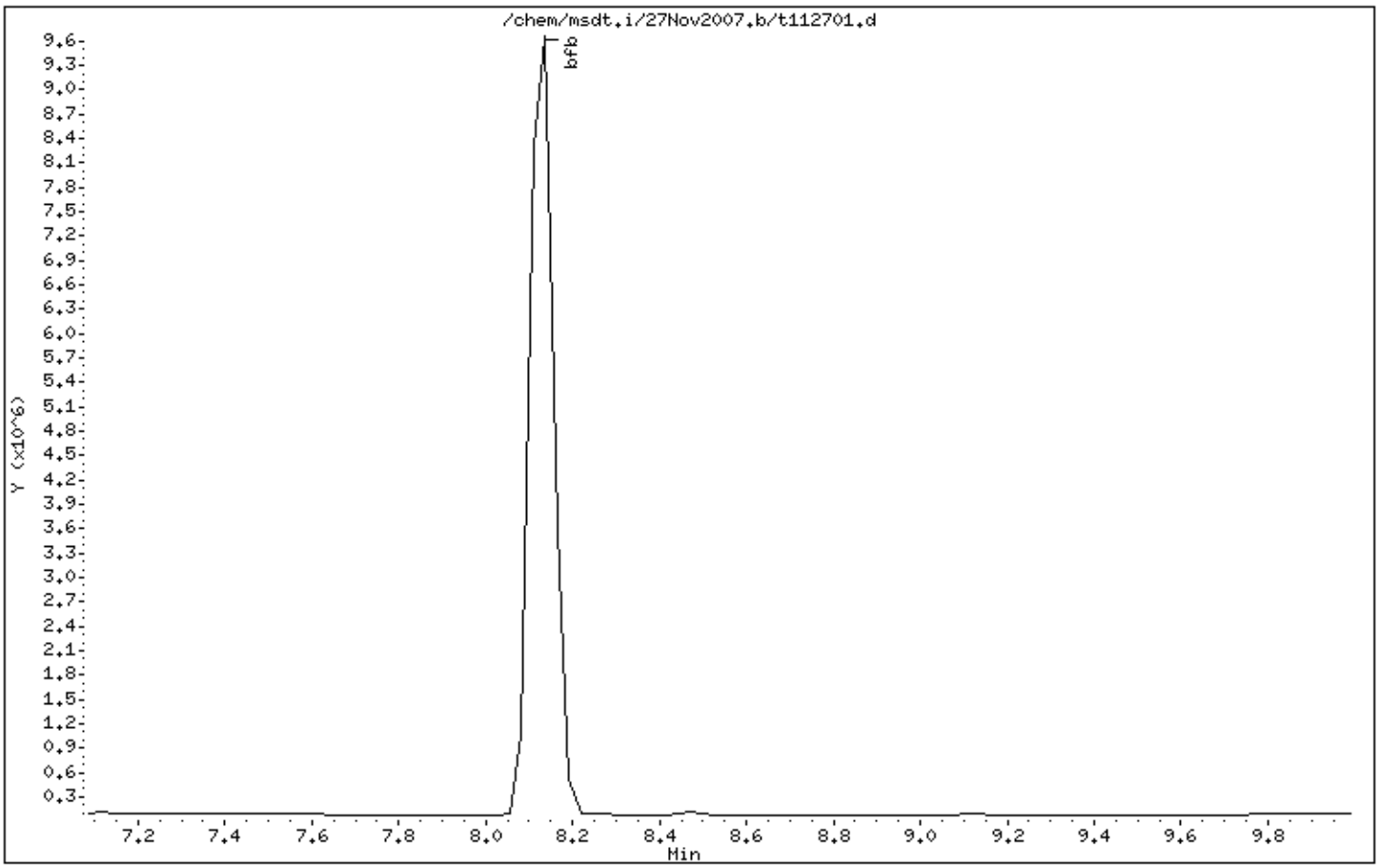
Date : 27-NOV-2007 08:28

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00



Data File: /chem/msdt.i/27Nov2007.b/t112701.d

Date : 27-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

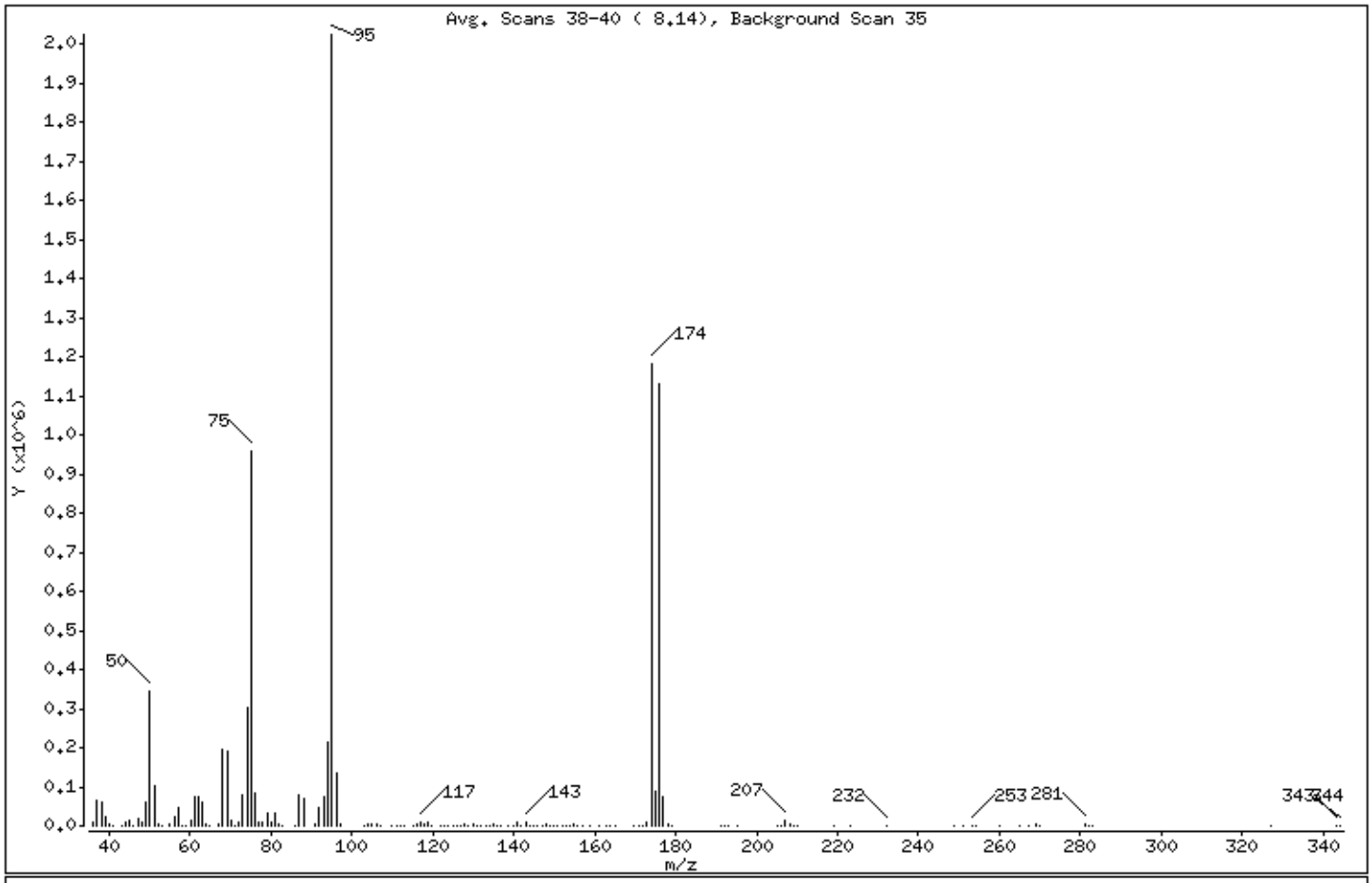
Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.90
75	30.00 - 60.00% of mass 95	47.32
96	5.00 - 9.00% of mass 95	6.61
173	Less than 2.00% of mass 174	0.45 (0.77)
174	50.00 - 100.00% of mass 95	58.30
175	5.00 - 9.00% of mass 174	4.41 (7.57)
176	95.00 - 101.00% of mass 174	55.79 (95.70)
177	5.00 - 9.00% of mass 176	3.74 (6.71)

Data File: /chem/msdt.i/27Nov2007.b/t112701.d

Date : 27-NOV-2007 08:28

Client ID: BFB

Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0

Operator: sjr

Column phase:

Column diameter: 2.00

Data File: t112701.d
Spectrum: Avg. Scans 38-40 (8.14), Background Scan 35
Location of Maximum: 95.10
Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	10967	77.00	11181	128.00	5255	174.00	1179648
37.10	63096	78.00	7525	128.90	2263	175.00	89296
38.10	58576	79.00	33448	129.90	5468	176.00	1128960
39.10	25064	80.00	10272	131.00	2321	177.00	75704
40.00	4541	81.00	33624	131.90	336	178.00	2395
41.10	720	82.00	6841	133.00	2321	179.00	388
43.10	1061	83.00	765	133.90	533	191.10	1948
44.10	9622	86.00	1354	135.00	2791	192.10	408
45.10	14694	87.00	80200	136.00	495	193.10	1263
46.10	1288	88.00	71152	137.00	2033	195.10	587
47.10	17656	91.00	5036	138.80	336	205.00	346
48.10	7740	92.00	47272	140.10	840	206.00	301
49.10	62504	93.00	76664	141.00	11217	207.10	15450
50.10	342016	94.10	216064	141.90	1357	208.10	3106
51.10	102224	95.10	2023424	143.00	11316	209.10	1942
52.10	4356	96.10	133824	143.90	526	210.00	459
53.00	338	97.00	3974	145.10	684	218.90	348
55.10	3503	103.00	1006	145.90	1892	223.00	311
56.10	21888	103.90	6382	147.00	1608	232.10	516
57.10	44760	104.90	2717	148.00	3231	249.00	700
58.10	1695	106.00	5210	149.00	1163	251.10	472
58.90	478	106.90	1722	149.90	1107	253.10	993
60.10	13942	109.90	656	150.90	302	254.10	389
61.10	75000	111.00	1003	152.00	519	260.20	821
62.10	76728	112.10	493	153.00	1429	265.10	439
63.10	59664	112.90	698	154.00	913	267.10	782
64.10	4836	115.00	1595	155.00	3336	269.10	2651
65.00	485	116.00	4281	155.80	493	270.10	618
67.10	4046	117.00	8117	157.00	2030	281.10	4888
68.10	194048	117.90	4778	159.00	1440	282.10	1438
69.10	192128	119.00	7414	161.00	1202	283.10	731
70.10	12726	119.90	316	163.00	646	327.10	334
71.00	757	121.90	406	164.00	305	343.20	1261
72.10	7546	123.00	524	165.10	345	344.10	313
73.10	77736	123.90	837	169.80	355		

Date : 27-NOV-2007 08:28

Client ID: BFB Instrument: msdt.i

Sample Info: 2uL #1467-64;BFB Tune check;BFB Tune check

Volume Injected (uL): 1.0 Operator: sjr

Column phase: Column diameter: 2.00

Data File: t112701.d
Spectrum: Avg. Scans 38-40 (8.14), Background Scan 35
Location of Maximum: 95.10
Number of points: 148

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.10	302784	124.90	549	171.20	377		
75.10	957440	125.90	694	171.90	776		
76.10	84808	127.10	705	173.00	9104		

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 #: 0711309
# of pages (Including Cover): 1

12/5/2007

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 **Bryanna Langley at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

The following discrepancy has been observed:

Sample identification for sample UW-AMS 5 was not provided on the sample tag. Identification was based by matching the canister number between the Chain of Custody and the canister.

Your prompt response is appreciated.

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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

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

0220

Contact
Company GEI Consultants, Inc.
Address 455 Winding Brook Glastonbury CT 06033
Phone 860-368-5300 Cell:

Collected By: Signature: [signature]

Project Info:
P.O. #
Project # 061140 - 8 - 1703
Project Name BayShore OU1 Southern cell Air Monitoring

Turn Around Time:
☒ Normal
☐ Rush ______
Specify
6/20/2/07

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt
01A	UB-AMS5 CAN # 2941 UP	11/14/07 0630-1430	TO-15 + Naphthalene	-29.5	-6	7.0"
02A	DW-AMS1 CAN # 2224 DW	11/14/07 0630-1425	TO-15 + Naphthalene	-29.5	-6.5	5.5"

Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time
[signature] 11/14/07	
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time Monica Gregsen ATL 11/15/07 0950
Relinquished By: (Signature) Date/Time	Received By: (Signature) Date/Time

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

Lab Use Only

Shipper Name	Air Bill #	Opened By:	Temp. (C)	Condition	Custody Seals Intact?	Work Order #
FedEx	8620 3516 5678	MG	NA	Good	Yes No (None)	0711309

AN ENVIRONMENTAL ANALYTICAL LABORATORY

SAMPLE RECEIPT SUMMARY

WORKORDER 0711309

Client

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

Sales Rep: ANS

Phone

860-368-5300

Fax

860-368-5307

Date Promised: 12/03/07
Date Completed: 11/30/07
Date Received: 11/15/07
PO#: NR
Project#: 061140-8-1703 BayShore OU1 Southern cell Air Monitorin
Total $: $ 624.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	UW-AMS 5	Modified TO-15	11/14/2007	7.0 "Hg	$225.00
02A	DW-AMS 1	Modified TO-15	11/14/2007	5.5 "Hg	$225.00
03A	Lab Blank	Modified TO-15	NA	NA	$0.00
04A	CCV	Modified TO-15	NA	NA	$0.00
05A	LCS	Modified TO-15	NA	NA	$0.00

Misc. Charges	6 Liter Summa Canister (2) @ $50.00 each.	$100.00
	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#: Bay Shore OU1 South Perimeter Air/9699

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

Analysis Code: TO-14A

TERMS:

Reporting Method: Modified TO-15 + Naph

Sample Discrepancy Report

Identification

Initiated By: MW **Date:** 11/15 **Discrepancy Type:** (circle all that apply) (I.) II. III.

Workorder(s) affected: 0711809 **Sample(s) affected:** 01A

I. Sample Receipt Discrepancies

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

Narration not required:

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

Narration Required:

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

Describe the Discrepancy: 01A: tag blank

II. Sample Receipt/Screening Discrepancies requiring CSR notification

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

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

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

Initials: _____ (if not the original initiator) **Date:** _____

☐ **CSR Notified** (see section below)

Describe the Discrepancy: _____

Other Records

DILUTION FACTORS

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

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

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

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

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

DILUTION FACTORS

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

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

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

Compound Listing

Modified TO-15 + Naph

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

Compound Listing

Modified TO-15 + Naph

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

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0711309

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 - # _____
☑	☑	☐	☑	☐	Unusual circumstances have been documented in the notes section below

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

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

☑	☑	☐	☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☑	☑	☐		Correct amount of sample analyzed (i.e. sample not over-diluted)
	☑	☐		Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
	☑	☐		TICs resemble reference spectra
	☐	☐		TICs between duplicate samples are consistent
NA	☐	☐	☑	Checked samples for trends (i.e. Influent>Effluent, Landfill or Ambient etc)
	☐		NA	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 or He) ☐ Tedlar Bag only
☑	☑			Final pressure consistent with canister size (6L vs. 1L)
☑	☑			Verify receipt pressures against logbook and Target
☑	☐			Verify canister ID #'s
	NA		☐	Extra printed copies are provided per client profile
	☐		☑	Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	☑	☐	NA	☐ Client LUMEN report reviewed for accuracy and completeness

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

A/R: Ø out in CW / 1 out in LCS (2-propanol)

M/Q:

A	R/T	M	Q
(Analytical Review/Date)	(Reporting Review/Date)	(Management Review/Date)	(QA Review/Date)
LR 11/28/07	R: DS 11-30-07	WS 11/30/07	

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